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Montague Lord

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Acronyms

| | |
|----------|---|
| ACD | Afghan Customs Department |
| AD | Anno Domini |
| ADB | Asian Development Bank |
| API | Active Pharmaceutical Ingredient |
| ARD | Afghan Revenue Department |
| ATF | Agreement on Trade Facilitation |
| BC | Before Christ |
| BEZ | Border Economic Zone |
| BTA | Bilateral Trade Agreement |
| CADGAT | Central Asia Data-Gathering and Analysis Team |
| CAREC | Central Asia Regional Economic Cooperation |
| CARs | Central Asian Republics |
| CASA | Central Asia South Asia |
| CBTA | Cross-Border Trade Agreement |
| CC | Cubic Centimeter |
| CGE | Computable General Equilibrium |
| CIF | Cost Insurance Freight |
| CISFTA | Commonwealth of Independent States Free Trade Agreement |
| COMTRADE | Commodity Trade Statistics Database |
| CPI | Consumer Price Indices |
| CU | Customs Union |
| DOF | Degrees of Freedom |
| DOT | Direction of Trade |
| DRC | Domestic Resource Cost |
| DW | Durbin-Watson |
| EAEC | Eurasian Economic Community |
| ECM | Equilibrium-correcting mechanism |
| ECOTA | Economic Cooperation Organization Trade Agreement |
| FAO | Food and Agriculture Organization |
| FOB | Free on Board |
| FTA | Free Trade Agreement |
| GDP | Gross Domestic Product |
| GIROA | Government of the Islamic Republic of Afghanistan |
| GMP | Good Manufacturing Practice |
| GNI | Gross National Income |
| GNP | Gross National Product |
| GVC | Global Value Chain |
| HDI | Human Development Index |

| | |
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| HS | Harmonized System |
| HT | High Tech |
| IIT | Intra-Industry Trade |
| IMF | International Monetary Fund |
| ISIC | International Standard Industrial Classification |
| kVA | Kilo Volt Ampere |
| kW | Kilo Watt |
| LDC | Least Developed Countries |
| LSCI | Linear Shipping Connectivity Index |
| MT | Medium Tech |
| MW | Megawatt |
| NGO | Non-Government Organization |
| NTB | Non-Tariff Barrier |
| NTMs | Non-Tariff Measures |
| NUPI | Norwegian Institute of International Affairs |
| OECD | Organisation for Economic Cooperation and Development |
| PP | Primary Products |
| PPI | Producer Price Indices |
| PPP | Purchasing Power Parity |
| QR | Quick Response |
| RB | Resource-Based |
| RCA | Revealed Comparative Advantage |
| REER | Real Effective Exchange Rate |
| RER | Real Exchange Rate |
| RTA | Regional Trade Arrangement |
| RVC | Regional Value Chain |
| SAFTA | South Asia Free Trade Area |
| SAPTA | South Asian Preferential Trade Agreement |
| SI | Similarity Index |
| SME | Small and Medium-Sized Enterprise |
| SPS | Sanitary and Phytosanitary |
| TAFA | Trade and Accession Facilitation for Afghanistan |
| TAP (TAPI) | Turkmenistan–Afghanistan–Pakistan–India Pipeline |
| TIVA | Trade in Value Added |
| TLP | Trade Liberalization Program |
| TTA | Transit Trade Agreement |
| TTF | Transport and Trade Facilitation |
| UAE | United Arab Emirates |
| UN | United Nations |
| UNCTAD | United Nations Conference on Trade and Development |
| UNESCAP | United Nations Economic and Social Commission for Asia and the Pacific |
| USAID | United States Agency for International Development |

| | |
|------|-----------------------------|
| VA | Value Added |
| VAT | Value Added Tax (VAT) |
| WIOD | World Input Output Database |
| WPI | Wholesale Price Indices |
| WTO | World Trade Organization |

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Map of Central and South Asia



Source: Perry-Castañeda Library Map Collection, University of Texas at Austin

Regional Trade Opportunities in Central and South Asia

Executive Summary

The Central and South Asia regions have a long history of trade relations. There have nearly always been movements of goods and people between the regions, which in turn have linked their cultural and religious ties and impacted political relations. Yet today's trade between the two regions remains low and significantly below regional trade in Africa, the Middle East, Latin America and Southeast Asia. Using different measures of trade, we estimate that inter-regional trade is only between 0.2 and 4 percent of total trade to all destinations. Even within the regions, trade among countries remains low. Intra-regional trade in Central Asia is less than 5 percent and that of South Asia is 1.5 percent of trade with all countries.

The present study explores opportunities and challenges for intra- and inter-regional trade in the Central and South Asia areas by analyzing a wide range of channels impacting trade. Trade enhancing channels are divided into two broad categories. The first set refers to disaggregated or product-level characterizations of trade affecting competitiveness and complementarities between trading partners within and between the regions. The second refers to price, non-price and structural determinants that tend to affect all products traded between countries. The analysis also includes a gravity model to gauge the effect of economic growth, distance and price, non-price and structural determinants of regional trade.

The empirical results indicate that, under existing trade patterns, the potential value of trade in the two regions is nearly twice as large as the actual level. The finding is not surprising. Opportunities for regional trade abound and there are numerous policy initiatives that could be taken to help spur trade and investment in and between the two regions. Among the possibilities are regional value chains that could create large gains in terms of higher value additions to exports, technologies transfers and employment generation. The analysis of different types of value chains in this study categorizes industries according to their value added contribution to trade, and it prioritizes industries according to interests ranging from the diversification of industries across resource-intensive, labor-intensive, and technology-intensive industries, as well as the potential participation of Afghanistan due to its comparative advantages in products exported by the industries or its geographic location for transit trade.

Based on quantitative analyzes of actual and potential channels of trade, the study ranks the pattern of trade in terms of its adaptability to intra- and cross-regional commerce in the Central and South Asia regions and its predilection for regional value chains. The ranking uses an innovative methodology that takes account of difference preference orderings of stakeholders, such as governments and development partners that have interests in pro-poor trade, or large companies that favor cross-border fragmentation of production for regional and global value chains.

Ratings are classified into the following categories: trade complementarities, export diversification, comparative advantages, structural factors, intra-industry trade, price competitiveness, trade costs, economic growth; and regional value chains. The baseline ratings suggest the following: First, the larger economies have higher ratings than the smaller, less developed ones, suggesting that size and level of development matter in the development of regional trade. Second, among the different channels of regional trade development, the most effective ones are (i) measures that promote price competitiveness; (ii) intra-industry trade; (iii) trade complementarities; and (iv) economic growth. Third, the effectiveness of country-specific measures differ, as for example in Afghanistan, where the trade enhancing channels that matter the most are structural factors, price competitiveness and trade complementarities with other countries in South Asia and with Central Asia in general.

These findings have important implications for the ability of different trade-related policies, programs and institutional mechanisms to successfully promote greater commerce within and across the two regions. Each of these mechanisms has costs associated with them and different types of mechanisms can be programmed on the basis of their ease of implementation and impact potential.

The material in this study is designed in such a way as to provide practical knowledge and methods for businesses to take advantage of Central and South Asia regional opportunities; analytical tools for policymakers and researchers; and policy and program recommendations for governments and development partners. It should be of interest to businesses, governments, international development partners, policymakers and researchers, and others concerned with Central and South Asia's trade and the potential for developing value chains or so-called 'trade in tasks' across the two regions.

PART I. INTRODUCTION

I. BACKGROUND AND COVERAGE

A. Introduction

Trade, investment and economic cooperation between the Central and South Asia regions is critical to present-day economic growth and development of countries in those areas. The two regions contain the landlocked countries of the Central Asian Republics and Afghanistan, which rely on land and air connectivity with each other and neighboring countries to access regional and global markets. Yet, while there is tremendous potential for increasing trade and investment between Central Asia and South Asia, these two regions are among the least economically integrated ones in the world: their inter-regional trade accounts for less than 1 percent of the total trade between the five Central Asian Republics and the three South Asian countries of Afghanistan, India and Pakistan.¹

In an effort to reverse that situation, a variety of initiatives are being put forward. They range from a cross-border transport agreement among Kyrgyzstan, Tajikistan and Afghanistan, and the Afghanistan-Pakistan Transit-Trade Agreement, to multilateral efforts to secure better market access through accession to the World Trade Organization (WTO) by Afghanistan, Kazakhstan, Turkmenistan and Uzbekistan.² The United States Government's concept of a New Silk Road forms the basis for much of its supports to enhancing connectivity across South and Central Asia, and reestablishing Afghanistan's historic role as the crossroads of Eurasia. New trade routes are envisioned. They connect Europe and the markets of Central and East Asia through a web of north-south and east-west trade corridors, as well as energy grids and communication networks. The establishment of the new routes has been shaped by the Asian Development Bank's (ADB) Central Asia Regional Economic Cooperation (CAREC) program, which has implemented over 100 projects in regional transport, trade facilitation, trade policy and energy, as well as facilitated over \$20 billion worth in infrastructure and investment in that region.³

In this context, the objective of the present study is to explore opportunities and challenges for intra- and inter-regional trade in the Central and South Asia areas by analyzing trade competitiveness and complementarities along with the potential for regional value chains. In particular, the study quantitatively analyzes actual and potential channels for trade at the detailed product level. Based on those findings, it ranks the pattern of trade in terms of its adaptability to intra- and cross-regional commerce in the Central and South Asia regions and its predilection for regional value chains. It then assesses the ability of different trade-related policies, programs and institutional mechanisms to successfully promote greater commerce

¹ Trade-weighted average, based on data for 2013 from International Monetary Fund, Direction of Trade statistics.

² W.J. Burns (2014), "Remarks by Deputy Secretary of State on 'Expanding Economic Connectivity in Greater Central Asia'". Delivered to the Asia Society, New York City. 23 September 2014. Available: <http://www.state.gov/s/d/2014/232035.htm>.

³ P. Pyatt (2013), "Remarks by Principal Deputy Assistant Secretary, Bureau of South and Central Asian Affairs on Afghanistan Security Days, Organization for Security and Cooperation in Europe". Vienna, Austria. March 12, 2013. Available: <http://www.state.gov/p/sca/rls/rmks/2013/205973.htm>.

within and across the two regions. Those assessments are based on rating of alternative preferences by stakeholder groups, such as governments and development partners that wish to promote pro-poor trade, or large companies that are interested in greater cross-border fragmentation of production for regional and global value chains.

The material in this study is designed in such a way as to provide (a) practical knowledge and methods for businesses to take advantage of Central and South Asia regional opportunities; (b) analytical tools for policymakers and researchers; and (c) policy and program recommendations for governments and development partners. It should be of interest to businesses, governments, international development partners, policymakers and researchers, and others concerned with Central and South Asia's trade and the potential for developing value chains or so-called 'trade in tasks' across the two regions.

The study has been carried out under USAID's Afghanistan Trade and Revenue Project, which provides technical support and assistance to strengthen the business climate of Afghanistan in order to enable private investment, enhance trade, create jobs, and provide fiscal sustainability during the country's transition period in this decade and continuing into the next decade's transformational period. The study supports the project's Component 2 that seeks to enhance regional economic integration in Central and South Asia through the adoption of trade facilitation measures such as cross-border transit agreements, corridor governance, customs reforms, private sector linkages, and regional policies and programs.

B. Historical Context

The Central and South Asia regions have a long history of trade relations. There has nearly always been movement of goods and people, which has, in turn, linked their cultural and religious ties and impacted their political relations.

- In ancient times, travelers from Central Asia seeking to enter South Asia had a choice of routes. Although the Himalayan Mountains in the north and extensive mountains in the northeast prevented large-scale overland trade, regular cultural contacts and the movement of valuable goods always continued. Land routes through the Hindu Kush in the northwest, including the Khyber Pass, allowed contact between Central Asia and South Asia through what is today Afghanistan.⁴ Lapis lazuli was one of the principal materials procured through these trade networks. As a highly prized raw material in the ancient world and used in combination with gold and silver to create works of art, it was traded along a route linking the people of the Indo-Iranian borderlands (now Afghanistan and parts of Pakistan) and Turkmenistan since at least the seventh millennium BC.⁵
- During the period of the Indus Valley Civilization (3300-1300 BC), the people from what is today northeast Afghanistan, Pakistan and northwest India traded with Central Asia

⁴ V. Hansen and K. Curtis (2013), *Voyages in World History, Volume 1 to 1600, Volume 1*. Edition 2. Boston, Mass.: Cengage Learning. Available: http://books.google.co.th/books/about/Voyages_in_World_History.html?id=MLXDr0GRHQC&redir_esc=y.

⁵ Ibid.

through the Khyber Pass.⁶ This was a period during which there was a renewal of trade networks between the Indian subcontinent and southern Central Asia.⁷ The ancient cities in the plains between the Kopet Dag and the Karakum Desert of Turkmenistan were where the trade routes from China in the east, Europe in the west, Russia in the north and India in the south met and cultures, trade and religions converged. An extensive network of land routes had emerged as early as the III-II millennium BC that included access to India through Afghanistan.

- Under ancient India's Maurya Empire (322–185 BC), the importance of relations with Central Asia increased through the trade route linking Taxila in the Punjab province of Pakistan to Kapisa in Afghanistan, and then to the ancient oasis city of Merv along the Silk Road in Turkmenistan.⁸ It was during this time that Takshashila (Taxila in present-day Pakistan) became a major intersection for three trade routes, one of which went north to Balkh in what is now northern Afghanistan.⁹
- During the early development of the Silk Road, the Kushan Empire (30–375 AD) established political and economic stability of much of Central Asia and extended its control to the Indian Ganges Valley in the south.¹⁰ The Kushans' trade-based economy ensured a steady flow of goods, people and cultures across the two regions and complemented the early development of the main routes by the Han Dynasty (206 BC – 220 AD) and in particular the Central Asian sections of the trade routes around 114 BC by the Han dynasty.
- In later development of the Silk Road and during the height of its commerce (13th century and first half of 14th century), the important secondary routes to the Indian subcontinent were part of the main southern route. During this period, Kashgar (in China and located near the border with Tajikistan and Kyrgyzstan) became the new crossroads of Asia and from here the routes again divided, heading across the Pamirs to Samarkand and from there to the south into the Indian subcontinent. Numerous commodities were traded

⁶ J. McIntosh (2008), *The Ancient Indus Valley: New Perspectives*. Santa Barbara, California. ABC-CLIO, Inc. Available: http://books.google.co.th/books/about/The_Ancient_Indus_Valley.html?id=1AJ02A-CbccC&redir_esc=y.

⁷ F.T. Hiebert and C.C. Lamberg-Karlovsky (2003), "Central Asia and the Indo-Iranian Borderlands". *Iran* 30:1-15. Available: <http://www.jstor.org/discover/10.2307/4299865?uid=3739136&uid=2&uid=4&sid=21105330813613>.

⁸ S. Dwivedi (2011), "Ancient Merv- the Queen of the World and its link with India". *Dialogue* 13(1). Available: http://www.asthabharati.org/Dia_July%20011/suni.htm.

⁹ K. J. Schmidt (1995), *An Atlas and Survey of South Asian History*. Armonk, N.Y.: M.E. Sharpe. Available: http://books.google.co.th/books/about/An_Atlas_and_Survey_of_South_Asian_Histo.html?id=FzmkFXSgxggC&redir_esc=y.

¹⁰ S. Mehendale (1996), "Begram: along ancient Central Asian and Indian trade routes". *Cahiers d'Asie Centrale* 1/2. Available: <http://asiecentrale.revues.org/419>.

along the route, ranging from gold, precious stones and ivory to exotic animals and plants.¹¹

- During the reign of the Mongol Empire (1206-1368) under the leadership of Genghis Khan and his descendants, commercial activities grew rapidly. They stretched from the Sea of Japan to Central Europe, and then southwards into the Indian subcontinent, Indochina, and the Iranian plateau. Though the invasions into India failed, the Mongols encouraged trade between Central Asia and the India subcontinent.
- Under the Mughal Empire (1526-1857) of the Indian subcontinent, commercial and cultural links with Central Asia flourished, and especially under Emperor Jahangir (1569 – 1627). The main caravan routes went through the Khyber and Bolan passes to Kashmir, Afghanistan, and the vast area of Turkestan. The main products originating in Central Asia were horses, falcons, dry and fresh fruits, silk, furs, cotton and precious metals; from the Indian side there were spices, tea, medicinal herbs, textiles, and precious stones.¹² Regular diplomatic missions took place between the Central Asian countries and India to address economic and trade issues. When Portugal seized large trade ports in Goa, Diu and Daman, the Moguls turned to the ancient caravan routes through Afghanistan to Central Asia. Further development of Central Asian trade with the Indian subcontinent occurred after the capture by Russia of Kazan Republic of Tatarstan in 1552 and Astrakhan 1556.¹³ From that time onwards the role of Central Asian merchants as mediators of Indo-Russian trade significantly increased.
- After the Russian Bolshevik Revolution of 1914 and Russia's support of India's anti-colonial struggle, Central Asia's role as a peripheral area of the Russian Empire meant that the two regions maintained contact with one another. Following renewed ties between Russia and India in 1955 and again in 1971, Indo-Central Asian commercial relations grew until the fall of the Soviet Union in 1992.¹⁴
- The New Silk Road (2011 onward) envisions Afghanistan's integration into the Central and South Asia regions by resuming traditional trading routes and reconstructing significant infrastructural links broken by decades of conflict. It supports the transition to trade and

¹¹ O. Wild (1979), "The Silk Road". Online: <http://www.ess.uci.edu/~oliver/silk3.html>.

¹² M. Laruelle (2011), "Foreign policy and myth-making: great game, heartland and silk roads". In M. Laruelle and S. Peyrouse (eds.), *Mapping Central Asia: Indian Perceptions and Strategies*, Ashgate Publishing, Ltd. Available: http://books.google.co.th/books?id=ceehAgAAQBAJ&dq=ancient+trade+routes+%22central+asia%22+india+trade+renewal&source=gbp_navlinks_s.

¹³ M. Kh. Abuseitova, "Historical and Cultural Relations between Kazakhstan, Central Asia and India from Ancient Times to the beginning of the 20th Century". In J. N. Roy, Braja Bihārī Kumāra (eds), *India and Central Asia: Classical to Contemporary Periods*. Concept Publishing Company. Available: http://books.google.co.th/books?id=IJl9avHstYC&dq=trade+%22Central+Asia%22+%22Indian+Subcontinent%22&source=gbp_navlinks_s.

¹⁴ M. Laruelle (2011) *op. cit.*

the opening of new markets connecting Afghanistan to Central Asia, Pakistan and India. The initiative is being promoted in four key areas: (a) regional energy markets to directing oil, gas and hydroelectric power southward from Central to South Asia through Afghanistan; (b) trade and transport improvements in hard infrastructure as well as soft infrastructure to help harmonize national customs systems, bring states into multilateral trade institutions, and eliminate institutional and bureaucratic barriers to trade; (c) custom and border operation procedures to facilitate trade and promote security and good governance; and (d) businesses connectivity to expand economic market opportunities for marginalized groups and enhance regional stability.¹⁵

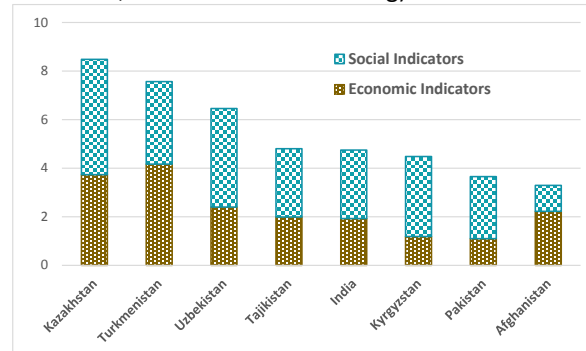
C. Socio-Economic Profile

The Central and South Asia regions contain a rich mix of countries with distinct social and linguistic characteristics, though they share strong historical and cultural ties. Table 1.1 shows general socio-economic indicators about the countries. Although Central Asia has, on average, higher social and economic indicators than South Asia, there are considerable variations among countries within each region.

In order to arrive at some general comparison of the socio-economic levels across countries, each of the economic and social indicators in Table 1.1 have been standardized using a common rating scale of 1 (low) to 5 (high). The economic indicators consist of per capita GDP and economic growth rates, while social indicators are made up of human development index, life expectancy, literacy rates, and the proportion of all persons living below the poverty line.

Figure 1.1 summarized the two sets of indicators for countries in the two regions, based on the mean average of the different economic and social indicators. Kazakhstan has the highest overall ranking, in large part because of its favorable social indicators, but also because of its high per capita GDP. Turkmenistan has the second highest ranking because of its high economic growth rate. At the lower end, Afghanistan and Pakistan have the lowest ratings because of unfavorable socio-economic indicators. In the case of Afghanistan, all indicators are at or near the bottom, except for its relatively high economic growth rate.

Figure 1.1: Socio-Economic Indicators of Central and South Asia Economies (sum of social and economic indicators, each based on 1-5 rating)



Source: Table 1.1.

¹⁵ United States Department of State (2014), "U.S. Support for the New Silk Road". Online: <http://www.state.gov/p/sca/ci/af/newsilkroad/>.

Table 1.1. Profile of Central and South Asian countries

| | Central Asia | | | | | South Asia | | |
|--|--|---|--|---|---|---|---|---|
| | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan | Afghanistan | India | Pakistan |
| Political Status | Declared Independence from USSR on 16 December 1991 | Independence from the Soviet Union on 25 December 1991 | Independence from the Soviet Union on 25 December 1991 | Independence from the Soviet Union on 25 December 1991 | Independence from the Soviet Union on 25 December 1991 | First Afghan State in April 1709; recognized August 1919 | Independence from British Empire on 15 August 1947 | Independence from British Empire on 14 August 1947 |
| Capital City | Astana | Bishkek | Dushanbe | Ashgabat | Tashkent | Kabul | New Delhi | Islamabad |
| Population (thousand) | 17,949 (2014) | 5,777 (2014) | 8,208 (2013) | 5,172 (2014) | 30,185 (2013) | 31,823 (2014) | 1,210,193 (2011) | 196,174 (2014) |
| Land Surface (sq.km) | 2,724,900 | 199,951 | 143,100 | 491,210 | 449,978 | 652,864 | 3,287,590 | 803,940 |
| Population density (persons/sq.km) | 5.94 (2014) | 27.4 (2014) | 48.6 (2010) | 10.5 (2014) | 61.4 (2013) | 43.5 (2014) | 380.5 (2011) | 234.4 (2014) |
| % Population in Urban Areas | 55% (2012) | 35% (2012) | 26.55% (2012) | 47% (2012) | 51% (2012) | 23% (2012) | 31% (2012) | 35% (2012) |
| Life Expectancy (years) | 70 (2012) | 70 (2012) | 61 (2012) | 65 (2012) | 73 (2014) | 61 (2012) | 66 (2012) | 66 (2012) |
| % Annual Population Growth | 1.5% (2013) | 2.0% (2013) | 2.5% (2013) | 1.3% (2013) | 1.6% (2013) | 2.4% (2013) | 1.2% (2013) | 1.7% (2013) |
| Gross Domestic Product (GRP, million US\$) | 224,415 (2013) | 7,226 (2013) | 8,508 (2013) | 41,851 (2013) | 56,796 (2013) | 20,725 (2013) | 1,876,797 (2013) | 236,625 (2013) |
| Per Capital GDP (US\$) | 13,172 (2013) | 1,263 (2013) | 1,036.6 (2013) | 7,986.7 (2013) | 1,878.1 (2013) | 678.3 (2013) | 1,498.9 (2013) | 1,299.1 (2013) |
| % Annual GDP Growth | 0.065 | 0.040 | 0.072 | 0.113 | 0.082 | 0.083 | 0.067 | 0.036 |
| Total Employment (thousand) | 4,325.72 | 2,317 (2013) | 1,121 (2010-2014) | 2,258.9 (2012) | 12,998.64 (2012) | 7,512.21 (2012) | 484,343.28 (2012) | 63,777.83 (2012) |
| Human Development Index | 0.757 (2013) 70th | 0.628 (2013) 125th | 0.607 (2013) 133th | 0.698 (2013) 103rd | 0.661 (2013) 116th | 0.468 (2013) 169th | 0.586 (2013) 135th | 0.537 (2013) 146th |
| Percent of Population Below Poverty Line | 8.2% (2009) | 38% (2012) | 28.2% (2012) | 30% (2004) | 26% (2011) | 35.8% (2011) | 21.9% (2012) | 12.4% (2011) |
| Adult (15+) Literacy Rate (%) | 99.7% (2012) | 99.2% (2009) | 100% (2012) | 100% (2012) | 99% (2012) | 32% (2011) | 62.8% (2006) | 55% (2011) |
| Ethnic Groups | Kazakh (63.6%) Russian (23.3%) Uzbek (2.9%) Ukrainian (2%) others (8.2%) | Kyrgyz (72.6%) Uzbek (14.4%) Russian (6.4%) Dungan (1.1%) others (5.5%) | Tajik (79.9%) Uzbek (15.3%) Russian (1.1%) others (2.6%) | Turkmen (85%) Uzbek (5%) Russian (4%) others (6%) | Uzbek (81.1%) Russian (5.4%) Tajik (4%) Kazakh (3%) Karakalpak (1.5%) others (2.5%) | Pashtun (42%), Tajik (27%), Hazara (9%), Uzbek (9%), Aimaks (4%), Turkmen (3%), others (6%) | Indo-Aryan (72%), Dravidian (25%), Mongoloid and other (3%) (2000) | Punjabi, Sindhi, Pashtun (Pathan), Baloch, Muhajir (immigrants from India and their descendants) |
| Language Spoken | Kazakh, Turkic, Russian, Uzbek, Ukrainian, Uyghu, Kyrgyz, Tatar, Mongolian | Kyrgyz (national) Russian (official) | Tajik, Russian | Turkmen, Russian | Uzbek, Karakalpak | Pashto, Dari, Uzbeki, Turkmani, Baluchi, Pashai, Nuristani, Pamiri (alsana), Arab | Hindi, English, Assamese, Bengali, Bodo, Dogri, Gujarati, Hindi, Kannada, Kashmiri, Konkani, Maithili, Malayalam, Marathi, Nepali, Punjabi, other | Punjabi, Pashto, Sindhi, Saraiki, Balochi, Kashmiri, Brahui, Dogri, Hindko, Shina, Balti, Khovar, Burushaski Yidgha, Dameli, Kalasha, Gawar-Bati, Domaaki |
| Currency (exchange rate, 25-11-2014) | 1US\$ = 180.935 Kazakhstani tenge (KZT) | 1US\$ = 57.567 Kyrgyzstan Som (KGS) | 1US\$ = 5.0845 Tajikistani Somoni (TJS) | 1US\$ = 2.8503 Turkmenistan Manat (TMT) | 1US\$ = 2,401.09 Uzbekistani Som (UZS) | 1US\$ = 58.22 Afghan Afghani (AFN) | 1US\$ = 61.85 Indian Rupee (INR) | 1US\$ = 101.8 Pakistani Rupee (PKR) |

Source: World Bank, World Development Indicators; United Nations, Human Development Index (HDI) database; various other sources.

D. Coverage

The study is divided into four main parts:

- ▶ *Part I* introduces the study and explains the concept behind the growing international fragmentation of trade and why its application to the Central and South Asia regions could greatly bolster trade within and between them. It also describes the methods used to rate and rank the potential for regional trade of different products, as well as providing a discussion on whether trade-related policies and programs could substantially bolster trade. Finally, it explains the methodology used to assess whether trade-related policies and programs are being carried out independently by countries in the regions or whether they have similarities that lend themselves to a regional implementation approach.
- ▶ *Part II* investigates regional trade at the detailed product level with a view to identifying opportunities from comparative and competitive trade differences and determining whether those differences could give rise to regional fragmentation of production associated with value chains. The analysis begins by measuring the extent of geographic and product diversification among countries in the regions and the extent to which those countries have concentrated their exports on dynamic or slow-growing geographic or product markets. It then examines actual and potential trade within and between the regions by testing trade compatibility in areas that favor intra- and inter-regional trade, as well as the magnitude of intra-industry trade that is associated with product differentiation and regional and international fragmentation of production.
- ▶ *Part III* examines trade and macroeconomic-related policies and programs to bolster trade within and between the Central and South Asia regions. One of the major trade-related instruments for advancing regional trade takes various forms of preferential trade agreements. Those arrangements can target either broad issues or narrowly defined sectors or measures to facilitate trade, such as transport or customs treaties between countries. The other equally important trade-related instrument examined is that of trade costs. New data on these costs show the enormity of border and behind-the-border costs, notwithstanding declining tariffs associated with free trade agreements (FTAs) and WTO multilateral trade negotiations. At the macroeconomic level, the major determinant of the Central and South Asian countries' competitiveness is the real effective exchange rate. The analysis in this part of the study shows how real bilateral exchange rates have impacted on trade within and between the two regions. Part III concludes with a comprehensive analysis of potential regional value chains and suggestions for their prioritization.
- ▶ *Part IV* summarizes the findings and provides rankings of factors contributing to the expansion of regional trade. Those rankings are based on preference orderings of different stakeholder groups, whose objectives range from promoting pro-poor trade and helping small businesses to increase their participation in trade to maximizing commercial expansion by large multinationals, especially in global value chains. Finally, it orders the different types of policies, programs and institutional mechanisms in terms of their ease of implementation and highlights those instruments that have a high impact potential and are relatively easy to carry out.

E. Terminology

Throughout this study the following terms have specific meanings as indicated below:

- *Central Asia* is made up of the Central Asian Republics (CARs) of Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan and Uzbekistan.
- *South Asia* is limited to Afghanistan, India and Pakistan.
- *Trade Compatibility* refers to the trade structure between two or more countries that is favorable to the volume of their transactions in goods and services, and that arises in either their trade in final goods or in value addition to production of intermediate or final goods.
- *Trade-Related Instruments* refer to policy, program and institutional mechanisms through border and behind-the-border initiatives at the national, bilateral, sub-regional, regional and international levels.

II. REGIONAL TRADE PATTERNS

A. Importance of Trade

The size of the Central and South Asian countries varies greatly, ranging from small economies like Kyrgyzstan and Tajikistan to huge ones like India, whose economy is ten times larger than that of Kazakhstan, the largest economy in Central Asia (Figure 2.1).¹⁶ In the middle is Afghanistan, whose population is the same size as that of Uzbekistan but only half the size of that economy. Afghanistan is also the poorest country in the two regions, followed by Tajikistan and Kyrgyzstan, and it is the only country in the region that is classified as Least Developed by the United Nations.¹⁷ At the other extreme is Kazakhstan, whose per capita income is 16 times larger than that of Afghanistan and over 7 times larger than that of India.

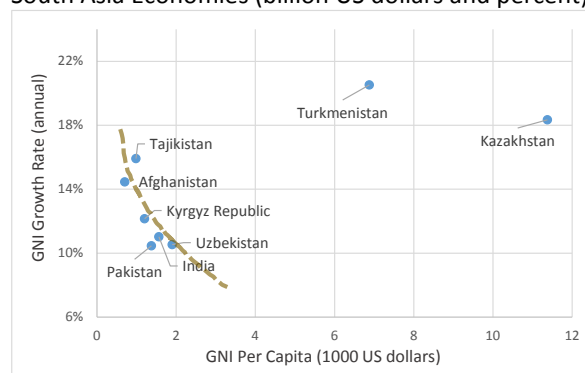
Economic convergence would, under neoclassical theory of growth, occur because lesser developed countries are expected to grow faster than the relatively more advanced ones as they mature and reach their steady-state growth.¹⁸ The evidence for the Central and South Asia regions is mixed, however. The two countries with the largest per capita incomes, Kazakhstan and Turkmenistan, have achieved much faster growth rates than those with low per capita incomes. Among the other six countries, there is evidence of

Figure 2.1: Gross National Income (GNI) of Central and South Asia Economies (billion US dollars)



Source: World Bank, World Development Indicators.

Figure 2.2: Relationship between Gross National Income (GNI) and Economic Growth of Central and South Asia Economies (billion US dollars and percent)



Source: Based on data from World Bank, World Development Indicators.

¹⁶ Data based on the World Bank's Atlas method for calculating the current U.S. dollar value of gross national income (GNI), three-year average of exchange rates to smooth effects of transitory exchange rate fluctuations, adjusted for the difference between the rate of inflation in the country (using the country's GDP deflator) and that of developed countries (using a weighted average of their GDP deflators in SDR terms).

¹⁷ United Nations, "Composition of macro geographical (continental) regions, geographical sub-regions, and selected economic and other groupings". Online: <http://unstats.un.org/unsd/methods/m49/m49regin.htm#least>.

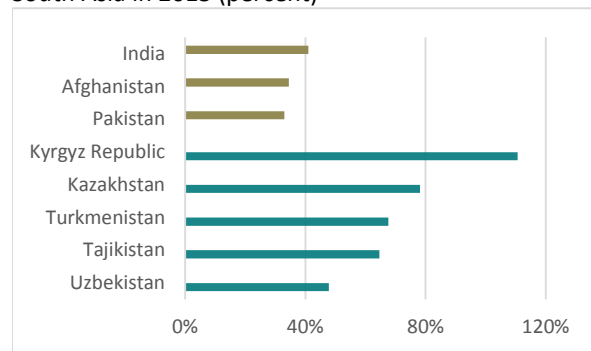
¹⁸ The neoclassical growth model is based on R. Solow (1956), "A contribution to the theory of economic growth". *Quarterly Journal of Economics* vol.70, pp-65-94 and is the basis for so-called conditional convergence, in which economies achieve similar income levels when they have similar conditions such as technologies and preferences.

convergence. The two countries with the lowest per capita incomes, Afghanistan and Tajikistan, have achieved faster growth rates than other countries in the two regions, excepting Kazakhstan and Turkmenistan. Similarly, Kyrgyzstan's economic growth has exceeded that of the relatively more developed economies of India, Pakistan and Uzbekistan. The result is an inverse relationship between per capita gross national income (GNI) and economic growth, as neoclassical growth theory would predict (Figure 2.2).

Nevertheless, size does matter. Large countries like India are at an advantage in terms of regional and global competition. India's large population, for example, draws investment from multinational corporations that are attracted to the large number of potential customers and marketing opportunities. Small countries like Turkmenistan, Kyrgyzstan and Tajikistan are mainly considered to be sources of raw material inputs and processing centers for component industries and other manufacturing activities. While attractive to investors, these countries have considerably less draw than the larger ones. Additionally, landlocked nations without seaports, like those of the Central Asian economies, face more expensive trading costs for their exports and imports than countries with access to the sea, unless they have low cost transit rights and cost-effective road transport and logistics costs. However, some countries are double-landlocked, meaning that they border landlocked countries, and therefore can face even greater difficulty in gaining access to sea freight services.

Convergence of per capita incomes through increased trade has long been recognized as a means of reducing inequality among countries. In general, trade drives economic growth by expanding access to goods, services, knowledge and technologies. The World Trade

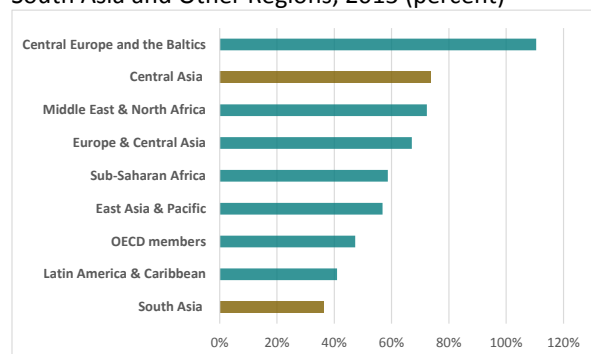
Figure 2.3: Trade as a Percent of GDP in Central and South Asia in 2013 (percent)



Source: Based on data from World Bank, World Development Indicators.

Note: Trade measured by sum of imports and exports.

Figure 2.4: Trade as a Percent of GDP in Central and South Asia and Other Regions, 2013 (percent)



Source: Based on data from World Bank, World Development Indicators.

Note: Trade measured by sum of imports and exports.

Figure 2.6: Relationship between Openness and Economic Growth in Central and South Asia (percent)



Source: Based on data from World Bank, World Development Indicators.

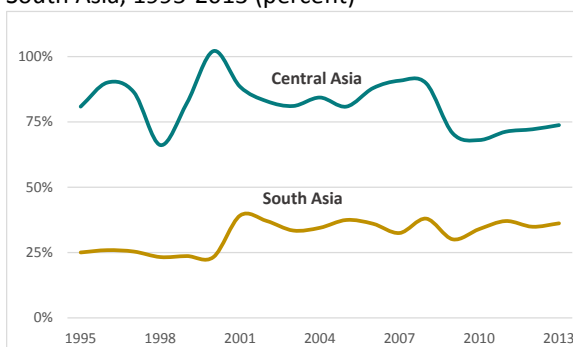
Note: Trade measured by sum of imports and exports.

Organization (WTO) has characterized this growth process as being driven by greater entrepreneurship in the private sector, private and foreign capital investments, employment creation, lower distortions of relative prices, development of competitive enterprises, and reinvestment of foreign exchange earnings.¹⁹ The greater a country's trade openness, the more these factors help boost growth, and the greater the opportunity less-developed economies have to catch up with more developed ones.

Figure 2.3 shows the relationship of trade to GDP for the Central and South Asia economies. In general the Central Asian countries are two times more open than the South Asia ones, and the most open economy (Kyrgyzstan) is over three times more open than the least open ones (Afghanistan and Pakistan). In comparison with other regions of the world, Central Asia ranks second after Central Europe and the Baltics, whereas South Asia is the least open region (Figure 2.4).

Nevertheless, over time the South Asia region has become more open, while that of Central Asia has remained about the same (Figure 2.5). However, the overall trend belies changes within the regions. In Central Asia, openness has greatly increased in the more open economies of Kyrgyzstan and Kazakhstan, but it has decreased in other countries. In fact, in Tajikistan and Turkmenistan, openness is currently only one-half of what it was two-decades ago. In Uzbekistan, the economy's relatively small openness had been gradually increasing. However, since the 2007/08 global recession it has declined sharply and it is now back to its low 1995 level. In South Asia there have also been divergent trends among the countries. Afghanistan's openness is currently only one-half its level in the early 2000s; India's openness has steadily increase and is now over twice its level two decades ago; and Pakistan's openness has remained nearly unchanged in the last 20 years.

Figure 2.5: Trade as a percent of GDP in Central and South Asia, 1995-2013 (percent)



Source: Based on data from World Bank, World Development Indicators.

Note: Trade measured by sum of imports and exports.

Openness is usually uncorrelated with a country's stage of development.²⁰ But it does appear to be correlated with economic growth (Figure 2.6). There is a wide body of empirical literature examining the relationship and often deriving conflicting results based on measurement and methodology issues.²¹ However, available evidence generally supports the positive relationship

¹⁹ World Trade Organization (WTO, 2008), "World Trade Report 2008: Trade in a Globalizing World". Geneva. Available: http://www.wto.org/english/res_e/booksp_e/anrep_e/world_trade_report08_e.pdf.

²⁰ E.E. Leamer (1988), "Measures of Openness". In R.E. Baldwin (ed.), *Trade Policy Issues and Empirical Analysis*. University of Chicago Press. Available: <http://www.nber.org/books/bald88-2>.

²¹ M. Tahir and H.N. Ali (2014), "Trade Openness and Economic Growth: A Review of the Literature". *Asian Social Science* 10(9).

between openness and economic growth. For Central and South Asia, Figure 2.6 shows that openness is, in general, positively correlated with economic growth. That observation has been supported by econometric analysis of the South Asia economies showing openness has a strong positive impact on economic growth in the region.²² For Central Asia's more open economies of Kazakhstan and Kyrgyzstan, recent evidence indicates that trade performance has mainly been explained by bilateral networking, that is, by factors such as transportation costs, regional trade agreements, and the extent to which countries are landlocked. In contrast, for the more closed economies of Tajikistan, Turkmenistan and Uzbekistan, trade performance is better explained by country-specific characteristics such as restrictive trade and economic policies.²³

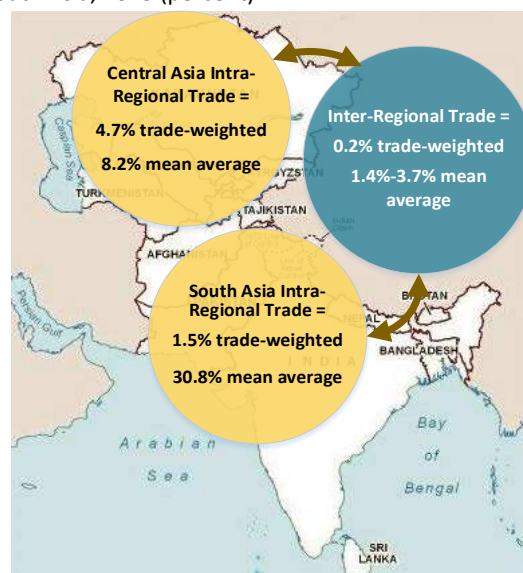
B. Regional Trade

1. Intra-Regional Trade

Within the literature on overall trade development strategy, regional trade is often advanced as a mechanism for reducing income inequalities among countries. This process is exemplified by the ASEAN economies whose significant trade openness, liberalization and regional integration has contributed to cross-country income convergence, which has allowed poorer countries to accelerate economic growth at rates high than those of the richer countries in the region.²⁴ In the case of the Central and South Asia regions, intra-regional trade is much lower than in ASEAN and most other important regions. The trade-weighted average of intra-regional trade in Central Asia is 4.7 percent, and in South Asia it is only 1.5 percent (Figure 2.7 and Table 2.1).

The regional trade-weighted average obscures the magnitude of intra-regional trade of the smaller countries. In South Asia, in particular, the average is dominated by India's low intra-regional trade share of 0.4 percent and its large volume of trade relative to other countries. In fact, Pakistan's intra-regional trade share is nearly 57 percent and that of Afghanistan is 36

Figure 2.7: Intra- and Inter-Regional Trade in Central and South Asia, 2013 (percent)



Source: Based on data from IMF, Direction of Trade (DOT) database.

²² G. Mustafa (2014), "Openness, Economic Growth, and Human Development: Evidence from South Asian countries from 1990 – 2007". Middlesex University, Department of Economics and Statistics. Available: <http://ukdataservice.ac.uk/media/263119/mustafa-poster.pdf>.

²³ M. Mazhikeyev, T.H. Edwards, and M. Rizov (2014), "Openness and Isolation: the Comparative Trade Performance of the Former Soviet Central Asian Countries". Loughborough University, School of Business and Economics. Economics Discussion Paper Series 2014 – 02.

²⁴ M. Kawai and G. Wignaraja (2014), "Trade Policy and Growth in Asia". ADBI Working Paper Series No. 495. Tokyo, Asian Development Bank Institute. Available: <http://www.adbi.org/files/2014.08.15.wp495.trade.policy.growth.asia.pdf>.

Table 2.1: Bilateral, Intra-Regional and Inter-Regional Trade (million US dollars)

| | EXPORTS | | | | | | | | | | |
|--------------|-------------|---------|----------|------------|------------|------------|------------|--------------|------------|--------------|-------------|
| | Afghanistan | India | Pakistan | South Asia | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan | Central Asia | World |
| IMPORTS | | | | | | | | | | | |
| Afghanistan | | 522.5 | 2,332.1 | 2,854.5 | 354.9 | 69.1 | 70.7 | 371.0 | - | 865.6 | 8,455.9 |
| India | 209.1 | | 373.7 | 582.8 | 435.7 | 0.6 | 0.5 | 12.7 | 35.0 | 484.6 | 467,949.9 |
| Pakistan | 186.4 | 2,472.4 | | 2,658.8 | 16.9 | 0.0 | 21.0 | 4.0 | 1.6 | 43.5 | 54,554.8 |
| South Asia | 395.5 | 2,994.9 | 2,705.8 | 6,096.2 | 807.5 | 69.7 | 92.1 | 387.8 | 36.6 | 1,393.8 | 530,960.6 |
| Kazakhstan | 0.7 | 299.0 | 23.5 | 323.2 | | 372.9 | 76.4 | 177.3 | 915.0 | 1,541.6 | 54,469.1 |
| Kyrgyzstan | 0.8 | 40.9 | 2.0 | 43.7 | 802.8 | | 9.3 | 2.8 | 218.7 | 1,033.6 | 10,684.7 |
| Tajikistan | 49.0 | 49.5 | 7.5 | 106.0 | 593.3 | 18.9 | | 116.6 | 88.3 | 817.1 | 4,946.0 |
| Turkmenistan | 1.3 | 57.7 | 1.1 | 60.1 | 180.5 | 7.3 | 2.0 | | 237.6 | 427.4 | 9,662.1 |
| Uzbekistan | - | 124.1 | 3.6 | 127.7 | 1,486.0 | 348.8 | 11.7 | 54.3 | | 1,900.8 | 14,226.0 |
| Central Asia | 51.7 | 571.2 | 37.8 | 660.7 | 3,062.5 | 747.9 | 99.3 | 351.1 | 1,459.6 | 5,720.4 | 93,988.0 |
| World | 604 | 315,127 | 26,282 | 342,013 | 62,618 | 1,130 | 935 | 11,937 | 63,308 | 139,930 | 394,647,540 |

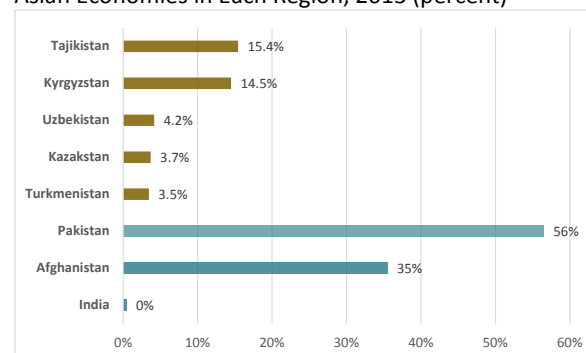
Source: IMF, Direction of Trade (DOT) database. Bilateral trade data from reported imports of each country.

percent. If instead the *mean average* of the three South Asian economies are used, the intra-regional share of South Asia is much higher (31 percent). In Central Asia, the mean average of intra-regional shares (8.2 percent) is also larger than the trade-weighted share (4.7 percent), although the difference is not as striking as for South Asia.

In comparison to other regions of the world, Central and South Asia's intra-regional trade ranks last (Figure 2.10). ASEAN's intra-regional trade share, for example, is eight times larger than the average share of the two regions.

Over time, South Asia's intra-regional trade share has risen. Between 1995 and 2013 it rose from 0.5 to 1.5 percent. This moderate gain mainly reflects India's experience because of its trade dominance in the region. Its total trade represents 98 percent of the combined trade value of the three South Asian countries, while the other two countries each contribute only 1 percent to the total. In Afghanistan, the intra-regional trade share rose from 11 to 36 percent in that period, and in Pakistan it doubled from 28 percent in 1995 to 57 percent in 2013. Although small in relation to India's total trade, Pakistan's intra-regional trade, which was about the same as India's intra-regional trade in 1995, now surpasses it by nearly 50 percent.

In Central Asia, intra-regional trade fell sharply between the mid-1990s and the mid-2000s as countries moved initially from trade dependence with Russia to intra-regional focus (1991-1996) following independence and then to international integration (1997-2005). All Central Asian countries reduced their intra-regional trade shares, but they fell more sharply in those countries

Figure 2.8: Intra-Regional Trade of Central and South Asian Economies in Each Region, 2013 (percent)

Source: Based on data from IMF, Direction of Trade (DOT) database.

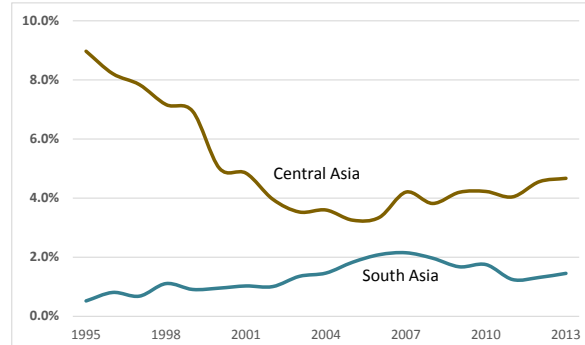
that undertook faster reforms during the transition period (Kazakhstan and Kyrgyzstan) than those in slower ones (Tajikistan, Turkmenistan and Uzbekistan). Kazakhstan, Turkmenistan and Uzbekistan reversed their downward intra-regional trends in the mid-2000s, and Kyrgyzstan's and Tajikistan's intra-regional shares began to rise around the beginning of the present decade as these two countries were more affected by the 2007 global financial crises and their interests shifted to trade with neighboring countries.

2. Inter-Regional Trade

Inter-regional trade between Central Asia and South Asia is only 0.2 percent. This figure is based on the standard measure of inter-regional trade shares, which is the trade-weighted sum of South Asia trade with Central Asia relative to the trade-weighted sum of total trade of the South and Central Asia with the world.

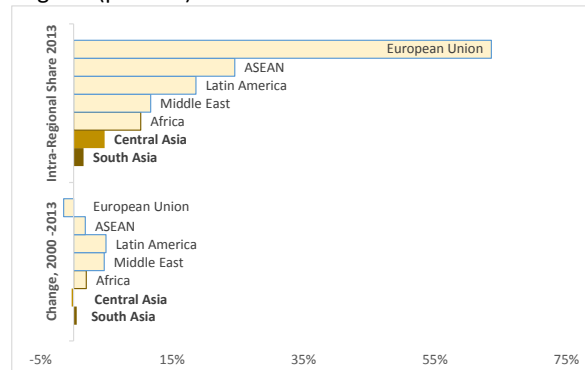
There are two other methods for calculating inter-regional trade. The first uses the *unweighted* mean average share of inter-regional trade. In this case, the inter-regional trade share is somewhat higher at 1.4 percent, although still very low relative to other regions and relative to what it would be if the trade share were the same as the region's share of world trade. The advantage of this method is that it avoids large trading country bias of the inter-regional trade average. It is also a better reflection of individual country variations, especially when the average is combined with some measure of statistical dispersion, such as variance or standard deviation. In the case of Central and South Asia, individual country inter-regional trade shares are, in some cases, much higher or lower than the simple mean average, which indicates a wide dispersion around the mean. Afghanistan in particular has an inter-regional trade share of 10 percent, relative to a mean average of 1.4 percent (Figure 2.11). Other countries with above-average inter-regional trade shares are Tajikistan (3.2 percent) and Turkmenistan (1.9 percent).

Figure 2.9: Intra-Regional Trade of Central and South Asian Economies in Each Region, 1995-2013 (percent)



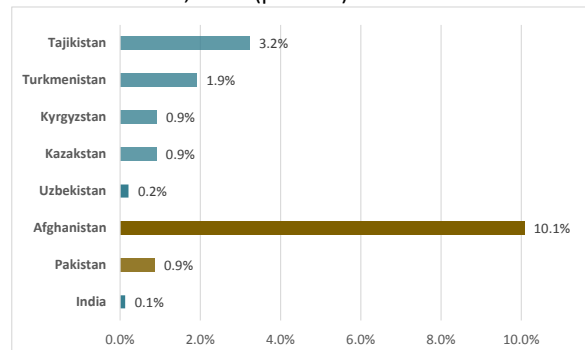
Source: Based on data from IMF, Direction of Trade (DOT) database.

Figure 2.10: Intra-Regional Trade Shares of Major Regions (percent)



Source: Based on data from IMF, Direction of Trade database.
Note: Trade measured by sum of imports and exports.

Figure 2.11: Inter-Regional Trade of Central and South Asian Economies, 2013 (percent)



Source: Based on data from IMF, Direction of Trade (DOT) database.

percent). Countries with the lowest shares of inter-regional trade are India (0.1 percent) and Uzbekistan (0.2 percent).

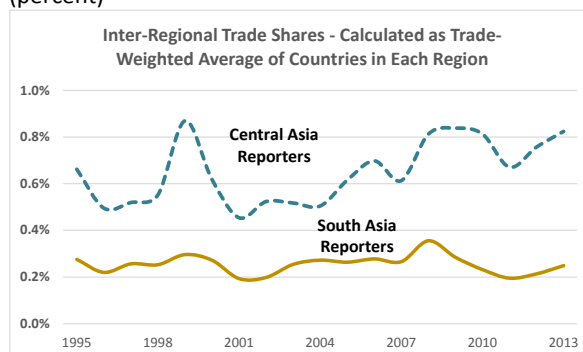
A second way to calculate inter-regional trade is to use Central Asia's reported inter-regional trade with South Asia. In the previous calculation we used the reported total trade by the South Asian countries. If we instead used the Central Asian countries' reported trade, the unweighted mean average of inter-regional trade is 3.7 percent rather than 1.4 percent. The reason for this discrepancy is that reported trade often differs substantially between trading partners. For example, based on the IMF's Direction of Trade Statistics, Afghanistan's total trade with Kazakhstan in 2013 was reported as US\$355.5 million. In contrast, Kazakhstan's total trade with Afghanistan in 2013 was reported as US\$323.2 million, a 10 percent difference with the value reported by Afghanistan. As a result, the inter-regional trade shares reported by Central Asian countries often differ significantly from those reported by South Asian countries.

Differences in the way to calculate inter-regional trade shares over time are shown in Figures 2.12 and 2.13. For the trade-weighted calculations of inter-regional trade shares, Figure 2.12 shows an upward trend in those shares in recent years, as reported by the Central Asia economies, and a generally unchanged trend and somewhat lower shares reported by South Asia economies. For the South Asia reporters, the shares reflect India's dominance in trade and that country's generally unchanged share of trade with Central Asia in the last two decades.

In contrast, Afghanistan's share of Central Asian trade has varied considerably, first rising in the 1990s, then contracting in the early 2000s, expanding again in the second half of the 2000s, and remaining fairly unchanged in the first part of this decade. Pakistan had relatively high inter-regional trade shares with Central Asia in the second half of the 1990s, but since the early 2000s those shares have eroded over time.

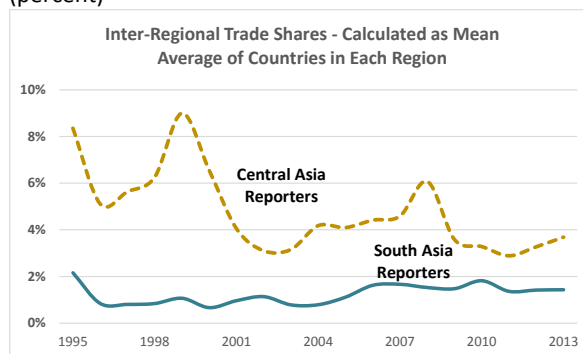
For the Central Asia reporters, there have also been divergent trends. Kazakhstan and Tajikistan's inter-regional trade shares have risen, while shares of the other countries in the region have either remained unchanged or eroded modestly. Those differences are better reflected in the unweighted trade averages of the inter-regional trade shares reported by the Central Asia economies and those reported by the South Asia economies (Figure 2.13).

Figure 2.12: Trade-Weighted Inter-Regional Trade Share of Central and South Asian Economies, 1995-2013 (percent)



Source: Based on data from IMF, Direction of Trade (DOT) database.

Figure 2.13: Mean Average Inter-Regional Trade Share of Central and South Asian Economies, 1995-2013 (percent)



Source: Based on data from IMF, Direction of Trade (DOT) database.

Box 2.1. Measuring Integration and Openness

Total trade is the sum of the value of exports and imports.

Trade growth is the percentage change in the value of total trade relative to the previous year.

Intra-regional trade share is the percentage of intra-regional trade to total trade of the region, calculated using total trade data. A higher share indicates a higher degree of dependency on regional trade. It is calculated as the percentage of intra-regional trade to total trade of the region:

$$T_{ii}/T_i \quad (2.1)$$

where T_{ii} is exports of region i to region i plus imports of region i from region i and T_i is total exports of region i to the world plus total imports of region i from the world.

Intra-regional trade intensity index is the ratio of intra-regional trade share to the share of world trade with the region. It indicates whether trade within the region is greater or smaller than would be expected on the basis of the region's importance in world trade. An index of more than one indicates that trade flows within the region are larger than expected, given the importance of the region in world trade. It is computed as:

$$(T_{ii}/T_i)/(T_i/T_w) \quad (2.2)$$

where T_{ii} is exports of region i to region i plus imports of region i from region i ; T_i is total exports of region i to the world plus total imports of region i from the world; and T_w is total world exports plus imports.

Inter-regional trade intensity index is the ratio of a trading partner's share to another region's total trade and the share of world trade with the same trading partner. An index of more than one indicates that trade flows between countries/regions are larger than expected given their importance in world trade. It is calculated as:

$$(T_{ij}/T_{iw})/(T_{wj}/T_{ww}) \quad (2.3)$$

where T_{ij} is the dollar value of total trade of country or region i with region j , T_{iw} is the dollar value of the total trade of country or region i with the world, T_{wj} is the dollar value of world trade with region j , and T_{ww} is the dollar value of world trade.

Trade openness is measured by total trade of an economy expressed as a percentage of nominal Gross Domestic Product (GDP) in dollar terms. A higher value indicates a more open economy. It is calculated as:

$$T_i/Y_i \quad (2.4)$$

where T_i is total exports of country i to the world plus total imports of country i from the world, and Y_i is GDP of country i . The term 'trade openness' can be misleading since low ratios do not necessarily imply high trade barriers, but can be associated with factors such as country size and geographic remoteness from potential trading partners.

C. Measuring Trade

There are several possible sources of error from the trade statistics of Central and South Asia. Two set of them are associate with formal trade statistics from the trade databased used in this study, namely, the IMF's Direction of Trade (DOT) database used in this chapter, and the United Nations' Commodity Trade Statistics Database (COMTRADE) used in the analytical chapters in Parts II and III of this study. The other is the large volume and variability of informal trade in the two regions.

1. Direction of Trade Statistics

The Direction of Trade (DOT) database contains data on the value of merchandise exports and imports between each country and all its trading partners. Total bilateral and multilateral exports and imports are aggregated at national or regional group level. All exports are valued free on board (f.o.b.). Imports are usually reported cost including insurance and freight (c.i.f.), although a small number of countries report imports as f.o.b. All trade data are expressed in U.S. dollars.

In Central and South Asia there are often inconsistencies between exports to a partner and the partner's recorded imports from a particular country. Among the reasons for these differences are ways that countries report their trade, for example, differences in classification concepts and detail, time of recording, valuation, and coverage, as well as processing errors. As shown in the previous section, differences between reported exports in one country's trade with another country's reported imports from that country can be large. Caution must therefore be used in assigning excessively precise measures to the results of the analysis.

2. Commodity Trade Statistics Database

The United Nations Statistics Division compiles original statistics from individual countries and makes secondary statistics easily accessible through COMTRADE. Those original statistics are often in different Harmonized System (HS) classifications that are converted into a common classification based on correlation tables. Differences between original and compiled trade statistics are generally modest.²⁵ A common source of discrepancy is the use imports from one country combined with bilateral imports from another country, which are often used as a means of obtaining more accurate estimates since importer statistics are usually more accurate than

Table 2.2. Availability of COMTRADE data in Central and South Asian countries

| | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|--------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Afghanistan | | | | | | | | | | | | | | | | | | | |
| India | | | | | | | | | | | | | | | | | | | |
| Pakistan | | | | | | | | | | | | | | | | | | | |
| Kazakhstan | | | | | | | | | | | | | | | | | | | |
| Kyrgyzstan | | | | | | | | | | | | | | | | | | | |
| Tajikistan | | | | | | | | | | | | | | | | | | | |
| Turkmenistan | | | | | | | | | | | | | | | | | | | |
| Uzbekistan | | | | | | | | | | | | | | | | | | | |

Source: Derived from information in COMTRADE database.

²⁵ D. Yu (2008), "The Harmonized System .Amendments and their Impact on WTO members' schedules". WTO Staff Working Paper ERSD-2998-02. Available: http://www.wto.org/english/res_e/reser_e/ersd200802_e.pdf.

exporter statistics. Since data from the two countries were originally compiled in different HS classifications, there is a real possibility of introducing inaccuracies, especially when unit prices are derived from the value and volume information reported in COMTRADE.²⁶

This situation is particularly important for Central and South Asia trade because the lack of trade data for some countries often requires that 'mirror trade data' be used (see Tables 2.2 and 2.3). Possible discrepancies can then arise between actual (unreported) exports or imports in one country and the mirror-trade of its partner trading countries for any or all of the following reasons: (a) use of different national HS trade systems; (b) differences in quantity measures because some countries report gross weights and others report net weights; (c) time lags that give rise to discrepancies if exports are registered in one year and the corresponding imports in the following year; (d) transportation and insurance costs are included in the reported import value (CIF: Cost Insurance Freight) but are excluded from the reported export value (FOB: Free On Board); and (e) the existence of re-exports or transit trade, which may be taken into account by some countries, but not by others since the United Nations recommends that import statistics be compiled by country of origin, export statistics be compiled by last known destination, and goods in transit be excluded from trade statistics. But exporting countries do not always know the final destination of the product, and the country of origin may not be either the country that has re-exported the product or the country where the product has transited.

Table 2.3. Use of Reporter versus Mirror Trade data in Central and South Asian countries

| | | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan |
|--------------|----------|-----------------|----------------------|-----------------|----------------------|----------------------|-----------------|-----------------|-----------------|
| Afghanistan | Reporter | | 2008-2013 | 2008-2013 | 2008-2013 | 2008-2013 | 2008-2013 | 2008-2013 | 2008-2013 |
| | Mirror | | 1995-2007 | 2003-2007 | 1995-2007 | 1995, 2000-2007 | 2000 | 1997-2000 | |
| India | Reporter | 1995-2013 | | 1995-2013 | 1995-2013 | 1995-2013 | 1995-2013 | 1995-2013 | 1995-2013 |
| | Mirror | | | | | | | | |
| Pakistan | Reporter | 2003-2013 | 2003-2013 | | 2003-2013 | 2003-2013 | 2003-2013 | 2003-2013 | 2003-2013 |
| | Mirror | | 1995-2002 | | 1995-2002 | 1995, 2000-2002 | 2000 | 1997-2000 | |
| Kazakhstan | Reporter | 1995-2013 | 1995-2013 | 1995-2013 | | 1995-2013 | 1995-2013 | 1995-2013 | 1995-2013 |
| | Mirror | | | | | | | | |
| Kyrgyzstan | Reporter | 1995, 2000-2013 | 1995, 2000-2013 | 1995, 2000-2013 | 1995, 2000-2013 | | 1995, 2000-2013 | 1995, 2000-2013 | 1995, 2000-2013 |
| | Mirror | | 1996-1999 | | 1996-1999 | | | 1997-1999 | |
| Tajikistan | Reporter | 2000 | 2000 | 2000 | 2000 | 2000 | | 2000 | 2000 |
| | Mirror | 2008-2013 | 1995-1999, 2001-2013 | 2003-2013 | | 1995-1999, 2001-2013 | | 1996-1999 | |
| Turkmenistan | Reporter | 1997-2000 | 1997-2000 | 1997-2000 | 1997-2000 | 1997-2000 | 1997-2000 | | 1997-2000 |
| | Mirror | | 1995-1996, 2001-2013 | 2003-2013 | 1995-1996, 2001-2013 | 2001-2013 | | | |
| Uzbekistan | Reporter | | | | | | | | |
| | Mirror | 2008-2013 | 1995-2013 | 2003-2013 | 1995-2013 | 2000-2013 | 2000 | 1997-2000 | |

Source: Derived from information in COMTRADE database.

²⁶ M. Kumakura (2009) "A note on using Comtrade for empirical trade research", Economics Bulletin, Vol. 29 no.2 pp. 1330-1344. Available: <https://ideas.repec.org/a/ebl/ecbull/eb-09-00256.html>.

3. Informal Trade

Difference in reported imports by one country and the so-called mirror exports of a trading partner can arise because of the large volume of informal trade that exists in both of the regions covered by this study. For the Central Asia region, a recent survey found that informal trade is significant in nearly all major import categories, but with important differences across countries.²⁷ Smuggling of household electronics represents 90 percent of imports in Kazakhstan, 75 percent in Uzbekistan, and 25 to 30 percent in Tajikistan and Turkmenistan. Smuggling can, however, take various forms, ranging from products imported in illegal or semi-illegal ways, or under- or over-invoicing of imports and exports. For other categories, smuggling of food products ranges from 10 percent in Turkmenistan to 80 percent in Uzbekistan; cars from 5-15 percent (Kazakhstan) to 90 percent (Uzbekistan); and alcohol and cigarettes from 15-20% (Turkmenistan) to 90 percent (Uzbekistan).

The largest component of informal trade in Central Asia is Chinese imports of consumer goods, including textiles and footwear, which are either consumed domestically or re-exported to neighboring countries. Kazakhstan, Kyrgyzstan and Tajikistan apply low duties to imports of these goods by physical persons, and large volumes of re-exports take place from Kyrgyzstan and Tajikistan, destined for Kazakhstan, Uzbekistan and Afghanistan. There is also a growing trend towards imports of Chinese textiles and machinery by Kyrgyzstan for production of garments, which have become the third largest export product of that country after gold and radioactive elements.²⁸ While re-exports are large in Kyrgyzstan, estimated at over 2.5 times the value of official exports, they are also significant in Tajikistan and have been estimated at about 50 percent of the value of official exports.²⁹ The value of informal trade has, however, varied widely from year to year across the Central Asian economies, largely responding to changes in the real cross-exchange rates between neighboring countries in the region. Despite these differences in the size of informal trade in the Central Asian economies, the overall size of the informal sector is quite similar in Kazakhstan and Tajikistan (33 percent of GDP), while that of Kyrgyzstan is somewhat lower at 26 percent of GDP.³⁰

There is less of a common motivation in South Asia than in Central Asia for Chinese importation and re-exportation of consumer goods. In Afghan-Pakistani relations, official bilateral trade has declined because of increased informal trade between the two countries.³¹ One of the reasons

²⁷ Norwegian Institute of International Affairs (NUPI) and the OSCE Academy (2013), "Tariffs and formal and informal trade barriers in Central Asia". Central Asia Regional Data Review. Available: <http://www.osce-academy.net/upload/file/CADGAT10.pdf>.

²⁸ R. Mogilevskii (2012), "Trends and Patterns in Foreign Trade of Central Asian Countries". Working Paper No. 1. University of Central Asia, Graduate School of Development, Institute of Public Policy and Administration. Available: <http://www.ucentralasia.org/downloads/UCA-Trends&PatternsForeignTradeCA-Eng-May2012.pdf>.

²⁹ Ibid.

³⁰ Y. Abdi and L. Medina (2013), "Measuring the Informal Economy in the Caucasus and Central Asia". Washington, DC. International Monetary Fund, IMF Working Paper WP/13/137. Available: <http://www.imf.org/external/pubs/ft/wp/2013/wp13137.pdf>.

³¹ The Economist Intelligence Unit (2014), "Poor outlook for Pakistan-Afghanistan bilateral trade". 24 April 2014. Online: <http://country.eiu.com/article.aspx?articleid=1771757161&Country=Afghanistan&topic=Economy>.

cited for the increase in smuggling is the requirement on the part of Pakistan that, effective 17 March 2014, all cross-border transactions must be in convertible currencies, namely, U.S. dollars rather than local currency.³² In the case of India's relations with Pakistan, formal trade has been limited because of tensions between the two countries. But there is nevertheless widespread informal trade in textiles, automobiles, jewelry, and other items.³³ Estimates of the volume of informal trade are dated. However, the channels of informal trade remain unchanged: most of it occurs from Mumbai in India to Karachi in Pakistan via Dubai in the United Arab Emirates (UAE); and roughly half of that trade is channel through Bandar Abbas in Iran and then moved further via land across Afghanistan, to finally reach Pakistan. Since 2011 there have been significant developments in Pakistan–India trade relations, as both countries have made considerable efforts to remove some of the key barriers impeding bilateral trade.³⁴ But tensions between the two countries continue to undermine normalization of trade relations.³⁵

³² R.K. Daudzai (2014), "Tricks of the Pak-Afghan trade". (23 March 2014). Online: <http://tns.thenews.com.pk/tricks-pak-afghan-trade/#.VHmisTGUfpo>.

³³ S.A. Ramay and M.H. Abbas, "South Asian Free Trade Agreement (SAFTA) and Implications for Pakistan". Working Paper 138. Islamabad, Sustainable Development Policy Institute (SDPI). Available: http://www.sdpi.org/publications/files/SOUTH_ASIAN_FREE_TRADE_AGREEMENT_%28SAFTA%29_AND_IMPLICATIONS_FOR_PAKISTAN_%28W%20-%20138%29.pdf.

³⁴ In April 2011, the two countries announced a roadmap to boost trade relations. A year later (April 2012), the trade gate at the Wagah–Attari border was formally opened and India announced that it would allow direct Pakistani investment in India. While India promised to resolve the issue of non-tariff barriers (NTBs) that constrain Pakistani exports to its neighbor, Pakistan offered to grant most favored nation (MFN) status to India. Pakistan also relaxed constraints on Indian imports by switching to a 'negative list' approach to import controls. For a detailed historical review of India-Pakistan bilateral trade, see N. Taneja (2013), "Normalizing India Pakistan Trade". India Council for Research on International Economic Relations. Available: http://www.icrier.org/pdf/working_paper_267.pdf.

³⁵ In late November 2014 Pakistan declined to sign three multilateral pacts with the eight members of the South Asian Association for Regional Cooperation (SAARC) because of killings along the border in disputed Kashmir. See G. Sharma and F.J. Daniel (2014), "India-Pakistan friction threatens South Asia trade at SAARC summit". Reuters, 26 November 2014. Available: <http://in.reuters.com/article/2014/11/26/nepal-summit-idINKCN0J928N20141126>.

III. RANKING OPPORTUNITIES

A. Introduction

The overall objective of the present study is to investigate channels through which Central and South Asia's intra- and inter-regional trade could be increased. Different channels can, however, impact different sectors and groups more favorably than others. Certain interest groups may, for example, favor socio-economic development in the regions, that is, pro-poor trade mechanisms that reduce poverty and generally improve overall welfare in the countries; alternatively, multinational enterprises and other types of large enterprise groups could favor mechanisms that increase fragmentation of large scale production across borders based on purely commercial interests. It is therefore inappropriate to simply average trade compatibility and policy instrument ratings since simple averages are unlikely to take into account stakeholder group preferences. A weighted sum would be better, but there are many ways to weigh a series and the method selected needs to be justified.

In this chapter we develop the steps involved in constructing aggregates of trade compatibility channels and policy and program instruments for purposes of comparing and ranking countries in the regions. Without detailed the technical concepts, which are described later, the steps consist of the following:

1. Determine ratings of each trade-enhancing mechanism for the countries, based on structured analysis containing a Likert Scale of 1 to 5.
2. Aggregate the scores of the trade-enhancing mechanism for each country using a Cobb-Douglas function to represent the utility function for preference ordering of different stakeholder groups.
3. Assign weights to the parameters of the utility function for each stakeholder group that reflects their preference ordering.
4. Calculate the overall ratings and interpret results of trade-enhancing mechanisms for different stakeholder groups.

B. Evaluation Method

The first step in ranking regional trade opportunities is to establish a common scoring system so that factors affecting regional trade can be compared across countries and regions. The scoring system is applied at three levels:

- *Across factors affecting regional trade* in order to determine the extent to which competitiveness, product diversity, and trade complementarities can support greater intra- and inter-regional trade.
- *Across trade-related instruments* in order to assess the extent to which policies, programs and institutional mechanisms can be used to favorably influence the magnitude of intra- and inter-regional trade.

- *Across countries* in order to establish the capacity of Central and South Asia economies to use trade-related policies, programs and institutional mechanisms as a means of enhancing intra- and inter-regional trade.

(a) Conduct Structured Analysis

Design and carry out analysis of factors that can favorably impact regional trade using an ordered sequence for trade compatibility and policy and program instruments for each country in the region.

Scoring: For each trade compatibility and instrument measure, we use a so-called Likert Scale to measure the degree of agreement about a set of statements. In this type of evaluation, an ordinal scale is used to grade the degree to which the analysis reflects a statement.³⁶ The typical numerical values and associated levels of agreement are as follows:

- 1 – Strongly discourages
- 2 – Discourages
- 3 – Neither supports nor discourages
- 4 – Supports
- 5 – Strongly supports

An example of a Likert Scale evaluation that assesses selected trade-related policy instruments across countries in the regions is presented in Figure 3.1:

Figure 3.1. Hypothetical Example of Trade-Related Policies in Central and South Asian countries³⁷

| | | Strongly Discourages | Discourages | Neither | Supports | Strongly Supports |
|---|--------------|----------------------|-------------|---------|----------|-------------------|
| A. Trade Policy Reform Effectiveness in Expanding Regional Trade by Lowering Trade Costs | | | | | | |
| 1 | Kazakhstan | 1 | 2 | 3 | 4 | 5 |
| 2 | Kyrgyzstan | 1 | 2 | 3 | 4 | 5 |
| 3 | Tajikistan | 1 | 2 | 3 | 4 | 5 |
| 4 | Turkmenistan | 1 | 2 | 3 | 4 | 5 |
| 5 | Uzbekistan | 1 | 2 | 3 | 4 | 5 |
| 6 | Afghanistan | 1 | 2 | 3 | 4 | 5 |
| 7 | India | 1 | 2 | 3 | 4 | 5 |
| 8 | Pakistan | 1 | 2 | 3 | 4 | 5 |

Note: The interpretation of the scores in this example is as follows: a score of 5 for Kazakhstan means that lower trade costs would strongly support trade reforms; a score of 4 for Tajikistan means that lower trade costs would support trade reforms; a score of 3 for Uzbekistan means that lower trade costs would have a neutral effect on trade; a score of 2 in Kyrgyzstan and Afghanistan would mean that lower trade costs would have a disincentive on trade; and a score of 1 for Turkmenistan, India and Pakistan means that lower trade costs would have a very large disincentive on trade.

³⁶ An ordinal scale is a sequence of ordered numbers that does not necessarily have equal differences in attributes between numbers. In structured evaluations, their use implies that the segments between response values are not necessarily the same. Therefore the difference in agreement between a 4 and 5 is not necessarily the same as that between a 3 and 4 on the rating scale.

³⁷ The scores used in this example do not reflect the actual scores in the study. They are constructed in the present example in such a way as to illustrate different distributions around the mean, median and mode.

| B. Real Exchange Rate Policy Effectiveness in Expanding Regional Trade by Lowering Cost of Imports and Increasing Export Competitiveness | | | | | | |
|--|--------------|---|---|---|---|---|
| 1 | Kazakhstan | 1 | 2 | 3 | 4 | 5 |
| 2 | Kyrgyzstan | 1 | 2 | 3 | 4 | 5 |
| 3 | Tajikistan | 1 | 2 | 3 | 4 | 5 |
| 4 | Turkmenistan | 1 | 2 | 3 | 4 | 5 |
| 5 | Uzbekistan | 1 | 2 | 3 | 4 | 5 |
| 6 | Afghanistan | 1 | 2 | 3 | 4 | 5 |
| 7 | India | 1 | 2 | 3 | 4 | 5 |
| 8 | Pakistan | 1 | 2 | 3 | 4 | 5 |

Similarly structured evaluations apply to the other policy and program instruments, for example, multilateral, regional and bilateral preferential trade arrangements covering both broad spectrums of issues and specific sector or trade rules that lower trade barriers and promote trade.

(b) Summarizing Overall Ratings

Summary scores that provide averages of the results for countries, instruments and trade compatibility indicators are based on mean, median, mode and range that measure their central tendency. Although the mean is commonly used to describe an average, it is in fact only appropriate when the data is continuous and symmetrical in its distribution. For ordinal data like the ranking one used here, the most appropriate average is the median because the distribution of the data is not perfectly symmetrical around the mean, that is, it is skewed.³⁸ Information about the distribution is essential because it is important to know whether the average score for the trade-enhancing factor is representative of the individual scores for the elements that characterize it.³⁹

Figure 3.2. Summary Statistics of Example of Trade-Related Policies in Central and South Asian countries

| | Mean | Median | Mode | Range |
|--|------|--------|------|-------|
| Trade Policy Reform Effectiveness in Expanding Regional Trade by Lowering Trading Costs | 2.4 | 2 | 1 | 4 |
| Real Exchange Rate Policy Effectiveness in Expanding Regional Trade by Lowering Cost of Imports and Increasing Export Competitiveness | 3.6 | 4 | 5 | 4 |

³⁸ AERD Statistics (2013), “Measures of Central Tendency”. Online. Available at <https://statistics.laerd.com/statistical-guides/measures-central-tendency-mean-mode-median.php>.

³⁹ When the values of mean, median and mode are the same (i.e. mean = median = mode), the data has a symmetrical distribution. Conversely, when values of mean, median and mode are not equal, the distribution is known to have an asymmetrical or skewed distribution.

The averages presented Figure 3.2 are based on information contained in Figure 3.1. The distribution of the country performances in each of the policy and program instruments is different from the other:⁴⁰

- For trade policy reforms that lower trading costs, the mean is greater than the median and the mode (mean > median > mode), which indicates that the country performances are ‘skewed to the right’ of their central tendency. Another way to explain this characteristic is to say that the distribution of country performances around the peak has a longer tail to the right than it does on the left.
- For exchange rate policies impacting competitiveness, the mean is smaller than the median and the median is smaller than the mode (mean < median < mode), which suggests that the country performances are ‘skewed to the left’ of the central tendency of the responses. The distribution of the responses has a longer tail to the left.

The most appropriate average of scores for trade compatibility and policy instruments is therefore the median because it is less skewed to the right than the mean for the distribution of country performances having a long tail to the right, and less skewed to the left than the mean of those having a long tail to the left.

C. Ranking Methodology

The decision-making framework for ranking various mechanisms favoring intra- and inter-regional trade in Central and South Asia should be sound from an economic point of view. In this study, we adopt a theoretical and empirical method for aggregating ratings that is based on stakeholders’ preferences and the utility functions that represent those preferences.

The specification of that relationship is explained in Box 3.1 and illustrated in Box 3.2. An intuitive explanation of the aggregation process for scoring regional trade-enhancing mechanisms is exemplified by three groups of stakeholders with different preference orderings for the enhancement of trade within and between the Central and South Asia regions:

- *Stakeholder Group A: Neutral preferences among trade compatibility channels and policy and program instruments.* In this case, the stakeholder group does not have to be compensated for changes in the amount of one regional trade enhancing mechanism by another.⁴¹
- *Stakeholder Group B: Commercially oriented preferences in trade compatibility channels and policy and program instruments:* This stakeholder group prefers to develop those regional trade enhancing mechanisms that support purely large-scale commercial interests within and between the regions. In that case, for the group’s utility function (equation 3.3 in Box 3.1), the parameter values have assigned values that are higher for

⁴⁰ There are some exceptions to the characterizations of the distribution when the mean, median and mode differ.

⁴¹ In Box 3.1, for the relationship described by equation (3.3), all the parameters (α , β , ... ω) of this group’s utility function have equal values, whose sum equals unity.

intra- and inter-regional fragmentation, as well as FTAs and other policy and program instruments that facilitate and promote regional traded.

- *Stakeholder Group C: Pro-poor trade preferences in trade compatibility channels and policy and program instruments:* This stakeholder group prefers to develop those regional trade enhancing mechanisms that reduces poverty and support the socio-economic well-being of the population employed in the tradables sector. The stakeholder group could, for example, represent development partners and non-government organizations (NGOs) with a mandate to reduce poverty and promote socio-economic development. In this case, the weighting structure of the parameters in equation (3.3) of Box 3.1 becomes more complex. The reason is that there are two channels through which welfare improvements occur: (a) through *meso-policies* aimed at expanding expenditures on trade-related socio-economic programs, which are direct welfare improving mechanisms that can have an immediate or long-term impact on the local population; and (b) through *pro-poor growth policies* that can take the form of (i) *structural adjustment policies and programs* to ensure that finance reaches small enterprises, or that liberalization of cross-border trade reduces trading costs; and (ii) *regional growth policies* to make agriculture and labor intensive manufacturing more competitive, promote value chains and improve investment incentives. These pro-poor policies generate welfare improvements through indirect channels that improve economic growth in the regions, which in turn expands employment and incomes, SME business opportunities, and general living conditions of the local population.

In this study we will use these three preference orderings to aggregate the results of the analysis covering trade compatibility channels and trade-related policy and program instruments in each of the Central and South Asian countries.

Box 3.1. Preference Ordering of Stakeholders

The preference ordering of a group of representative stakeholders (for example, Central and South Asia governments, international development partners, multinationals, small businesses, the population in the tradables sector) can be represented by a *utility function* that takes the following form:

$$U(X_1, \dots, X_n) \quad (3.1)$$

where U represents utility, X is the group of trade compatibility and policy instrument indicators numbered from 1 to n . For example, X_1 can represent the inter-regional trade gain obtained from PTAs; X_2 the gain obtained from improved competitiveness associated with exchange rate policies; and so forth.

Utility is an abstract measure of benefits obtained from a stakeholder group. Since it cannot be measured directly, it is inferred by ‘revealed preferences’ that are observed by the compensation that needs to be offered to the stakeholder for substituting one trade-enhancing factor for another. We can represent the rate of substitution between two factors in such a way that the stakeholder is indifferent between the two as long as he or she is compensated by an amount d for the difference between X_1 and X_2 :

$$X_1 = d_2 X_2 \quad (3.2)$$

If substitution among factors takes place in the form of a *Cobb-Douglas utility function*, then the utility (or benefits) derived from the trade-enhancing factors by a particular stakeholder group can be measured according to the following preference ordering:

$$U(X_1, \dots, X_n) = X_1^\alpha X_2^\beta \dots X_n^\omega \quad (3.3)$$

The values of the parameters are such that $\alpha + \beta + \dots + \omega = 1$, that is, the sum of all the parameters equals unity.

Box 3.2. Illustration of Stakeholder Preference Ordering

The relationship in equation (3.3) of Box 3.1 describes an *indifference curve* for a stakeholder because it expresses equal levels of gains for the stakeholder from various combinations of the trade-enhancing factors. In other words, there is not a single ‘optimal’ value of a factor such as exchange rate policies within countries. Instead, when forming part of a package of regional trade enhancing channels, policy and program incentives can be different, as long as they are *compensated* by changing the values of other instruments. Therefore, various combinations of trade-enhancing channels can form a trade-related program as long as they provide a stakeholder with the same value of overall gains from the program.

For example, consider a program with only two instruments having values of 3.5 and 4.5 respectively. Let $\alpha = 0.4$ and $\beta = (1-\alpha) = 0.6$. Then the indifference curve is represented as follows:

$$U(X_1, X_2) = 3.5^{0.4} * 4.5^{0.6} = 4.1 \quad (3.4)$$

The gains of the program for the stakeholder group is equal to 4.1 on an overall rating scale ranging from 1 to 5. The stakeholder group is indifferent between how much of the benefits X_1 it receives, as long as the group is compensated for any changes in its size by variations in the amount that X_2 receives, so that the stakeholder group’s total benefits equal 4.1 for all combinations of X_1 and X_2 .

Since the parameters $\alpha, \beta, \dots, \omega$ represent the weights of the corresponding trade-enhancing factors preferred by any particular stakeholder group, we can use equation (3.3) to calculate the overall results of the instrument values derived from the analysis of regional trade-enhancing channels by assigning values to those parameters that would best characterize their choices.

PART II. INDICATORS OF REGIONAL TRADE EXPANSION OPPORTUNITIES

IV. EXPORT DIVERSIFICATION

A. Traded Products

1. Top Traded Products

Major exports of each Central and South Asia country are shown in Table 4.1. More detailed information is presented in the Statistical Appendix at two levels: (a) the top exports of each country to each intra-regional and inter-regional trading partner; and (b) the top exports of each country to all intra- and inter-regional trading partners. In all cases, the products are shown at the 6-digit level of the Harmonized System (HS) and the values represent the annual average U.S. dollar value of exports in 2010-2013.

The information on the left-hand-side of Table 4.1 shows exports of each country to all destinations. Observations about exports to all destinations suggest the universe of products that are either currently directed towards intra-regional and inter-regional trade or those that could potentially be directed at regional markets in the short to medium term.

Information on the right-hand-side of Table 4.1 shows the top exports to the Central and South Asia regional markets. The following observations are noteworthy about the product trade patterns:

- Afghanistan's top five exports are almost entirely directed at the Central and South Asia markets and half of its top 10 exports to those two regions are edible fruits and vegetables. The other important products directed at the two regions are either industrial or agricultural raw materials, namely, cotton, ferrous scrap, coal, and gums and resin. Of these, cotton, ferrous scrap, and coal are mainly destined to Pakistan, while gums and resins are shipped to India. In contrast, fruits and vegetables are exported to nearly all countries in the two regions.
- Most of India's and Pakistan's top product exports to Central and South Asia are not among its top product exports to the world market. India's top exports to the Central and South Asia regions consist of cotton, soybean meal, pharmaceutical products, sugar, fruits and vegetables, and p-Xylene (used in the production of plastic bottles and polyester clothing). Those of Pakistan are made up of petroleum oils and oils obtained from bituminous minerals (not crude), cement, and agricultural products.
- In Central Asia, different types of mineral fuels and products are leading regional export products of all the countries. Petroleum oils and oils obtained from bituminous minerals (not crude) are major regional exports of Tajikistan, Turkmenistan and Uzbekistan, while crude petroleum is the leading regional and worldwide export of Kazakhstan. In Kyrgyzstan, electricity is the leading export.
- Kazakhstan's other major regional exports consist of wheat and wheat flour, asbestos, and different types of mineral ores and fuels (zinc, ferrous waste, coal, petroleum and its products, and liquefied propane).

- Apart from electricity, Kyrgyzstan's main regional exports are made up of gold and other precious metals, refined petroleum, delivery trucks and vehicle parts, dairy products, fruits and vegetables, cement, precious metals, rubber tires, and float glass.
- Tajikistan's major regional exports are fruits, vegetables, wheat and cotton; aluminum; lead and zinc ores; footwear; and refined petroleum (to Afghanistan). Hydroelectric power is also growing in importance and Tajikistan is part of a Central Asia South Asia (CASA) Electricity Transmission and Trade Project that will transmit 1000 MW of surplus electricity from Tajikistan to Pakistan with power transit through Afghanistan.⁴²
- Turkmenistan's regional exports are dominated by petroleum and gas (see next section). Its other leading regional export is cotton, which is directed to India and Pakistan, followed by a variety of agricultural and industrial raw materials and components.
- Uzbekistan's regional exports are also dominated by petroleum and gas. Its other leading regional exports are in the form of fruits and vegetables, cement, fertilizers, hides and skins, silk and cotton.

2. Trans-Afghanistan Gas Pipeline

The Turkmenistan–Afghanistan–Pakistan–India Pipeline (TAP or TAPI) is a natural gas pipeline being developed by the Asian Development Bank. It aims to become one of the major distribution channels for Turkmenistan's Galkynysh gas field, which has the second-largest volume of gas in the world, with reserves estimated at around 21 trillion cubic meters. The TAP is expected to be completed by 2017 or later and it will transport Caspian Sea natural gas from Turkmenistan through Afghanistan into Pakistan and then to India. The cost of the pipeline project is estimated at US\$10 billion.⁴³ The initial framework agreement was signed in 2008 by Pakistan, India and Afghanistan in order to buy natural gas from Turkmenistan, and the intergovernmental agreement on the pipeline was signed in 2010. In May 2012 the Afghan parliament and Indian cabinet each approved the pipeline agreement, which included the transit fees on the pipeline segments passing through Afghanistan and Pakistan. Afghanistan will have the right to use 600 million to 5 billion cubic meters of gas per annum, and to earn about US\$400 million per year in transit fees.⁴⁴ Another distribution route for Turkmenistan natural gas is through Uzbekistan and Kazakhstan to China, which will become the second largest buyer of gas from Turkmenistan, following Russia.

⁴² World Bank (2014), "CASA-1000: Central Asia South Asia Electricity Transmission and Trade Project Regional Environmental Assessment". Washington, DC. Available: http://www-wds.worldbank.org/external/default/WDSPContentServer/WDSP/IB/2014/04/02/000442464_20140402113144/Rendered/INDEX/E43510V30P14500Box385175B00PUBLIC0.txt.

⁴³ D.J. Graeber (2014), "Kazakhstan keen on TAPI gas pipeline". United Press International (UPI). Available: http://www.upi.com/Business_News/Energy-Resources/2014/12/03/Kazakhstan-keen-on-TAPI-gas-pipeline/1741417604335/.

⁴⁴ A.Q. Siddiqui (2013), "Transit fee for TAPI gas pipeline agreed". Pajhwok Afghan News. Available: <http://www.pajhwok.com/en/2012/04/17/transit-fee-tapi-gas-pipeline-agreed>.

Table 4.1: Top 10 Exports of Central and South Asian countries to World and Region, 2010-2013 average

| AFGHANISTAN | | | | | |
|----------------------------------|---|---------------|--|---|---------------|
| Top Exports to All Destinations: | | | Top Inter-Regional and Intra-Regional Exports: | | |
| HS Code | Commodity Description | AVG 2010-2013 | HS Code | Commodity Description | AVG 2010-2013 |
| 520100 | Cotton, not carded or combed | 71,972,532 | 520100 | Cotton, not carded or combed | 71,414,941 |
| 720449 | Ferrous waste or scrap, nes | 45,316,969 | 720449 | Ferrous waste or scrap, nes | 45,316,969 |
| 999999 | Commodities not specified according to kind | 44,734,118 | 80420 | Figs, fresh or dried | 39,987,808 |
| 80420 | Figs, fresh or dried | 40,043,780 | 270119 | Coal except anthracite or bituminous | 38,036,531 |
| 80620 | Grapes, dried | 38,282,764 | 130190 | Natural gum, resin, gum-resin, balsam | 35,320,878 |
| 270119 | Coal except anthracite or bituminous | 38,037,566 | 80620 | Grapes, dried | 15,680,502 |
| 130190 | Natural gum, resin, gum-resin, balsam | 35,416,664 | 80610 | Grapes, fresh | 12,604,132 |
| 80250 | Pistachios, fresh or dried | 15,339,074 | 70310 | Onions and shallots, fresh or chilled | 12,562,491 |
| 430130 | Raw Persian and similar lamb fur skins, whole | 13,103,149 | 252610 | Natural steatite, not crushed or powdered | 9,642,132 |
| 840734 | Engines, spark-ignition reciprocating, over 1000 cc | 12,789,418 | 80250 | Pistachios, fresh or dried | 8,603,925 |

| INDIA | | | | | |
|----------------------------------|---|----------------|--|---|---------------|
| Top Exports to All Destinations: | | | Top Inter-Regional and Intra-Regional Exports: | | |
| HS Code | Commodity Description | AVG 2010-2013 | HS Code | Commodity Description | AVG 2010-2013 |
| 271000 | Oils petroleum, bituminous, distillates, not crude | 58,561,050,106 | 520100 | Cotton, not carded or combed | 266,393,971 |
| 260111 | Iron ore, concentrate, not iron pyrites | 54,181,891,188 | 230400 | Soya-bean oil-cake and other solid residues | 218,182,617 |
| 100630 | Rice, semi-milled or wholly milled | 6,670,880,568 | 290243 | P-xylene | 156,846,952 |
| 230400 | Soya-bean oil-cake and other solid residues | 4,817,339,132 | 300490 | Medicaments nes, in dosage | 132,334,007 |
| 250100 | Salt (sodium chloride) including solution, salt water | 4,404,749,394 | 170199 | Refined sugar, in solid form, nes, pure sucrose | 104,084,215 |
| 100590 | Maize except seed corn | 3,689,339,376 | 070200 | Tomatoes, fresh or chilled | 89,211,625 |
| 251611 | Granite, crude or roughly trimmed | 3,400,599,554 | 090240 | Tea, black (fermented or partly) in packages > 3 kg | 74,948,585 |
| 870899 | Motor vehicle parts nes | 2,842,657,779 | 540710 | Woven hi-ten filament, nylon, polyamide | 63,122,909 |
| 270119 | Coal except anthracite or bituminous | 2,391,949,328 | 390210 | Polypropylene in primary forms | 50,622,030 |
| 260600 | Aluminum ores and concentrates | 2,173,873,564 | 852520 | Transmit-receive apparatus for radio, TV, etc. | 42,341,948 |

| PAKISTAN | | | | | |
|----------------------------------|--|---------------|--|--|---------------|
| Top Exports to All Destinations: | | | Top Inter-Regional and Intra-Regional Exports: | | |
| HS Code | Commodity Description | AVG 2010-2013 | HS Code | Commodity Description | AVG 2010-2013 |
| 100630 | Rice, semi-milled or wholly milled | 1,833,319,464 | 271000 | Oils petroleum, bituminous, distillates, not crude | 394,828,486 |
| 520512 | Cotton yarn >85% single uncombed | 1,050,326,400 | 252329 | Portland cement, other than white cement | 287,206,416 |
| 271000 | Oils petroleum, bituminous, distillates, not crude | 840,124,734 | 110100 | Wheat or muslin flour | 171,598,510 |
| 711319 | Jewelry and parts of precious metal except silver | 735,341,171 | 151620 | Veg fats, oils or fractions hydrogenated, esterified | 159,474,239 |
| 630260 | Toilet or kitchen linen, of cotton terry toweling | 733,458,047 | 100630 | Rice, semi-milled or wholly milled | 93,817,606 |
| 630231 | Bed linen, of cotton, nes | 692,270,381 | 730690 | Tube/pipe/hollow profile, iron/steel ,riveted | 71,336,777 |
| 620342 | Men's, boys trousers & shorts, of cotton, not knit | 629,227,159 | 170199 | Refined sugar, in solid form, nes, pure sucrose | 69,311,319 |
| 630210 | Bed linen, of textile knit or crochet materials | 570,059,288 | 80410 | Dates, fresh or dried | 64,806,899 |
| 630239 | Bed linen, of material nes, | 546,744,338 | 70190 | Potatoes, fresh or chilled except seed | 62,842,894 |
| 252329 | Portland cement, other than white cement | 463,008,206 | 80520 | Mandarin, clementine & hybrids, fresh or dried | 61,365,371 |

| KAZAKHSTAN | | | | | |
|----------------------------------|---|----------------|--|---|---------------|
| Top Exports to All Destinations: | | | Top Inter-Regional and Intra-Regional Exports: | | |
| HS Code | Commodity Description | AVG 2010-2013 | HS Code | Commodity Description | AVG 2010-2013 |
| 270900 | Petroleum oils, oils from bituminous minerals, crude | 68,343,870,432 | 270900 | Petroleum oils, oils from bituminous minerals | 638,445,349 |
| 270119 | Coal except anthracite or bituminous | 27,037,800,667 | 110100 | Wheat or meslin flour | 560,002,356 |
| 271121 | Natural gas in gaseous state | 15,028,956,692 | 100190 | Wheat except durum wheat, and meslin | 290,588,887 |
| 260111 | Iron ore, concentrate, no iron, pyrites | 8,923,317,062 | 271000 | Oils petroleum, bituminous, distillates, no crude | 182,005,882 |
| 260112 | Iron ore, concentrate, not iron pyrites, agglomerated | 8,561,949,798 | 271112 | Propane, liquefied | 108,901,261 |
| 100190 | Wheat except durum wheat, and meslin | 4,936,950,103 | 260800 | Zinc ores and concentrates | 74,767,916 |
| 271000 | Oils petroleum, bituminous, distillates, except crude | 4,863,991,378 | 252400 | Asbestos | 67,960,097 |
| 250310 | Sulfur, crude or unrefined | 4,016,433,314 | 730511 | Pipe-line submerged arc welded steel ø >406mm | 65,774,600 |
| 760110 | Aluminum unwrought, not alloyed | 2,675,193,648 | 720449 | Ferrous waste or scrap, nes | 50,272,954 |
| 110100 | Wheat or meslin flour | 2,075,523,542 | 270119 | Coal except anthracite or bituminous cluster | 37,879,678 |

| KYRGYZSTAN | | | | | |
|----------------------------------|--|---------------|--|--|---------------|
| Top Exports to All Destinations: | | | Top Inter-Regional and Intra-Regional Exports: | | |
| HS Code | Commodity Description | AVG 2010-2013 | HS Code | Commodity Description | AVG 2010-2013 |
| 710812 | Gold in unwrought forms non-monetary | 743,179,536 | 271600 | Electrical energy | 51,381,421 |
| 271000 | Oils petroleum, bituminous, distillates, not crude | 105,870,396 | 870423 | Diesel powered trucks weighing > 20 tones | 27,726,342 |
| 999999 | Commodities not specified according to kind | 82,164,680 | 271000 | Oils petroleum, bituminous, distillates, not crude | 25,787,215 |
| 071333 | Kidney beans and white pea beans dried shelled | 52,031,608 | 261690 | Precious metal ores and concentrates not silver | 12,436,246 |
| 271600 | Electrical energy | 51,381,421 | 040120 | Milk not concentrated nor sweetened 1-6% fat | 12,064,182 |
| 870423 | Diesel powered trucks weighing > 20 tones | 28,515,962 | 070190 | Potatoes, fresh or chilled except seed | 11,805,057 |
| 520100 | Cotton, not carded or combed | 28,134,131 | 700529 | Float glass etc. in sheets, non-wired, clear | 9,998,425 |
| 261690 | Precious metal ores and concentrates except silver | 22,907,520 | 401199 | Pneumatic tires new of rubber nes | 9,798,884 |
| 620640 | Women's, girls blouses, shirts, manmade fiber | 21,475,171 | 080810 | Apples, fresh | 9,492,343 |
| 620443 | Women's, girls dresses, synthetic fibers, not knit | 18,944,044 | 252329 | Portland cement, other than white cement | 9,132,212 |

| TAJKISTAN | | | | | |
|----------------------------------|---|---------------|--|--|---------------|
| Top Exports to All Destinations: | | | Top Inter-Regional and Intra-Regional Exports: | | |
| HS Code | Commodity Description | AVG 2010-2013 | HS Code | Commodity Description | AVG 2010-2013 |
| 760110 | Aluminum unwrought, not alloyed | 461,571,520 | 271000 | Oils petroleum, bituminous, distillates, not crude | 21,302,658 |
| 520100 | Cotton, not carded or combed | 125,760,787 | 760110 | Aluminum unwrought, not alloyed | 14,793,711 |
| 999999 | Commodities not specified according to kind | 53,968,010 | 081310 | Apricots, dried | 9,759,264 |
| 760120 | Aluminum unwrought, alloyed | 49,154,341 | 260800 | Zinc ores and concentrates | 9,046,206 |
| 260700 | Lead ores and concentrates | 35,598,220 | 260700 | Lead ores and concentrates | 8,291,932 |
| 070310 | Onions and shallots, fresh or chilled | 23,741,956 | 520100 | Cotton, not carded or combed | 7,845,632 |
| 261710 | Antimony ores and concentrates | 23,465,954 | 081350 | Mixtures of edible nuts, dried & preserved fruits | 7,679,121 |
| 081310 | Apricots, dried | 23,216,715 | 070310 | Onions and shallots, fresh or chilled | 6,679,041 |
| 271000 | Oils petroleum, bituminous, distillates, except crude | 21,302,658 | 110100 | Wheat or meslin flour | 5,566,643 |
| 081350 | Mixtures of edible nuts, dried and preserved fruits | 18,438,645 | 640320 | Footwear, soles/uppers leather, strap instep | 2,299,771 |

| TURKMENISTAN | | | | | |
|----------------------------------|---|---------------|--|---|---------------|
| Top Exports to All Destinations: | | | Top Inter-Regional and Intra-Regional Exports: | | |
| HS Code | Commodity Description | AVG 2010-2013 | HS Code | Commodity Description | AVG 2010-2013 |
| 271121 | Natural gas in gaseous state | 6,015,656,543 | 271000 | Oils petroleum, bituminous, distillates, no crude | 199,481,306 |
| 271000 | Oils petroleum, bituminous, distillates, except crude | 1,043,765,221 | 271121 | Natural gas in gaseous state | 174,093,615 |
| 710813 | Gold, semi-manufactured forms, non-monetary | 263,017,586 | 520100 | Cotton, not carded or combed | 22,980,088 |
| 520100 | Cotton, not carded or combed | 219,232,504 | 280120 | Iodine | 7,568,809 |
| 520512 | Cotton yarn >85% single uncombed 714-232dtex, | 139,818,958 | 390210 | Polypropylene in primary forms | 2,731,398 |
| 390210 | Polypropylene in primary forms | 103,826,206 | 520819 | Woven cotton nes, >85% <200g/m2, unbleached | 1,516,870 |
| 520812 | Plain weave cotton, >85% 100-200g/m2, unbleached | 35,371,333 | 870590 | Special purpose motor vehicles nes | 1,393,345 |
| 999999 | Commodities not specified according to kind | 22,102,704 | 410210 | Sheep or lamb skins, raw, wool on, no Persian etc | 1,060,965 |
| 520942 | Denim cotton >85% >200g/m2 | 20,874,783 | 070200 | Tomatoes, fresh or chilled | 963,028 |
| 270900 | Petroleum oils, oils from bituminous minerals, crude | 107,981,745 | 180690 | Chocolate/cocoa food preparations nes | 865,187 |

| UZBEKISTAN | | | | | |
|----------------------------------|--|---------------|--|--|---------------|
| Top Exports to All Destinations: | | | Top Inter-Regional and Intra-Regional Exports: | | |
| HS Code | Commodity Description | AVG 2010-2013 | HS Code | Commodity Description | AVG 2010-2013 |
| 520100 | Cotton, not carded or combed | 856,954,012 | 271000 | Oils petroleum, bituminous, distillates, not crude | 475,704,738 |
| 271121 | Natural gas in gaseous state | 619,983,059 | 271121 | Natural gas in gaseous state | 245,863,083 |
| 271000 | Oils petroleum, bituminous, distillates, not crude | 480,135,201 | 870322 | Automobiles, spark ignition engine 1000-1500 cc | 47,664,267 |
| 740311 | Copper cathodes & sections of cathodes unwrought | 475,704,738 | 310230 | Ammonium nitrate, solution, pack >10 kg | 45,727,566 |
| 284410 | Natural uranium, its compounds, mixtures | 419,951,836 | 80610 | Grapes, fresh | 43,492,204 |
| 870322 | Automobiles, spark ignition engine of 1000-1500 cc | 295,557,693 | 81090 | Fruits, fresh nes | 28,686,238 |
| 870321 | Automobiles, spark ignition engine of <1000 cc | 201,592,243 | 252329 | Portland cement, other than white cement | 23,689,772 |
| 710812 | Gold in unwrought forms non-monetary | 171,040,538 | 71331 | Urd, mung, black or green beans dried shelled | 21,304,359 |
| 520512 | Cotton yarn >85% single uncombed 714-232 dtex | 158,836,714 | 70200 | Tomatoes, fresh or chilled | 19,019,960 |
| 870323 | Automobiles, spark ignition engine of 1500-3000 cc | 138,566,425 | 70700 | Cucumbers and gherkins, fresh or chilled | 15,524,792 |

Source: Derived from data in United Nations, COMTRADE database.

B. Product Concentration

1. Number of Products Traded Intra- and Inter-Regionally

Intra-regional trade of the Central and South Asian countries are more diversified than is their inter-regional trade. Table 4.2 shows the number of product exports having an average of over US\$10,000 in 2010-2013 for each of the countries in the two regions.

On average, the South Asian countries trade 4.5 times more products among themselves than with the Central Asian countries. Likewise, Central Asian countries trade nearly 4 times as many products among themselves than they do with the South Asian countries.

There are considerable variations among countries. In South Asia, Afghanistan exports over 10 times more to India and Pakistan together than it does to the Central Asian countries. It exports nearly twice as many products to Kyrgyzstan as it does to Kazakhstan. The number of products traded with Tajikistan, Turkmenistan and Uzbekistan is considerably smaller than that traded with Kazakhstan and Kyrgyzstan, both in terms of its exports and imports with those countries.

India is somewhat of an exception to the generalizations about intra- and inter-regional products traded. While the number of products exported intra-regional is 3 times greater than the number of products exported to Central Asia, it still exports a relatively large number of products to all the Central Asian countries, especially Kazakhstan and, to a somewhat lesser degree, Uzbekistan.

In Central Asia, the number of products traded by Kazakhstan and Kyrgyzstan are considerably larger than the overall number of products traded by the region as a whole. Tajikistan, Turkmenistan and Uzbekistan have the largest number of products that are exported to Kazakhstan and Kyrgyzstan and have little or no trade among themselves because of various issues ranging from religious and ethnic issues to border disputes.

Table 4.2 Number of product exports of over \$10,000 value to each trading partners, 2010-2013 average

| | | IMPORTER | | | | | | | |
|----------|--------------|-------------|-------|----------|------------|------------|------------|--------------|------------|
| | | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan |
| EXPORTER | Afghanistan | | 106 | 140 | 17 | 32 | 3 | 4 | 1 |
| | India | 894 | | 1120 | 844 | 168 | 182 | 243 | 444 |
| | Pakistan | 962 | 742 | | 99 | 35 | 29 | 31 | 47 |
| | Kazakhstan | 231 | 152 | 40 | | 477 | 409 | 398 | 503 |
| | Kyrgyzstan | 66 | 27 | 5 | 441 | | 219 | 41 | 349 |
| | Tajikistan | 28 | 19 | 13 | 98 | 66 | | 0 | 0 |
| | Turkmenistan | 15 | 18 | 12 | 45 | 7 | 0 | | 0 |
| | Uzbekistan | 30 | 105 | 19 | 538 | 221 | 0 | 0 | |

Source: Derived from data in United Nations, COMTRADE database.

2. Herfindahl-Hirschman Product Concentration Index

A more advanced measure of export concentration is the Herfindahl-Hirschman product concentration index, which calculates the degree to which a country's export earnings are either concentrated in a relatively few products or, alternatively, the extent to which they are diversified among many products. For Central and South Asia, the extent of export concentration or diversification are measured across each country's exports to (a) all destinations; (b) countries in the intra-regional market; and (c) countries in the inter-regional market.

The index is calculated as the square root of the sum of the squared market shares of a country's exports of its HS 6-digit products in total exports to a regional or world market (for the technical definition, see Box 4.1). The interpretation of the indices are as follows: countries with exports that are concentrated in a very few products have an index value approaching 1; and those with highly diversified product exports have an index value close to 0. In general, the degree of product concentration reflects the vulnerability of a country to trade shocks.

Table 4.3 shows the extent to which exports are diversified or concentrated in a few number of products in the Central and South Asian countries. India and Pakistan have the most diversified exports, followed by Kazakhstan and Kyrgyzstan. At the other extreme, Turkmenistan's, Tajikistan's and Afghanistan's exports are concentrated in a relatively few number of products. Uzbekistan's export concentration is near the average for the region.

Bilateral trade flows are mixed. For example, Afghanistan's exports to Turkmenistan and Tajikistan are highly concentrated in a few products, whereas those to Kyrgyzstan, India and Pakistan are relatively diversified. Only India and, to a somewhat lesser extent, Pakistan have consistently diversified bilateral trade flows with all countries in the region. Central Asian countries in general tend to have relatively diversified product exports with one another, but their exports to the South Asian countries tend to be concentrated in a fewer number of products.

Table 4.3 Herfindahl-Hirschman product concentration index, to each trading partners, 2010-2013 average

| | | IMPORTER | | | | | | | | |
|----------|--------------|-------------|-------|----------|------------|------------|------------|--------------|------------|-------|
| | | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan | World |
| EXPORTER | Afghanistan | | 0.14 | 0.17 | 0.29 | 0.10 | 0.54 | 0.97 | None | 0.04 |
| | India | 0.04 | | 0.05 | 0.07 | 0.12 | 0.08 | 0.04 | 0.06 | 0.05 |
| | Pakistan | 0.06 | 0.04 | | 0.20 | 0.13 | 0.20 | 0.09 | 0.09 | 0.02 |
| | Kazakhstan | 0.23 | 0.43 | 0.17 | | 0.05 | 0.15 | 0.03 | 0.12 | 0.41 |
| | Kyrgyzstan | 0.42 | 0.07 | 0.56 | 0.04 | | 0.10 | 0.12 | 0.04 | 0.19 |
| | Tajikistan | 0.47 | 0.74 | 0.54 | 0.10 | 0.08 | | None | None | 0.22 |
| | Turkmenistan | 0.70 | 0.41 | 0.68 | 0.84 | 0.21 | None | | None | 0.54 |
| | Uzbekistan | 0.57 | 0.11 | 0.38 | 0.07 | 0.14 | None | None | | 0.05 |
| | World | 0.03 | 0.09 | 0.06 | 0.01 | 0.04 | 0.01 | 0.01 | 0.01 | |

Source: Calculated from data in United Nations, COMTRADE database.

Box 4.1. Measuring Product Diversification

Export diversification is a reflection of trade development insofar as it reflects the ability of an economy to produce a wide variety of goods. In general, advanced economies are highly diversified in their production structures, whereas many developing and transition economies are characterized as being mono-exporters, with one type of good dominating their export performance.

Several measures are used in this chapter to describe diversification as well as other characteristics of a country's trade structure:*

- *Top traded products*: This indicator lists the top 10 products exported by each country to both the world market and the combined regions of Central and South Asia.
- *Number of products exported with trade values of at least US\$ 10,000*: This measure provides a simple count of how many products are exported by each country in Central and South Asia.
- *Herfindahl-Hirschman Product Concentration Index*: This index measures the concentration or, alternatively, diversification of a country's export products. The Herfindahl-Hirschman Product Concentration Index (HH) is defined as follows:

$$\frac{\sum_{k=1}^{n_i} \left(\frac{x_{ik}}{X_i} \right)^2 - \frac{1}{n_i}}{\frac{1}{n_i}} \quad \dots(4.1)$$

where X is the total value of exports from reporter i ; x is the value of exports of product k from country i ; and n is the number of products exported by country i .

A higher index (close to 1) indicates that exports are concentrated in fewer sectors, whereas a country with a completely diversified portfolio will have an index close to 0.

- *Export survival rates*: This measure describes the survival rate over successive years of new product-market relationships of at least US\$10,000 for each Central and South Asia country. Export Duration (ED) is defined as follows:

$$ED_{it} = \frac{n_{ijt}}{n_{ijt_{start}}} \quad \dots(4.2)$$

where n is the number of products exported from country i to partner j in year t , and t_{start} is the selected start year.

Source: World Bank (2013), "Online Trade Outcomes Indicators - User's Manual". Washington, DC. Available: <http://wits.worldbank.org/WITS/docs/TradeOutcomes-UserManual.pdf>.

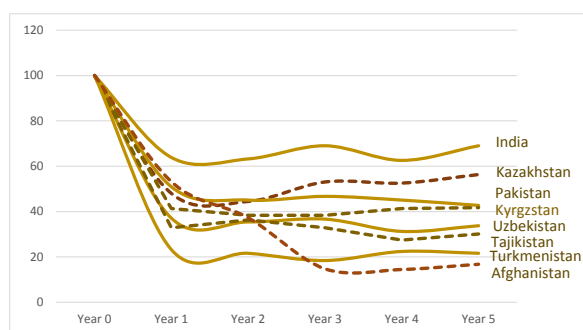
C. Export Survival Rates

Regional trade in Central and South Asia consists of a relatively large and somewhat varied number of products, notwithstanding the dominance of a few products in overall export earnings. Export product variety suggests the potential for growing diversification if new product entrants can achieve market penetration. However, successful entry into regional as well as global export markets requires survival beyond the first years of entry.⁴⁵ Yet empirical evidence points to the short-lived success and high ‘death’ rates of new exports in developing countries. Typically, the median duration of these new export spells is very short, averaging two to three years.⁴⁶

Export survival rate analysis is a new and rapidly expanding area of research in trade, due in large part to the availability of transactions-level export data. Initial studies have found that the probability of survival success rises with the number of same-country firms exporting the same product to the same destinations. The results suggest the existence of cross-firm externalities and information spillovers, based on the observation that a country’s export success often takes the form of ‘big hits’, with one narrow export item suddenly growing rapidly.⁴⁷ If a sufficient number of exporters target one market simultaneously, our results imply that their chances of success increase, possibly triggering a cycle of entry, survival and growth.

The analysis is particularly useful for policy and program formulation in Central and South Asia, given that traditional export promotion efforts have tended to focus primarily on helping would-be exporters find new markets and develop export-ready products. Survival rate analysis suggests that such efforts may not yield significant results if flows of new products and destinations are not surviving in sufficient numbers. Information about survival rates can be very helpful in the search for robust and policy-related determinants of export growth, particularly when related to export sustainability.

Figure 4.1: Survival Rates in Central and South Asian Economies between 2010 and 2013 (2010 = 100)



Source: Based on data from World Bank World Integrated Trade Solution (WITS) trade outcomes analysis. Online: <https://wits.worldbank.org/WITS/WITS/Restricted/Login.aspx>.

⁴⁵ T. Besedes and T. Prusa (2006) "Ins, Outs and the Duration of Trade". *Canadian Journal of Economics* 104. Available: <http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.497.5145&rep=rep1&type=pdf>.

⁴⁶ A. Obashi (2010) "Stability of International Production Networks: Is East Asia Special?" FREIT Working Papers. Available: <http://www.freit.org/WorkingPapers/Papers/TradePatterns/FREIT158.pdf>.

⁴⁷ W. Easterly, A. Reshef, and J. Schwenkenberg (2009), "The Power of Exports". Washington, DC, World Bank Policy Research Working Paper 5081. Available: <https://openknowledge.worldbank.org/bitstream/handle/10986/4273/WPS5081.pdf?sequence=1>.

The results for the Central and South Asian economies, summarized in Figure 4.1, are based on bilateral trade values of 6-digit HS level products with at least US\$ 10,000 in the start year of 2010 and the number and percentage of those that survive in each succeeding year until the end date of 2013. The analysis suggests the following stylized facts about survival rates in these two regions:

- Only India and Kazakhstan have survival rates greater than 50 percent five years after the introduction of new export products.
- Kyrgyzstan, Uzbekistan and Tajikistan have low survival rates ranging from 30 to 40 percent after five years.
- Turkmenistan and Afghanistan have exceedingly low survival rates of 22 and 17 percent respectively after five years of the introduction of new export products.

The generally large scale deaths of trading relationships found in all but the largest economies of the region can reflect economic shocks or the result of new policies or regulatory requirements and procedures. From a practical perspective, there are possible gains in sustainability to be had from prior experience with the export products and destinations, networking with trading partners and using neighboring countries as launch platform for new product exports.

D. Ratings

Table 4.4 shows the scores assigned to export sophistication, survival rates, diversification and performance in each country, based on the evaluation methodology described in Chapter 3 and the analysis of the topics in this chapter.

Table 4.4. Summary Assessment of Export Diversification, Performance, Product Sophistication, Survival Rates

| | Strongly Discourages | Discourages | Neither | Supports | Strongly Supports |
|---|----------------------|-------------|---------|----------|-------------------|
| A. <i>Extent of export product diversification encourages intra- and inter-regional diversity of opportunities and stability of foreign exchange earnings.</i> | | | | | |
| 1 Kazakhstan | 1 | 2 | 3 | 4 | 5 |
| 2 Kyrgyzstan | 1 | 2 | 3 | 4 | 5 |
| 3 Tajikistan | 1 | 2 | 3 | 4 | 5 |
| 4 Turkmenistan | 1 | 2 | 3 | 4 | 5 |
| 5 Uzbekistan | 1 | 2 | 3 | 4 | 5 |
| 6 Afghanistan | 1 | 2 | 3 | 4 | 5 |
| 7 India | 1 | 2 | 3 | 4 | 5 |
| 8 Pakistan | 1 | 2 | 3 | 4 | 5 |
| B. <i>Survival rates of exporters are high enough to attract new entrants into export-oriented activities</i> | | | | | |
| 1 Kazakhstan | 1 | 2 | 3 | 4 | 5 |

| | | | | | | |
|---|--------------|---|---|---|---|---|
| 2 | Kyrgyzstan | 1 | 2 | 3 | 4 | 5 |
| 3 | Tajikistan | 1 | 2 | 3 | 4 | 5 |
| 4 | Turkmenistan | 1 | 2 | 3 | 4 | 5 |
| 5 | Uzbekistan | 1 | 2 | 3 | 4 | 5 |
| 6 | Afghanistan | 1 | 2 | 3 | 4 | 5 |
| 7 | India | 1 | 2 | 3 | 4 | 5 |
| 8 | Pakistan | 1 | 2 | 3 | 4 | 5 |

V. COMPARATIVE ADVANTAGES

A. Product Sophistication

1. Distribution of Exports according to Degree of Technical Sophistication

The classification of trade flows according to technological sophistication provides insight into its level of economic development and its location in the global production chain. Specialization in some products can have a greater potential for backward and forward linkages along value chains, and offer opportunities to move up those value chains through technology spillover effects.

The classification system sorts all traded products into one of five mutually exclusive groupings: high tech, medium tech, low tech, primary products, and resource-based products.⁴⁸ Recent extensions of this approach have used measures of country export baskets found in advanced country exports to determine their relative degree of sophistication.⁴⁹ However, for purposes of identifying intra and inter-regional trade opportunities, we limit our analysis to the classification of exports into the standard five groupings:

- *Primary products* are based on natural resources from the agricultural, forestry, fishery and mining sectors of an economy.
- *Resource-based products* involve more processing and can be based on either agriculture or forestry products such as prepared meats and fruits, beverages, wood products, vegetable oil; or other resources such as ore concentrates, petroleum products, rubber products, and cement. Resource-based products tend to be simple and labor-intensive, as in the case of most food or leather processing products. Nevertheless, some industries use relatively high capital and skill-intensive technologies, like in petroleum refining or processed foods.
- *Low-technology manufactures* tend to have stable, well-diffused technologies that are primarily embodied in capital equipment. Some of these products occur in the textile, footwear and furniture industries, which produce textile fabrics, clothing, footwear, and different types of furniture.
- *Medium-technology products* comprise the bulk of capital and intermediate products, which are essential to industrial activity. These products tend to have relatively complex technologies, with moderately high levels of R&D, and require advanced skill and learning periods for their adoption, as in the case of automotive products, industries like synthetic fibers, chemicals and paints, fertilizers, plastics, and industrial machinery.

⁴⁸ The methodology is based on S. Lall, (2000), "The Technological Structure and Performance of Developing Country Manufactured Exports, 1985–98," *Oxford Development Studies* 28(3).
<http://www3.qeh.ox.ac.uk/pdf/gehwp/gehwps44.pdf>.

⁴⁹ R. Hausmann, J. Hwang, and D. Rodrik (2007), "What You Export Matters," *Journal of Economic Growth* 12(1): 1–25. For an application, R. Anand, S. Mishra, and N. Spatafora (2012), "Structural Transformation and the Sophistication of Production". Washington, DC. International Monetary Fund. IMF Working Paper WP/12/59. Available: <https://www.imf.org/external/pubs/cat/longres.aspx?sk=25746.0>.

- *High-technology products* have advanced and fast-changing technologies. They require high R&D investments and emphasize product design. The more advanced technologies require sophisticated technological infrastructures, high levels of specialized technical skills, and close interactions among firms, and between firms and universities or research institutions. Examples include electronics and electrical products, pharmaceuticals, and optical and measuring instruments.

Table 5.1 shows the classification of all exports of each Central and South Asian economy according to their degree of sophistication, while Figure 5.1 provides a visual representation of the export classification of those countries. The following observations can be made from the results:

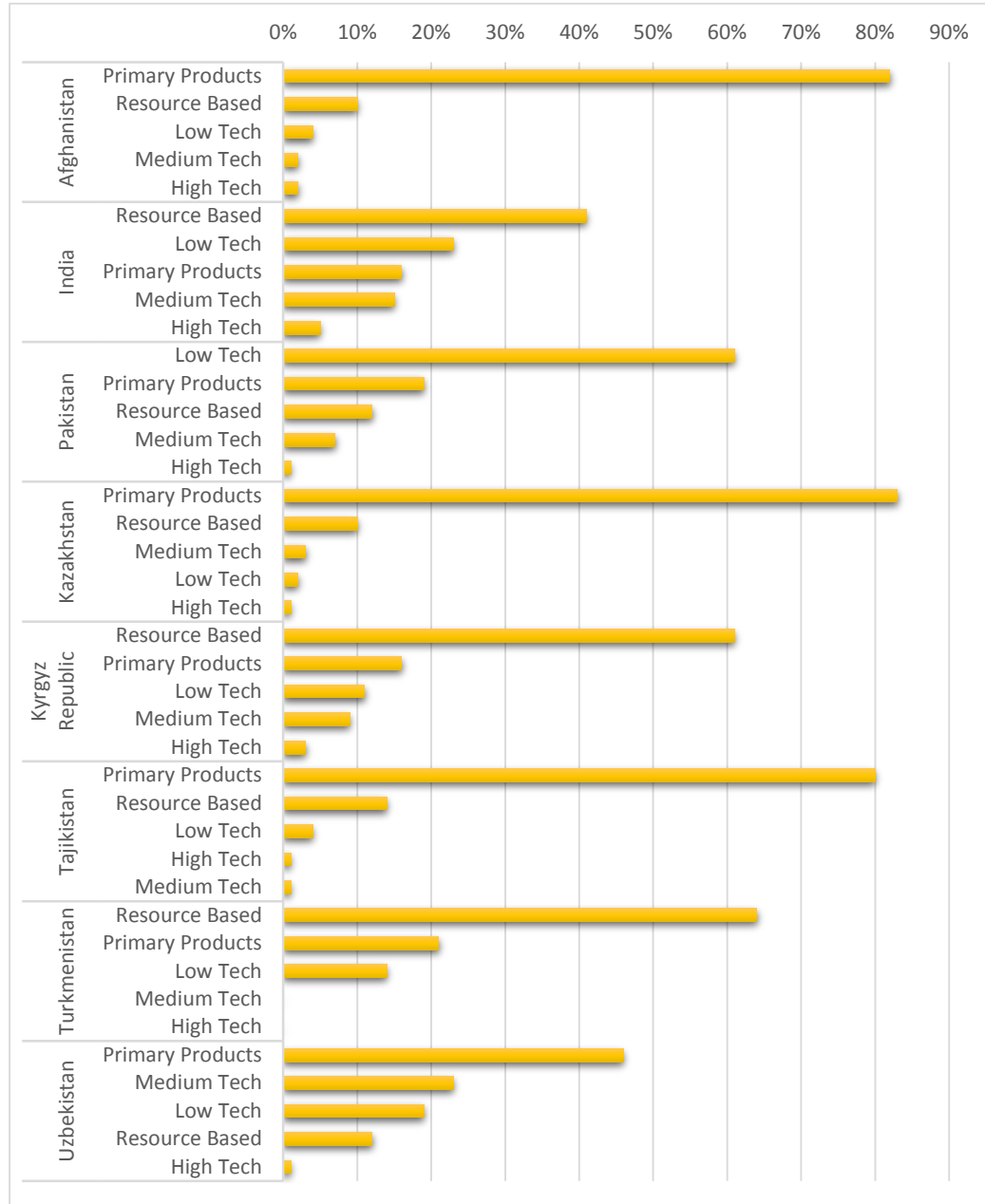
- Over 75 percent of all exports from Afghanistan and the Central Asian countries other than Uzbekistan are in the form of either primary or resource-based products.
- Over 50 percent of exports from India and Uzbekistan are technology-based products. In India, more than one-half of those exports are low-tech products and another one-third are in the form of medium tech products. In Uzbekistan, over one-half of those exports are in the form of medium-tech products and most of the remaining ones are low-tech products.
- Pakistan has the highest proportion of exports that are in the form of technology-based products, although the bulk of those exports are low-tech products.

Table 5.1: Classification of Central and South Asian Exports according to Degree of Sophistication

| | Primary Products | Resource Based | Low Tech | Medium Tech | High Tech |
|--------------|------------------|----------------|----------|-------------|-----------|
| Afghanistan | 82% | 10% | 4% | 2% | 2% |
| India | 16% | 41% | 23% | 15% | 5% |
| Pakistan | 19% | 12% | 61% | 7% | 1% |
| Kazakhstan | 83% | 10% | 2% | 3% | 1% |
| Kyrgyzstan | 61% | 16% | 11% | 9% | 3% |
| Tajikistan | 80% | 14% | 4% | 1% | 1% |
| Turkmenistan | 21% | 64% | 14% | 0% | 0% |
| Uzbekistan | 46% | 12% | 19% | 23% | 1% |

Source: World Bank, "World Integrated Trade Solution (WITS)". Online:
<https://wits.worldbank.org/WITS/WITS/Restricted/Login.aspx>.

Figure 5.1: Classification of Central and South Asian Exports according to Degree of Sophistication



Source: World Bank, "World Integrated Trade Solution (WITS)". Online: <https://wits.worldbank.org/WITS/WITS/Restricted/Login.aspx>.

B. Revealed Comparative Advantages

The nature of a country's exports and its specialization in the production and trade of products can be examined on the basis of the index of revealed comparative advantage (RCA). The RCA measures a country's export intensity in a given product relative to other countries in the world. The ratio of a product's export shares in the country relative to that in the world is taken as a measure of the comparative advantage. If the index is greater than 1, it is indication that the country is internationally competitive in exporting the product being measured. Box 5.1 shows the technical definition of the concept.

The RCA index has several applications:

- (1) It is used to classify a country's exports into different categories, based on whether the types of products exports are (a) natural resource intensive; (b) unskilled-labor intensive; (c) technology intensive; and (d) human capital or skilled labor intensive. This section presents the results of that type of application.
- (2) It is used to determine bilateral and regional trading patterns in cases where countries trade on the basis of their comparative advantages. Chapter 12 shows the results of that type of application.

Table 5.2: Revealed Comparative Advantage of Central and South Asian countries by HS Section

| Section | Description | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan |
|---------|--|-------------|-------|----------|------------|------------|------------|--------------|------------|
| I | Live animals; animal products | 1.00 | 1.70 | 6.86 | 0.10 | 3.26 | 1.59 | 0.01 | 1.30 |
| II | Vegetable products | 8.47 | 2.92 | 4.26 | 1.10 | 5.71 | 17.80 | 3.04 | 11.51 |
| III | Animal or vegetable fats and oils | 0.92 | 1.72 | 0.86 | 7.24 | 0.37 | 0.51 | 13.09 | 0.28 |
| IV | Prepared foodstuffs; beverages | 0.25 | 0.83 | 1.18 | 0.23 | 1.68 | 0.66 | 7.20 | 1.05 |
| V | Mineral products | 6.75 | 4.72 | 4.29 | 2.16 | 7.28 | 12.45 | 1.78 | 4.20 |
| VI | Products of the chemical | 0.92 | 2.21 | 0.44 | 0.99 | 0.79 | 0.50 | 0.43 | 2.55 |
| VII | Plastics, rubber and articles thereof | 0.44 | 0.80 | 0.46 | 0.05 | 0.42 | 0.37 | 0.12 | 0.25 |
| VIII | Raw hides and skins, leather | 13.96 | 1.57 | 8.45 | 0.11 | 7.16 | 3.14 | 0.44 | 2.98 |
| IX | Wood and articles of wood | 0.42 | 0.19 | 0.21 | 0.02 | 0.16 | 0.02 | 0.00 | 0.09 |
| X | Wood pulp or other fibrous material | 0.65 | 0.45 | 0.16 | 0.15 | 0.38 | 0.16 | 0.01 | 0.99 |
| XI | Textiles and textile articles | 7.92 | 3.79 | 28.78 | 0.13 | 2.96 | 5.40 | 2.68 | 7.07 |
| XII | Footwear, headgear, umbrellas | 0.72 | 2.39 | 1.16 | 0.02 | 0.30 | 2.68 | 0.01 | 1.67 |
| XIII | Articles of stone, plaster, cement | 0.68 | 1.33 | 0.48 | 0.17 | 4.59 | 0.86 | 0.02 | 1.05 |
| XIV | Pearls, precious or semi-precious stones | 3.98 | 4.76 | 0.98 | 2.67 | 2.26 | 0.68 | 1.18 | 1.55 |
| XV | Base metals and articles of base metal | 0.93 | 1.24 | 0.70 | 2.38 | 0.85 | 2.30 | 0.02 | 1.85 |
| XVI | Machinery and electrical equipment | 0.92 | 0.55 | 0.16 | 0.05 | 0.59 | 0.18 | 0.05 | 0.23 |
| XVII | Vehicles, aircraft, vessels | 1.27 | 1.27 | 0.17 | 0.18 | 1.17 | 0.14 | 0.11 | 1.05 |
| XVIII | Optical, photographic | 0.38 | 0.36 | 0.13 | 0.03 | 0.30 | 1.15 | 0.07 | 0.08 |
| XIX | Arms and ammunition | 1.36 | 0.69 | 0.74 | na | na | 0.13 | na | 0.05 |
| XX | Miscellaneous manufactured articles | 0.21 | 0.68 | 1.37 | 0.01 | 0.45 | 0.28 | 0.01 | 1.17 |
| XXI | Works of art | 4.35 | 3.26 | 0.41 | 0.00 | 0.24 | 0.48 | 0.07 | 0.22 |

Source: Derived from data in United Nations, COMTRADE database.

Note: The interpretation of the numbers is as follows: If the index is greater than one, the country is internationally competitive in exporting the product grouping in the HS section; If the number is equal to or less than one, then country is not internationally competitive in exporting the product grouping in the HS section.

- (3) It is used in regional value chain analysis to determine potential cross-border fragmentation of production. Chapter 13 shows that results of that type of application.

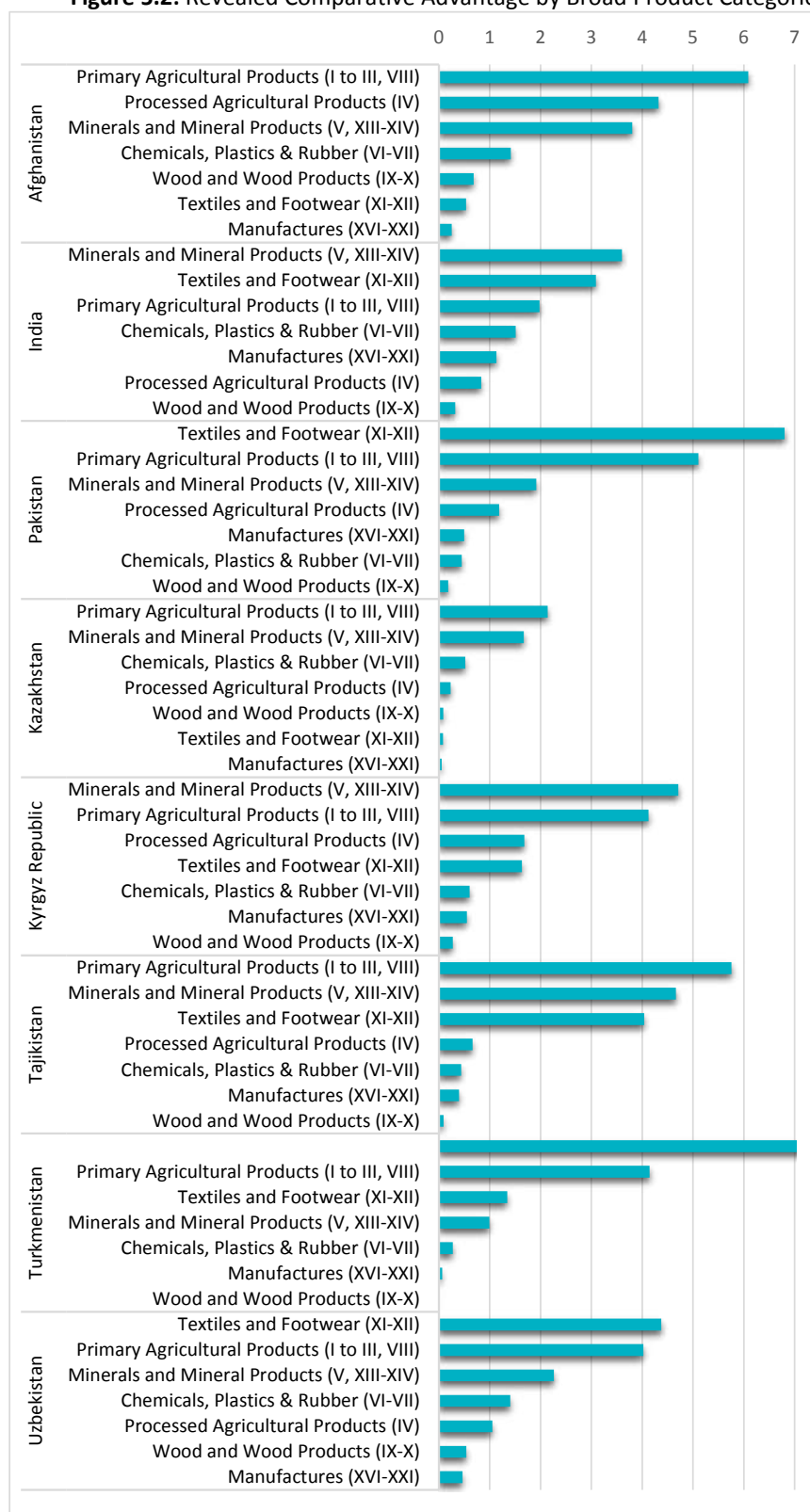
In the case of Central and South Asia, all of the RCA calculations are based on disaggregated trade data at the HS 6-digit level in 2010-2013. Table 5.2 summarizes the results according to the 21 HS sections, while Statistical Appendix Table A.11 summarizes them at the 2-digit HS level. The following are some of the key findings by country:

- Afghanistan has a comparative advantage in the production and export of (a) raw hides and skins, and leather; (b) vegetable products; (c) textiles and textile articles; (d) mineral products; (e) works of art; and (f) precious and semi-precious stones.
- India has a comparative advantage in the production and export of (a) precious or semi-precious stones; (b) mineral products; (c) textiles and textile articles; (d) vegetable products; (e) works of art; (f) footwear, headgear, umbrellas; (g) chemical products; (h) animal or vegetable fats and oils; (i) live animals; (j) animal products; (k) raw hides and skins, leather; (l) articles of stone, plaster, cement; (m) vehicles, aircraft, vessels; and (n) base metals and articles of base metal.
- Pakistan has a comparative advantage in the production and export of (a) textiles and textile articles; (b) raw hides and skins, leather; (c) live animals; animal products; (d) mineral products; (e) vegetable products; (f) manufactured articles; (g) prepared foodstuffs; (h) beverages; and (i) footwear, headgear and umbrellas.
- Kazakhstan has a comparative advantage in the production and export of (a) animal or vegetable fats and oils; (b) precious or semi-precious stones; (c) base metals and articles of base metal; (d) mineral products; and (e) vegetable products.
- Kyrgyzstan has a comparative advantage in the production and export of (a) mineral products; (b) raw hides and skins, leather; (c) vegetable products; (d) articles of stone, plaster, cement; (e) live animals; (f) animal products; (g) textiles and textile articles; (h) precious or semi-precious stones; (i) prepared foodstuffs; and (j) beverages.
- Tajikistan has a comparative advantage in the production and export of (a) vegetable products; (b) mineral products; (c) textiles and textile articles; (d) raw hides and skins, leather; (e) footwear, headgear, umbrellas; (f) base metals and articles of base metal; (g) live animals; and (h) animal products.
- Turkmenistan has a comparative advantage in the production and export of (a) animal or vegetable fats and oils; (b) prepared foodstuffs; (c) beverages; (d) vegetable products; (e) textiles and textile articles; (f) mineral products; and (g) precious or semi-precious stones.
- Uzbekistan has a comparative advantage in the production and export of (a) vegetable products; (b) textiles and textile articles; (c) mineral products; (d) raw hides and skins, leather; (e) products of the chemical; (f) base metals and articles of base metal; (g) footwear, headgear, and umbrellas; (h) precious or semi-precious stones; (i) live animals; and (j) animal products.

Figure 5.2 classifies each country's comparative advantages into seven broad categories with the following characteristics:

- Primary agricultural products have the highest average RCA among the countries in the two regions. Seven of the countries have a comparative advantage in the production and export of these types of products.
- Textiles and footwear have the second highest average RCA among the countries. All countries in the two regions have a comparative advantage in the production and export of these types of products.
- Minerals and mineral products have the third highest average RCA among the countries. All countries in the two regions have a comparative advantage in the production and export of these types of products.
- Processed agricultural products have the fourth highest average RCA among the countries. Five countries in the two regions have a comparative advantage in the production and export of these types of products. The ones with the highest RCAs are Afghanistan, Kyrgyzstan and Pakistan.
- Chemicals, plastics and rubber have the fourth highest average RCA among the countries. Two countries in the two regions (India and Uzbekistan) have a comparative advantage in the production and export of these types of products.
- Miscellaneous manufactures have the sixth highest average RCA among the countries. Two countries in the South Asia region (Afghanistan and India) have a comparative advantage in the production and export of these types of products.
- Wood and wood products. None of the countries in the two regions have a comparative advantage in the production and export of these types of products.

Figure 5.2: Revealed Comparative Advantage by Broad Product Categories



Note: Numbers in parenthesis refer to HS sections.

Source: Derived from data in United Nations, COMTRADE database.

Box 5.1. Measuring Product Sophistication and Revealed Comparative Advantage

- *Export sophistication*: This indicator classifies all products of each Central and South Asia country into one of five mutually exclusive technological groupings: high tech, medium tech, low tech, primary products, and resource-based products. The classification is described as follows:

$$100 * \sum_{k \in \Omega_{tec}} \frac{x_{ijk}}{X_{ij}} \quad \forall \text{ for all } tec \in [HT, MT, LT, PP, RB] \quad \dots(5.1)$$

where x is the value of exports of product k from country i to partner j , and X is the total value of all exports of i to j . Ω_{tec} is the set of all products in mutually exclusive categories: high tech (HT), medium tech (MT), low tech (LT), primary products (PP), and resource-based (RB).

- *Revealed Comparative Advantage*: The concept of revealed comparative advantage (RCA) is defined as follows:

$$RCA = \frac{\frac{x_i}{\sum_i x_i}}{\frac{x_{iw}}{\sum_i x_{iw}}} \quad \dots(5.2)$$

where x_i represents the country's export of good i and x_{iw} represents the world's export of good i .

Source: World Bank (2013), "Online Trade Outcomes Indicators - User's Manual". Washington, DC. Available: <http://wits.worldbank.org/WITS/docs/TradeOutcomes-UserManual.pdf>.

C. Ratings

Table 5.3 shows the scores assigned to the comparative advantages in each country, based on the evaluation methodology described in Chapter 3 and the analysis of the topics in this chapter.

Table 5.3. Summary Assessment of Comparative Advantages

| | | Strongly Discourages | Discourages | Neither | Supports | Strongly Supports |
|--|--------------|-------------------------|-------------|---------|----------|----------------------|
| A. Degree of sophistication of exported products promotes opportunities for trade in higher valued products | | | | | | |
| 1 | Kazakhstan | 1 | 2 | 3 | 4 | 5 |
| 2 | Kyrgyzstan | 1 | 2 | 3 | 4 | 5 |
| 3 | Tajikistan | 1 | 2 | 3 | 4 | 5 |
| 4 | Turkmenistan | 1 | 2 | 3 | 4 | 5 |
| 5 | Uzbekistan | 1 | 2 | 3 | 4 | 5 |
| 6 | Afghanistan | 1 | 2 | 3 | 4 | 5 |
| 7 | India | 1 | 2 | 3 | 4 | 5 |
| 8 | Pakistan | 1 | 2 | 3 | 4 | 5 |
| B. The revealed structure of exports promotes opportunities for trade within and between the two regions | | | | | | |
| 1 | Kazakhstan | 1 | 2 | 3 | 4 | 5 |
| 2 | Kyrgyzstan | 1 | 2 | 3 | 4 | 5 |
| 3 | Tajikistan | 1 | 2 | 3 | 4 | 5 |
| 4 | Turkmenistan | 1 | 2 | 3 | 4 | 5 |
| 5 | Uzbekistan | 1 | 2 | 3 | 4 | 5 |
| 6 | Afghanistan | 1 | 2 | 3 | 4 | 5 |
| 7 | India | 1 | 2 | 3 | 4 | 5 |
| 8 | Pakistan | 1 | 2 | 3 | 4 | 5 |

VI. TRADE COMPLEMENTARITIES

Empirical evidence described in the previous chapter suggests that all the Central and South Asian countries have a comparative advantage in the production and export of natural resource and unskilled labor intensive products. In the context of traditional RCA analysis, these similarities suggest that there are few opportunities for trade between countries in the two regions. Comparative advantage analysis, however, is limited to static concepts. In reality, countries can alter their situations by adopting new technologies either internally through research and development or externally through foreign direct investment (FDI). Alternatively, they can do so through the development of cross-border production facilities involving value chains. These channels introduce a dynamic element to the ability of countries to alter their comparative advantages and thereby improve their economic structures and income levels.

A. Overall and Bilateral Trade Complementarities

One alternative approach to analyzing potential trade opportunities in a more dynamic setting is to assume that there are few natural resource and technological differences between countries, and to examine the actual or potential degree of concentration or so-called agglomeration of industries.⁵⁰ Traditionally, countries have achieved agglomeration through the activities of large multinational enterprises that concentrate industrial activity in particular locations, thereby allowing some countries to advance more quickly than others. More recently, it has been increasingly recognized that regional trading arrangements can be used to help countries achieve

Box 6.1. Measuring Trade Complementarity

The *Trade Complementarity Index* measures the extent to which exports of a country are compatible with imports of its trading partners and is formally defined as follows:

$$100 * \left[1 - \sum_k \left| \frac{m_{jk}}{M_k} - \frac{x_{ik}}{X_i} \right| / 2 \right] \quad \dots(6.1)$$

where x is the value of exports of product k from reporter country i , and X is country i 's total exports. Partner country j 's value of imports of product k is given by m , and its total imports value is denoted by M . The range of possible values are 0 to 100, where a score of 100 indicates that the exported products are compatible with imports of trading partners and a score near 0 indicates lack of compatibility.

Source: World Bank (2013), "Online Trade Outcomes Indicators - User's Manual". Washington, DC. Available: <http://wits.worldbank.org/WITS/docs/TradeOutcomes-UserManual.pdf>.

Note: There is a misprint in the World Bank's description of the formula insofar as the '2' in the denominator is missing from the formula in that publication.

⁵⁰ For applications to trade, see M. Lord (2004), "Partial-Equilibrium and Industrial-Shift Analysis of the U.S.–Colombia FTA". MPRA Paper 50635, University Library of Munich, Germany. Available: <https://ideas.repec.org/e/plo59.html#works>.

agglomeration. Agglomeration economies are closely associated with economies of scale and network effects of similar businesses acting together to benefit from proximity to upstream and downstream activities, and from technological spillovers of information flows that occur when clustering of production activities.

The central indicator of each country's ability to alter its comparative advantage is the degree of trade compatibility between its export structure and that of its regional trading partners. This approach has been widely adopted in measuring regional export-expansion potential using the so-called *trade complementarity index*.⁵¹ Having established compatibility of traded products, one can then invoke performance indicators to reveal the extent to which each country can compete effectively in those markets. Success in export markets, measured by rapidly expanding exports and rising market shares, indicates the extent to which economies can alter their comparative advantage in the global marketplace.

The analysis of Central and South Asia's trade compatibility covers (a) all exports of each country; (b) product-specific performance measures at the 6-digit HS level; and (c) data analysis based on the last 10-year period for which data are available. The formal definition of the trade compatibility index is described in Box 6.1. It indicates the extent to which the export profile of an exporting country complements the import profile of its trading partners. A high index, one that approaches 100, indicates that two countries have considerable scope for trade expansion, while an index that is near 0 suggests that the two countries lack any opportunity to trade. The index of compatibility is usually between 50 and 60 for trade between industrialized countries, and it averages about 20 for trade between developing countries.

At the first stage of analysis for the Central and South Asian countries, the trade compatibility of all HS 6-digit products has been calculated for all potential regional trade between countries in

Table 6.1: Overall Bilateral Trade Complementarity Indices of Central and South Asian Exports

| | | IMPORTS | | | | | | | |
|---------|--------------|-------------|-------|----------|------------|------------|------------|--------------|------------|
| | | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan |
| EXPORTS | Afghanistan | | 12 | 13 | 9 | 9 | 8 | 14 | 11 |
| | India | 34 | | 41 | 27 | 39 | 26 | 22 | 27 |
| | Pakistan | 19 | 24 | | 13 | 15 | 18 | 10 | 12 |
| | Kazakhstan | 8 | 11 | 22 | | 12 | 13 | 5 | 13 |
| | Kyrgyzstan | 22 | 19 | 16 | 18 | | 19 | 18 | 18 |
| | Tajikistan | 11 | 13 | 9 | 8 | 7 | | 11 | 11 |
| | Turkmenistan | 14 | 17 | 18 | 8 | 16 | 11 | | 7 |
| | Uzbekistan | 15 | 21 | 19 | 15 | 19 | 16 | 10 | |

Source: Derived from data in United Nations, COMTRADE database.

⁵¹ This approach is associated with M. Michaely (1996), "Trade Preferential Agreements in Latin America: An Ex-Ante Assessment". Washington, DC. Policy Research Working Paper 1583. March 1996. Available: http://papers.ssrn.com/sol3/papers.cfm?abstract_id=620535.

the region and between each country and the regional aggregate of all imported products. The results are summarized in Figure 6.1. They show that India's exports are most compatible with the types of goods imported by the two regions, and especially with imports of Afghanistan, Pakistan and Kyrgyzstan. Pakistan's exports are also compatible with the types of goods imported by Central and South Asian countries, albeit less than exports of India. Among the Central Asian countries, Kazakhstan has considerable opportunities to expand its exports with Pakistan, while Kyrgyzstan could expand its trade with all its trading partners in the two regions. Turkmenistan has trade expansion opportunities with India and Pakistan, and Uzbekistan's exports are somewhat compatible with those of India, Pakistan and Kyrgyzstan. In general, Afghanistan has limited scope for developing export opportunities with India, Pakistan and Turkmenistan.

At the second level, export products of each country in the region are divided into the following four types: (a) *large non-fuel exports*; (b) *medium-size exports*; (c) *small-size exports*; and (d) *emerging exports*. Because country sizes differ considerably in the two regions, the dollar magnitude of the export categories varies among countries. They are specified at the bottom of each country-based analysis in Table 6.2. Both Table 6.2 and 6.3 present the results of the analysis by export size from different perspectives, while Figure 6.1 provides a visual summary of the information. The following are some of the highlights of the results:

- ▶ The South Asian countries have the highest trade complementarity with regional imports in medium- to large-size exports, whereas Kazakhstan, Kyrgyzstan and Tajikistan have the highest levels of complementarity in small-size and emerging exports, and Turkmenistan and Uzbekistan have the highest trade complementarities in medium-size exports (Figure 6.1).
- ▶ On a bilateral trade basis, trade complementarities are in some cases much higher than the overall level of each country's export compatibility with imports from the two regions. In Table 6.2, all bilateral trade in the two regions that have trade complementarity indices over 35 are highlighted. The results are striking. Whereas overall export figures of Afghanistan showed very little trade compatibility with the two regions, on a bilateral basis it has high levels of trade opportunities with its large-size exports to Pakistan and its small-size exports to Kazakhstan, Kyrgyzstan, and Turkmenistan. India has high levels of trade compatibility with Kazakhstan in all types of exports, as well as in its other exports to all countries in the regions, excepting Uzbekistan. Pakistan's export compatibility in the region is mainly with its medium-size exports to India and large-size exports to Uzbekistan. In Central Asia, Kyrgyzstan has the largest number of bilateral trade compatibility indices, while Uzbekistan's exports are highly compatible with Kazakhstan for all types of products. Tajikistan has high levels of compatibility with the South Asian countries in several product categories, while Turkmenistan has high levels of trade compatibility with India and Uzbekistan (Table 6.2).
- ▶ Medium- and large-size exports of the South Asian countries are composed of much needed products like cement, non-crude oils and coal, fruits and vegetables and other types of agricultural products, medicines and medical instruments, garments, and automobile parts. Small-size and emerging export products of Kazakhstan, Kyrgyzstan and Tajikistan are made up of a wide range of manufactures, minerals, agro-foods, and

agricultural and mineral raw materials. Medium-size exports of Turkmenistan and Uzbekistan are composed of products like agricultural and mineral raw materials and fruits and vegetables (Table 6.3).

Figure 6.1: Trade Complementarity Indices of Central and South Asian Exports, by Size of Export Products

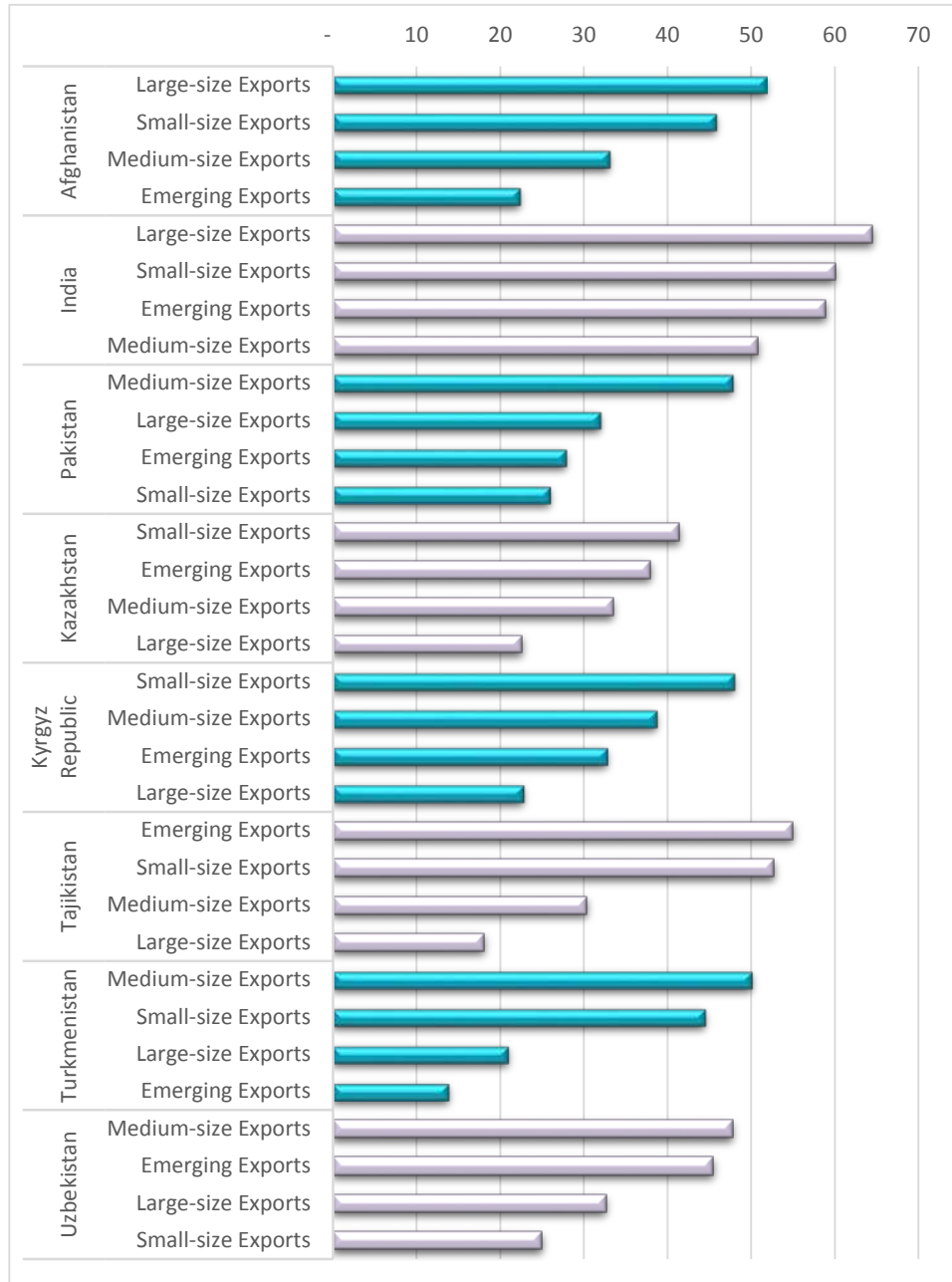


Table 6.2: Trade Complementarity Indices of Central and South Asian Exports, by Size of Exports

| | | | I M P O R T S | | | | | | | |
|---------------|--------------|---------------------|---------------|-------|----------|------------|------------|------------|--------------|------------|
| | | | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan |
| E X P O R T S | Afghanistan | Large size exports | | 37 | 45 | 26 | 19 | 19 | 13 | 20 |
| | | Medium size exports | | 28 | 26 | 28 | 29 | 20 | 5 | 23 |
| | | Small size exports | | 31 | 25 | 44 | 53 | 26 | 44 | 35 |
| | | Emerging exports | | 21 | 16 | 20 | 28 | 17 | 21 | 25 |
| | India | Large size exports | 51 | | 49 | 56 | 48 | 56 | 22 | 35 |
| | | Medium size exports | 23 | | 30 | 35 | 33 | 22 | 31 | 25 |
| | | Small size exports | 31 | | 36 | 38 | 37 | 37 | 23 | 41 |
| | | Emerging exports | 39 | | 41 | 41 | 27 | 28 | 33 | 37 |
| | Pakistan | Large size exports | 22 | 30 | | 26 | 18 | 30 | 40 | 19 |
| | | Medium size exports | 18 | 43 | | 26 | 21 | 30 | 25 | 23 |
| | | Small size exports | 14 | 27 | | 22 | 24 | 21 | 10 | 10 |
| | | Emerging exports | 20 | 29 | | 11 | 11 | 30 | 13 | 8 |
| | Kazakhstan | Large size exports | 9 | 15 | 41 | | 11 | 23 | 8 | 34 |
| | | Medium size exports | 35 | 21 | 27 | | 35 | 30 | 17 | 31 |
| | | Small size exports | 25 | 36 | 34 | | 29 | 26 | 22 | 37 |
| | | Emerging exports | 25 | 31 | 25 | | 32 | 31 | 36 | 42 |
| | Kyrgyzstan | Large size exports | 20 | 21 | 15 | 27 | | 21 | 26 | 23 |
| | | Medium size exports | 19 | 31 | 32 | 41 | | 38 | 32 | 20 |
| | | Small size exports | 41 | 36 | 45 | 49 | | 54 | 45 | 29 |
| | | Emerging exports | 26 | 20 | 34 | 62 | | 44 | 38 | 39 |
| | Tajikistan | Large size exports | 9 | 18 | 11 | 18 | 8 | | 11 | 17 |
| | | Medium size exports | 20 | 27 | 30 | 30 | 20 | | 23 | 16 |
| | | Small size exports | 35 | 45 | 30 | 35 | 24 | | 31 | 27 |
| | | Emerging exports | 37 | 51 | 42 | 43 | 34 | | 34 | 33 |
| | Turkmenistan | Large size exports | 14 | 19 | 19 | 25 | 21 | 16 | | 17 |
| | | Medium size exports | 27 | 44 | 23 | 33 | 24 | 19 | | 27 |
| | | Small size exports | 20 | 37 | 34 | 32 | 15 | 14 | | 12 |
| | | Emerging exports | 8 | 8 | 33 | 31 | 29 | 28 | | 36 |
| | Uzbekistan | Large size exports | 17 | 31 | 28 | 39 | 26 | 18 | 19 | |
| | | Medium size exports | 15 | 41 | 25 | 48 | 42 | 20 | 23 | |
| | | Small size exports | 21 | 19 | 29 | 40 | 23 | 12 | 29 | |
| | | Emerging exports | 20 | 35 | 36 | 46 | 25 | 30 | 13 | |

Source: Derived from data in United Nations, COMTRADE database.

Note: The interpretation of the figures in the table is as follows: a score near 100 indicates that the exported products are compatible with imports of trading partners; a score near 0 indicates lack of compatibility between the exported products and imports of trading partners.

Table 6.3: Trade Complementarity Indices, by Size of Exports and Products Examples

| AFGHANISTAN | <i>Index of Trade Complementarity</i> | <i>Examples of Afghanistan exports in category</i> |
|----------------------------|---------------------------------------|--|
| <i>Large-size Exports</i> | 52 | Cotton • Ferrous scrap • Coal • Natural gum • Wool carpets • Fur skins • Figs • Grapes • Pistachios • Grapes • Onions • Apricots |
| <i>Medium-size Exports</i> | 33 | Skins and Hides • Ferro-alloys • Copper • Antiques • Almonds • Beans • Saffron • Apricots • Tomatoes • Anise • Caraway seeds |
| <i>Small-size Exports</i> | 46 | Parts for spray dispersers • Video apparatus • Aluminum tubes and pipe • Vitamins • Penicillin • Hydrogen peroxide • Insecticides • Dates • Melons • Oil seeds • Bovine animal • Leguminous vegetables |
| <i>Emerging Exports</i> | 22 | Medicaments • Hop extract • Rugs • Animal hair • Marble • Polypropylene • Diesel engine parts • Propeller engines • Cargo containers • Maize • Palm oil |

Note: Large-size exports (LS) = LS > US\$ 4,500,000; Medium-size exports (MS): \$1,500,000 < MS < \$4,500,000; Small-size exports (SS): \$750,000 < SS < \$1,500,000; Emerging exports: \$200,000 < MS < \$400,000.

| INDIA | <i>Index of Trade Complementarity</i> | <i>Examples of Indian exports in category</i> |
|----------------------------|---------------------------------------|---|
| <i>Large-size Exports</i> | 64 | Non-crude oils • diamonds, jewelry • iron ore • copper • medicines • garments • rice • cotton • frozen bovine • frozen shrimps • polypropylene • car parts |
| <i>Medium-size Exports</i> | 51 | Gold • aluminum • manganese • chromium • steel • p-xylene • granite • cashews • cotton yarn • sugar • maize • tea • insecticides • benzene • garments |
| <i>Small-size Exports</i> | 60 | Nylon • yarn • footwear • leather apparel • furnishings • pigments • tobacco • telephone line • tires • valves • granite • aluminum oxide • zinc • coffee |
| <i>Emerging Exports</i> | 59 | Iron or steel products • pig iron • stainless steel bar • metal scrap • boots • scarves • handbag • pesticides • dump trucks • cargo vessels • wood furniture |

Note: Large-size exports (LS) = US\$ 1,000,000,000 > LS; Medium-size exports (MS): \$650,000,000 < MS < \$1,000,000,000; Small-size exports (SS): \$450,000,000 < SS < \$650,000,000; Emerging exports: \$350,000,000 < MS < \$450,000,000.

| PAKISTAN | <i>Index of Trade Complementarity</i> | <i>Examples of Afghanistan exports in category</i> |
|----------------------------|---------------------------------------|--|
| <i>Large-size Exports</i> | 32 | Non-crude oils • cement • polyethylene • jewelry • linens • garments • leather apparel • medical instruments • sugar • wheat • rice • cotton • cotton yarn |
| <i>Medium-size Exports</i> | 48 | Cotton yarn • wheat • fats and oils • leathers • leather gloves • carpets • weave cotton • hosiery • inflatable balls • alcohol • clementine • chromium ores |
| <i>Small-size Exports</i> | 26 | Iron or steel structures • garments • bovine leather • ethyl alcohol • cotton yarn • knitting pullovers • footwear • sheep or lamb skin leather • potatoes • dates |
| <i>Emerging Exports</i> | 28 | Sport equipment for swimming • polystyrene • natural steatite • plain weave cotton • hosiery • curtains • maize except seed corn • frozen shrimps |

Note: Large-size exports (LS) = US\$ \$200,000,000 > LS.; Medium-size exports (MS): \$100,000,000 < MS < \$200,000,000; Small-size exports (SS): \$55,00,000 < SS < \$100,000,000; Emerging exports: \$40,000,000 < MS < \$55,000,000.

| KAZAKHSTAN | <i>Index of Trade Complementarity</i> | <i>Examples of Indian exports in category</i> |
|----------------------------|---------------------------------------|--|
| <i>Large-size Exports</i> | 23 | Crude oils • copper • natural gas • iron ore • propane, liquefied • zinc • silver • gold • aluminum • butanes • chromium ores • lead refined |
| <i>Medium-size Exports</i> | 33 | Bituminous coal • concentrates zinc ores • phosphorus • titanium • petroleum gases • wire of refined copper • digital computers • linseed • barley |
| <i>Small-size Exports</i> | 41 | Quartzite • asbestos • electrical energy • petroleum bitumen • tantalum • tugs and pusher craft • lignite • zinc • frozen fish fillets • durum wheat |
| <i>Emerging Exports</i> | 38 | Ammonium nitrate • bituminous • color television • natural barium sulfate • pipe-line • beverage • rice • sugar • bovine • chocolate • cotton-seed oil crude |

Note: Large-size exports (LS) = US\$ 250,000,000 > LS; Medium-size exports (MS): \$65,000,000 < MS < \$250,000,000; Small-size exports (SS): \$30,000,000 < SS < \$65,000,000; Emerging exports: \$15,000,000 < MS < \$30,000,000.

| KYRGYZSTAN | <i>Index of Trade Complementarity</i> | <i>Examples of Afghanistan exports in category</i> |
|----------------------------|---------------------------------------|---|
| <i>Large-size Exports</i> | 22.78791311 | Gold • none crude oil • Portland cement • automobiles, spark ignition engine of 1500-3000 cc • float glass • garments • tobacco • potatoes • kidney beans |
| <i>Medium-size Exports</i> | 38.64154841 | Electric instrument part • motor vehicle parts • worked calcareous stone • copper • polyvinyl chloride • carrots • apricots • walnuts • milk powder |
| <i>Small-size Exports</i> | 47.92981465 | Hot rolled iron • silver • dump trucks • articles of cement • packing plastic article • transmissions for motor vehicles • ice cream • butter |
| <i>Emerging Exports</i> | 32.75804847 | Engines, diesel except motor vehicle/marine • glass containers • limestone materials • jewelry • ammonium nitrate • coal • grapes • tomatoes |

Note: Large-size exports (LS) = US\$ 8,000,000 > LS; Medium-size exports (MS): \$4,000,000 < MS < \$8,000,000; Small-size exports (SS): \$2,500,000 < SS < \$4,000,000; Emerging exports: \$1,700,000 < MS < \$2,500,000.

| TAJIKISTAN | <i>Index of Trade Complementarity</i> | <i>Examples of Indian exports in category</i> |
|----------------------------|---------------------------------------|--|
| <i>Large-size Exports</i> | 18.05188046 | Aluminum • parts of gas turbine engines except turbo-jet/prop • lead • copper • none crude oil • frozen fish fillets • bovine leather • walnuts • prunes |
| <i>Medium-size Exports</i> | 30.30999244 | Wire, aluminum • cotton yarn • footwear • medicaments in dosage • precious stones • frozen sardines, brisling, sprats • rice • carrots |
| <i>Small-size Exports</i> | 52.69622242 | Threaded fittings, iron • natural gas • cast glass sheet • non-medical x-ray equipment • rubies not set • garments • kidney beans |
| <i>Emerging Exports</i> | 54.94548233 | Radio receivers • electrical energy • telephonic apparatus • antiques older than one hundred years • raw silk • plants pharmacy use |

Note: Large-size exports (LS) = US\$ 2,500,000 > LS; Medium-size exports (MS): \$1,000,000 < MS < \$2,500,000; Small-size exports (SS): \$600,000 < SS < \$1,000,000; Emerging exports: \$400,000 < MS < \$600,000.

| TURKMENISTAN | <i>Index of Trade Complementarity</i> | <i>Examples of Afghanistan exports in category</i> |
|----------------------------|---------------------------------------|--|
| <i>Large-size Exports</i> | 20.95852784 | Natural gas • none crude oil • gold • garments • polypropylene • kitchen linen • electrical energy • sulfur • liquor ice extract |
| <i>Medium-size Exports</i> | 50.02261142 | Petroleum coke • propane • aluminum • mineral waxes • woven cotton • knit fabric of cotton • plants pharmacy use • bovine hide |
| <i>Small-size Exports</i> | 44.44647451 | Automatic electric plasma • diesel powered trucks • butanes • lead • yarn of polyester • coarse animal hair • grapes • tomatoes |
| <i>Emerging Exports</i> | 13.88093397 | Special purpose motor vehicles • mobile cranes • antiques • acid oils from refining • chocolate • raw silk • cotton yarn |

Note: Large-size exports (LS) = US\$ 7,000,000 > LS; Medium-size exports (MS): \$1,800,000 < MS < \$7,000,000; Small-size exports (SS): \$900,000 < SS < \$1,800,000; Emerging exports: \$500,000 < MS < \$900,000.

| UZBEKISTAN | <i>Index of Trade Complementarity</i> | <i>Examples of Indian exports in category</i> |
|----------------------------|---------------------------------------|---|
| <i>Large-size Exports</i> | 32.637604 | Electric conductors • automobiles • gold unwrought forms • none crude oil • copper cathodes • cotton yarn • grapes • melons |
| <i>Medium-size Exports</i> | 47.7467293 | Silver unwrought forms • liquid dielectric transformers • potassium chloride • pullovers knit • carpets • grapes • peaches • apricots |
| <i>Small-size Exports</i> | 24.94695267 | Engines over 1000 cc • polyethylene • uranium • mixtures nuts • babies garments • plants pharmacy use • apple juice |
| <i>Emerging Exports</i> | 45.39404611 | Aluminum • petroleum coke • auto wheels • plaster board • brooms • ground-nuts • apricots • carrots • peppers • preserved vegetables |

Note: Large-size exports (LS) = US\$ 40,000,000 > LS; Medium-size exports (MS): \$15,000,000 < MS < \$40,000,000; Small-size exports (SS): \$8,000,000 < SS < \$15,000,000; Emerging exports: \$5,000,000 < MS < \$8,000,000.

Source: Derived from data in United Nations, COMTRADE database.

B. Matching Top Product Export with Top Regional Imports

A second way to measure export opportunities is to examine whether countries are exporting the types of products most demanded by consumers and manufacturers in the Central and South Asia markets. Table 6.4 shows a mapping of the two regions' top 1000 imported products with the top 1000 most important exports of each country in the region in 2010-2013 for all products defined at the 6-digit HS level. For example, there are 434 products that are among Afghanistan's 1000 most important exports that matched the top 1000 imports of the Central and South Asia market. On average, the countries in the region have 485 products that match the top 1000 imports of the two regions, ranging from a low of 414 products of Pakistan to a high of 792 products of India. With the exception of India, however, the number of exports matching those top regional imports had a fairly narrow range of between 414 (Pakistan) to 480 (Kazakhstan).

The sectors having the largest number of products matching the top regional imports and top exports of each country in the region are machinery and electronic equipment (averaging 114 exported products by countries in the region), followed by textiles (75 exported products), base metals (50 products), chemical products (42 products), and animal and vegetable products (37

Table 6.4: Number of Matches between Top 1000 Import of Central and South Asia Regions and 1000 Top Product Exports of Each Country in the Regions in 2010-2013

| HS SECTION | AND DESCRIPTION | AFGHANISTAN | INDIA | PAKISTAN | KAZAKHSTAN | KYRGYZSTAN | TAJIKISTAN | TURKMENISTAN | UZBEKISTAN |
|--------------|------------------------|-------------|------------|------------|------------|------------|------------|--------------|------------|
| 1+2 | Animal and vegetable | 38 | 50 | 47 | 35 | 32 | 39 | 19 | 33 |
| 3 | Fats and oils | 4 | 5 | 2 | 6 | 2 | 2 | 3 | 1 |
| 4 | Prepared foods | 14 | 28 | 25 | 24 | 25 | 16 | 11 | 17 |
| 5 | Mineral products | 12 | 32 | 9 | 26 | 10 | 12 | 18 | 12 |
| 6 | Chemical products | 33 | 120 | 32 | 37 | 25 | 33 | 19 | 40 |
| 7 | Plastics and rubber | 28 | 44 | 27 | 27 | 32 | 34 | 20 | 26 |
| 8 | Leather & its products | 4 | 13 | 13 | 5 | 3 | 5 | 7 | 4 |
| 9 | Wood & its products | 4 | 1 | 3 | 1 | 4 | 1 | 2 | 6 |
| 10 | Pulp and paper | 9 | 13 | 6 | 7 | 9 | 7 | 7 | 9 |
| 11 | Textiles | 39 | 132 | 103 | 24 | 62 | 77 | 95 | 72 |
| 12 | Footwear | 2 | 10 | 11 | 8 | 9 | 12 | 6 | 8 |
| 13 | Cement & similar prod. | 8 | 12 | 6 | 5 | 8 | 4 | 7 | 8 |
| 14 | Semi-precious stones | 7 | 15 | 2 | 4 | 5 | 8 | 7 | 5 |
| 15 | Base metals | 44 | 98 | 31 | 78 | 45 | 34 | 39 | 37 |
| 16 | Machinery & equip. | 130 | 149 | 59 | 131 | 110 | 117 | 111 | 103 |
| 17 | Transport equipment | 35 | 39 | 23 | 42 | 40 | 30 | 33 | 33 |
| 18 | Measuring instruments | 13 | 16 | 8 | 12 | 9 | 13 | 12 | 13 |
| 19 | Arms & ammunition | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20 | Misc. manufactures | 6 | 11 | 6 | 6 | 10 | 9 | 12 | 10 |
| 21 | Work of Art | 4 | 4 | 1 | 2 | 1 | 1 | 4 | 3 |
| TOTAL | | 434 | 792 | 414 | 480 | 441 | 454 | 432 | 440 |

Source: Derived from data in United Nations, COMTRADE database.

exported products). Other sectors having a significantly large number of product exports matching the top regional imports are transport equipment, plastics and rubber, prepared foods, and various types of measuring instruments for optical, photographic, cinematographic, time-keeping and medical uses.

C. Matching Product Exports to Dynamic Regional Markets

The third way to measure export opportunities to the Central and South Asia market is to examine whether the region's countries' exports have been directed at dynamic product markets and, if so, whether exporters have been expanding their activities in those markets. The potential growth of firms and industries in the Central and South Asia market are reflected in high rates of export growth and rising market shares. This type of analysis is suggestive of the actual or potential penetration into dynamic markets for the region's exporters.⁵²

The Central and South Asian countries' export growth in different types of product markets in the region has been measured by the trend growth rate of product exports in the four product categories (large, medium, small, and emerging exports), and the ratio of product exports relative to Central and South Asia imports of those products. The export performance of each of the countries has been classified into the following four categories:

- ◆ *Exploited Market Opportunities*: Products in which a country has a rising market share and Central and South Asia imports are expanding.
- ◆ *Increased Penetration in Stagnating Markets*: Products in which a country has a rising market share but Central and South Asia imports are contracting.
- ◆ *Missed Markets Opportunities*: Products in which a country has a falling market share despite expanding Central and South Asia imports.
- ◆ *Reduced Penetration in Stagnating Markets*: Products in which a country's market share is falling and the Central and South Asia market is contracting.

The most desirable situation is for exporters to be involved in either *exploited market opportunities*, where their products have made headway into dynamic markets, or *missed market opportunities*, where there is strong export growth potential if they improve their competitiveness and satisfy market access requirements.

1. Regional Import Growth

Table 6.5 shows the average annual growth rates of Central and South Asia imports in the 21 HS section categories for the last ten years for which data are available across all countries and products (2004-2013). The following are some of the important highlights of the results:

⁵² The methodology was developed by the United Nations Economic Commission for Latin America (ECLAC) and applied to its Competitiveness Analysis of Nations (TradeCAN) software. Available: <http://www.cepal.org/cgi-bin/getprod.asp?xml=/ddpe/noticias/paginas/9/13779/P13779.xml&xsl=/ddpe/tpl/p18f.xsl&base=/ddpe/tpl-i/top-bottomudit.xsl>.

- The fastest rising import categories are works of art, fats and oils, prepared foods, footwear, and animals and vegetables in their basic forms.
- The categories with below average growth rates are leather and its products, cement, chemical products, and pulp and paper.
- In general, processed goods and manufactures (HS III, V, VI-VIII, X-XIV, XVI, XXI) have performed better than primary commodity products, which are made up of agricultural products and minerals (HS I-II, IX, XV).

2. Matching Exports to Dynamic Markets

Among the countries' emerging exports, machinery parts are the predominant type of products with rapidly growing Central and South Asia markets where the regions' countries producers have increased their penetration. Among the rapidly growing markets where the region's countries exporters have lost market shares because of sluggish exports are fresh and processed fish and foods, footwear, jewelry, and bicycle and motorcycle parts. In contrast, exports have grown rapidly in markets with relatively slow or stagnant Central and South Asia markets, notably fresh animal products, rubber articles, and low-tech machinery and electronic products. Finally, stagnant Central and South Asia markets with slow-growing the region's exports include fresh and chilled fish, cement, plastics and paper.

Among medium-size exports, processed foods, chemicals, textiles and machinery and electronic equipment have high-growth Central and South Asia markets, where the regions' country exporters have increased their market penetration. Other fast-growing Central and South Asia markets where the regions' exporters have failed to increased their market shares are cocoa products (processed foods); acyclic alcohols, soaps and amino-compounds (chemicals), plastic containers (plastics); t-shirts; electric motors and generators and television and radio parts (electronics); and seats (furniture). The region's exporters have increased rapidly in a number of slow or stagnant Central and South Asia markets: prepared crustaceans and mollusks, cigars and cigarettes, plastic plates, footwear with uppers of textiles, electric transformers and accumulators, radios and electrical switches. In other stagnating markets like those of finished clothing, batteries, low-tech audio equipment, and plastics, the regions' exporters have reduced their market shares.

Table 6.5: Average Annual Growth Rate of Central and South Asia Imports, by HS Section, 2010-2013

| HS SECTION | | PERCENT |
|------------|------------------------|---------|
| 1+2 | Animal and vegetable | 24.5% |
| 3 | Fats and oils | 29.5% |
| 4 | Prepared foods | 29.1% |
| 5 | Mineral products | 17.4% |
| 6 | Chemical products | 7.1% |
| 7 | Plastics and rubber | 8.8% |
| 8 | Leather & its products | 8.0% |
| 9 | Wood & its products | 14.8% |
| 10 | Pulp and paper | 4.7% |
| 11 | Textiles | 17.1% |
| 12 | Footwear | 28.9% |
| 13 | Cement & similar prod. | 7.5% |
| 14 | Semi-precious stones | 8.2% |
| 15 | Base metals | 10.6% |
| 16 | Machinery & equip. | 10.2% |
| 17 | Transport equipment | 16.0% |
| 18 | Measuring instruments | 9.3% |
| 19 | Arms & ammunition | 20.6% |
| 20 | Misc manufactures | 6.6% |
| 21 | Work of Art | 39.7% |
| AVERAGE | | 15.9% |

Source: Derived from data in UN, COMTRADE database.

Figure 6.2: Matching High-Growth Exports with Dynamic Regional Imports, 2004-2013

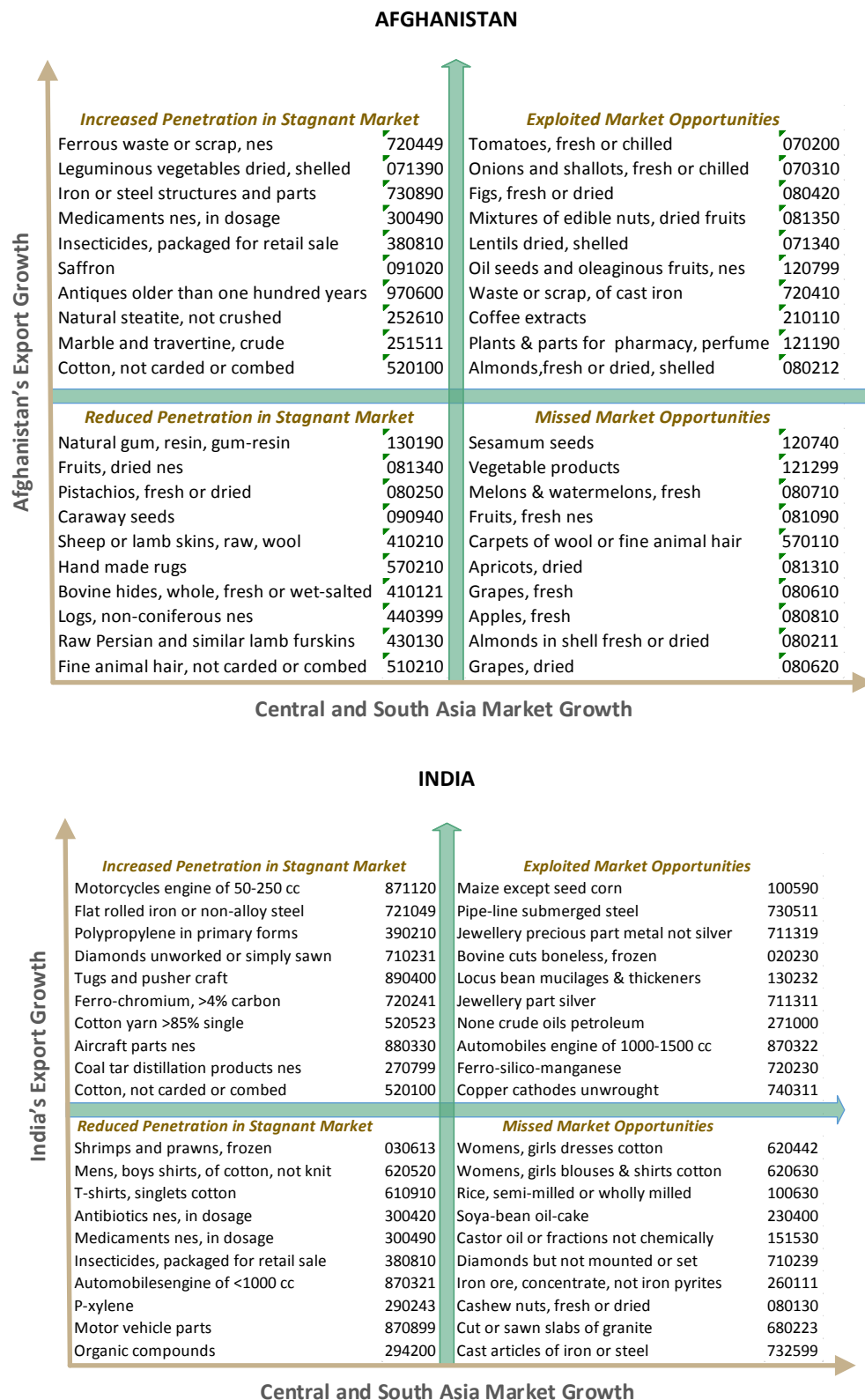


Figure 6.2: Matching High-Growth Exports with Dynamic Regional Imports, 2004-2013 (Continued)

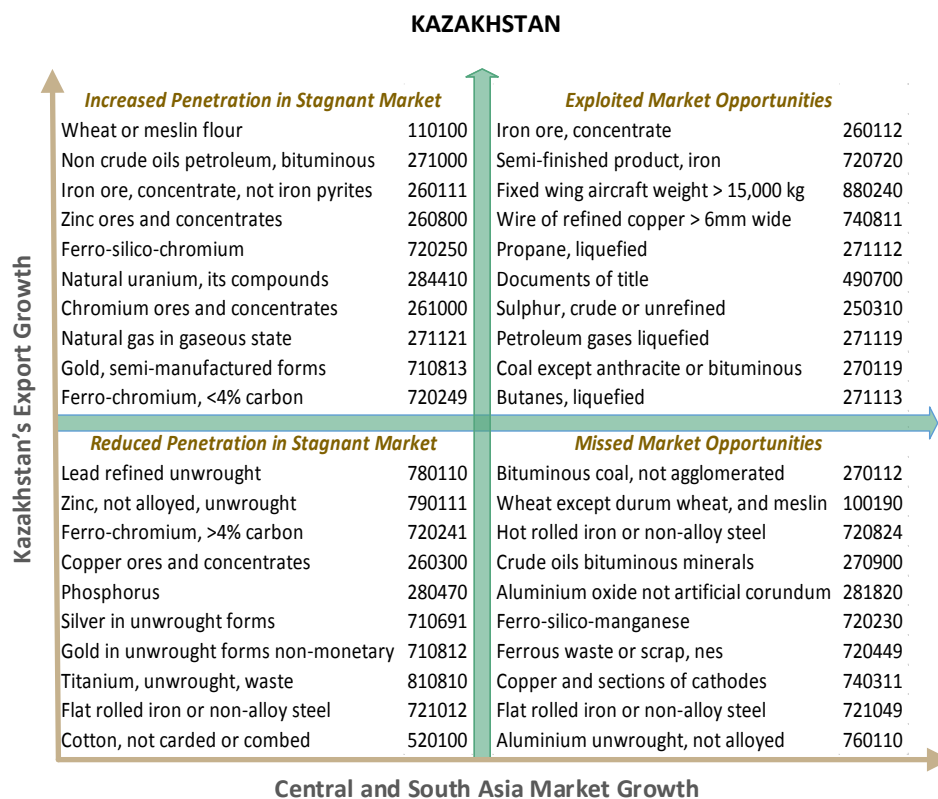
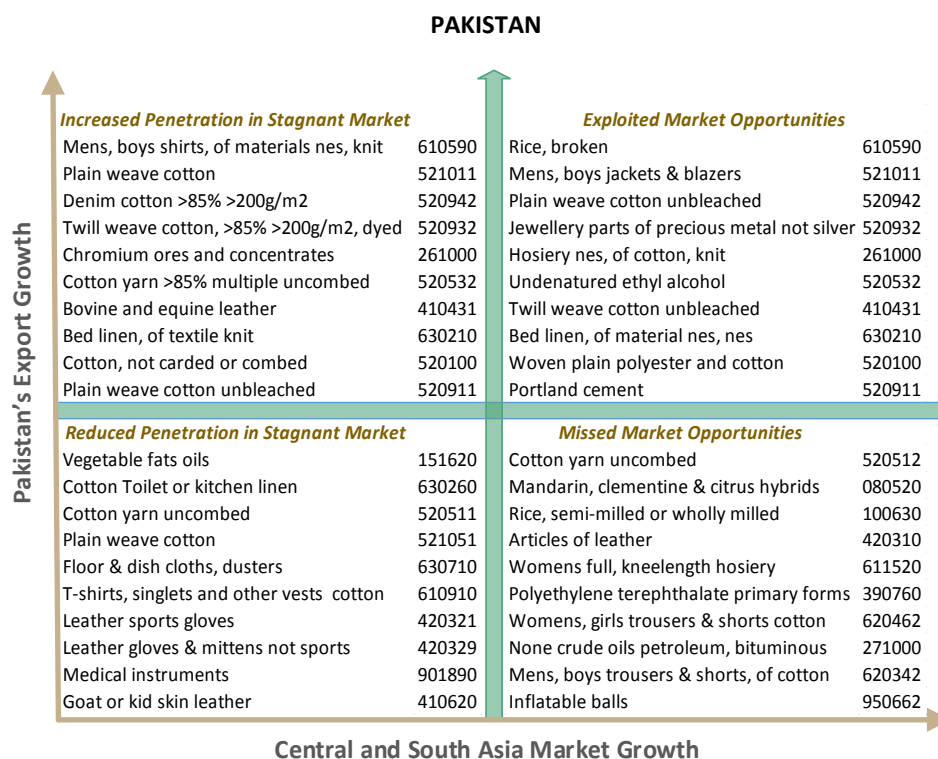
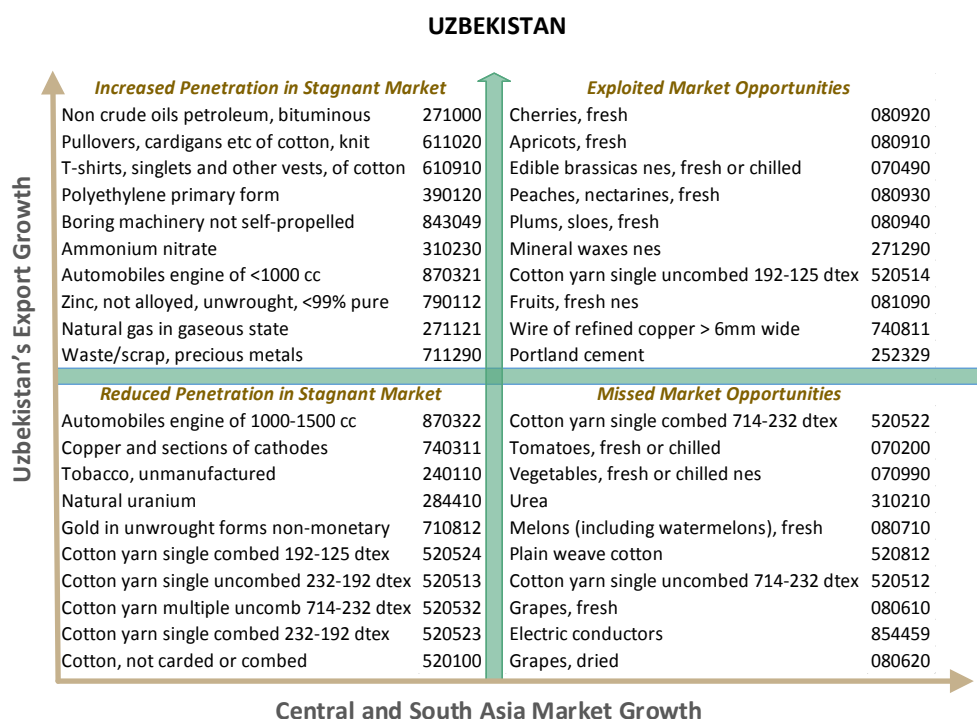
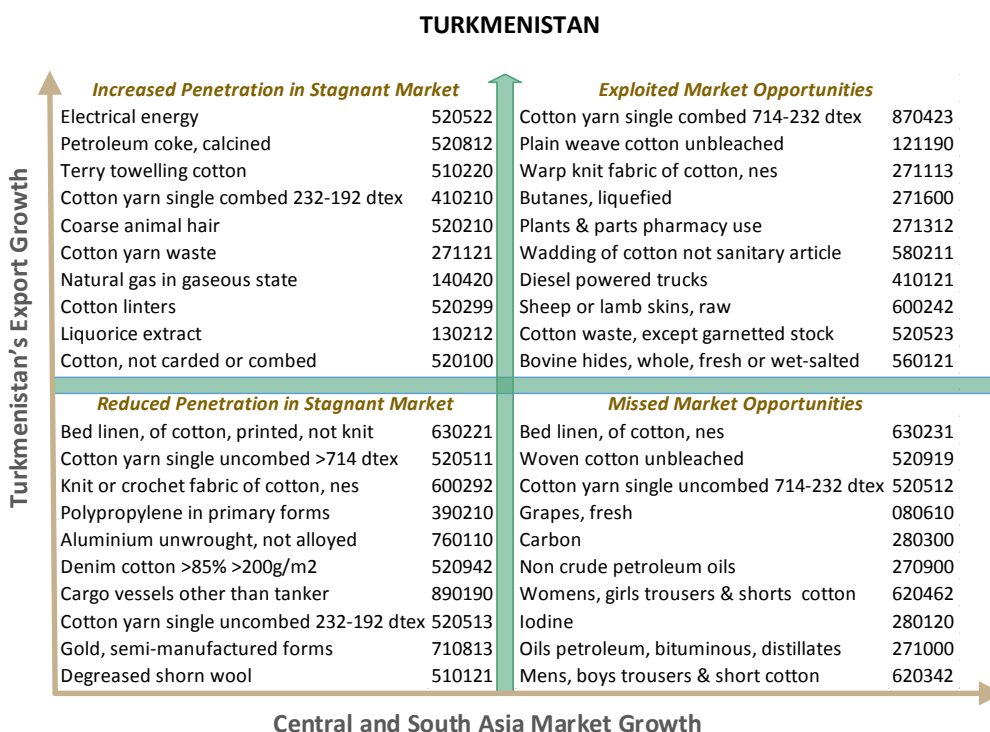


Figure 6.2: Matching High-Growth Exports with Dynamic Regional Imports, 2004-2013 (Continued)

| KYRGYZSTAN | | | | |
|--------------------------------------|--|--------|--|--------|
| Kyrgyzstan's Export Growth | Increased Penetration in Stagnant Market | | Exploited Market Opportunities | |
| | Milk powder < 1.5% fat | 040210 | Cherries, fresh | 080920 |
| | Transmissions for motor vehicles | 870840 | Apricots, fresh | 080910 |
| | Dump trucks | 870410 | Edible brassicas nes, fresh or chilled | 070490 |
| | Beverage waters, sweetened | 220210 | Peaches, nectarines, fresh | 080930 |
| | Copper/copper alloy waste or scrap | 740400 | Onions and shallots, fresh or chilled | 070310 |
| | Automobiles engine of 1500-3000 cc | 870323 | Hosiery nes, of cotton, knit | 611592 |
| | Bovine meat prepared/preserve | 160250 | Womens, girls dresses, synthetic fibres | 620443 |
| | Automobiles engine of >3000 cc | 870324 | Portland cement | 252329 |
| | Cartons, boxes & cases, folding | 481920 | Womens, girls skirts, synthetic fibres | 620453 |
| | Articles of cement | 681099 | Apples, fresh | 080810 |
| | Reduced Penetration in Stagnant Market | | Missed Market Opportunities | |
| | Tobacco, unmanufactured, not stemmed | 240110 | Carrots and turnips, fresh or chilled | 070610 |
| | Hot rolled iron or non-alloy steel | 720842 | Walnuts, fresh or dried, shelled | 080232 |
| | Plastic carboys, bottles and flasks | 392330 | Womens, girls trousers, shorts | 620463 |
| | Silver in unwrought forms | 710691 | Mens, boys trousers shorts | 620343 |
| | Gold in unwrought forms non-monetary | 710812 | Milk not concentrated nor sweetened | 040120 |
| | Electrical energy | 271600 | Kidney beans dried shelled | 071333 |
| | Paper cartons, boxes & cases | 481910 | Non crude oils petroleum, bituminous | 271000 |
| | Motor vehicle parts nes | 870899 | Butter and other fats from milk | 040500 |
| | Filament lamps, except ultraviolet | 853929 | Ferrous waste or scrap, nes | 720449 |
| | Filament lamps <= 200 Watt, > 100 volts | 853922 | Radiators for motor vehicles | 870891 |
| Central and South Asia Market Growth | | | | |
| TAJIKISTAN | | | | |
| Tajikistan's Export Growth | Increased Penetration in Stagnant Market | | Exploited Market Opportunities | |
| | Wire, aluminium, not alloyed, t > 7mm | 760511 | Apricots, fresh | 080910 |
| | Wire, aluminium alloy, t < 7mm | 760529 | Apples, dried | 081330 |
| | Bovine hides, whole, fresh or wet-salted | 410121 | Cotton yarn single combed 714-232 dtex | 520522 |
| | Lead ores and concentrates | 260700 | Fish fillets, frozen | 030420 |
| | Gold in unwrought forms non-monetary | 710812 | Onions and shallots, fresh or chilled | 070310 |
| | Cotton yarn single combed 192-125 dtex | 520524 | Rice, semi-milled or wholly milled | 100630 |
| | Cotton yarn single combed 232-192 dtex | 520523 | Grapes, fresh | 080610 |
| | Liquorice extract | 130212 | Wheat or meslin flour | 110100 |
| | Antimony ores and concentrates | 261710 | Footwear leather, strap instep | 640320 |
| | Alkyd resins, in primary forms | 390750 | Chocolate/cocoa food preparations | 180690 |
| | Reduced Penetration in Stagnant Market | | Missed Market Opportunities | |
| | Grapes, dried | 080620 | Walnuts, fresh or dried, shelled | 080232 |
| | Mens, boys trousers & shorts cotton | 620342 | Plain weave cotton, >85% 100-200g/m2 | 520812 |
| | Fruits, dried nes | 081340 | Mixtures of edible nuts preserved fruits | 081350 |
| | Mens, boys garments cotton | 621132 | Fruits, fresh nes | 081090 |
| | Aluminium unwrought, alloyed | 760120 | Cotton yarn single uncombed 714-232 dtex | 520512 |
| | Aluminium unwrought, not alloyed | 760110 | Ground-nuts shelled, not roasted | 120220 |
| | Polyethylene primary form | 390120 | Prunes, dried | 081320 |
| | Copper ores and concentrates | 260300 | Apricots, dried | 081310 |
| | Monoculars, telescopes | 900580 | Ground-nuts in shell not roasted | 120210 |
| | Cotton, not carded or combed | 520100 | Kidney beans dried shelled | 071333 |
| Central and South Asia Market Growth | | | | |

Figure 6.2: Matching High-Growth Exports with Dynamic Regional Imports, 2004-2013 (Continued)



Source: Derived from data in United Nations, COMTRADE database.

Among large-size exports, parts for motor vehicles, refined copper and nickel metallurgy, tires, copper ore and concentrates, and palm oil have fast-growing Central and South Asia markets, where the regions' exports have also expanded rapidly. In contrast, the regions' exports have been sluggish in the fast-growing markets for furniture, motor vehicles, unprocessed crustaceans, coffee, plywood, footwear with leather uppers. Exports have, however, expanded rapidly in several slow-growing or stagnant Central and South Asia markets: margarine and fatty acids (animal and vegetable fats); cocoa beans; nickel ores; ammonia (chemicals); iron rods and copper wire (minerals); and wire insulation.

The pattern that emerges is one in which certain sectors like prepared foods, high-tech machinery and electronic equipment, and transportation equipment have strong growth markets, while other markets are mixed. In those markets without a clear sector-wide growth pattern, there exist strong markets for some furniture, different types of footwear, certain chemical products, and jewelry. In general, primary commodities have less dynamic markets than processed goods, as for example in the case of unprocessed fruits and vegetables versus processed food products, unprocessed versus processed metals, minerals and chemicals, and lumber and unfinished wood versus wood products and furniture.

D. Ratings

Table 6.6 shows the scores assigned to export complementarity, mapping exports to regional imports and matching exports to high growth rate markets, based on the evaluation methodology described in Chapter 3 and the analysis of the topics in this chapter.

Table 6.6. Summary Assessment of Trade Complementarities

| | | Strongly Discourages | Discourages | Neither | Supports | Strongly Supports |
|--|--------------|-------------------------|-------------|---------|----------|----------------------|
| A. The compatibility of exports with regional imports promotes regional trade | | | | | | |
| 1 | Kazakhstan | 1 | 2 | 3 | 4 | 5 |
| 2 | Kyrgyzstan | 1 | 2 | 3 | 4 | 5 |
| 3 | Tajikistan | 1 | 2 | 3 | 4 | 5 |
| 4 | Turkmenistan | 1 | 2 | 3 | 4 | 5 |
| 5 | Uzbekistan | 1 | 2 | 3 | 4 | 5 |
| 6 | Afghanistan | 1 | 2 | 3 | 4 | 5 |
| 7 | India | 1 | 2 | 3 | 4 | 5 |
| 8 | Pakistan | 1 | 2 | 3 | 4 | 5 |
| B. The number of exported products matching the top regional imports promotes inter- and intra-regional trade expansion | | | | | | |
| 1 | Kazakhstan | 1 | 2 | 3 | 4 | 5 |
| 2 | Kyrgyzstan | 1 | 2 | 3 | 4 | 5 |
| 3 | Tajikistan | 1 | 2 | 3 | 4 | 5 |
| 4 | Turkmenistan | 1 | 2 | 3 | 4 | 5 |

| | | | | | | |
|--|--------------|---|---|---|---|---|
| 5 | Uzbekistan | 1 | 2 | 3 | 4 | 5 |
| 6 | Afghanistan | 1 | 2 | 3 | 4 | 5 |
| 7 | India | 1 | 2 | 3 | 4 | 5 |
| 8 | Pakistan | 1 | 2 | 3 | 4 | 5 |
| A. Products with high export growth rates match those regional imports with high growth rates | | | | | | |
| 1 | Kazakhstan | 1 | 2 | 3 | 4 | 5 |
| 2 | Kyrgyzstan | 1 | 2 | 3 | 4 | 5 |
| 3 | Tajikistan | 1 | 2 | 3 | 4 | 5 |
| 4 | Turkmenistan | 1 | 2 | 3 | 4 | 5 |
| 5 | Uzbekistan | 1 | 2 | 3 | 4 | 5 |
| 6 | Afghanistan | 1 | 2 | 3 | 4 | 5 |
| 7 | India | 1 | 2 | 3 | 4 | 5 |
| 8 | Pakistan | 1 | 2 | 3 | 4 | 5 |

VII. INTRA-INDUSTRY TRADE

A. Country Similarity and Two-Way Trade

Traditional comparative advantage deals with specialization in trade of homogeneous goods, produced in a setting of perfect competition and traded on the basis of differences in factor endowments and production technologies between trading partners. Yet a large portion of trade, especially between advanced economies, occurs through two-way trade of goods produced in the same industry. That kind of intra-industry trade occurs under conditions of imperfect competition with product differentiation, and it is measured by the amount of simultaneous export and import of goods produced within the same industry by trading partners (see Box 7.1). Two types of intra-industry trade occur under quite different circumstances. The first is characterized by horizontally differentiated products as a result of consumer demand for variety in the types of goods that they buy.⁵³ The other occurs because of economies of scale in the production and trade of vertically differentiated products.⁵⁴

Empirical evidence points to the fact that intra-industry trade is more conducive to economic growth than inter-industry trade, which tends to take place between countries with similar factor endowments that, in turn, permits them to exploit economies of scale.⁵⁵ In a regional trading environment like that of Central and South Asia, trade gives rise to the transfer of technology between countries in the geographic area, which in turn can lead to greater intra-industry trade and economic convergence. Given the fact that there is a positive correlation between GDP growth and intensity of intra-industry trade, the landlocked and least developed countries in Central and South Asia like Afghanistan stand to benefit from increased connectivity and networking with the more developed countries in those region in order to facilitate intra- and inter-regional trade and cross-border investments.

The degree of convergence between economies is measured by index of similarity used by Helpman to measure two-way trade between countries in an industry (see Box 7.1 for a formal definition). For Central and South Asia, Tables 7.1 and 7.2 show the degree of economic similarity based on two alternative measures. The first table defines similarities between countries in terms of their economic size, calculated on the basis of gross national income in billions of current U.S. dollars in 2013. The second table uses 2013 per capital income in U.S. dollars to determine country similarities.

⁵³ M. Lord (1991), *Imperfect Competition and International Commodity Trade*. Oxford: Clarendon Press. Available: http://books.google.co.th/books/about/Imperfect_competition_and_international.html?id=wXaLAAAAIAAJ&redir_esc=y.

⁵⁴ M. Lord (1997), "Trade, Investment and Trade in Financial Services." In *Brunei-Darussalam, Indonesia, Malaysia, Philippines - East Asia Growth Area*. Vol. II. Manila: Asian Development Bank. Available: <http://www.adb.org/publications>.

⁵⁵ E. Helpman (1987), "Imperfect Competition and International Trade: Evidence from Fourteen Industrial Countries". *Journal of Japanese and International Economics* 1, pages 62-81. Available: <https://ideas.repec.org/a/eee/jjieco/v1y1987i1p62-81.html>.

Box 7.1. Measuring Intra-Industry Trade and Country Similarities

The *Similarity Index (SI)* between two countries is defined as follows:

$$SI_{ik} = 100 * \left\{ 1 - \left[\frac{GDP_i}{(GDP_i + GDP_k)} \right]^2 - \left[\frac{GDP_k}{(GDP_i + GDP_k)} \right]^2 \right\} * 2 \quad \dots(7.1)$$

where GDP is measured in real terms. The value of SI approaches 100 for countries that are similar, and it approaches 0 for countries that lack similarity.

The *Intra-Industry Trade Index (IIT)* for country *i* in product *j* with trading partner *k* is formally defined as follows:

$$IIT_{ijk} = 100 * \left[1 - \frac{|X_{ijk} - M_{ijk}|}{(X_{ijk} + M_{ijk})} \right] \quad \dots(7.2)$$

where *x* is the value of exports of product *j* from reporter country *i*, in its trade with partner country *k*, and *M* is country *i*'s imports of product *j* from partner trading country *k*. The value of *IIT* measures intra-industry trade between two countries as a percentage of their total trade in industry *i*. If the *IIT* index is zero, it means that there is an absence of intra-industry trade, so that either exports or imports of that industry are equal to zero. If *IIT* is equal close to 100, then the country both imports and exports products in an industry. Hence, rising values of *IIT* are consistent with convergence of industrial structures between trading partners.

The two approaches produce considerably different results. In the case of country similarities based on country size, Table 7.1 shows relatively few close matches between countries in the two regions. Where they do exist, they are represented by high similarity indices between Afghanistan and Turkmenistan; between Kazakhstan and Pakistan; between Kyrgyzstan and Tajikistan; and between Turkmenistan and Uzbekistan. Lesser, yet nonetheless significantly high, similarities exist between Afghanistan and Kyrgyzstan; Afghanistan and Tajikistan; Afghanistan and Uzbekistan; and Kazakhstan and Uzbekistan.

In contrast, the calculation of similarity indices based on per capita income in Table 7.2 finds many similarities between countries in the two regions. There are 13 pairs of countries that have similarity indices greater than 90, and another two having similarity indices between 80 and 90.

Table 7.1: Similarity Indices of Central and South Asian Exports Based on Size of Gross National Income

| | Income | Similarity Index (SI) | | | | | | | |
|--------------|---------|-----------------------|-------|----------|------------|------------|------------|--------------|------------|
| | | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan |
| Afghanistan | 21.5 | | 4.3 | 29.1 | 36.0 | 73.5 | 79.5 | 93.6 | 79.3 |
| India | 1,960.1 | 4.3 | | 40.3 | 32.8 | 1.4 | 1.6 | 7.1 | 11.1 |
| Pakistan | 251.0 | 29.1 | 40.3 | | 98.3 | 10.4 | 12.1 | 43.9 | 60.6 |
| Kazakhstan | 193.8 | 36.0 | 32.8 | 98.3 | | 13.2 | 15.4 | 52.9 | 70.5 |
| Kyrgyzstan | 6.9 | 73.5 | 1.4 | 10.4 | 26.5 | | 99.3 | 53.8 | 38.2 |
| Tajikistan | 8.1 | 79.5 | 2.5 | 12.1 | 15.4 | 99.3 | | 59.9 | 43.3 |
| Turkmenistan | 36.1 | 93.6 | 7.1 | 43.9 | 52.9 | 53.8 | 59.9 | | 94.8 |
| Uzbekistan | 57.4 | 79.3 | 11.1 | 60.6 | 70.5 | 38.2 | 43.3 | 94.8 | |

Note: Per capita income is measured by gross national income (GNI) in billions of current US\$ in 2013.

Source: World Bank online database. Available: <http://data.worldbank.org/indicator/NY.GNP.ATLS.CD>.

Table 7.2: Similarity Indices of Central and South Asian Exports Based on Per Capita Income

| | Per Capita Income (US\$) | Similarity Index (SI) | | | | | | | |
|--------------|--------------------------|-----------------------|-------|----------|------------|------------|------------|--------------|------------|
| | | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan |
| Afghanistan | \$ 704 | | 85.6 | 89.5 | 21.9 | 93.1 | 97.2 | 33.7 | 78.9 |
| India | \$ 1,565 | 85.6 | | 99.6 | 42.5 | 98.3 | 94.9 | 60.4 | 99.1 |
| Pakistan | \$ 1,378 | 89.5 | 99.6 | | 38.5 | 99.5 | 97.3 | 55.6 | 97.5 |
| Kazakhstan | \$ 11,376 | 21.9 | 42.5 | 38.5 | | 34.6 | 29.4 | 93.9 | 49.0 |
| Kyrgyzstan | \$ 1,203 | 93.1 | 98.3 | 99.5 | 34.6 | | 99.0 | 50.7 | 95.0 |
| Tajikistan | \$ 987 | 97.2 | 94.9 | 97.3 | 29.4 | 99.0 | | 43.9 | 90.0 |
| Turkmenistan | \$ 6,880 | 33.7 | 60.4 | 55.6 | 93.9 | 50.7 | 43.9 | | 67.8 |
| Uzbekistan | \$ 1,898 | 78.9 | 99.1 | 97.5 | 49.0 | 95.0 | 90.0 | 67.8 | |

Note: Per capita income is measured by gross national income (GNI) in 1000 US\$ in 2013.

Source: World Bank online database. Available: <http://data.worldbank.org/indicator/NY.GNP.ATLS.CD>.

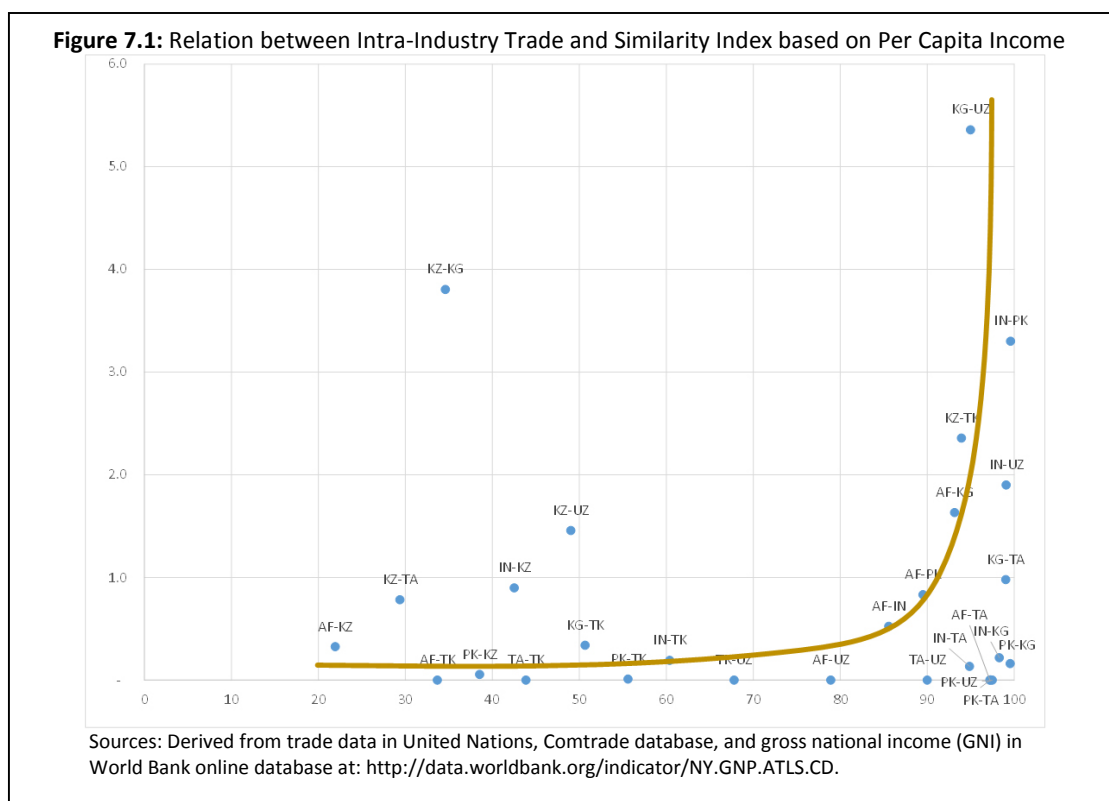
For example, Afghanistan's per capita income has a high degree of similarity with Tajikistan and Kyrgyzstan, while India and Pakistan are similar to one another as well as Kyrgyzstan, Tajikistan and Uzbekistan.

There are considerable difficulties in the computation of meaningful statistics on two-way trade, based on the index of intra-industry trade, which are discussed in the next section. In general, an index close to 100 indicates similarity between countries, whereas an index near 0 suggests dissimilarities between them. To the extent that trade between countries reflects intra-industry trade patterns in other countries, there should be considerable two-way trade in products from the same industries. If not significantly high, then they should be at least greater than those trading partners with low indices of similarities.

The relationship between country similarities and the amount of two-way trade of a product or industry is shown in Figures 7.1. It shows country similarities based on the size of the country, measured by gross national income. The explanation of how intra-industry trade in Central and South Asia in the next section of this chapter. For now, our interest is in assessing the extent to which higher levels of country similarities in the two regions are associated with greater values of intra-industry trade.

The fitted trend in Figure 7.1 shows that at higher levels of similarity between trading partners, the magnitude of intra-industry trade begins to be significant, though it still remains small relative to advanced economies. The fitted trend is an exponential functions and is concave upward. That means that at low levels of similarities, trading partners in Central and South Asia have little, if any, intra-industry trade. But as similarities increase, there is a more-than-proportional increase in the amount of intra-industry between trading partners in the two regions. Evidence of the same relationship between country similarities and intra-industry trade in developed economies also shows a positive relationship between the two. However, in the case of developed countries, the fitted curve is concave downward.⁵⁶ That means that, even at low levels of similarities,

⁵⁶ World Trade Organization (WTO, 2012), "A Practical Guide to Trade Policy Analysis". Geneva. Available: https://www.wto.org/english/res_e/publications_e/practical_guide12_e.htm.



trading partners have relatively high proportions of intra-industry trade and that increasing similarities between trading partners leads to less-than-proportional increases in the amount of intra-industry trade.

The highest numerical values for the XY coordinates in Figure 7.1 occur for Kyrgyzstan and Uzbekistan, followed by India and Pakistan, Kazakhstan and Turkmenistan, and India and Uzbekistan. We will examine the product or industry-based sources of the comparatively high IIT values of these trading partners later in the chapter. The only significant outlier is Kazakhstan and Kyrgyzstan, which have a comparatively high level of intra-industry trade between them but are generally dissimilar.

B. Bilateral Intra-Industry Disaggregated Trade

1. Measuring Two-Way Trade

In calculating IIT of the Central and South Asia economies, we need to consider two measurement issues:⁵⁷

- First, *sectoral aggregation bias* is one of the major concerns of IIT calculations. In general, the higher the level of aggregation of products into groups representing ‘industries’, the higher the probability of overlap between exports and imports of that industry. For that

⁵⁷ L. Fontagné, M. Freudenberg and G. Gaulier (2005), “Disentangling Horizontal and Vertical Intra-Industry Trade”. Paris, CEPII. Available: http://www.cepii.fr/pdf_pub/wp/2005/wp2005-10.pdf.

reason, studies based on detailed industry breakdowns have indeed found lower shares of measured IIT than those using more aggregated information.

- ▶ Second, *geographic aggregation bias* occurs when a country's two-way trade is aggregated with trading partners, as in the case of regional or world trade. The consequence of this level of geographic aggregation is that it creates an artificially high IIT measurement. In such a situation, high IIT values may simply reflect 'triangular' trade relationship, whereby a country exports a given product to one partner and imports it from another one. This type of trade is compatible with traditional theories in which there exists a so-called chain of comparative advantages.⁵⁸

The remedy to these two potential measurement biases is to calculate bilateral trade flows at the disaggregated product level. As such, the present analysis for the Central and South Asia economies is undertaken at the bilateral trade level and at a 6-digit HS product level of disaggregation. The period of analysis is 2010-2013. Generalizations about the results are reported as the trade-weighted averages of the disaggregated estimates of intra-industry trade.

Summaries of IIT for bilateral trade of each country in the two regions are presented in the Statistical Appendix. Those tables synthesize the detailed HS 6-digit product-level data for each country's trade with its regional trading partners according to the 21 sections of the Harmonized System. In the remainder of this chapter, we present a somewhat higher level of aggregation based on the following:

- (a) Trade-weighted averages of IITs by country of all bilateral trade across the two regions; and
- (b) Trade-weighted averages of IITs by product categories for each country's unweighted average of all bilateral trade across the two regions.

In discussing these results, we make reference to the more detailed information on product categories for all bilateral trade in the Statistical Appendix, as well as product or industry-based intra-industry trade included in the Statistical Appendix because of the voluminous amount of detailed information involved.

2. Country-Based Comparison of Two-Way Trade

A high share of intra-industry trade suggests advanced economic integration and a high level of industrial development. However, in Central and South Asia, Table 7.3 shows that there are generally very small amounts of intra-industry trade in bilateral trade at the HS 6-digit level. The largest IIT indices occur in trade between India and Pakistan, Kazakhstan and Kyrgyzstan, Kazakhstan and Turkmenistan, and Kyrgyzstan and Uzbekistan.

The amount of intra-industry trade of Afghanistan with trading partners in the region is negligible. Only trade with Kyrgyzstan has an IIT index above one percent. The reason for this negligible amount of IIT is not the lack of trade with partner countries, but rather the lack of two-way trade in the same product or industry. For example, in the case of Afghanistan's trade with India, the

⁵⁸ A. Deardorff (1979), "Weak Links in the Chain of Comparative Advantage", *Journal of International Economics*, Vol. 9, No 2, pages 197-209. Available: <https://ideas.repec.org/a/eee/inecon/v9y1979i2p197-209.html>.

index is less than one percent because, in Afghanistan's product-level trade, it either exports a particular product to India or it imports it from India. It seldom does both for the same product.

It is worthwhile emphasizing that increased intra-industry trade is not a sufficient condition for countries to develop technologies and increase their regional and international competitiveness. The existence of intra-industry trade can be associated with either horizontal and vertical types of intra-industry trade. Horizontal intra-industry trade arises from product variety in trade and is mainly associated with trade of advanced economies like those of the European Union. That type of trade is usually ascribed to the existence of premium pricing that results from the differentiation of a country's or a multinational's products from those of others in the same industry. The result is not only a significant value added for the differentiated product, but also large investments in research and development, marketing, and logistics.

Table 7.3: Intra-Industry Trade of Central and South Asian countries, by Trading Partners (Average 2010-2-13)

| | <i>Afghanistan</i> | <i>India</i> | <i>Pakistan</i> | <i>Kazakhstan</i> | <i>Kyrgyzstan</i> | <i>Tajikistan</i> | <i>Turkmenistan</i> | <i>Uzbekistan</i> |
|---------------------|--------------------|--------------|-----------------|-------------------|-------------------|-------------------|---------------------|-------------------|
| <i>Afghanistan</i> | | 0.5 | 0.8 | 0.3 | 1.6 | - | - | - |
| <i>India</i> | 0.5 | | 3.3 | 0.9 | 0.2 | 0.1 | 0.2 | 1.9 |
| <i>Pakistan</i> | 0.8 | 3.3 | | 0.1 | 0.2 | 0.0 | 0.0 | - |
| <i>Kazakhstan</i> | 0.3 | 0.9 | 0.1 | | 3.8 | 0.8 | 2.4 | 1.5 |
| <i>Kyrgyzstan</i> | 1.6 | 0.2 | 0.2 | 3.8 | | 1.0 | 0.3 | 5.4 |
| <i>Tajikistan</i> | - | 0.1 | 0.0 | 0.8 | 1.0 | | - | - |
| <i>Turkmenistan</i> | - | 0.2 | 0.0 | 2.4 | 0.3 | - | | - |
| <i>Uzbekistan</i> | - | 1.9 | 0.0 | 1.5 | 5.4 | - | - | |

Source: Based on data in United Nations, Comtrade database.

In contrast, vertical intra-industry trade involves fragmentation of production processes across countries and is more closely associated with the type of intra-industry trade undertaken by the countries in East Asia and what little of this type of trade exists in trade between the Central and South Asia economies. In the case of East Asia, the dramatic increase in vertical intra-industry trade has been largely due to the expansion of back-and-forth transactions in vertically fragmented production processes between countries, rather than trade of quality-differentiated goods.⁵⁹

That type of trade involves the division of vertically integrated production processes into different production stages located in different countries. It necessarily requires costly service links to connect production stages such as efficient transportation and telecommunication services, which are often subject to economies of scale. Trade and regulatory barriers impose additional service link costs and these are discussed extensively in Chapter 9 of this study. Recent developments in measuring those trade costs have shown them to be much higher than previously recognized. Nonetheless, advances in logistics costs and reduced barriers to trade

⁵⁹ M. Ando (2006), "Fragmentation and vertical intra-industry trade in East Asia". North American Journal of Economics and Finance 17, pages 257–281. Available: <http://venus.unive.it/mvolpe/Articolo%203.pdf>.

create potentially large opportunities in Central and South Asia regional trade for extending production fragmentation across the region.

3. Two-Way Trade in Major Product Categories

In order to understand the source of actual and potential intra-industry trade in the Central and South Asia regions, disaggregated trade data at the HS 6-digit product level has been grouped into the 21 sections of the Harmonized System. Trade at this level of aggregation between each trading partner in the two regions is presented in the Statistical Appendix, while a summary of trade across the 21 sections for trade with all countries in the region is illustrated in this section.

Before summarizing intra-industry trade across the 21 HS sections, it is useful to first identify the

Table 7.4: Percentage Distribution of Total Bilateral Trade (Imports plus Exports) of Central and South Asia across HS Sections (2010-2013 Average)

| HS Section | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan |
|----------------------------------|-------------|--------|----------|------------|------------|------------|--------------|------------|
| 1+2 Animal and vegetable | 16.4% | 16.3% | 19.2% | 27.4% | 10.7% | 48.4% | 3.7% | 14.8% |
| 3 Fats and oils | 5.7% | 0.1% | 5.8% | 1.6% | 2.4% | 0.9% | 0.2% | 0.8% |
| 4 Prepared foods | 5.6% | 11.1% | 13.2% | 5.2% | 6.2% | 6.8% | 4.4% | 2.4% |
| 5 Mineral products | 45.6% | 4.3% | 12.8% | 28.5% | 26.4% | 17.4% | 73.7% | 53.8% |
| 6 Chemical products | 4.0% | 21.4% | 14.5% | 5.1% | 9.8% | 6.4% | 1.4% | 4.0% |
| 7 Plastics and rubber | 2.7% | 3.2% | 3.6% | 1.6% | 4.8% | 1.0% | 1.1% | 1.6% |
| 8 Leather & its products | 0.2% | 0.8% | 0.6% | 0.2% | 0.6% | 0.1% | 0.0% | 0.1% |
| 9 Wood & its products | 1.3% | 0.0% | 1.3% | 0.1% | 0.2% | 0.0% | 0.1% | 0.1% |
| 10 Pulp and paper | 0.3% | 0.3% | 0.3% | 1.2% | 1.7% | 2.7% | 0.0% | 0.2% |
| 11 Textiles | 5.0% | 22.2% | 12.7% | 3.6% | 6.8% | 5.2% | 1.3% | 2.1% |
| 12 Footwear | 0.2% | 0.2% | 0.1% | 0.3% | 0.3% | 0.8% | 0.0% | 0.2% |
| 13 Cement & similar prod. | 0.4% | 0.8% | 0.6% | 2.4% | 4.1% | 2.2% | 0.4% | 1.0% |
| 14 Semi-precious stones | 1.1% | 3.6% | 1.5% | 0.4% | 0.5% | 0.0% | 0.0% | 0.0% |
| 15 Base metals | 8.0% | 6.7% | 10.2% | 11.1% | 9.4% | 2.9% | 2.8% | 7.7% |
| 16 Machinery & equip. | 2.5% | 5.8% | 2.3% | 5.1% | 7.2% | 3.6% | 5.6% | 3.1% |
| 17 Transport equipment | 0.5% | 2.1% | 0.7% | 5.1% | 8.3% | 0.8% | 4.3% | 7.4% |
| 18 Measuring instruments | 0.1% | 0.6% | 0.1% | 0.5% | 0.2% | 0.6% | 0.7% | 0.4% |
| 19 Arms & ammunition | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| 20 Misc manufactures | 0.2% | 0.3% | 0.3% | 0.5% | 0.5% | 0.1% | 0.4% | 0.4% |
| 21 Work of Art | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| TOTAL | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% |

Source: Derived from data in United Nations, Comtrade database.

distribution of trade across those sections in each of the countries in the two regions. Trade in Table 7.4 is made up of the sum of imports and exports in each product, and the sum refers to the average value of trade within the two regions in 2010-2013.

In general, trade between countries in the two regions is highly concentrated in a few HS sections:

- Mineral products (Section 5) and animal and vegetable products (Sections 1 and 2) account for over 50 percent of the average of bilateral regional trade of the eight countries. These two HS sections are important to all countries. They contribute 62 percent of Afghanistan's total regional bilateral trade; 66 percent of that of Tajikistan's regional trade; 69 percent of Uzbekistan's regional trade; and 77 percent of Turkmenistan regional trade. In Kyrgyzstan, the two HS sections account for 37 percent of total regional

trade; in Pakistan, they contribute 32 percent; and in India, they account for 24 percent of trade with the two regions.

- Four other HS sections each contribute between 7 and 8 percent to total bilateral regional trade of all countries. They are chemical products (Section 6), textiles (Section 11), base metals (Section 15), and prepared foods (Section 4). Chemicals, textiles and prepared foods are particularly important to India's and Pakistan's regional trade, and together those three HS sections account for 55 percent of India's total regional trade and 40 percent of that of Pakistan.

Table 7.5: Intra-Industry Trade Indices for Bilateral Trade of Central and South Asian countries (Trade-weighted averages by country and unweighted averages of IITs for trading partners)

| HS Section | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan |
|-------------------------------|-------------|------------|------------|------------|------------|------------|--------------|------------|
| 1+2 Animal and vegetable | 0.5 | 0.7 | 1.0 | 0.6 | 1.9 | 0.3 | 0.2 | 1.5 |
| 3 Fats and oils | 1.7 | 0.0 | 0.0 | 2.0 | 0.1 | 0.0 | - | 0.2 |
| 4 Prepared foods | 0.1 | 0.3 | 0.9 | 3.5 | 4.6 | 0.8 | 0.0 | 1.2 |
| 5 Mineral products | 0.6 | 6.0 | 0.3 | 0.4 | 8.2 | 0.0 | 11.4 | 1.8 |
| 6 Chemical products | 0.1 | 0.4 | 0.2 | 1.0 | 6.0 | 1.4 | 0.0 | 5.0 |
| 7 Plastics and rubber | 1.1 | 2.9 | 2.0 | 5.0 | 5.8 | 0.6 | 0.0 | 1.6 |
| 8 Leather & its products | 2.2 | 0.8 | 0.6 | 1.0 | 6.5 | 0.4 | 0.0 | 3.9 |
| 9 Wood & its products | 0.1 | 1.5 | 1.6 | 10.7 | 12.0 | 1.7 | 0.0 | 2.7 |
| 10 Pulp and paper | 0.1 | 2.4 | 2.0 | 3.1 | 3.2 | 1.3 | 0.1 | 3.2 |
| 11 Textiles | 3.5 | 0.9 | 1.1 | 2.3 | 3.3 | 0.4 | 0.2 | 1.2 |
| 12 Footwear | 0.0 | 7.4 | 0.7 | 1.6 | 8.1 | 0.2 | 0.0 | 0.6 |
| 13 Cement & similar prod. | 0.1 | 0.6 | 1.0 | 2.1 | 1.5 | 0.4 | 0.0 | 2.1 |
| 14 Semi-precious stones | - | 0.2 | 0.2 | 0.3 | 0.3 | - | - | - |
| 15 Base metals | 0.8 | 0.6 | 0.5 | 0.7 | 1.3 | 0.2 | 0.1 | 0.3 |
| 16 Machinery & equip. | 1.2 | 3.3 | 1.2 | 2.0 | 1.4 | 0.3 | 0.5 | 2.3 |
| 17 Transport equipment | 2.0 | 0.2 | 1.6 | 7.1 | 2.9 | 2.9 | 3.5 | 0.7 |
| 18 Measuring instruments | 2.4 | 7.1 | 4.8 | 25.3 | 7.1 | 11.4 | 2.7 | 9.0 |
| 19 Arms & ammunition | - | - | - | - | - | - | - | - |
| 20 Misc manufactures | 1.2 | 2.0 | 1.7 | 5.6 | 5.5 | 0.7 | 1.2 | 1.0 |
| 21 Work of Art | 0.4 | 6.8 | 6.4 | - | - | - | - | - |
| TRADE-WEIGHTED AVERAGE | 0.5 | 1.0 | 0.6 | 1.4 | 1.8 | 0.3 | 0.4 | 1.2 |

Source: Based on data in United Nations, Comtrade database.

- Machinery and equipment (Section 16) and transport equipment (Section 17) each contribute 7 percent to total regional bilateral trade. Finally, those products that contribute between 1 and 2 percent of the total are made up of plastics and rubber (Section 7), fats and oils (Section 3), cement (Section 13), semi-precious stones (Section 14), and pulp and paper (Section 10). The remaining 7 HS sections each contribute less than 1 percent of the overall bilateral trade of the two regions.

Table 7.5 shows the intra-industry trade indices across the 21 HS sections. The following are highlights of two-way trade in those HS sections that contribute significantly to total intra- and inter-regional trade

- In mineral products (Section 5), there are three countries that have indices in excess of 5: India (6), Kyrgyzstan (8.2) and Turkmenistan (11.4). For India, that high level of intra-industry trade is due to its large amount of two-way trade with Turkmenistan (see Statistical Appendix). For Kyrgyzstan, the high index is associated with that country's two-

way trade with Turkmenistan. And for Uzbekistan, the high IIT index is due to its large volume of two-way trade with India and, to a lesser extent, with Kyrgyzstan.

- In animal and vegetable products (Sections 1 and 2), only two countries have IIT indices that are above 1: Kyrgyzstan (1.9) and Uzbekistan (1.5). Kyrgyzstan has significant amounts of two-way trade in this HS section with Kazakhstan and Tajikistan, while Uzbekistan has large volumes of two-way trade with Kyrgyzstan.
- In chemical products (Section 6), the high index for Kyrgyzstan (6) is associated with that country's large volume of two-way trade with Tajikistan.
- In transport equipment (Section 17), Kazakhstan has a large volume of two-way trade with Turkmenistan, Tajikistan and, to a somewhat lesser degree, Kyrgyzstan.
- In plastics and rubber (Section 7), Kazakhstan and Kazakhstan have an especially large volume of two-way trade in these types of products, and Kazakhstan also has significant two-way trade with Afghanistan and Pakistan.

C. Ratings

Table 7.6 shows the scores assigned to intra-industry trade, based on the evaluation methodology described in Chapter 3 and the analysis of the topics in this chapter.

Table 7.6. Summary Assessment of Intra-Industry Trade

| | Strongly Discourages | Discourages | Neither | Supports | Strongly Supports |
|--|-------------------------|-------------|---------|----------|----------------------|
| A. Country Similarities Matter Greatly in Developing Two-Way Trade in Similar Products | | | | | |
| 1 Kazakhstan | 1 | 2 | 3 | 4 | 5 |
| 2 Kyrgyzstan | 1 | 2 | 3 | 4 | 5 |
| 3 Tajikistan | 1 | 2 | 3 | 4 | 5 |
| 4 Turkmenistan | 1 | 2 | 3 | 4 | 5 |
| 5 Uzbekistan | 1 | 2 | 3 | 4 | 5 |
| 6 Afghanistan | 1 | 2 | 3 | 4 | 5 |
| 7 India | 1 | 2 | 3 | 4 | 5 |
| 8 Pakistan | 1 | 2 | 3 | 4 | 5 |
| B. Existing Bilateral Trade Patterns Support Fragmentation of Production Processes across Countries | | | | | |
| 1 Kazakhstan | 1 | 2 | 3 | 4 | 5 |
| 2 Kyrgyzstan | 1 | 2 | 3 | 4 | 5 |
| 3 Tajikistan | 1 | 2 | 3 | 4 | 5 |
| 4 Turkmenistan | 1 | 2 | 3 | 4 | 5 |
| 5 Uzbekistan | 1 | 2 | 3 | 4 | 5 |
| 6 Afghanistan | 1 | 2 | 3 | 4 | 5 |

| | | Strongly Discourages | Discourages | Neither | Supports | Strongly Supports |
|--|--------------|-------------------------|-------------|---------|----------|----------------------|
| 7 | India | 1 | 2 | 3 | 4 | 5 |
| 8 | Pakistan | 1 | 2 | 3 | 4 | 5 |
| C. Intra-Industry Trade Supports Fragmentation of Production Processes across Countries | | | | | | |
| 1 | Kazakhstan | 1 | 2 | 3 | 4 | 5 |
| 2 | Kyrgyzstan | 1 | 2 | 3 | 4 | 5 |
| 3 | Tajikistan | 1 | 2 | 3 | 4 | 5 |
| 4 | Turkmenistan | 1 | 2 | 3 | 4 | 5 |
| 5 | Uzbekistan | 1 | 2 | 3 | 4 | 5 |
| 6 | Afghanistan | 1 | 2 | 3 | 4 | 5 |
| 7 | India | 1 | 2 | 3 | 4 | 5 |
| 8 | Pakistan | 1 | 2 | 3 | 4 | 5 |

PART III. PRICE, NON-PRICE AND STRUCTURAL FACTORS

VIII. REAL EXCHANGE RATES AND INTERNATIONAL COMPETITIVENESS

A. Measuring Inter- and Intra-Regional Competitiveness

International price competitiveness is reflected in a country's real exchange rate, which takes into account both general price movements in each country relative to that of its trading partners, and the cross exchange rate between a country and each of its trading partners. In this section, we report estimates of the overall price competitiveness, bilateral competitiveness, and inter-regional competitiveness of countries in the Central and South Asia economies. Box 8.1, later in this chapter, explains the measurement of real exchange rates in more detail, while Box 8.2 describes some of the key issues involved in measuring price competitiveness.

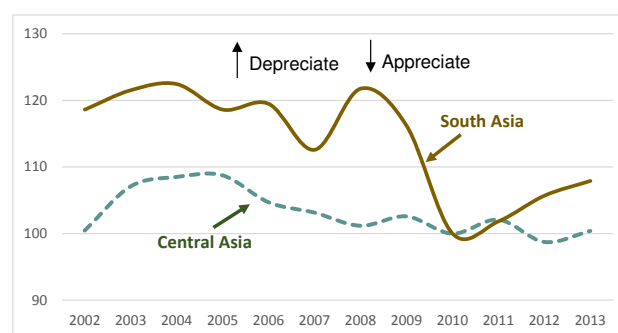
1. Overall Price Competitiveness

South Asia's export markets are dominated by the European Union (40 percent), China (29 percent) and the United States (24 percent). In the case of Central Asia, the major markets are the European Union (31 percent), China (35 percent), and the Russian Federation (24 percent).

In recent months, the Russian Federation has faced sharp declines in the value of its currency because of the fall in oil prices during the second half of 2014 and private capital flight. This situation, combined with the heavy dependence of Kazakhstan and Turkmenistan on oil and gas exports, has given rise to fears of contagion. However, the Central Asian economies are better equipped to withstand disruptions from major markets because of the buildup of substantial reserves that were not available during the 1997 Asian financial crisis. Nevertheless, these relative exchange rate movements has, in the short run, lowered the competitiveness of Central Asia in the Russian market. For example, Kazakhstan has kept the tenge pegged against the U.S. dollar and its currency has therefore surged against the ruble and other currencies of neighboring countries. As of early 2015, the tenge had maintained its position relative to the U.S. dollar through a series of central bank interventions, including large dollar reserve sales to support the local currency.⁶⁰

From a longer term perspective, both regions have experienced a deterioration in their international price competitiveness (Figure 8.1). In Central Asia, the decline began in the mid-2000s. However, in South Asia the deterioration that occurred in the 2000s reversed itself at the beginning of this decade and, since then, the region's international competitiveness has strengthened.

Figure 8.1. International Price Competitiveness of Central and South Asia Economies, 2002-2013



Source: Based on calculated real effective exchange rates reported in Statistical Appendix.

⁶⁰ J. Farchy (2014), "Kazakh currency faces devaluation dilemma". Financial Times. 10 November 2014. Available: <http://www.ft.com/intl/cms/s/0/8d534fe2-68c6-11e4-af00-00144feabdc0.html#axzz3MCSJgbFp>.

2. Bilateral Price Competitiveness

Real bilateral exchange rate changes between the countries in the region have varied considerably and are presented in detail in the Statistical Appendix. Bilateral competitive improvements in one country are, by definition, reflected in a deterioration in the competitiveness of its partner trading country. While in principle the changes should be mirror images of one another, but in reverse directions, in practices some variations occur because of reporting differences in trade data.

Table 8.1 shows that in recent years there has been a deterioration in intra-regional price competitiveness of Afghanistan, Tajikistan and Uzbekistan. In other countries (India, Kazakhstan, Kyrgyzstan and Turkmenistan), intra-regional competitiveness has improved because of exchange rate and relative price changes. The same pattern has occurred in inter-regional price competition: Afghanistan, Tajikistan and Uzbekistan have weakened their competitive positions, while the other countries have experienced a strengthening of their positions.

Table 8.1. Annual Percentage Change in Bilateral Price Competitiveness of Central and South Asia Economies, 2010-2013

| | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyz Republic | Tajikistan | Turkmenistan | Uzbekistan |
|-----------------|-------------|-------|----------|------------|-----------------|------------|--------------|------------|
| Afghanistan | | -1.0% | -0.9% | -1.7% | -1.0% | 0.4% | -1.3% | 2.1% |
| India | 1.3% | | 0.4% | -0.4% | 0.5% | 1.8% | 0.0% | 3.5% |
| Pakistan | 0.9% | -0.1% | | -0.8% | -0.1% | 1.3% | -0.4% | 3.0% |
| Kazakhstan | 1.8% | 0.8% | 0.9% | | 0.8% | 2.1% | 0.3% | 3.8% |
| Kyrgyz Republic | 1.3% | 0.4% | 0.3% | -0.5% | | 1.6% | -0.2% | 3.2% |
| Tajikistan | -0.2% | -1.1% | -1.1% | -2.0% | -1.3% | | -1.8% | 1.7% |
| Turkmenistan | 1.6% | 0.7% | 0.7% | -0.3% | 0.5% | 1.8% | | 3.5% |
| Uzbekistan | -1.8% | -2.7% | -2.8% | -3.7% | -2.9% | -1.6% | -3.4% | |

Source: Based on calculated real effective exchange rates reported in Statistical Appendix.

Note: Bilateral price competitiveness measured by bilateral real exchange rates.

3. Inter-Regional Competitiveness

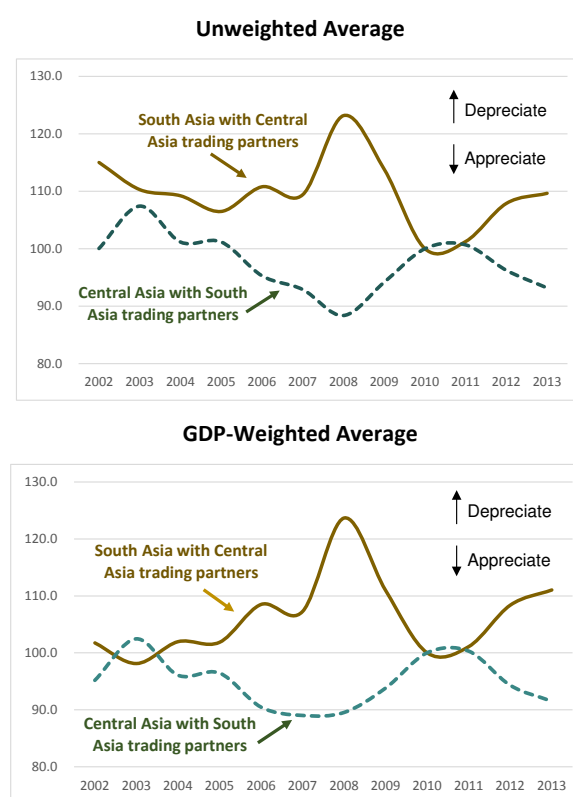
Changes in the inter-regional price competitiveness of the Central and South Asia regions differ considerably from the overall competitiveness changes in the two regions (Figure 8.2). There have been three distinct periods for inter-regional price competitiveness between the Central and South Asia economies. In the first part of the 2000s, South Asia's competitiveness rose while that of Central Asia declined, though the rate of change in the competitiveness between the two regions decelerated during this period. During the global financial crisis (2008-2010), South Asia's competitiveness initially rose sharply but in the next two years gave up those gains. In the present decade, South Asia has renewed its upward competitiveness trend relative to Central Asia. For Central Asia, particularly Kazakhstan and Kyrgyzstan, the renewal of South Asia's competitive gains has meant a continued long-term deterioration in their inter-regional competitiveness.

In general, inter-regional price competitiveness trends in the unweighted and GDP-weighted regional averages have been similar to one another since the 2008-2010 global financial crisis. However, in the early years, India's dominance in South Asia and its improved competitiveness in Central Asia more than offset competitiveness declines in Afghanistan and Pakistan. The result was a marked improvement in South Asia's GDP-weighted inter-regional competitiveness compared with movements that occurred in that region's unweighted average level of competitiveness. Likewise, Kazakhstan's large economic size relative to other Central Asia economies has dominated the GDP-weighted average for that region and its general deterioration in competitiveness relative to South Asia offset improvements that occurred elsewhere in the region.

Regional averages exclude Turkmenistan's real bilateral and effective exchange rates because in 1 January 2009 a new currency called the 'new manat' replaced the 'old manat' at the rate of 5,000 old manat to 1 new manat. Since then, the monetary authorities have maintained a fixed exchange rate against the U.S. dollar. The change in currency gave rise to a large change in the country's bilateral and effective exchange rates, in both nominal and real terms, which greatly impacted the regional averages (unweighted and GDP-weighted) between 2008 and 2009. Since this change was administered rather than a reflection of fundamental changes, Turkmenistan's exchange rate movements have been excluded from the regional calculations in order to avoid sharp exchange rate movements that do not reflect fundamentals.

Movements in regional competitiveness generally suggest that Central Asia's demand for South Asia's exports in the last 10 years has improved if the price responsiveness of importers in those markets has been the same. In recent years the strengthening of demand for South Asia's exports has been particularly large in India and, to a somewhat lesser degree, in Afghanistan. In contrast, Central Asian producers have faced a less favorable demand for their goods in South Asia markets in recent years. That deterioration has been especially noticeable in Kazakhstan, Kyrgyzstan and Turkmenistan.

Figure 8.2. Inter-Regional Competitiveness of Central and South Asia Economies, 2002-2013



Source: Based on calculated real effective exchange rates reported in Statistical Appendix.

Box 8.1. Definition of Real Effective Exchange Rate

The 'real effective exchange rate' is a fundamental indicator of a country's international price competitiveness. It takes into account both general price movements in each country relative to that of each of its trading partners, and the cross exchange rate between the country and each of its trading partners. As such, the term refers to a country's 'inflation-adjusted, trade-weighted exchange rate':

- The term 'real' refers to the inflation-adjusted exchange rates since the impact of currency depreciation can be offset by domestic inflation. For example, if a currency depreciates 10 percent and the country's domestic price level rises by 10 percent above the rest of the world, then the country's competitiveness remains unchanged. In practice, the inflation adjustment is carried out by multiplying the nominal exchange rate by an appropriate index of relative inflation between the home country and its trading partners.
- The term 'effective' means trade-weighted. Normally, the partner country weights are constructed in proportion to the sum of exports plus imports in bilateral trade.

The real exchange rate concept is a measure of the relative price of tradables to non-tradables, and it therefore measures the cost of producing a good domestically. A relative price decline, for example, reflects an increase in the domestic cost of producing tradable goods, since it makes production of tradables less profitable and induces resources to move to the non-tradables sector.

While the concept is straightforward, its empirical measurement is difficult for most countries in Central and South Asia to use since price series for tradable and non-tradable products are not readily available. Instead, the practice is to construct the real effective exchange rate using partner-country and domestic price measures that represents the ratio between non-tradable and tradable prices. This approach uses the Purchasing Power Parity (PPP) concept to correct the nominal exchange rate by the relative price of domestic to foreign prices. Using this so-called price-based approach, the real exchange rate index (denoted e^r) is defined as follows:

$$e^r = e^n \frac{p^f}{p^d} \quad (8.1)$$

where e^n is the nominal exchange rate index, p^f is the foreign currency price of goods purchased abroad, and p^d is the domestic price level.

We can relate equation (8.1) to the relationship between the price of tradables (denoted p^T) and the price of non-tradables (p^{NT}) as follows:

$$e^r = \frac{p^T}{p^{NT}} = e^n \frac{p^f}{p^d} \quad (8.2)$$

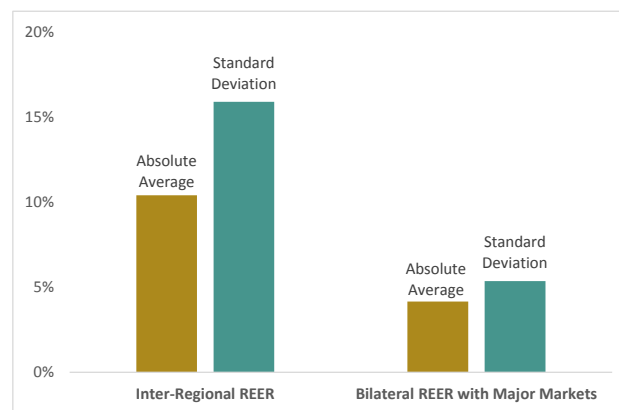
The relationship is based on the Law of One Price in which the prices of the tradables around the world are all equal to one another. However, while the Law of One Price applies to individual commodities, Purchasing Power Parity applies to the general price level.

The interpretation of (8.2) is as follows: *a rise in e^r means real depreciation (gain in competitiveness); conversely, a fall in e^r means real appreciation (loss of competitiveness)*. Another way to express this result is to say that when the real effective exchange rate increases, the home country currency depreciates relative to the currencies of the trading partners, which in turn means that the competitiveness of domestic goods in the home country increases. The opposite happens when the real effective exchange rate declines.

4. Variability of Competitiveness

Year-to-year variations in international price competitiveness is much higher for inter-regional competitiveness than it is for regional competitiveness with the major markets, namely, the European Union, China, Russia Federation and the United States (Figure 8.3). The average year-to-year changes in the real bilateral exchange rates between Central Asia and South Asia is 10 percent, measured in absolute terms, while those with the major markets of these two regions is only 4 percent. Similarly, the standard deviation for inter-regional real exchange rates is 16 percent, compared with only 5 percent for the major markets of the two regions. The reason is that inflation in the two regions, which has averaged 9 percent a year, is over twice as high as that in the major markets; and the standard deviation in the general price level in these regions is also more than twice as large as that of their major markets. The resulting inter-regional instability associated with price volatility is generally considered to be unfavorable to international competitiveness.

Figure 8.3. Bilateral Real Exchange Rate Volatility of Central and South Asia Regions, 2002-2013



5. Managing Volatility

In order to reduce exchange rate volatility, nearly all Central and South Asia governments have adopted managed floats in their currencies that allows them to fluctuate within a limited range over time (Table 8.2). The governments generally manage or peg their currencies to adjust to foreign exchange (forex) markets, as long as their currencies do not exceed some defined values that could affect foreign currency, inflation limit or monetary policy limits. Kazakhstan anchors

Table 8.2. De Facto Classification of Exchange Rate Regimes, 2014

| | Exchange Rate Arrangement | | | | Exchange Rate Anchor and Monetary Policy Framework | | | |
|--------------|---------------------------|------------------------|----------|---|--|--------------------------------|---------------------------|--|
| | Managed Other | Stabilized Arrangement | Floating | Crawl-Like Arrangement & Conventional Peg | US dollar | Dual or Multiple Exchange Rate | Monetary Aggregate Target | Monitor indicators in conducting monetary policy |
| Afghanistan | | | ◆ | | | | ◆ | |
| India | | | ◆ | | | | | ◆ |
| Pakistan | ◆ | | | | | | | ◆ |
| Kazakhstan | | ◆ | | | ◆ | | | |
| Kyrgyzstan | ◆ | | | | | ◆ | | |
| Tajikistan | | ◆ | | | | | ◆ | |
| Turkmenistan | | | | ◆ | ◆ | | | |
| Uzbekistan | | | | ◆ | | ◆ | | |

Source: IMF (2014), Annual Report on Exchange Rate Arrangements and Exchange Restrictions. Washington, DC.

its currency to the U.S. dollar, and in 2014 it moved from a crawl-like arrangement to a stabilized one following a 14 percent devaluation in the teng against the U.S. dollar. Turkmenistan also uses the dollar to anchor its currency. Kyrgyzstan in 2014 started using a monetary policy basis with interest rates as the target for developing and implementing monetary policy. It also uses a dual exchange rate in which government transactions use an official exchange rate that can differ as much as 2 percent from the market rate. Tajikistan uses a stabilization arrangement and has recently liberalized capital controls after a period in which there were large capital inflows into the country.

In contrast, all South Asia economies maintained a floating exchange rate until recently, when in 2014 Pakistan moved from a floating to a managed exchanged rate after a period of rapid appreciation in the Pakistan rupee. Afghanistan does not maintain any exchange rate restrictions and has few capital controls, mainly on money market instruments and real estate transactions. India and Pakistan have few exchange rate restrictions but maintains capital controls in nearly all areas. In an effort to stem capital outflows, India recently relaxed a number of its capital restrictions, such as limits on direct foreign investment that can be undertaken without prior approval.

B. Modeling Price Competitiveness

Knowledge about the transmission of real exchange rate variations on a country's exports and imports, and the size of the impact on the trade balance and the economy as a whole are critical for policymakers.

The transmission occurs as follows: In the case of a devaluation in a country's currency, prices of the home country's exports abroad will decrease and prices of imports at home will increase. The price changes will cause exports to expand and imports to contract, thereby influencing the trade balance positively. In the case of bilateral trade between the Central and South Asia economies, a real exchange rate devaluation in one country means that there will be a fairly symmetric response on the part of its trading partner in the form of a real exchange rate appreciation. In the case of an appreciation in the country's currency, the opposite occurs, namely, the price of the home country's exports abroad will rise and the price of imports at home will decrease, with the result that the trade balance will worsen.

In estimating the adjustment process of trade to exchange rate variation, we follow the conventional practice of measuring the size of the transmission using estimates of imports. The reason is that data for imports tend to be more reliable than those of exports because governments tend to be more careful in measuring that side of trade for revenue generating purposes. Since import adjustments in the home country are mirrored in the trading partner's export adjustments, we are in effect estimating the transmission of real exchange rate changes on trade between the Central and South Asia economies.

We also need to take into account the dynamics underlying the response over time to changes in the real exchange rate. Dynamics are important because of the possible occurrence of the well-known adjustment pattern associated with the theory of the J-curve. According to the J-curve theory, after a real depreciation or devaluation, the trade balance would be expected to deteriorate at first due to increased import value in terms of domestic currency associated with

sticky prices.⁶¹ Subsequently, over time the volume of export will increase and the volume of import will decrease when adjusting to the new exchange rate, and the trade balance will then improve.

To estimate the import demand relationship and take into account differences between the short and long term response of trade to real exchange rate variations, we use the so-called Error Correction Mechanism (ECM) model.⁶² It is part of a system of time series models that account for current deviations from their long-run relationship in the observed short-run adjustments to the long-term or steady-state equilibrium relationship between variables such as imports, income and relative price changes through the real exchange rate. They are a useful class of model when dealing with 'cointegrated data' as that in the present study and a full explanation of this modeling approach is therefore given in Annex A.

Table 8.3 shows the empirical results for measuring the impact on inter-regional imports of changes in the real inter-regional exchange rate of the Central and South Asian countries. It is important to mention that the estimated equations for all three South Asia economies were far more difficult to estimate than those of any of the Central Asian countries. This experience is contrary to expectations since two of the three South Asian countries have floating exchange rates and all Central Asian countries have some form of managed exchange rate arrangement.

Table 8.3. Central and South Asia Inter-Regional Import Demand Elasticities with Respect to Income and Real Exchange Rates

| | Income <u>a/</u> | | | Real Exchange Rate <u>b/</u> | | |
|---------------------------------------|--------------------|-----------|--------------------|------------------------------|-----------|---------------------|
| | Short-Run | | Long-Run | Short-Run | | Long-Run |
| Afghanistan | 0.42 | <u>c/</u> | 1.00 | -0.97 | | -1.14 |
| India | 1.23 | | 2.27 | -0.31 | <u>c/</u> | -0.84 |
| Pakistan | 0.78 | <u>c/</u> | 1.00 | -2.04 | <u>c/</u> | -2.62 |
| <i>Average, Trade-Weighted</i> | <i>1.11</i> | | <i>2.03</i> | <i>-0.54</i> | | <i>-1.04</i> |
| <i>Average, unweighted</i> | <i>0.81</i> | | <i>1.42</i> | <i>-1.11</i> | | <i>-1.53</i> |
| Kazakhstan | 4.50 | | 1.20 | -0.61 | | -1.55 |
| Kyrgyzstan | 1.36 | | 1.00 | -0.84 | | -0.77 |
| Tajikistan | 0.37 | <u>c/</u> | 2.43 | -0.24 | | -2.87 |
| Turkmenistan | 1.56 | | 4.42 | -0.52 | | -1.84 |
| Uzbekistan | 6.91 | | 1.61 | -0.50 | | -0.53 |
| <i>Average, Trade-Weighted</i> | <i>4.40</i> | | <i>1.60</i> | <i>-0.58</i> | | <i>-1.25</i> |
| <i>Average, unweighted</i> | <i>2.94</i> | | <i>2.13</i> | <i>-0.54</i> | | <i>-1.51</i> |

Source: Technical Annex Table T1.

a/ Income Elasticity: Measures the percentage change in import volume of each country or grouping brought about by a 1 percent change in the domestic real GDP.

b/ Real Effective Exchange Rate (REER) Elasticity: Measures the percentage change in import volume of each country or grouping brought about by a 1 percent change in their REER.

c/ One-period lag.

⁶¹ T. Demirden and I. Pastine (1995), "Flexible Exchange rates and the J-curve: An alternative approach". *Economic Letters* 48: 373-337. Available: <https://ideas.repec.org/a/eee/ecolet/v48y1995i3-4p373-377.html>.

⁶² A useful online video explaining ECM model is available at https://www.youtube.com/watch?v=wYQ_v0tk_c (Part I) and <https://www.youtube.com/watch?v=xVlkb-QeZ40> (Part II).

Nevertheless, the final equation estimates have the expected signs and provide reasonably robust parameter estimates.

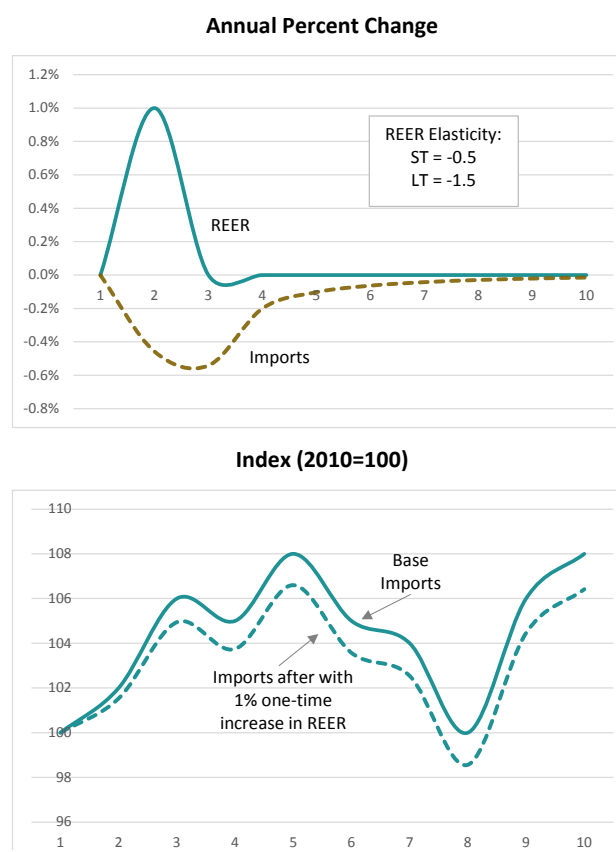
The unweighted average real bilateral exchange rate elasticity of import demand for the two regions is about the same (-1.5) in the long-run. The interpretation of this elasticity is that a *one-time* 1 percent increase (appreciation) in the inter-regional exchange rate for each country leads to a 1.5 percent decrease in the volume of imports. The trade-weighted average of the two regions is, however, considerably different. Because of India's dominance in the South Asia region and because of its REER-inelastic import demand relationship, the regional REER average elasticity is only -1.04 compared with -1.25 in Central Asia. Nonetheless, these averages obscure considerable variation across the two regions, ranging from a low of -0.5 in Uzbekistan to a high of -2.9 in Tajikistan, with three countries having REER inelastic import demand relationships; one having a near-unitary elasticity; and the remaining four having import demand relationships that are REER elastic, that is, greater than unity.

It is worth noting the relatively high income elasticities of import demand in nearly all countries, which is consistent with expectations that trade expands at a faster rate than real GDP. The Central Asia economies have a relatively higher average unweighted income elasticity (2.1) than the South Asia economies (1.4). Among those countries with the highest import demand responsiveness to income changes are Turkmenistan, Tajikistan and India.

From a policy perspective, what matters is the size of the response of trade to the exchange rate policy instrument and also how quickly the response takes place. This second response is determined by the dynamics underlying the adjustment of trade to a new exchange rate. A high and fast response is preferred over a sluggish response that takes a long time to occur.

Figures 8.4 and 8.5 show the average and country-specific inter-regional import demand responses to a one-time change in the real inter-regional exchange rate of the Central and South Asia economies. The same-year response of imports to a 1 percent appreciation in the exchange rate, adjusted for relative price changes, is -0.5. In the long-run, the total impact on imports is -1.5 percent. It takes two years for two-thirds of that import adjustment to occur and another three years for over 90 percent of it to be completed.

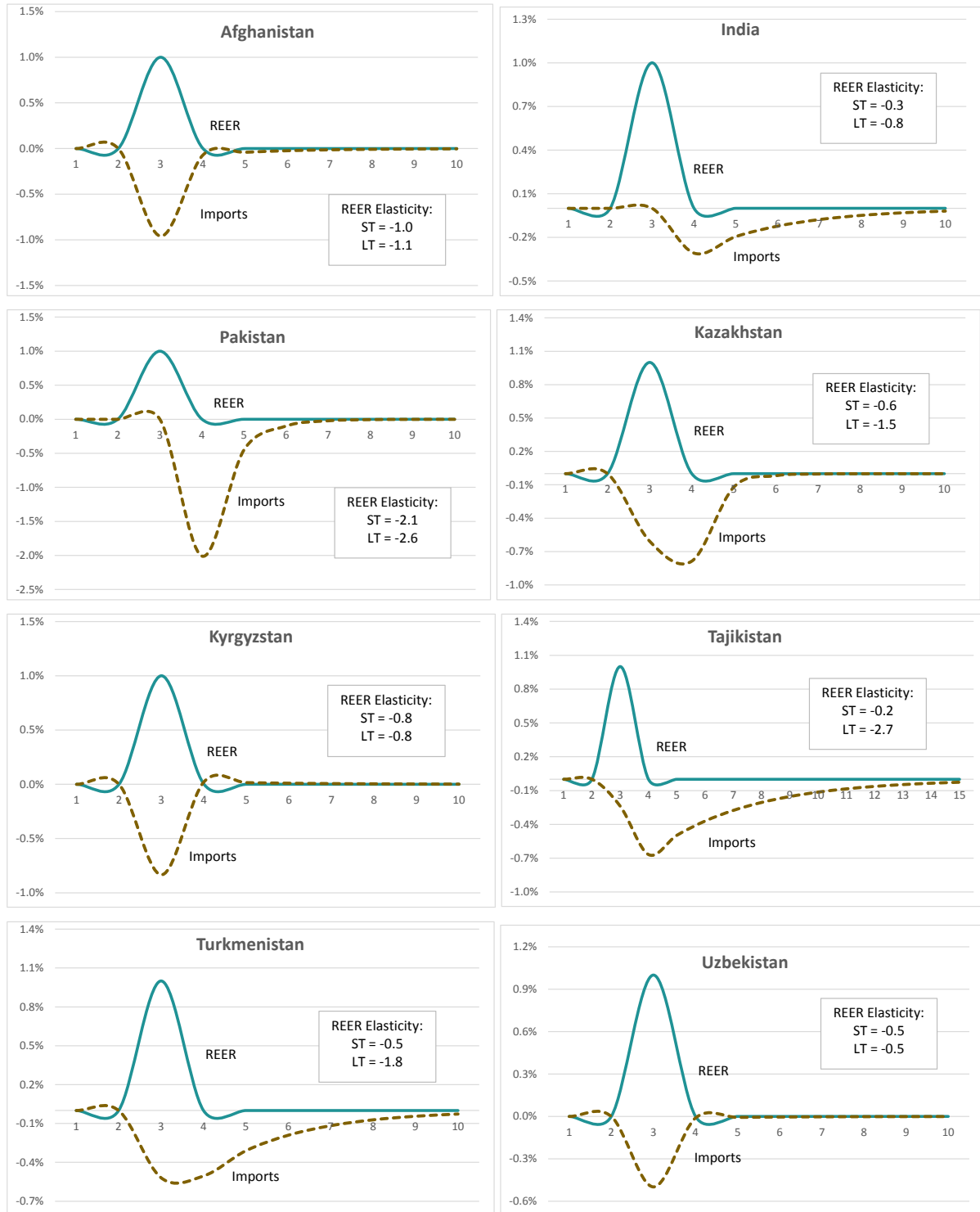
Figure 8.4. Average Inter-Regional Import Demand Adjustments to One-Time 1% Rise in REER of Central and South Asia Economies



In the South Asia region, Pakistan's inter-regional imports have the strongest and fastest response to a real inter-regional exchange rate change. In contrast, in India it takes 3 years for 60 percent of the adjustment in imports to be completed and six years to complete 90 percent of the adjustment. Afghanistan's imports adjust quickly to an inter-regional exchange rate variation, but the magnitude of the response is moderate.

In the Central Asia region, Tajikistan's, Turkmenistan's and Kazakhstan's imports have comparatively strong and fast import demand responses. The long-run import response to a one-time 1 percent increase in their real inter-regional exchange rates ranges from -1.5 (Kazakhstan) to -2.7 (Tajikistan). In the case of Kyrgyzstan and Uzbekistan, imports also respond quickly to exchange rate changes, but the magnitude of the response is much lower. Note that in the case of Kyrgyzstan, the short-term import real inter-regional elasticity is greater than the long-run elasticity. That means that importers tend to overreact when an exchange rate appreciation occurs and then adjust their purchases in subsequent periods to levels that are more consistent with their longer term response to the exchange rate change.

Figure 8.5. Regional Import Demand Adjustments to One-Time 1% Rise in REER of Central and South Asia Economies



C. Ratings

Based on the evaluation methodology described in Chapter 3 and the estimates presented in this chapter, Table 8.4 shows the scores assigned to the effectiveness of exchange rate policy instruments in each country.

Table 8.4. Regional Trade Impact Effectiveness of Exchange Rate Policy Instruments

| | | Strongly Discourages | Discourages | Neither | Supports | Strongly Supports |
|---|---|-------------------------|-------------|---------|----------|----------------------|
| | <i>Real Exchange Rate Policy Effectiveness in Expanding Regional Trade by Increasing Export Competitiveness</i> | | | | | |
| 1 | Kazakhstan | 1 | 2 | 3 | 4 | 5 |
| 2 | Kyrgyzstan | 1 | 2 | 3 | 4 | 5 |
| 3 | Tajikistan | 1 | 2 | 3 | 4 | 5 |
| 4 | Turkmenistan | 1 | 2 | 3 | 4 | 5 |
| 5 | Uzbekistan | 1 | 2 | 3 | 4 | 5 |
| 6 | Afghanistan | 1 | 2 | 3 | 4 | 5 |
| 7 | India | 1 | 2 | 3 | 4 | 5 |
| 8 | Pakistan | 1 | 2 | 3 | 4 | 5 |

Box 8.2. Practical Issues in Constructing the Real Effective Exchange Rate

There are four important issues involved in the construction of the 'real effective exchange rate':

1. *Exchange rate index base year:* The indices for the nominal and real exchange rates are constructed using the general formula:

$$e = \frac{e_t}{e_b} * 100 \quad (8.1)$$

where e refers to either the real or nominal exchange rate, e_t refers to the current (nominal or real) exchange rate, and e_b is the exchange rate in the base year.

In principle, the base year should represent the year in which there was internal and external equilibrium in a country. While it may be possible to determine such a period in a country's economic history, it is likely to differ across countries. However, a common base year is needed to compare movements in exchange rates across countries like those in Central and South Asia. To overcome this problem, percentage changes in the real exchange rates are reported, rather than their absolute levels over time.

2. *Prices:* In principle, the producer price indices (PPI) or the wholesale price indices (WPI) for domestic products are used to calculate the real effective exchange rate. However, there are several countries where these indices are not reported. In those cases, consumer price indices (CPI) are used instead. The more fundamental issue for the price series is that all indices (WPI, PPI and CPI) include prices of both tradables and non-tradables. We may possibly eliminate some of the bias by using WPI for the non-tradable prices in the home country and CPI for the tradables prices in the partner countries. The rationale is that WPI is mainly composed of non-tradables and CPI mainly consists of tradable goods.

3. *Aggregation:* There are three issues that arise in aggregation: (a) what to use as a weight for aggregation; (b) what years to use for the weights; and (c) what average to use for the aggregation.

(a) *Aggregation variables:* Use of trade weights are appropriate for the aggregation of real effective exchange rates of a region's member countries. However, for member countries' trade with specific trading partners, trade weights only reflect the importance of goods that are actually traded. Instead it is more appropriate to use the member countries' share of total regional production, so that the weights reflect both traded and non-traded goods in each country.

(b) *Period for weights:* In some cases, the period average is applied to the bilateral real exchange rates, while in others a sub-period is applied to all years. In neither case does the aggregation yield an accurate measure of the importance of the trading partners in any given year. Instead, it is more accurate to apply the trade-weights that correspond to each year in the calculations. In that way changes in the importance of trading partners are reflected in the real effective exchange rate for each year.

(Continued)

Box 8.2. Practical Issues in Constructing the Real Effective Exchange Rate (Continued)

(c) *Averaging method*: There are two ways to calculate the weighted average of bilateral exchange rates for the trading partners. Suppose there are N trading partners whose exchange rates need to be averaged and whose trade weights are represented by w_n , so that $\sum_{n=1}^N w_n = 1$.

- The *arithmetic* average of the exchange rates is calculated as:

$$\sum_{n=1}^N e_n * w_n \quad (8.2)$$

- The *geometric* average of the exchange rates is calculated as:

$$\prod_{n=1}^N e_n^{w_n} \quad (8.3)$$

The arithmetic average has the limitation that its percentage movements will differ in magnitude depending on whether the bilateral rates are expressed as units of home currency per foreign currency unit, or the other way around. Moreover, exchange rate indices based on arithmetic averages can also be distorted when the base period is changed.

In contrast, the geometrically averaged indices treat movements in exchange rates symmetrically, and the fact that the logarithm of a geometric average is the arithmetic average of the logs of the bilateral rates means that the linear representation in logarithms greatly simplifies their representation in an econometric model. For these reasons, the geometric average is preferred over the arithmetic average of real exchange rates for trading partners. We therefore use the geometric average of regional member countries to aggregate the real effective exchange rates for the Central and South Asia regions.

To summarize, based on best-practices for construction of real effective exchange rates, (a) we use GDP weights to aggregate member countries' trade with a specific trading partner and trade weights to aggregate across a region's member countries trade with all trading partners; (b) we use trade- or GDP-weights that correspond to each year for which the real effective exchange rate is calculate; and (c) we use the geometric average of member countries to arrive at regional real effective exchange rates.

4. *Formula*. There are different ways to calculate the REER. However, they essentially involve two general formulas the lead to opposite interpretations of REER movements: (a) The first is the one adopted in this study and given in equation (8.1), that is, $e^r = e^n \frac{p^f}{p^d}$. In this case, a rise in REER means real appreciation (loss of competitiveness). Alternatively, some institutions use the inverse relationship, that is, $e^r = \frac{1}{e^n} \frac{p^d}{p^f}$. In this situation, a rise in REER means real depreciation (gain in competitiveness). Either approach is valid as long as the interpretation of the results are in line with the formula used.

IX. TRADING COSTS

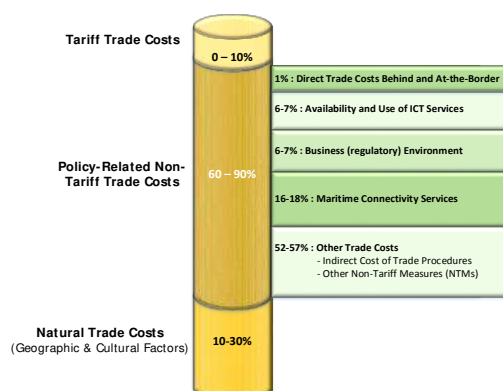
A. Why Border and Behind-the-Border Trade Costs Matter

While geographical distance remains a key factor in determining international transport and logistics costs, the long-term decline in international shipping costs has helped to level the playing field and shifted attention to border and behind-the border trade costs.⁶³ Unlike physical distance, economic distance can be reduced by lowering trade costs. Trade costs constitute a wedge between the cost of production at the origin and the price paid by consumers in destination markets. Trade costs can result from “natural” sources (geographic distance, transport costs, and common features between trading partners such as language, common history, and sharing a common border) or endogenous, policy-related characteristics such as logistical performance, international connectivity, tariffs, and nontariff barriers.

Overall, non-tariff trade costs account for as much as 90 percent of trade costs in developing economies. With rapidly falling shipping costs, what remains now are the large trade costs associated with indirect costs at-the-border and behind-the-border. These costs largely involve domestic, regional or international regulations and standards (Figure 9.1).⁶⁴ Tariffs, on average, account for no more than 10 percent of direct and indirect costs associated with factors other than transportation, whereas non-tariff measures (NTMs) can account for as much as 90 percent of those costs.

Those NTM costs, which include the costs of complying with a myriad of licenses, permits and certificates associated with moving goods across border, affect not only the international competitiveness of businesses in the region, but also the ability of small enterprises to understand the complexity of those measures and participate in regional and global value chains. Equally important for Central and South Asia businesses is the fact that trade in intermediate goods for production networks is more sensitive to trade costs than it is for final goods.⁶⁵

Figure 9.1. Trading Costs in Developing Countries



Source: World Bank (2014), “East Asia and Pacific Economic Update (April 2014)”. Washington, DC. Available: <http://www.worldbank.org/en/region/eap>.

⁶³ Global trade-weighted average transport costs have declined from 6 percent to 4 percent in the past 30 years.

⁶⁴ Available at <http://data.worldbank.org/data-catalog/trade-costs-dataset>.

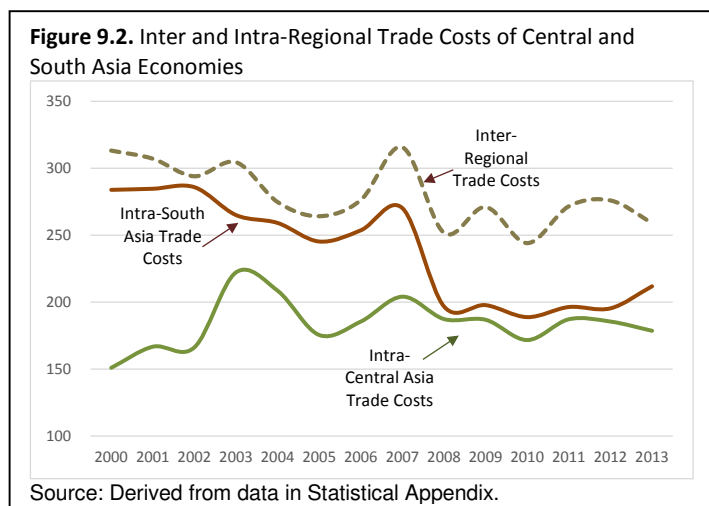
⁶⁵ D. Saslavsky and B. Shepherd (2012). “Facilitating International Production Networks: The Role of Trade Logistics”. Washington, DC: World Bank, Policy Research Working Papers. No. 6224. Available: <http://elibrary.worldbank.org/doi/book/10.1596/1813-9450-6224>.

B. Evidence on Intra- and Extra-Regional Trade Costs

Measurement of Central and South Asia trade costs is based on the joint UNESCAP-World Bank 'Bilateral Comprehensive Trade Costs' database.⁶⁶ It captures all costs involved in trading goods bilaterally relative to those involved in trading goods domestically. Those costs cover (a) international shipping and logistics costs; (b) tariff and non-tariff costs involving direct and indirect costs associated with trade procedures and regulations; and (c) costs from differences in language, culture and currencies. The Statistical Appendix presents detailed information on bilateral trading costs between Central and South Asian countries, both for the total of all trade costs and those that specifically make up non-tariff costs. Estimates for 2013 are based on available information of trade costs from various sources and extrapolations from recent years in which stable trends could be identified. Box 9.1 contains the technical definition, based on the explanatory notes for the UNESCAP-World Bank trade costs database.⁶⁷

1. Total Trade Costs

There are considerable differences in the long-term cost trends within and between the two regions. As Figure 9.2 shows, overall intra-South Asia trade costs trended downward throughout most of the 2000s, except for an upswing during the 2007 global financial crisis. However, the trend has reversed itself since 2010 as costs have escalated. In contrast, intra-regional trade costs in Central Asia generally trended upward in the 2000s, but have declined since the start of this decade. Trade costs between the two regions



declined by 17 percent between 2000 and 2013, with considerable short-term variability. On average, year-to-year movements during the period equaled ± 8 percent, and in several instances varied by as much as 10-20 percent in any one year.

These averages conceal large differences across and within the two regions. The ad valorem equivalents in Figure 9.3 show all additional costs other than tariff costs involved in trading goods bilaterally rather than domestically, based on data for 2010-2013. The average of the comprehensive trade costs, excluding tariffs, equals 175 ad valorem equivalent for the 17 bilateral trade flows in the two regions, and the range is from a low of 67 percent ad valorem

⁶⁶ UNESCAP (2014), "ESCAP-World Bank Trade Cost Database". Online: <http://artnet.unescap.org/trade-costs.asp>.

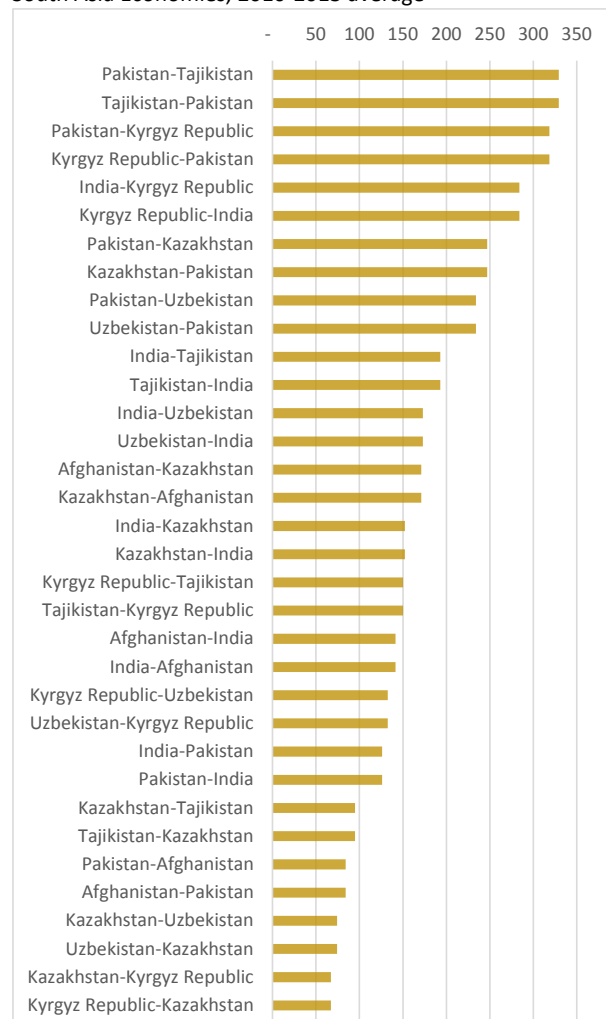
⁶⁷ Ibid. For more details, see J.-F. Arvis et al. (2013), "Trade Costs in the Developing World: 1995-2010", ARTNet Working Papers, No. 121. Available: <http://elibrary.worldbank.org/doi/abs/10.1596/1813-9450-6309>.

equivalent for Kazakhstan-Kyrgyzstan trade to over 300 percent ad valorem equivalent for trade between Pakistan and Tajikistan, and trade between Pakistan and Kyrgyzstan. Bilateral trade costs are repeated in the figure, for example, Pakistan trade costs with Tajikistan and Tajikistan trade costs with Pakistan, to emphasize that the coverage of costs applies to both countries. Thus costs incurred by Pakistan in trading with Tajikistan are symmetrical to those of Tajikistan's trade with Pakistan.

In Central Asia, Table 9.1 illustrates the types of formal and informal non-tariff barriers to trade that have been recently identified by the Central Asia Data Gathering and Analysis Team, under the Norwegian Institute of International Affairs (NUPI) and OSCE Academy in Bishkek, Kyrgyzstan.⁶⁸ Most countries in the region impose procedural and administrative obstacles on trade, as well as technical barriers to trade. Corruption is also widespread, both at the border and behind the border.

For 2014 Transparency International rated Turkmenistan, 169 out of 175 countries surveyed; Uzbekistan, 168; Tajikistan, 153; Kyrgyzstan, 138; and Kazakhstan, 129.⁶⁹ In South Asia, Afghanistan, 172 out of 175 countries surveyed; Pakistan, 131; and India, 86.

Figure 9.3. Non-Tariff Costs of Trade between Central and South Asia Economies, 2010-2013 average



Source: Derived from data in Statistical Appendix.

⁶⁸ Central Asia Data-Gathering and Analysis Team (CADGAT, 2013). Norwegian Institute of International Affairs (NUPI) and the OSCE Academy. Available: <http://www.osce-academy.net/upload/GADGAT/CADGAT10.pdf>.

⁶⁹ Transparency International, "Corruption Perception Index 2014: Results". Online: <http://www.transparency.org/cpi2014/results#myAnchor1>.

Table 9.1. Central Asia Formal and Informal Barriers to Trade

| Kazakhstan | | Kyrgyzstan | | Tajikistan | | Turkmenistan | | Uzbekistan | |
|--|--|--|---|--|--|---|---|--|--|
| Formal | Informal | Formal | Informal | Formal | Informal | Formal | Informal | Formal | Informal |
| <ul style="list-style-type: none"> • Membership in Customs Union is diverting trade from non-member countries. • Non-tariffs regulations and bans imposed on group of goods such as electricity, carpets, chicken, tinned goods and margarine. • Overly complex and time-consuming customs procedures. • Double certification procedures on raw materials and final products contradict the state system of control over final output, which implies certification of final products only. | <ul style="list-style-type: none"> • Weak governmental support of Kazak trade companies abroad. • Lack of information about foreign markets. • Underdeveloped transport infrastructure and extreme distances to sea ports. • High transport costs. | <p>No serious formal trade regulation instruments. Instead, trade is subject to large formal obstacles in neighboring countries, particularly Kazakhstan and Uzbekistan.</p> | <p>High degree of corruption of customs officers.</p> | <ul style="list-style-type: none"> • Logistical costs of trading in Tajikistan account for 22–25% of merchandise trade value: one of the highest ratios in the world. • Landlocked geographical conditions, poor customs infrastructure and transit system through Uzbekistan that creates serious disruptions to international trade add significantly to logistics costs. • The system of double certification on both raw materials and final products contradicts the state system of control over final production. • Tajikistan ranked second-to-last (188 out of 189 countries) in ease of trade indicators in the World Bank's Doing Business 2015 survey. • Poor trade facilitation. | <ul style="list-style-type: none"> • Complex and time-consuming customs procedures. • Protection of local producers. | <ul style="list-style-type: none"> • Unpredictable changes in tariff rates. • Restrictions on imports of products such as cigarettes, medical drugs, alcohol. • Restrictions on export of products of high national value like Turkmen carpets and raw materials. • Prohibitions, quotas and licenses on trade in goods that affect national security, public health and the environment, or are deemed to contravene social norms. | <ul style="list-style-type: none"> • Difficulties in getting quotas and licenses for trade activity. • Control by oligarchy of some businesses such as building materials, cigarettes, and alcohol. | <ul style="list-style-type: none"> • Frequent and unpredictable changes in tariff rates. • Quantitative restrictions on trade in goods that have implications for national security, public health and the environment, or are deemed to contravene social norms. • Uzbekistan ranked last (189 out of 189 countries) in ease of trade indicators in the World Bank's Doing Business 2015 survey. | <ul style="list-style-type: none"> • Foreign currency conversion difficulties, despite introduction of full local currency convertibility since 2003. • Lengthy closure of borders for exports of agricultural products, aimed at lowering prices in domestic market. • Some products like chewing gum, toys, cigarettes, and used equipment are not able to access foreign currency conversion because they are discouraged by the government. |

Source: Central Asia Data-Gathering and Analysis Team (CADGAT, 2013). Norwegian Institute of International Affairs (NUPI) and the OSCE Academy. Available: <http://www.osce-academy.net/upload/GADGAT/CADGAT10.pdf>.

Table 9.2 Ease of Trading across Borders in Central and South Asia Economies

| | Rank (out of 183) | Country | EXPORTS | | | IMPORTS | | |
|---------------------------|----------------------|-----------------|------------------------------------|---------------------------------|----------------|------------------------------------|---------------------------------|-------------|
| | | | Documents to export (number) | Per Container Time (days) | Cost (US\$) | Documents to import (number) | Per Container Time (days) | Cost (US\$) |
| Easiest | 108 | Pakistan | 8 | 21 | 765 | 8 | 18 | 1,005 |
| ↑ ↓ | 126 | India | 7 | 17 | 1,332 | 10 | 21 | 1,462 |
| | 183 | Kyrgyz Republic | 9 | 63 | 4,760 | 11 | 73 | 6,000 |
| | 184 | Afghanistan | 10 | 86 | 5,045 | 10 | 91 | 5,680 |
| | 185 | Kazakhstan | 10 | 79 | 5,285 | 12 | 67 | 5,265 |
| | 188 | Tajikistan | 11 | 71 | 9,050 | 12 | 70 | 10,650 |
| Most Difficult | 189 | Uzbekistan | 11 | 54 | 5,090 | 13 | 104 | 6,452 |

Source: World Bank (2014), "Trading across Borders". In *Doing Business 2015*. Washington, DC. Available: <http://www.doingbusiness.org/>.

Box 9.1. Definition of Trade Costs

The UNESCAP-World Bank 'Bilateral Comprehensive Trade Costs' database is based on the work of J.E. Anderson and E. van Wincoop in their 2004 survey of the measurement of trade costs and suggestions for improvement estimates of the ad valorem tax equivalent of those costs. Trade costs are the price equivalent of the reduction of international trade compared with the potential implied by domestic production and consumption in the origin and destination markets. Total costs are broken down into tariff and non-tariff related costs.

Bilateral comprehensive trade costs are associated with both importing and exporting goods between a country i and its trading partner j . The total trade cost indicator can be denoted TC_{ij} and is measured in its ad valorem equivalent form.

Bilateral tariff costs are bi-directional and represent a geometric average of the tariffs imposed by the trading countries on imports from one another. They are defined as follows:

$$TG_{ij} = \sqrt{(1 + t_{ij})(1 + t_{ji})} \quad (9.1)$$

Where TG_{ij} = Geometric average of tariffs imposed by both trading partners on each other.

t_{ij} = Ad valorem tariff imposed by country i on country j .

t_{ji} = Ad valorem tariff imposed by country j on country i .

Bilateral non-tariff costs are defined as the comprehensive trade costs that exclude trade costs. They are calculated as follows:

$$NT_{ij} = \left\{ \left(\frac{1 + \frac{TC_{ij}}{100}}{TG_{ij}} \right) - 1 \right\} / 100 \quad (9.2)$$

Since recent advances in regional and multilateral trade negotiations have focused on trade facilitation, the used of these bilateral non-tariff costs are an appropriate measure of costs associated with trade facilitation and logistics issues.

At-the-border-costs are also high in the Central and South Asia economies. Those costs are associated with the time and cost of shipping goods across borders and the complexity of procedures needed to ship the goods. Table 9.2 shows that all Central Asian countries as well as Afghanistan rank in the bottom 3 percent of countries in terms of ease of trading across borders; India ranks in the lower one-third; and Pakistan in the lower half.⁷⁰

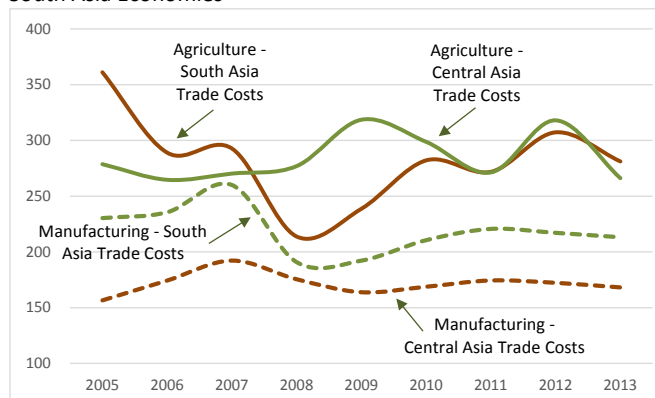
2. Agriculture versus Manufactures

Trade costs of agricultural products are considerably higher than those of manufacturing products in both regions. Figure 9.4 shows the cost differences since the mid-2000s. In Central Asia, agricultural trade costs are two-thirds higher than those of manufacturing products and, in South Asia, agricultural products cost almost 30 percent more to trade than manufacturing products.

Moreover, year-to-year variations in agricultural trade costs are much higher than those of manufacturing products in both regions. In Central Asia the absolute value of annual percentage variations in agricultural trade costs are 50 percent higher in manufactures, and in South Asia they are almost twice as high.

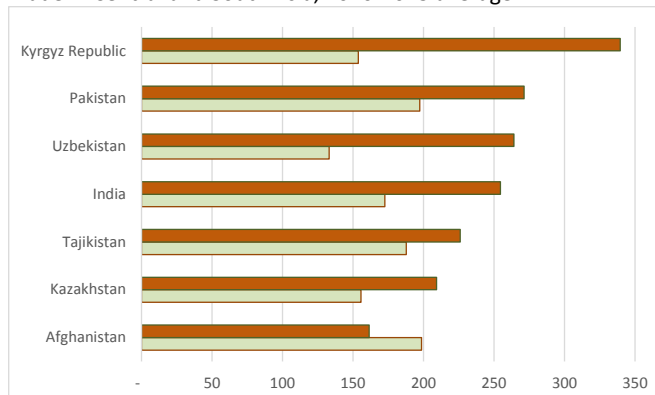
At the country level, all additional costs other than tariff costs involved in trading agricultural goods bilaterally rather than domestically ranges from 161 percent ad valorem equivalent in Afghanistan to nearly 340 percent ad valorem equivalent in Kyrgyzstan (Figure 9.5). Manufacturing trade costs are, in fact, higher in Afghanistan than in agricultural trade costs, whereas Kyrgyzstan's manufacturing trade costs are less than half of those for agricultural products. On average, agricultural trade costs are 50 percent higher than those of agricultural products in the Central and South Asia economies.

Figure 9.4. Inter and Intra-Regional Trade Costs of Central and South Asia Economies



Source: Derived from data in Statistical Appendix.

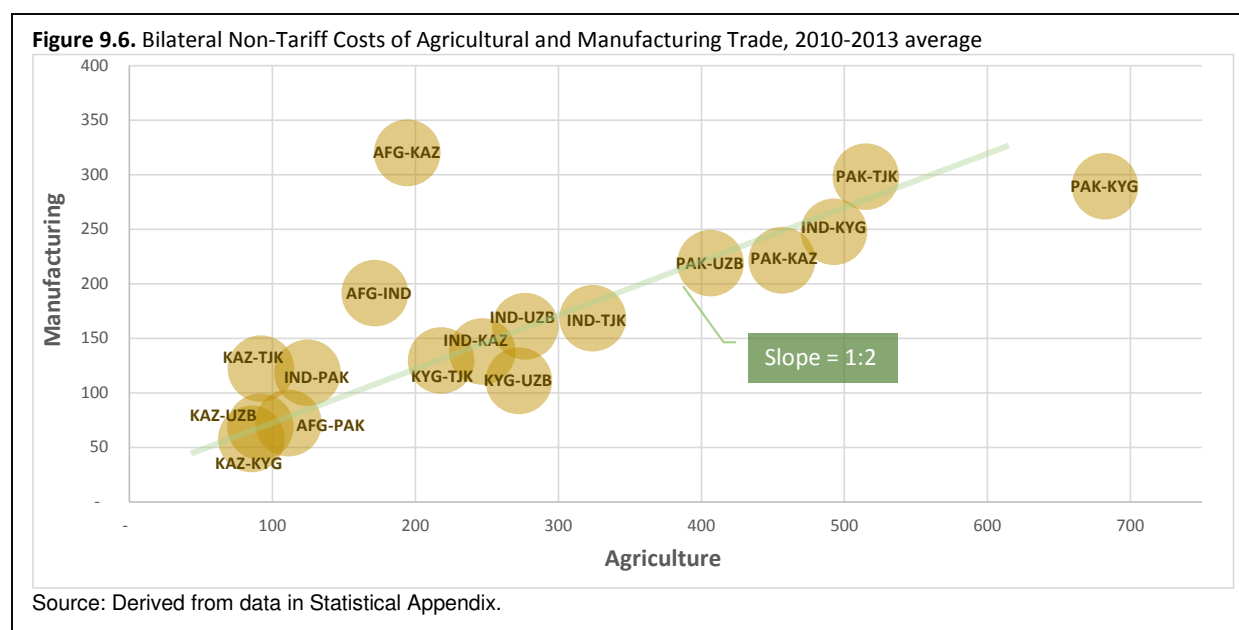
Figure 9.5. Non-Tariff Costs of Agricultural and Manufacturing Trade in Central and South Asia, 2010-2013 average



Source: Derived from data in Statistical Appendix.

⁷⁰ World Bank (2014), "Trading across Borders". In *Doing Business 2015*. Washington, DC. Available: <http://www.doingbusiness.org/>.

Bilateral trade costs differentials between agricultural and manufacturing products are fairly consistent within and across the two regions. Figure 9.6 shows the two-to-one relationship between bilateral trade costs of the two types of products. A 1:2 slope suggests that agricultural products are likely to be twice as costly to trade as manufactures between trading partners. The major exceptions are trade between Pakistan and Kyrgyzstan, where agricultural trade costs are 2.4 times more expensive than those of manufacturing products; and trade between Afghanistan and Kazakhstan, where the costs of agricultural trade other than those associated with tariffs are 40 percent lower than those of manufacturing products.



C. Trade Facilitation

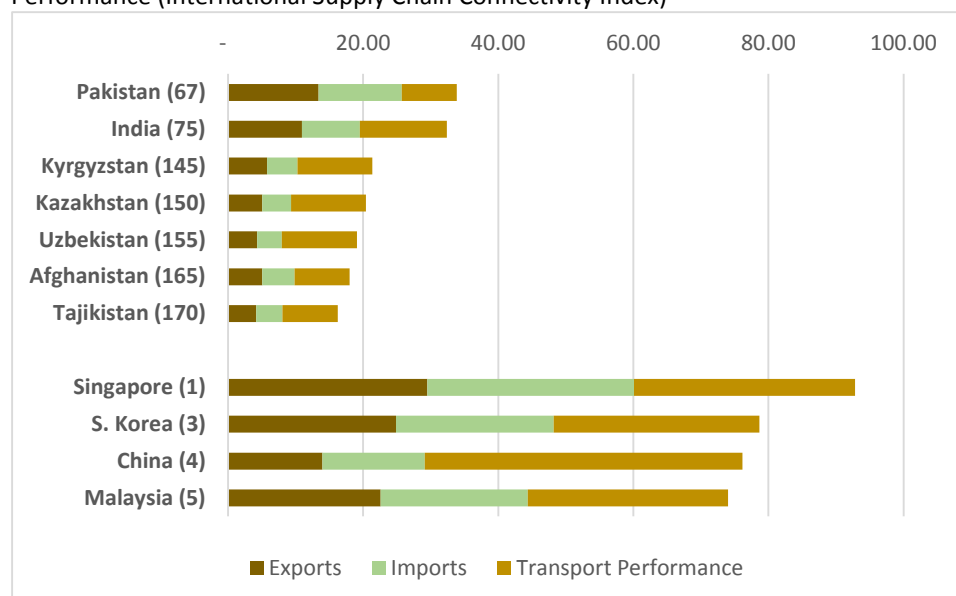
The Agreement on Trade Facilitation (ATF) concluded with its amendments on 27 November 2014 represents a major step towards reducing trade costs by expediting the release of customs goods and by cooperation between the customs authorities and other on trade facilitation and customs compliance authorities. The ATF is the first major multilateral trade agreement that has been concluded since the WTO itself was established in 1995. It goes well beyond the old view that trade facilitation should only focus on improving transactions at the border; instead, the AFT covers the entire range of issues impacting on trade costs along the supply chain.

The AFT will help address key issues for Central and South Asia's enterprises on behind-the-border issues, ranging from the importation of materials and components to the delivery of their products to markets. It recognizes that greater access to those markets provided by bilateral, regional and multilateral agreements needs to be complemented by measures that improve the ability of enterprises to compete on a level playing field if they are to effectively engage in international value chains.

These measures are especially important for all the countries in the two regions since they all score poorly in measures of international logistics and supply chain connectivity, especially when

compared with the world's most connected economies, located in the East Asia region: Singapore, Republic of Korea, China, and Malaysia, along with Hong Kong province of China (Figure 9.7). The Central Asian countries in particular all rank in the lowest quintile of a total of 177 countries in cross-country measures of supply chain performance. These ratings are based on the ISCC index, which measures connectivity performance based on the average of trading-across-borders indicators for exports and imports in the World Bank's Doing Business Report as well as UNCTAD's Linear Shipping Connectivity Index (LSCI) score. For landlocked countries, since they have no seaports, the study uses LSCI from the main transit country as a proxy to calculate their international shipping component.

Figure 9.7. Factors Explaining Central and South Asia's Connectivity, 2012-2014 Performance (International Supply Chain Connectivity Index)



Source: ESCAP, International Supply Chain Connectivity (ISCC) Database. Available: <http://www.unescap.org/tid/artnet/iscci.asp>.

On the positive side, three countries have substantially improved their overall International Supply Chain Connectivity Index measuring overall trade facilitation performance along the international supply chain. Between the mid-2000s and 2014, India improved its overall performance by 71 percent; Kyrgyzstan by 69 percent; and Uzbekistan by 64 percent because of improvements in their transport performances. Otherwise, these countries experienced little, if any, change in their underlying import and export indicators related to number of documents, time, and cost involved in trading across borders.

Other countries in the two regions have experienced deteriorations in their import and export indicators in the last 10 years. Afghanistan's combined import and export indicators fell by 20 percent, and Tajikistan's comparable indicators fell by 17 percent. In Kazakhstan and Pakistan, those performance indicators for number of documents, time, and cost involved in trading across borders fell by 8 to 10 percent during the period. These unfavorable trends point to the need for a reversal in trade facilitation trends, especially for those measures supporting regional and global production networks by (a) facilitating import of parts and components and their movement to a production facility; and (b) facilitating export of the processed good. While some

of these measures involve stroke-of-pen reforms that would eliminate trade impediments within a short time period, many NTMs require deeper reforms. For example, dissemination of information that helps businesses to initiate and sustain trade-related activities needs a great deal of investment in the full range of areas that meets specific requirements of different businesses. Broad information dissemination has little practical use to the private sector.

D. Ratings

Based on the evaluation methodology described in Chapter 3 and the estimates presented in this chapter, Table 9.3 shows the scores assigned to trade costs and trade facilitation in each country.

Table 9.3. Regional Trade Impact of Trade Costs and Trade Facilitation Measures

| | Strongly Discourages | Discourages | Neither | Supports | Strongly Supports |
|--|----------------------|-------------|---------|----------|-------------------|
| A. Impact of all costs involved in trading goods intra- or inter-regionally relative to those involved in trading goods domestically | | | | | |
| 1 Kazakhstan | 1 | 2 | 3 | 4 | 5 |
| 2 Kyrgyzstan | 1 | 2 | 3 | 4 | 5 |
| 3 Tajikistan | 1 | 2 | 3 | 4 | 5 |
| 4 Turkmenistan | 1 | 2 | 3 | 4 | 5 |
| 5 Uzbekistan | 1 | 2 | 3 | 4 | 5 |
| 6 Afghanistan | 1 | 2 | 3 | 4 | 5 |
| 7 India | 1 | 2 | 3 | 4 | 5 |
| 8 Pakistan | 1 | 2 | 3 | 4 | 5 |
| B. Impact on intra- and inter-regional trade of discretionary non-tariff trade policies that differentiate between agricultural and manufacturing goods | | | | | |
| 1 Kazakhstan | 1 | 2 | 3 | 4 | 5 |
| 2 Kyrgyzstan | 1 | 2 | 3 | 4 | 5 |
| 3 Tajikistan | 1 | 2 | 3 | 4 | 5 |
| 4 Turkmenistan | 1 | 2 | 3 | 4 | 5 |
| 5 Uzbekistan | 1 | 2 | 3 | 4 | 5 |
| 6 Afghanistan | 1 | 2 | 3 | 4 | 5 |
| 7 India | 1 | 2 | 3 | 4 | 5 |
| 8 Pakistan | 1 | 2 | 3 | 4 | 5 |
| C. Impact of procedural, regulatory and technical barriers to trade on ease of trading across borders | | | | | |
| 1 Kazakhstan | 1 | 2 | 3 | 4 | 5 |
| 2 Kyrgyzstan | 1 | 2 | 3 | 4 | 5 |
| 3 Tajikistan | 1 | 2 | 3 | 4 | 5 |

| | | | | | | |
|---|--------------|---|---|---|---|---|
| 4 | Turkmenistan | 1 | 2 | 3 | 4 | 5 |
| 5 | Uzbekistan | 1 | 2 | 3 | 4 | 5 |
| 6 | Afghanistan | 1 | 2 | 3 | 4 | 5 |
| 7 | India | 1 | 2 | 3 | 4 | 5 |
| 8 | Pakistan | 1 | 2 | 3 | 4 | 5 |

| D. <i>Impact of trade facilitation measures on intra- and inter-regional trade</i> | | | | | | |
|--|--------------|---|---|---|---|---|
| 1 | Kazakhstan | 1 | 2 | 3 | 4 | 5 |
| 2 | Kyrgyzstan | 1 | 2 | 3 | 4 | 5 |
| 3 | Tajikistan | 1 | 2 | 3 | 4 | 5 |
| 4 | Turkmenistan | 1 | 2 | 3 | 4 | 5 |
| 5 | Uzbekistan | 1 | 2 | 3 | 4 | 5 |
| 6 | Afghanistan | 1 | 2 | 3 | 4 | 5 |
| 7 | India | 1 | 2 | 3 | 4 | 5 |
| 8 | Pakistan | 1 | 2 | 3 | 4 | 5 |

X. STRUCTURAL FACTORS IN TRADE

A. Export Performances

1. Intra-Regional Trade Performance

Export performance is measured by a country's change in market shares. Figure 10.1 shows the export performance of each South and Central Asian country relative to imports of all its intra-regional trading partners. Exports of each country are weighted by the value of exports to each trading partner in each year, while regional imports are weighted by the total value of imports of each country in the region for a given year.

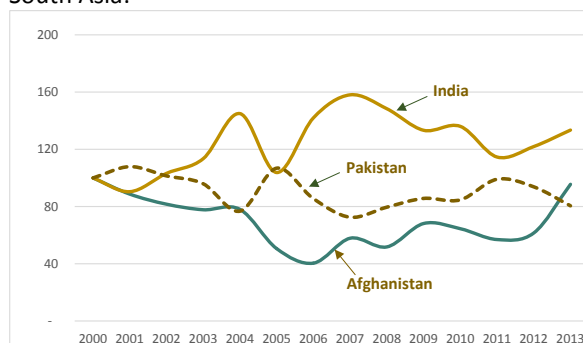
In South Asia, Afghanistan's export performance in the intra-regional market has significantly improved since 2006. Its market share in South Asian rose from 4 percent in 2006 to 10 percent in 2013. However, the improvement represented a recovery of earlier declines since the early 2000s. India's intra-regional export performance has gradually improved, albeit with considerable year-to-year variations. Its intra-regional market share rose from 34 percent to 45 percent. These gains have occurred at the expense of Pakistan, which began the millennium with around 60 percent of the intra-regional market and whose share eroded by 15 percentage points by 2013.

In Central Asia, Kazakhstan has experienced the best export performance. Its intra-regional market share rose from 42 percent in 2000 to 60 percent in 2013, notwithstanding some erosion in those market shares since 2010. In contrast, there has been a considerable worsening of the intra-regional export performance of Turkmenistan and, to a somewhat lesser degree, Kyrgyzstan. For Turkmenistan, the decline was largely due to reduced exports directed at Kazakhstan, though trade with that country has increased significantly since 2011. Turkmenistan does not report any exports to either Tajikistan or Uzbekistan, so its performance is largely determined by trade with Kazakhstan and, to a considerably lesser extent, with Kyrgyzstan.

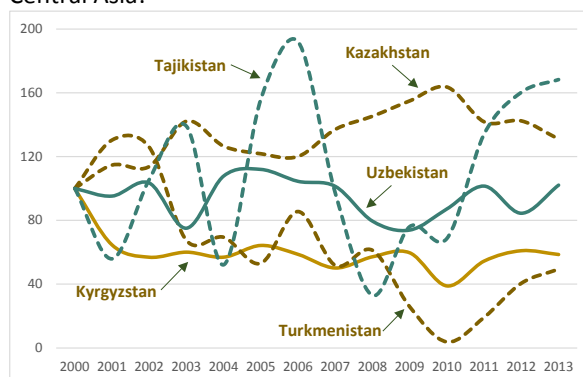
For its part, Tajikistan's export performance has varied greatly. But the large year-to-year changes are due to the very small intra-regional market share of that country, which has averaged only 1

Figure 10.1: Intra-Regional Market Shares, 2000-2013

South Asia:



Central Asia:



Source: Derived from data in United Nations, COMTRADE database.

percent of the total. So small changes in export market shares tend to be magnified when measured as an index.

2. Inter-Regional Trade Performance

Figure 10.2 shows the inter-regional export performance of each South and Central Asian country relative to imports of all its intra-regional trading partners. As with intra-regional trade in the previous section, exports of each country are weighted by the value of exports to each trading partner in each year, while regional imports are weighted by the total value of imports of each country in the region for a given year.

In South Asia, Afghanistan's export performance in the inter-regional market has deteriorated. Its market share in South Asia fell from a high of 13 percent in 2001 to 2 percent in 2013. In contrast, India's inter-regional export performance has strengthened. Its inter-regional market share rose from 83 percent to 89 percent during the period. Pakistan's market share of inter-regional trade has remained unchanged between 2000 and 2013. However, in the years in between its market shares fell from 9 percent to 4 percent in 2008, and then recovered to 9 percent by 2013.

In Central Asia, there have been large year-to-year variations in the inter-regional export performance of all the countries. Kazakhstan and Uzbekistan have the largest shares of inter-regional trade with South Asia. Kazakhstan's export market share nearly doubled in the 2000s, but after 2009 its share fell sharply and by 2013 it had declined to 23 percent. Uzbekistan has retained most of its inter-regional export market share since 2000, but it experienced large year-to-year changes in its share in the intervening years. Tajikistan, Turkmenistan and Kyrgyzstan also experienced large year-to-year variations in their inter-regional market shares, but their recent market shares are similar to those in 2000.

B. Constant-Market Share Analysis

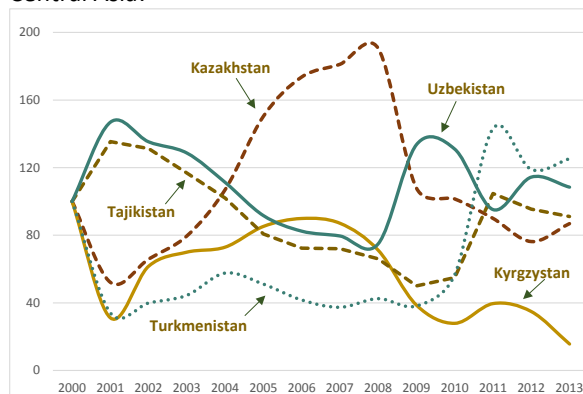
Export performance is influenced by not only price (see Chapter 8) and non-price competitiveness (see Chapter 9), but also by the composition of exports. The composition of exports, in turn, refers to both the geographic destination of exports and the type of products exported. In this context, a country's export performance can be strong even though its price

Figure 10.2: Inter-Regional Market Shares, 2000-2013

South Asia:



Central Asia:



Source: Derived from data in United Nations, COMTRADE database.

competitiveness is modest or weak if either the demand for goods in an export market is particularly strong or the market for the types of goods exported is especially robust. In contrast, a country's price competitiveness may be strong but its export performance can nonetheless be weak because exports are directed to slowly expanding geographic markets or poorly performing product markets.

One way to separate a country's structural factors related to the geographic and commodity composition of its exports from competitiveness factors is through constant-market-share (CMS) analysis.⁷¹ This technique decomposes a country's export growth into parts attributed to the general rise in world exports, the commodity composition, and the effect of competitiveness changes. Another way to describe the technique is that it serves to decompose a country's export growth relative to that of either or both overall regional exports and total world exports into (a) the portion of export growth concentrated in commodities in which the demand is either expanding relatively fast or growing at a relative slow rate compared with other markets; (b) export growth associated with relatively fast or slow growing trading partners within the Central and South Asia region; and (c) ability of each focal country to compete with other sources of supply. As such, it provides a way to measure whether a country's exports are succeeding (failing) to grow as rapidly as the world average for three reasons: (i) exports are concentrated in commodities whose demand is growing relatively fast (slowly); (ii) exports are destined for relatively fast growing (stagnant) regions; and (iii) exports are able (unable) to compete with other supply sources.

The *structure effect* refers to the change in a country's exports when its global market share remains constant. It simply describes export demand-related changes that are associated with changes in world imports. The differences between overall changes and actual changes that take place are associated with three structural effects:

- (a) *Product composition effect*, which measures whether the country's specialization of exports are directed towards dynamic products in the world market;
- (b) *Market-distribution effect*, which measures whether exports are directed to dynamic export markets; and
- (c) *Residual effect*, which measures the interaction of product and market specialization.

The *competitiveness effect* refers to the difference between the actual export change and the hypothetical change if the country had maintained its share of export of each commodity group to each country. It is measured by the difference between actual change in overall exports and the structure effect.

It is important to emphasize that CMS analysis is CMS lacks causality and therefore is not intended to identify the reasons underlying a change in a country's export performance identified by their

⁷¹ The original CMS approach was developed by Edward Leamer and Robert Stern methodology, using the methodology first proposed by (1951). See E.E. Leamer and R.M. Stern (1970), Quantitative International Economics. Boston: Allyn and Bacon International Series in Economics. Available: <https://ideas.repec.org/a/eee/inecon/v1y1971i3p359-361.html>.

export differential associated, for example, with changes in domestic cost structure or the exchange rate. Instead, the CMS components show the structural characteristics associated with shifts in export growth.

The results of the decomposition analysis for changes in exports of the Central and South Asian countries to both regions between 2000-03 and 2010-13 are shown in Table 10.1. The visual representation of those results are presented in Figure 10.3. The following are highlights of analysis:

- ▶ *Regional Import Growth Effect:* This effect shows the growth in exports that would have occurred had the exporting country maintained a constant share of the regional market. In the case of Afghanistan, exports would have grown by 90 percent of the actual increase that took place between the two periods. In other words, rather than having expanded by US\$331 million, they would only have increased by US\$297 million. Other countries whose percentage change in exports exceeded that of regional imports were Uzbekistan, Tajikistan, Kazakhstan and India. Between 2000-03 and 2010-13, total regional imports grew by 511 percent. Afghanistan's exports to regional trade partners expanded by 586 percent, that of Uzbekistan by 742 percent, Tajikistan by 618 percent, Kazakhstan by 602 percent, and India by 524 percent. In contrast, Turkmenistan's, Kyrgyzstan's and Pakistan's exports grew by less than overall regional imports. Between 2000-03 and 2010-13, Turkmenistan's exports increased by only 184 percent, Kyrgyzstan's exports increased by 308 percent, and Pakistan's exports grew by 430 percent.
- ▶ *Commodity Composition Effect:* Afghanistan was the only country to have focused its exports on high growth commodity markets in the region between 2000-03 and 2010-13. Its positive commodity structure drove exports 42 percent above the overall growth of intra- and inter-regional trade during the period. Kazakhstan and Tajikistan also benefitted from the structure of their commodity exports, but by a considerably smaller amount. Kazakhstan's exports expanded by 13 percent more than did overall intra- and inter-regional trade growth; and Tajikistan's exports expanded grew by 9 percent above the overall increase in intra- and inter-regional trade. In contrast, Turkmenistan's and Kyrgyzstan's exports experienced substantially less-than-proportional increases in their exports because of their commodity composition. Turkmenistan's exports were 39 percent below the growth in overall intra- and inter-regional trade during the period, while that of Kyrgyzstan's exports was 36 percent below the growth experienced by overall intra- and inter-regional trade. India, Pakistan and Uzbekistan also experienced less-than-proportional increases in their exports, relative to overall intra- and inter-regional trade growth.
- ▶ *Market Distribution Effect:* Turkmenistan, Kyrgyzstan and Pakistan had large market share losses because exports were focused on slow-growing trading partners. Turkmenistan's exports to the region were 178 percent below what they would otherwise have been had they maintained the same proportion as the overall geographic distribution of imports from intra- and inter-regional trade. Likewise, Kyrgyzstan's exports were 66 percent below overall intra- and inter-regional trade because of their unfavorable geographic distribution among trading partners. Pakistan's exports grew by 19 percentage points

below regional trade because of their geographic distribution. Unlike those three countries, Uzbekistan, Tajikistan, Kazakhstan, Afghanistan and India all expanded their exports above overall intra- and inter-regional trade because of their distribution to fast-growing trading partners. The magnitude of that structural effect of their exports ranged from a low of 2 percent for India to a high of 23 percent for Uzbekistan.

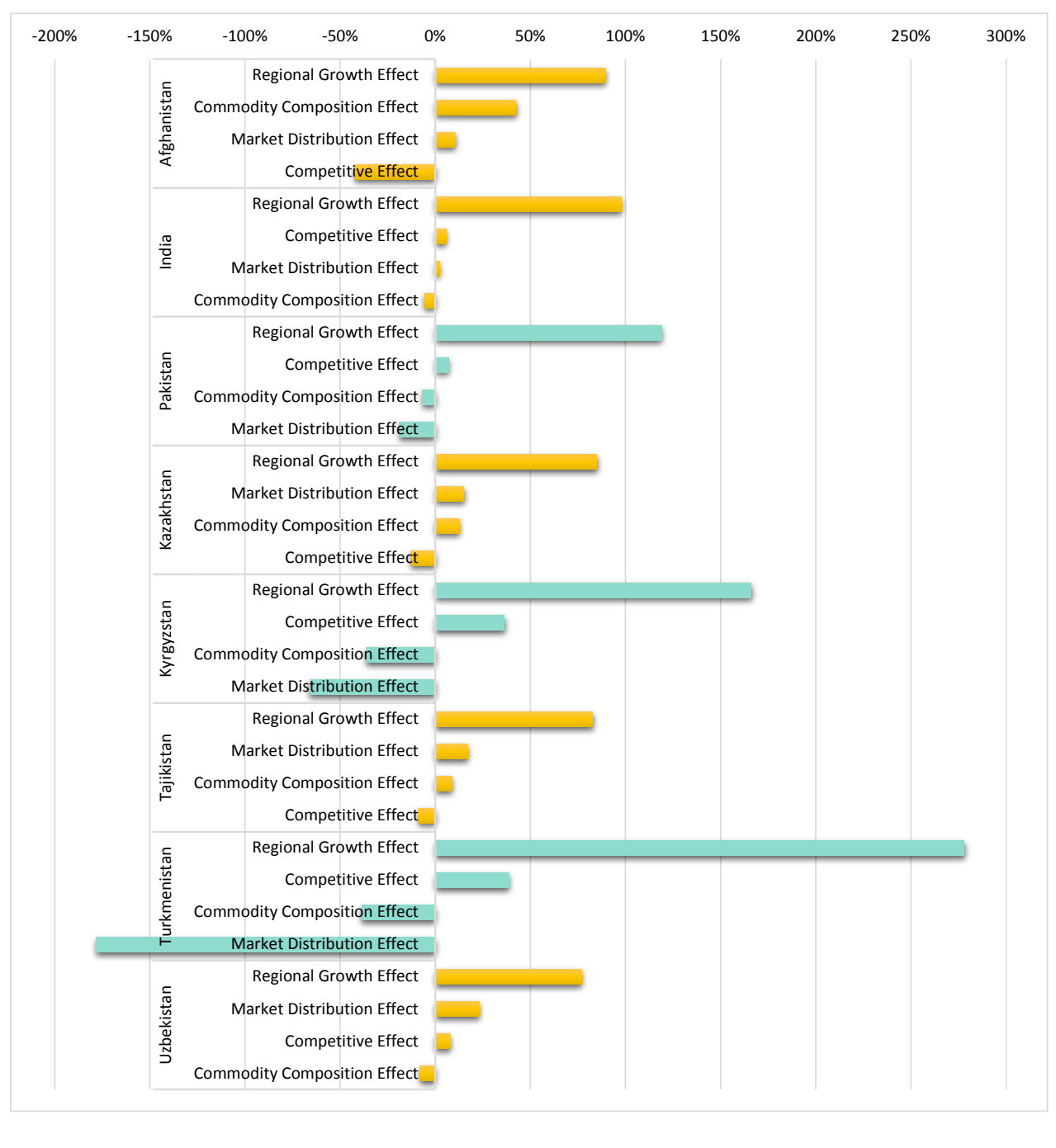
- *Price and Non-Price Competitive Effect:* Turkmenistan and Kyrgyzstan benefitted substantially from price and non-price factors affecting their trade within the two regions. Turkmenistan's exports rose by 39 percent above that of overall intra- and inter-regional trade because of those effects, while Kyrgyzstan's exports rose by 36 percent above overall trade. Uzbekistan, Pakistan and India also benefitted by between 6 and 8 percent because of those price and non-price effects. In comparison, Afghanistan suffered a 42 percent loss in the amount of intra- and inter-regional trade that took place because of its lack of price and non-price competitiveness, and Kazakhstan experienced a 13 percent loss in its exports because of its lack of competitiveness. Tajikistan's loss in exports associated with its lack of price and non-price competitiveness was somewhat lower at 9 percent.

Table 10.1: Decomposition Analysis of Exports to Central and South Asia between 2000-03 and 2010-13

| Total Change in Exports to Regions | | | Percentage Decomposition of Export Growth between 2000-2003 and 2010-2013 | | | |
|------------------------------------|-----------------------|-------------------------------------|--|------------------------------------|----------------------------------|---|
| | Million US dollars | Sum of Decomposition Analysis | Regional Import Growth Effect | Commodity Composition Effect | Market Distribution Effect | Price and Non- Price Competitive Effect |
| Afghanistan | 331.0 | 100% | 90% | 42% | 10% | -42% |
| India | 2,412.8 | 100% | 98% | -6% | 2% | 6% |
| Pakistan | 2,190.3 | 100% | 119% | -7% | -19% | 7% |
| Kazakhstan | 2,794.7 | 100% | 85% | 13% | 15% | -13% |
| Kyrgyzstan | 409.3 | 100% | 166% | -36% | -66% | 36% |
| Tajikistan | 122.4 | 100% | 83% | 9% | 17% | -9% |
| Turkmenistan | 276.0 | 100% | 278% | -39% | -178% | 39% |
| Uzbekistan | 1,474.8 | 100% | 77% | -8% | 23% | 8% |

Source: Derived from data in United Nations, Comtrade database.

Figure 10.3: Measuring Export Performance and Constant-Market Share Analysis



Box 10.1. Measuring Export Performance and Constant-Market Share Analysis

- *Market Shares Index*: This index measures the share of a country's exports in the Central Asia or South Asia market. The export market share index (S) is defined as follows:

$$S_{ij} = \frac{X_{ij}}{M_j} \quad \dots(10.1)$$

where X_{ij} represents exports of country i to market j and M_j represents imports of market j . The ratio is normalized to an index with base 2000=100 in order to allow inter-country and inter-market comparisons.

- *Constant-Market-Share Analysis*: Changes in the share of a country's exports in the Central Asia or South Asia market are separated into the following components:

$$V_t^A - V_0^A = g^* V_0^A + \sum_k (g_k^* - g^*) V_{k0}^A + \sum_j \sum_k (g_{jk}^* - g_k^*) V_{jk0}^A + \sum_j \sum_k (V_{jkt}^A - V_{jk0}^A - g_{jk}^* V_{jk0}^A) \quad \dots(10.2)$$

where

$$V_t^A - V_0^A$$

represents the actual change in exports of country V^A between period 0 and period t .

$$g^* V_0^A$$

represents the growth of exports of country V^A from period 0 due to the general rise in Central and South Asia regional exports, denoted g^* .

$$\sum_k (g_k^* - g^*) V_{k0}^A$$

represents the growth of exports of country V^A from period 0 due to the commodity composition of exports, where g_k^* denotes the region's exports of product k and V_{k0}^A is the value of country A's exports of product k .

$$\sum_j \sum_k (g_{jk}^* - g_k^*) V_{jk0}^A$$

represents growth of exports of country V^A from period 0 due to the geographic market distribution of exports, where g_{jk}^* denotes the region's exports of product k to trading partner j , and V_{jk0}^A is the value of country A's exports of product k to trade partner j .

$$\sum_j \sum_k (V_{jkt}^A - V_{jk0}^A - g_{jk}^* V_{jk0}^A)$$

represents growth of exports of country V^A from period 0 due to the interaction of product and market specialization.

Sources: M. Dyadkova and G. Momchilov (2014), "Constant Market Shares Analysis Beyond the Intensive Margin of External Trade". Bulgarian National Bank. Available:

http://www.bnb.bg/bnbweb/groups/public/documents/bnb_publication/discussion_2014_94_en.pdf, and World

Bank (2013), "Online Trade Outcomes Indicators - User's Manual". Washington, DC. Available:

<http://wits.worldbank.org/WITS/docs/TradeOutcomes-UserManual.pdf>.

C. Ratings

Table 10.2 shows the scores assigned to changes in market shares in each country, based on the evaluation methodology described in Chapter 3 and the analysis of the topics in this chapter.

Table 10.2. Summary Assessment of Changes in Market Shares

| | | Strongly Discourages | Discourages | Neither | Supports | Strongly Supports |
|--|--------------|-------------------------|-------------|---------|----------|----------------------|
| A. The commodity composition of trade has encouraged regional exports | | | | | | |
| 1 | Kazakhstan | 1 | 2 | 3 | 4 | 5 |
| 2 | Kyrgyzstan | 1 | 2 | 3 | 4 | 5 |
| 3 | Tajikistan | 1 | 2 | 3 | 4 | 5 |
| 4 | Turkmenistan | 1 | 2 | 3 | 4 | 5 |
| 5 | Uzbekistan | 1 | 2 | 3 | 4 | 5 |
| 6 | Afghanistan | 1 | 2 | 3 | 4 | 5 |
| 7 | India | 1 | 2 | 3 | 4 | 5 |
| 8 | Pakistan | 1 | 2 | 3 | 4 | 5 |
| B. The geographic composition of trade has encouraged regional exports | | | | | | |
| 1 | Kazakhstan | 1 | 2 | 3 | 4 | 5 |
| 2 | Kyrgyzstan | 1 | 2 | 3 | 4 | 5 |
| 3 | Tajikistan | 1 | 2 | 3 | 4 | 5 |
| 4 | Turkmenistan | 1 | 2 | 3 | 4 | 5 |
| 5 | Uzbekistan | 1 | 2 | 3 | 4 | 5 |
| 6 | Afghanistan | 1 | 2 | 3 | 4 | 5 |
| 7 | India | 1 | 2 | 3 | 4 | 5 |
| 8 | Pakistan | 1 | 2 | 3 | 4 | 5 |
| C. Price and non-price competitiveness have led to more-than-proportional increases in exports relative to overall regional trade | | | | | | |
| 1 | Kazakhstan | 1 | 2 | 3 | 4 | 5 |
| 2 | Kyrgyzstan | 1 | 2 | 3 | 4 | 5 |
| 3 | Tajikistan | 1 | 2 | 3 | 4 | 5 |
| 4 | Turkmenistan | 1 | 2 | 3 | 4 | 5 |
| 5 | Uzbekistan | 1 | 2 | 3 | 4 | 5 |
| 6 | Afghanistan | 1 | 2 | 3 | 4 | 5 |
| 7 | India | 1 | 2 | 3 | 4 | 5 |
| 8 | Pakistan | 1 | 2 | 3 | 4 | 5 |

PART III. MEASURING REGIONAL TRADE AND VALUE CHAIN OPPORTUNITIES

XI. REGIONAL TRADE AGREEMENTS AND GRAVITY MODELS

A. Bilateral and Regional Trade Agreements

The Central Asian countries (except Turkmenistan) and the South Asian countries have bilateral trade agreements (BTAs) with regional partner countries, but there are no BTAs between countries from the two regions (Table 11.1). The Afghanistan India Preferential Trade Agreement was signed in 2003. Few products covered under this bilateral agreement are eligible for preferential access. So far, India has reduced tariffs on 38 products, while Afghanistan has given India concessionary rates for 8 products.⁷² For Afghanistan-Pakistan trade, a transit agreement was concluded in 2010, which allows Afghanistan to transit duty-free goods overland through Pakistan and via Pakistani ports to other countries. The agreement does not, however, permit India to transit goods through Pakistan for export to Afghanistan, as Pakistan and India continue to impose restrictions on their bilateral trade owing to security concerns.⁷³

Regional trade arrangements are in the form of free trade agreements (FTAs), transport and trade facilitation (TTF) agreements, transit trade agreements (TTAs), and customs unions (CUs) (Table 11.1 and Figure 11.1).

- *Economic Cooperation Organization Trade Agreement (ECOTA)* – The Economic Cooperation Organization Trade Agreement is made up of Afghanistan, Kazakhstan, Kyrgyz Republic, Pakistan, Turkmenistan, Tajikistan, and Uzbekistan, as well as Azerbaijan, China, and Mongolia. ECOTA has had limited results to date, and has yet to be ratified by Azerbaijan, Turkmenistan and Uzbekistan. However, it does offer trade opportunities for Central and South Asia regional trade to those countries that have ratified the agreement.⁷⁴
- *CIS Free Trade Agreement (CISFTA)* –The CIS Free Trade Agreement was signed in 2011 by Kazakhstan, Kyrgyzstan, Tajikistan and 5 other CIS countries (Armenia, Belarus, Moldova, Russian Federation and Ukraine). In December 2013 Uzbekistan signed and then ratified the treaty, and Kyrgyzstan ratified the treaty effective January 2014. Tajikistan is close to completing the ratification process.
- *Central Asia Regional Economic Cooperation (CAREC)* – The Central Asia Regional Economic Cooperation program is a regional initiative supported by Asian Development Bank to encourage transport and trade facilitation among all the countries in the Central and South Asia regions except India, and it also includes Azerbaijan, China and Mongolia. In trade-related activities, the program aims to increase trade and investment through

⁷² Trade and Accession Facilitation for Afghanistan (TAFA, 2009), “South Asia Free Trade Area (SAFTA) – Afghanistan’s Entry in to the Global Economy”. Prepared for USAID. Internal document.

⁷³ The Economist Intelligence Unit (2014), “Poor outlook for Pakistan-Afghanistan bilateral trade”. 24 April 2014. Online: <http://country.eiu.com/article.aspx?articleid=1771757161&Country=Afghanistan&topic=Economy>.

⁷⁴ M. Ali and N. Mujahid (2015), “An Analytical Study of Economic Cooperation Organization (ECO): Challenges and Perspectives”. *European Academic Research* 2(2): 14031-14045. Available: <http://euacademic.org/UploadArticle/1330.pdf>.

Table 11.1: Bilateral and Regional Trade Arrangements in Central and South Asia

| | Central Asia | | | | | | | |
|----------------|--------------|---------------|------------|--------------|------------|-------------|------------|------------|
| | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan | Afghanistan | India | Pakistan |
| Kazakhstan | | BTA (1999) | BTA | | | | | |
| Kyrgyzstan | BTA (1999) | | BTA | | BTA (1999) | | | |
| Tajikistan | | | | | | | | |
| Turkmenistan | | | | | | | | |
| Uzbekistan | | BTA (1999) | | | | | | |
| Afghanistan | | | | | | | BTA (2003) | TTA (2010) |
| India | | | | | | BTA (2003) | | BTA (2004) |
| Pakistan | | | | | | | BTA (2004) | |
| | | | | | | | | |
| CISFTA (2011) | FTA | FTA | FTA | | | | | |
| EurAsEC (1995) | CU | CU (acceding) | | | | | | |
| ECOTA (2003) | | | FTA | | | FTA | | FTA |
| SAFTA (2004) | | | | | | FTA | FTA | FTA |
| CAREC (1997) | TTF | TTF | TTF | TTF | TTF | TTF | | TTF |

Notes: Dates in parenthesis refer to dates in which the agreement was signed.

BTA: Bilateral Trade Agreement.

CU: Customs Union.

FTA: Free Trade Agreement.

TTF: Transport and Trade Facilitation.

TTA: Transit Trade Agreement.

CAREC: Central Asia Regional Economic Cooperation. Also includes Azerbaijan, China, and Mongolia.

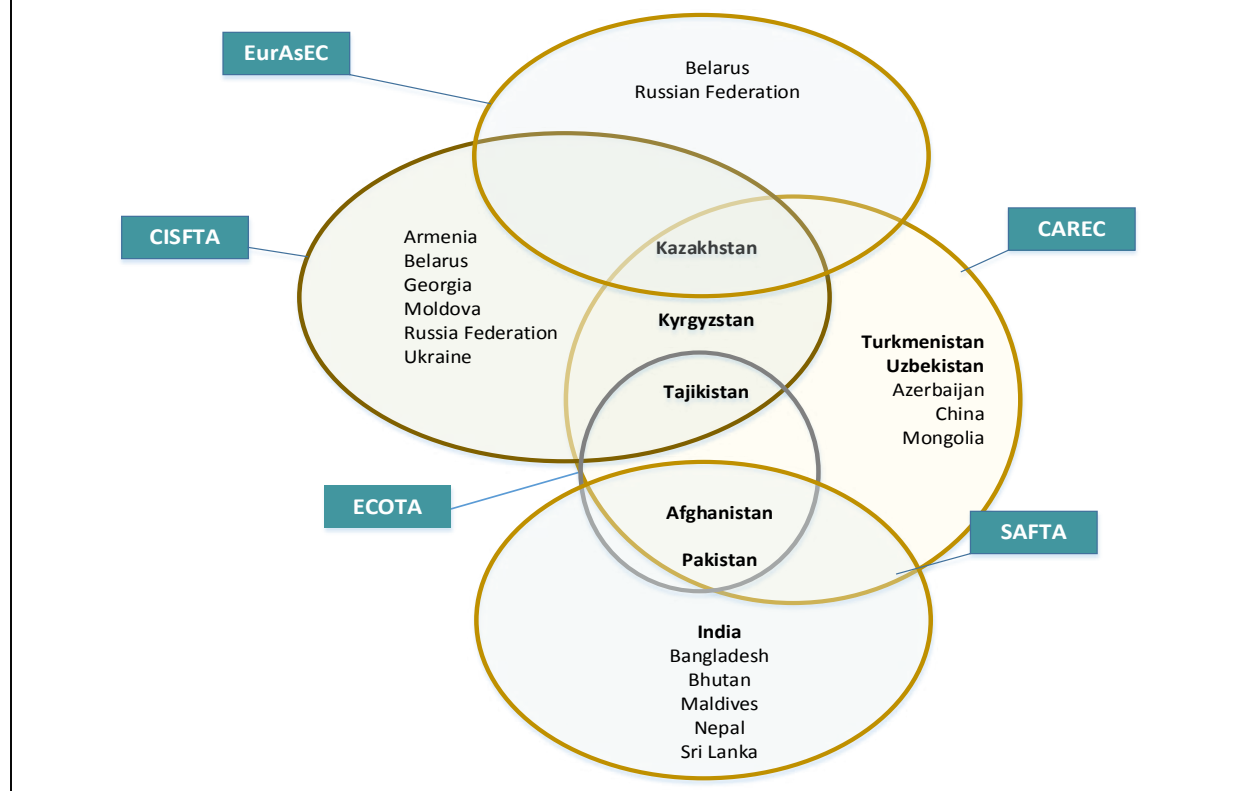
CISFTA: CIS Free Trade Agreement, not yet in force, but signed by some member countries. Also includes Armenia, Belarus, Georgia, Moldova, Russia Federation and Ukraine.

ECOTA: Economic Cooperation Organization Trade Agreement, not yet in force, but ratified by some countries. Also includes Iran and Turkey. Turkmenistan and Uzbekistan along with Azerbaijan have yet to ratify the treaty.

infrastructure connectivity, transport and trade facilitation, and energy trade. It also supports studies on how to overcome regional barriers to trade, and how to support accessions to the World Trade Organization (WTO) through capacity-building initiatives. A transit and motor vehicle cross-border trade agreement (CBTA) was signed in early 2013 between Afghanistan, Tajikistan and Kyrgyzstan.

- South Asia Free Trade Area (SAFTA) – The South Asia Free Trade Area came into force in 2006 and uses the following instruments to facilitate trade between signatory countries: (a) a trade liberalization program; (b) rules of origin; (c) institutional arrangements; (d) consultations and dispute settlement procedures; and (e) safeguard measures. It has

Figure 11.1: Regional Trade-Related Arrangements in Central and South Asia



sensitive lists in which Afghanistan has 1,072 items on the negative list; India has 25 items on the list for the least developed countries (LDCs) and 695 for the non-LDCs; and Pakistan originally had 1,169 items in its sensitive list but it has since cut that number down to 936.

There are also FTAs and partnership agreements with the United States and the European Union. China is promoting an FTA with Central Asia. The Eurasian Economic Community (EAEC) is a customs union between Belarus, Kazakhstan and the Russian Federation. It introduces the free movement of goods, capital, services and people and provides for common transport, agriculture and energy policies, with provisions for a single currency and greater integration in the future. The EAEC has implemented common tariffs, harmonized customs procedures and eliminated internal customs controls. If fully implemented, the EAEC could cause considerable trade diversion from regional trade in Central Asia. Moreover, an analysis based on a computable general equilibrium (CGE) model of Kazakhstan suggests that implementing the customs union with a rise in Kazakhstan's external tariffs would substantially slow down the growth of real GDP in that country.⁷⁵

⁷⁵ Asia Development Bank (ADB, 2006), "Central Asia: Increasing Gains from Trade Through Regional Cooperation in Trade Policy, Transport, and Customs Transit". Manila. Available: <http://www.adb.org/publications/central-asia-increasing-gains-trade-through-regional-cooperation-trade-policy-transport>.

World Trade Organization (WTO) members of the two regions consist of India, Pakistan, Kyrgyzstan and Tajikistan. That leaves Afghanistan, Kazakhstan, Turkmenistan and Uzbekistan outside the rules of the WTO. Kazakhstan is expected to join soon, and Afghanistan and Uzbekistan are observers. Since many countries with which Central Asian countries 'under-trade' in South Asia are WTO members, accession to the WTO could help the two regions fully realize their bilateral trade potential and diversify trade in terms of geographical distribution.

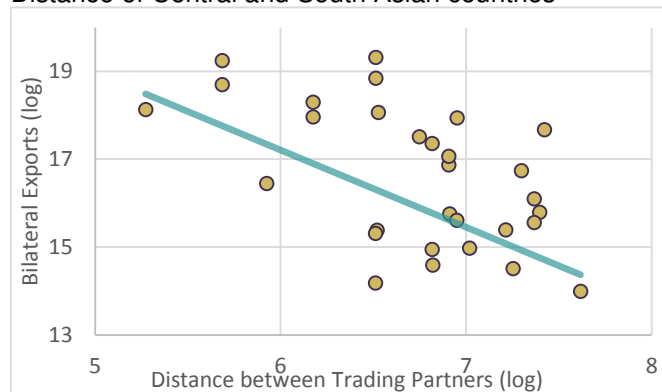
Most empirical studies find that the Central Asian countries generally have a narrow coverage and complex rules of origin, and most of them have remained on paper only. Consequently, their impact on trade has so far been limited. If fully implemented, however, the concluded and planned RTAs involving the CARs, such as the customs union of the Eurasian Economic Community (EAEC), may cause considerable trade diversion and have significant adverse effects on the CARs. An analysis based on a computable general equilibrium (CGE) model of Kazakhstan suggests that implementing the EAEC customs union with a rise in Kazakhstan's external tariffs would substantially slow down the growth of real GDP in Kazakhstan.⁷⁶ The cumulative shortfall in real GDP over ten years

Figure 11.2: Relationship between Bilateral Trade and GDP of Central and South Asian countries



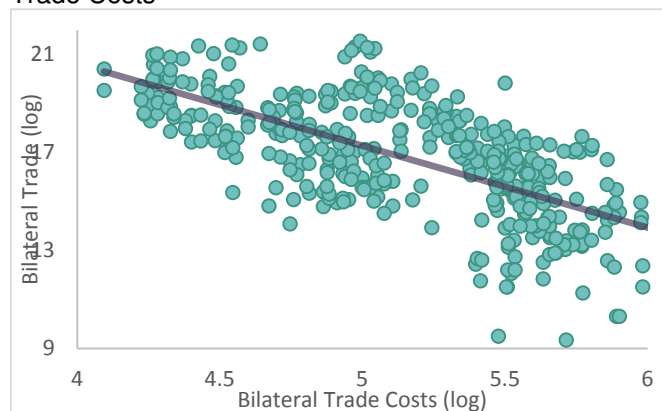
Source: See Statistical Appendix for data sources.

Figure 11.3: Relationship between Bilateral Trade and Distance of Central and South Asian countries



Source: See Statistical Appendix for data sources.

Figure 11.4: Relationship between Bilateral Trade and Trade Costs



Source: See Statistical Appendix for data sources.

⁷⁶ Asian Development Bank (ADB, 2006), "Central Asia: Increasing Gains from Trade through Regional Cooperation in Trade Policy, Transport, and Customs Transit". Manila. Available: <http://www.cefir.ru/download.php?id=816>.

would exceed 31 percent of GDP in the base year. Implementing the EAEC customs union even with a reduction in Kazakhstan's external tariffs would slow down the growth of real GDP. However, its adverse effects on economic growth would be much smaller than in the previous scenario.

B. Modeling Regional Trade

Gravity models are commonly used to explain bilateral trade flows between two countries on the basis of their economic sizes, measured in terms of GDP, and direct geographical distances between the countries. Most estimates of gravity models add a certain number of dummy variables that test for specific effects. Instead of the use of total bilateral trade flows as the dependent variable, use of bilateral export flows are preferable since total bilateral trade cannot distinguish between the impact of regional exports from non-regional exports.⁷⁷

In our augmented gravity model, we have added three additional variables:

- First, following earlier studies, we have included real bilateral exchange rates to measure price competitiveness.⁷⁸
- Second, given the importance of the new bilateral trade costs database developed by UNESCAP and the World Bank, we have included total bilateral trade costs between partner trading countries, as described in Chapter 9 of this study and the Statistical Appendix.
- Third, we have included the number of days required to process exports, based on *Doing Business* data.⁷⁹

Details about the variables and their sources of data are described at the end of the Statistical Appendix. The gravity equations have been estimated for the period 1995-2013 using dynamic panel data estimations.

In the model estimates, the expected signs of the coefficients are as follows:

- The coefficient for *GDP* of reporter and trading partners is expected to have a positive sign since larger-size economies are expected to trade more than smaller ones. The data of the Central and South Asian countries generally supports that hypothesis (Figure 11.2).
- The coefficient for distance between trading partners is expected to have a negative sign since the more remote the trading partners, the less likely is trade. The data for the Central and South Asian countries generally supports this hypothesis (Figure 11.3).

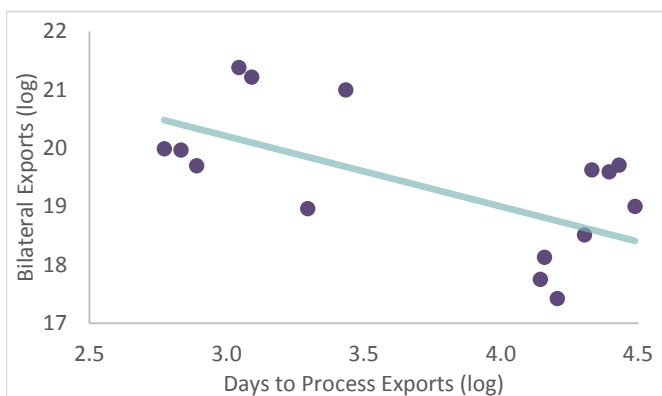
⁷⁷ L. Cernat (2001), "Assessing Regional Trade Arrangements: Are South-South RTAs More Trade Diverting?" *Global Economy Quarterly*, Vol. 2, No. 3, pp. 235-59. Available: http://unctad.org/en/Docs/itcdtab17_en.pdf.

⁷⁸ I. Soloaga and Winters, L.A. (2001), "Regionalism in the Nineties: What Effect on Trade?" *The North American Journal of Economics and Finance*, Vol. 12, pp.1-29. Available: <http://elibrary.worldbank.org/doi/pdf/10.1596/1813-9450-2156>.

⁷⁹ E. Helpman, M. Melitz, and Y. Rubinstein (2008), "Estimating trade flows: trading partners and trading volumes". *Quarterly Journal of Economics* 123, no. 2: 441-487. Available: <http://qje.oxfordjournals.org/content/123/2/441.short>.

- The coefficient for the real bilateral exchange rate between trading partners is expected to have a positive sign since an increase in the price competitiveness of a country leads to greater exports. The data for the Central and South Asian countries generally supports this hypothesis.
- The coefficient for trade costs between trading partners is expected to have a negative sign since the longer the time needed to process exports, the less likely is trade between two countries. The data for the Central and South Asian countries generally supports this hypothesis (Figure 11.4).
- The coefficient for 'time needed to process exports' is expected to have a negative sign since the higher the cost of trade, the less likely is trade between two countries. The data for the Central and South Asian countries generally supports this hypothesis (Figure 11.5).
- The coefficients of the common border, language and colonizer variables are expected to have positive signs since countries that share borders, languages and colonial pasts tend to have relatively strong business and economic ties.

Figure 11.5: Relationship between Bilateral Trade and Time to Process Exports



Source: See Statistical Appendix for data sources.

The empirical findings of different applications of the gravity model have been mixed. For the South Asia FTA (SAFTA), the results indicate a small impact on India but larger ones in other member countries.⁸⁰ Other studies found that regional integration in South Asia would lead to a creation of net export, while others found that it predicted a net trade diversion.⁸¹ Still others found that SAPTA would lead to both trade creation for some countries (including India and Pakistan) and trade diversion for others.⁸² In Central Asia, empirical studies have found that

⁸⁰ T.N. Srinivasan and G. Canonero (1995). "Preferential agreements in South Asia: theory, empirics and policy". Yale Growth Centre, Yale University; and Sengupta, N., and A. Banik. 1997. "Regional trade and investment: case of SAARC". *Economic and Political Weekly* 32 (November 15-21): 2930-2931.

⁸¹ S. Coulibaly, (2004). "On the Assessment of Trade Creation and Trade Diversion Effects of Developing RTAs," Paper Presented at the Annual Meeting 2005 of the Swiss Society of Economics and Statistics on Resource Economics, Technology, and Sustainable Development. (available at <http://www.wif.ethz.ch/resec/sgvs/078.pdf>); and M.K. Hassan (2001). "Is SAARC a Viable Economic Block? Evidence from gravity model", *Journal of Asian Economics*, Volume 12, No. 2, pp.263-290. Available: <https://ideas.repec.org/a/eee/asieco/v12y2001i2p263-290.html>.

⁸² M. Rahman, Shadat, W., and Das, N.C. (2006). "Trade Potential in SAFTA: An Application of Augmented Gravity Model", Centre for Policy Dialogue, Occasional Paper 61. Available: http://cpd.org.bd/pub_attach/OP61.pdf.

regional trade arrangements have had little, if any, impact on trade flows.⁸³ For the more open economies of Kazakhstan and Kyrgyzstan, trade costs have influenced bilateral trade, whereas for the closed economies of Tajikistan, Turkmenistan and Uzbekistan, country size has dominated trade patterns between partner countries.

C. Estimating and Forecasting Intra- and Inter-Regional Trade

The model has been estimated for the following relationships:

- Central Asia intra-regional trade
- Central Asia inter-regional trade with South Asia
- South Asia intra-regional trade
- South Asia inter-regional trade with Central Asia
- Afghanistan trade with rest-of-South Asia
- Afghanistan trade with Central Asia

Central and South Asia trade of each country in the corresponding regions as well as Afghanistan trade are disaggregated into bilateral trade relationships. For each of those bilateral relationships, there are associated data with (a) bilateral trade costs between trading partners in and between the two regions; (b) bilateral real exchange rates measuring competitiveness between trading partners; and (c) a series of binary variables measuring contiguousness, or lack thereof, of borders between trading partners and others factors measuring possible linkages in terms of common languages or colonial pasts that could enhance trade opportunities. In the case of the income variables for both the reporter country and the partner countries, as well as the 'time to process exports' variable, the values are common to all bilateral relationships of each reporter country.

⁸³ A. Mazhikeyev, T.H. Edwards, and M. Rizov (2014), "Openness and Isolation: the comparative trade performance of the Former Soviet Central Asian countries". School of Business and Economics, Loughborough University. Economics Discussion Paper Series WP 2014 – 02. Available: https://dspace.lboro.ac.uk/dspace-jspui/bitstream/2134/15706/1/Mazhikeyev_Edwards_Rizov_DP2014_02.pdf.

Box 11.1: The Gravity Model for Central and South Asia Trade

The gravity model for trade within and between Central and South Asia is estimated by:

$$\ln(X_{ijt}) = \beta_0 + \beta_1 \ln(Y_{it}) + \beta_2 \ln(Y_{jt}) + \beta_3 \ln(D_{it}) + \beta_4 \ln(R_{ijt}) + \beta_5 \ln(C_{ijt}) + \beta_6 \ln(B_{it}) + \beta_7 d1_{ij} + \beta_8 d2_{ij} + \beta_9 d3_{ij} + \beta_{10} d4_{ij} + \beta_{11} d5_{ij})$$

where Y_i = GDP of reporter country

Y_j = GDP of partner country

D_{ij} = Distance between trading partners

R_{ij} = Real cross exchange rate between trading partners

C_{ij} = Trade costs between trading partners

B_i = Time to process exports in reporter country

$d1_{ij}$ = Binary variable, which takes value of 1 if two countries are contiguous and "0" otherwise

$d2_{ij}$ = Binary variable, which takes value of 1 if two countries share official language; 0 otherwise

$d3_{ij}$ = Binary variable, which takes value of 1 if two countries share ethno-common language; 0 otherwise

$d4_{ij}$ = Binary variable, which takes value of 1 if two countries have had a colonial link; 0 otherwise

$d5_{ij}$ = Binary variable, which takes value of 1 if two countries have had a common colonizer; 0 otherwise

Table B11.1 reports the results of the estimates of the gravity model for the period 1995-2013.

The estimated coefficients and use of the model to project trade under different assumptions are discussed in Section C of this chapter.

(Continued)

Box 11.1: The Gravity Model for Central and South Asia Trade (*Continued*)

Table B11.1 Results of Estimation of Gravity Model on Central and South Asia Intra-Regional and Inter-Regional Exports

| | <i>Central Asia Trade</i> | | <i>South Asia Trade</i> | | <i>Afghanistan Trade</i> | |
|---|---------------------------|----------------------|-------------------------|----------------------|--------------------------|----------------------|
| | with Central Asia | with South Asia | with South Asia | with Central Asia | with South Asia | with Central Asia |
| <i>GDP of reporter (log)</i> | 0.913*** (0.110) | 0.839*** (0.188) | 0.499*** (0.073) | 0.950*** (0.061) | 0.418 (0.292) | 1.744*** (0.335) |
| <i>GDP of partner (log)</i> | 0.331*** (0.112) | | 0.17** (0.065) | 0.503*** (0.070) | 1.073** (0.413) | 0.535*** (0.159) |
| <i>Distance (log)</i> | -0.172 (0.281) | -0.335 (0.725) | -0.385 (0.425) | | -2.297** (0.857) | -5.189*** (0.569) |
| <i>Real bilateral exchange rate</i> | 0.169 (1.59) | 5.617 (3.235) | 1.551** (0.933) | | | |
| <i>Trade costs</i> | -1.127 (0.737) | -4.795*** (0.969) | -3.642*** (0.829) | -0.836** (0.424) | | |
| <i>Export processing time</i> | -2.385* (1.340) | | | | | |
| <i>Contiguity dummy</i> | 0.645 (0.253) | | | 4.819*** (0.525) | | |
| <i>Constant</i> | 30.164 | 16.401 | 29.774 | 13.647 | 25.464 | 43.457 |
| <i>R-squared</i> | 0.825 | 0.603 | 0.871 | 0.866 | 0.930 | 0.775 |

Notes:

- (a) See Appendix table for data sources.
- (b) Standard errors are given in parentheses.
- (c) ***p < 0.01, **p < 0.05, *p < 0.1

Estimates of the relationships are shown in Box 11.1 and have the following characteristics:

- The own income variable, measured by the nominal U.S. dollar value of GDP in the reported country, is statistically significant at the 1 percent level of confidence, with the exception of Afghanistan trade with other South Asian countries. In those cases where the variable was statistically significant, the estimated parameters have the expected positive sign.
- The partner country income variable, measured in the same way as the own income variable, is statistically significant at the 1 percent level for intra-regional Central Asia trade, South Asia inter-regional trade, and Afghanistan trade with Central Asia; it is statistically significant at the 5 percent level for inter-regional South Asia trade and Afghanistan trade with South Asia; and it is not considered to be statistically significant at

the 10 percent level of confidence for Central Asia trade with South Asia. In those cases where the variable was statistically significant, the estimated parameters have the expected positive sign.

- The distance variable, measured in kilometers, is statistically significant at the 1 percent level for Afghanistan trade with Central Asia; it is statistically significant at the 5 percent level for Afghanistan trade with South Asia; and it is not considered to be statistically significant at the 10 percent level of confidence for Central and South Asia inter- and intra-regional trade. Where the variables are statistically significant, the estimated parameters have the expected negative sign in all the relationships except South Asia trade with Central Asia, indicating that trade is likely to be greater with nearby countries than with remote countries.
- The competitiveness variable, measured in terms of the bilateral or cross real exchange rate index, is statistically significant at the 5 percent level for South Asia intra-regional trade. The estimated parameters have the expected positive sign in that estimated relationships as well as in those of Central Asia intra- and inter-regional trade.
- The cost of trade variable, which covers tariff and non-tariff barriers to trade, is statistically significant at the 1 percent level for Central Asia trade with South Asia and South Asia intra-regional trade; it is statistically significant at the 5 percent level for South Asia trade with Central Asia; and it is not considered to be statistically significant at the 10 percent level of confidence for Central Asia trade with South Asia. In all these cases as well as in the case of Central Asia intra-regional trade, the estimated parameters have the expected negative sign.
- The time to process exports variable, measured in terms of number of days needed to process exports in the reporter country, is only statistically significant at the 10 percent level for Central Asia intra-regional trade, and it has the expected negative sign.
- The contiguity variable, measured by a binary variable that takes the value of 1 for contiguous countries and 0 otherwise, is only statistically significant at the 1 percent level for South Asia trade with Central Asia, and it has the expected positive sign for that relationship as well as Central Asia intra-regional trade.
- The binary variables for common languages and colonial past of trading countries are not considered to be statistically significant at the 10 percent level for Central and South Asia intra- and inter-regional trade in general or Afghanistan trade in particular.

Simulations of intra- and inter-regional trade based on changes in income, price and non-price factors have been performed on each of the estimated relationships. The main results are as follows:

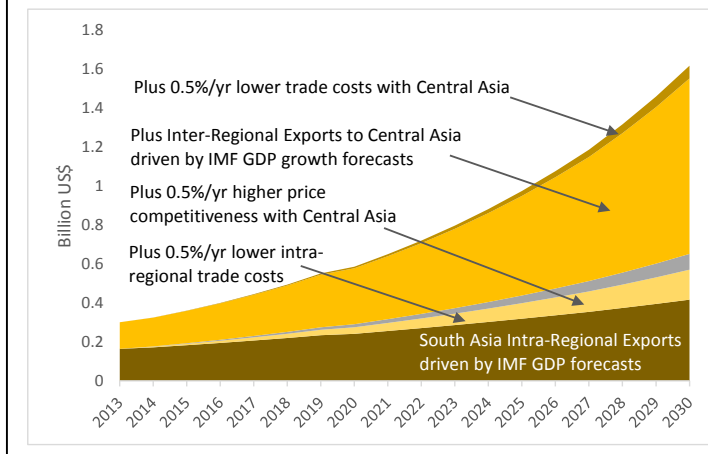
► South Asia

- The baseline forecast has been generated on the basis of the nominal U.S. dollar GDP forecasts of the International Monetary Fund (IMF) *World Economic Outlook*. The IMF's GDP projections are available for 2015 to 2019. Extension of the projections to 2030 is based on the average 2015-2019 average annual GDP growth rate of each country. The

results of the forecasts for the baseline intra-regional trade of South Asia are summarized in Figure 11.6. They show an average annual growth of intra-regional trade equivalent to 6 percent in the period 2015-2030.⁸⁴

- A 0.5 percent annual decrease in the cost of trade with each bilateral trade flow within South Asia during the period of the simulation (2014-2030) leads to a 118 percent annual increase in the baseline value of intra-regional trade by 2030. The results are robust and underscore the importance of reducing trade barrier, especially behind the border ones in each of the South Asian countries.
- A 0.5 percent annual improvement in bilateral price competitiveness of each South Asia exporter would lead to an 8 percent yearly increase in earnings from intra-regional exports.
- The expansion of inter-regional exports to Central Asia associated with GDP growth forecasted by the International Monetary Fund causes the largest improvement in export earnings because of the relatively high income elasticity of foreign demand. The IMF forecast for Central Asia is for a 10 percent annual growth in GDP and the resulting expansion in South Asia exports to that region is 12 percent annually. This large expansion is associated with the combination of own and partner country income elasticities estimated for the inter-regional trade relationship.
- A 0.5 percent annual decrease in the cost of trade with each bilateral trade flow in Central Asia during the simulation period leads to another 12 percent annual increase in the baseline value of intra-regional trade. Again, the results underscore the importance of reducing trade barrier both within and between the two regions.

Figure 11.6: Projected Changes in South Asia Intra- and Inter-Regional Exports, 2014-2030

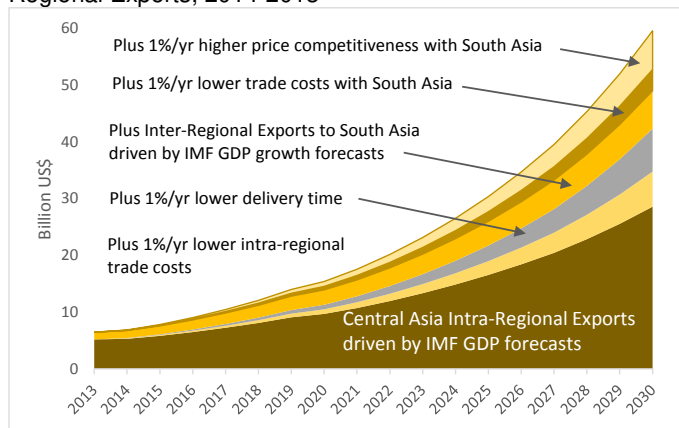


⁸⁴ International Monetary Fund (IMF, 2014), "World Economic Outlook". Washington, DC. Available: <http://www.imf.org/external/pubs/ft/weo/2015/update/01/info.htm>.

► Central Asia

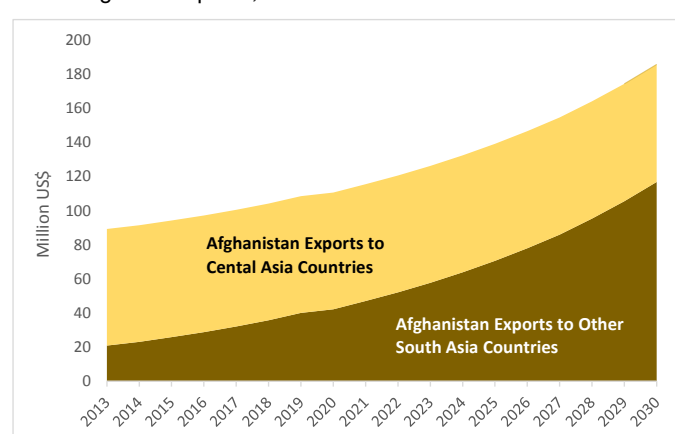
- As with South Asia, the baseline forecasts is based on the nominal U.S. dollar GDP forecasts of the International Monetary Fund (IMF) *World Economic Outlook*.⁸⁵ The results are summarized in Figure 11.7, which shows an average annual growth of intra-regional trade equivalent to 11 percent in the period 2015-2030. This expansion is considerably greater than the income responsiveness of exports in South Asia because the IMF's GDP forecasts for the region are higher in Central Asia than for those of South Asia.

Figure 11.7: Projected Changes in Central Asia Intra- and Inter-Regional Exports, 2014-2030



- A 1 percent annual decrease in the cost of trade with each bilateral trade flow within the region in 2014-2030 leads to an 11 percent annual increase in the value of intra-regional trade. Like in South Asia, the results are robust and underscore the importance of reducing trade barrier.
- A 1 percent annual reduction in the time required to export leads to a 15 percent yearly increase in export earnings from intra-regional exports.
- The expansion of inter-regional exports to South Asia associated with GDP growth forecasted by the International Monetary Fund causes export earnings to improve by over 9 percent a year. The response of inter-regional exports of Central Asia to changes in income in the South Asian countries is not considered to be statistically significant at the 10 percent level of confidence.
- A 0.5 percent annual decrease in the cost of trade with each bilateral trade flow with Central Asia during the simulation period leads to another 12 percent annual

Figure 11.8: Projected Changes of Afghanistan's Intra- and Inter-Regional Exports, 2014-2030



⁸⁵ Ibid.

increase in the baseline value of intra-regional trade. These estimates are robust since the coefficient estimate is statistically significant at the 1 percent level, and they therefore point to the importance of focusing efforts on lowering trade barriers.

► Afghanistan

- Price and non-price variables in the form of the real bilateral exchange rates, trade costs and time needed to export are not considered to be statistically significant at the 10 percent level of confidence. Intra- and inter-regional trade is only responsive to income changes and distance to markets. The magnitude of responsiveness to these two variables is high.
- Trade with other South Asian countries has historically grown much faster than with the Central Asian countries and this pattern is reflected in the projected value of intra- and inter-regional trade in 2014-2030 (Figure 11.8).

D. Ratings

Table 11.2 shows the scores assigned to the impact on intra- and inter-regional trade from economic growth, price and non-price factors, based on the evaluation methodology described in Chapter 3 and the analysis of the topics in this chapter.

Table 11.2: Summary Assessment of Trade Responsiveness to Income, Price and Non-Price Movements

| | Strongly Discourages | Discourages | Neither | Supports | Strongly Supports |
|--|----------------------|-------------|---------|----------|-------------------|
| A. Economic growth has significant impact on intra-regional trade | | | | | |
| 1 Kazakhstan | 1 | 2 | 3 | 4 | 5 |
| 2 Kyrgyzstan | 1 | 2 | 3 | 4 | 5 |
| 3 Tajikistan | 1 | 2 | 3 | 4 | 5 |
| 4 Turkmenistan | 1 | 2 | 3 | 4 | 5 |
| 5 Uzbekistan | 1 | 2 | 3 | 4 | 5 |
| 6 Afghanistan | 1 | 2 | 3 | 4 | 5 |
| 7 India | 1 | 2 | 3 | 4 | 5 |
| 8 Pakistan | 1 | 2 | 3 | 4 | 5 |
| B. Economic growth has significant impact on inter-regional trade | | | | | |
| 1 Kazakhstan | 1 | 2 | 3 | 4 | 5 |
| 2 Kyrgyzstan | 1 | 2 | 3 | 4 | 5 |
| 3 Tajikistan | 1 | 2 | 3 | 4 | 5 |

| | | | | | | |
|---|--------------|---|---|---|---|---|
| 4 | Turkmenistan | 1 | 2 | 3 | 4 | 5 |
| 5 | Uzbekistan | 1 | 2 | 3 | 4 | 5 |
| 6 | Afghanistan | 1 | 2 | 3 | 4 | 5 |
| 7 | India | 1 | 2 | 3 | 4 | 5 |
| 8 | Pakistan | 1 | 2 | 3 | 4 | 5 |

C. Trade costs have significant impact on regional trade

| | | | | | | |
|---|--------------|---|---|---|---|---|
| 1 | Kazakhstan | 1 | 2 | 3 | 4 | 5 |
| 2 | Kyrgyzstan | 1 | 2 | 3 | 4 | 5 |
| 3 | Tajikistan | 1 | 2 | 3 | 4 | 5 |
| 4 | Turkmenistan | 1 | 2 | 3 | 4 | 5 |
| 5 | Uzbekistan | 1 | 2 | 3 | 4 | 5 |
| 6 | Afghanistan | 1 | 2 | 3 | 4 | 5 |
| 7 | India | 1 | 2 | 3 | 4 | 5 |
| 8 | Pakistan | 1 | 2 | 3 | 4 | 5 |

D. Price competitiveness have significant impact on regional trade

| | | | | | | |
|---|--------------|---|---|---|---|---|
| 1 | Kazakhstan | 1 | 2 | 3 | 4 | 5 |
| 2 | Kyrgyzstan | 1 | 2 | 3 | 4 | 5 |
| 3 | Tajikistan | 1 | 2 | 3 | 4 | 5 |
| 4 | Turkmenistan | 1 | 2 | 3 | 4 | 5 |
| 5 | Uzbekistan | 1 | 2 | 3 | 4 | 5 |
| 6 | Afghanistan | 1 | 2 | 3 | 4 | 5 |
| 7 | India | 1 | 2 | 3 | 4 | 5 |
| 8 | Pakistan | 1 | 2 | 3 | 4 | 5 |

E. Time to process exports has significant impact on regional trade

| | | | | | | |
|---|--------------|---|---|---|---|---|
| 1 | Kazakhstan | 1 | 2 | 3 | 4 | 5 |
| 2 | Kyrgyzstan | 1 | 2 | 3 | 4 | 5 |
| 3 | Tajikistan | 1 | 2 | 3 | 4 | 5 |
| 4 | Turkmenistan | 1 | 2 | 3 | 4 | 5 |
| 5 | Uzbekistan | 1 | 2 | 3 | 4 | 5 |

| | | | | | | |
|----------|-------------|---|---|---|---|---|
| 6 | Afghanistan | 1 | 2 | 3 | 4 | 5 |
| 7 | India | 1 | 2 | 3 | 4 | 5 |
| 8 | Pakistan | 1 | 2 | 3 | 4 | 5 |

XII. REGIONAL TRADE BASED ON COMPARATIVE ADVANTAGES

A. Trade Possibilities Approach

The calculated RCAs in Chapter 5.B offer a way to determine intra- and inter-regional opportunities based on traditional comparative advantage trade analysis. The methodology follows conventional practices and assumptions used in other studies to calculate trade possibilities.⁸⁶ It assumes homogeneous products traded under conditions of perfect competition and without barriers and other impediments to trade in and between the Central and South Asia regions. The analysis matches the product exports in which a country has a revealed comparative advantage with imports from other countries in the two regions that do not have a comparative advantage in the same product.

Although the assumptions underlying the approach seldom hold in reality, they do point to the direction that regional trade movements could take under expanded regional trade movements. The reasoning is that countries are more likely to export only those products in which they have a competitive advantage relative to their trading partners. In fact, since the RCAs are based on actual trade with partner countries, the RCAs do indeed ‘reveal’ the products that are likely to be exchanged between countries based on their relative costs and difference in non-price factors.

B. Potential for Regional Trade Patterns

The analysis of regional trade possibilities is conducted at the HS 6-digit level for each Central and South Asia country and all of the product exports that are revealed to have a comparative advantage in 2010-2013. Table 12.1 show the results for the top exports of each country, matched with import demand from other countries in the two regions. They show that total inter- and intra-regional trade in 2010-2013 could have been 25 percent higher than the amount of trade that actually took place if trade had taken place according to each country’s comparative advantage in each of their product exports. Without the dominance of India’s trade, trade in and between the two regions could have nearly doubles.

Among countries there is a large diversion of actual and potential trade differentials. Three countries (India, Pakistan and Turkmenistan) have actual trade that exceeds that predicted by their corresponding revealed comparative advantages across all their exported products. In the case of India, for example, RCA-based trade would have been only 40 percent of the actual value that took place in 2010-2013. That of Pakistan and Turkmenistan would have been 70 to 80 percent of actual exports in the same period.

In contrast, potential exports of both Afghanistan and Kazakhstan predicted by their RCAs would have been much higher than the amount that actually occurred. In the case of Afghanistan, trade would have been 72 times greater than actual trade and, in the case of Kazakhstan, it would have been 42 times greater. The major lost opportunities for Afghanistan were its exports of coal, ferrous scrap, logs, dried beans, semi-precious stones, and fresh fruits and vegetables. For

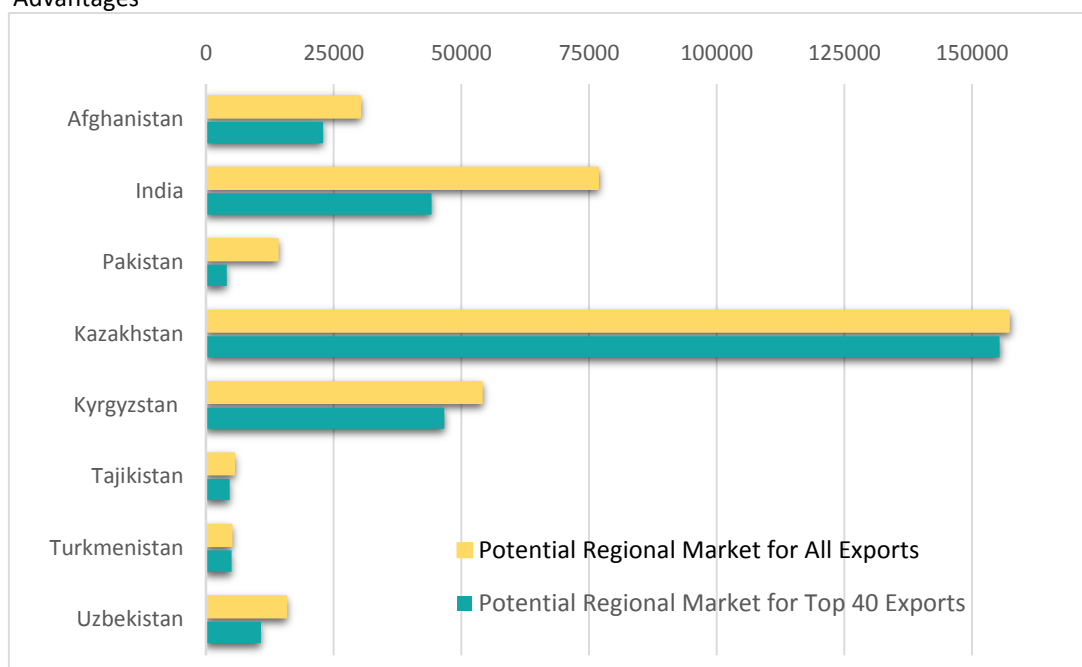
⁸⁶ N. Taneja et al. (2013), “Normalizing India Pakistan Trade”. Indian Council for Research on International Economic Relations. Working Paper No. 267. Available: http://icrier.org/pdf/working_paper_267.pdf.

Kyrgyzstan, lost opportunities occurred in crude oil, copper ores, liquefied propane and other liquefied fuels, silver unwrought, and casings, tubing and pipes for oil drilling.

The potential value of regional trade for the three remaining countries relative to their actual trade was more modest than in the case of Afghanistan and Kazakhstan, but still very large. Among individual countries, Tajikistan's potential regional earnings are nearly 8 times actual export revenue; Uzbekistan's potential earnings are nearly 4.5 times those of actual exports; and Kazakhstan's potential earnings are 2.5 times those of actual exports.

In many cases, the top 40 products having revealed comparative advantages contribute nearly all the potential regional earnings to the countries (Figure 12.1). This situation is reflected in the exports of Kazakhstan and Turkmenistan, where the top 40 products exported by each country account for 99 to 100 percent of their potential regional earnings. Over 75 percent of total potential earnings derive from the top 40 products in Afghanistan, Kyrgyzstan and Tajikistan. In India, nearly 60 percent of all potential earnings are from its top 40 products. Only Pakistan has a large number of products having comparative advantages with high export potentials relative to actual regional exports. In that country, over 70 percent of potential earnings are associated with products other than the top 40.

Figure 12.1: Market Potential in Central and South Asia Regional Exports based on Revealed Comparative Advantages



Source: Derived from data in 3.2.

Table 12.1: Potential Exports of Products with Revealed Comparative Advantage in Central and South Asia Markets

| Afghanistan | | | | India | | | |
|--|----------------------|----------------------------|---------------------------------|---|----------------------|----------------------------|---------------------------------|
| Product | Actual Exports | Potential Regional Exports | Exports as a Multiple of Actual | Product | Actual Exports | Potential Regional Exports | Exports as a Multiple of Actual |
| | (Million US dollars) | | | | (Million US dollars) | | |
| Ferrous waste or scrap, nes (720449) | 45.3 | 2,680.4 | 59.1 | Oils petroleum, bituminous, distillates, except crude (271000) | 52,772.9 | 13,032.7 | 0.2 |
| Figs, fresh or dried (080420) | 40.0 | 41.1 | 1.0 | Diamonds (jewellery) worked but not mounted or set (710239) | 25,186.6 | 1,848.1 | 0.1 |
| Grapes, dried (080620) | 38.3 | 24.7 | 0.6 | Jewellery and parts of precious metal except silver (711319) | 11,996.5 | 2,107.6 | 0.2 |
| Coal except anthracite or bituminous, not agglomerate (270119) | 38.0 | 13,795.8 | 362.7 | Medicaments nes, in dosage (300490) | 6,061.8 | 105.5 | 0.0 |
| Natural gum, resin, gum-resin, balsam, not gum arabic (130190) | 35.4 | 79.0 | 2.2 | Iron ore, concentrate, not iron pyrites, unagglomerate (260111) | 3,521.2 | 58.8 | 0.0 |
| Pistachios, fresh or dried (080250) | 15.3 | 77.1 | 5.0 | Bovine cuts boneless, frozen (020230) | 2,903.3 | 10.7 | 0.0 |
| Raw Persian and similar lamb furskins, whole (430130) | 13.1 | 1.8 | 0.1 | Mucilages & thickeners, from locust bean, guar seeds (130232) | 2,812.8 | 1,018.1 | 0.4 |
| Engines, spark-ignition reciprocating, over 1000 cc (840734) | 12.8 | 341.8 | 26.7 | Organic compounds, nes (294200) | 2,238.2 | 253.6 | 0.1 |
| Grapes, fresh (080610) | 12.6 | 73.8 | 5.8 | Soya-bean oil-cake and other solid residues (230400) | 2,201.8 | 2,601.1 | 1.2 |
| Natural steatite, not crushed or powdered (252610) | 9.6 | 10.2 | 1.1 | Motor vehicle parts nes (870899) | 2,043.1 | 8.2 | 0.0 |
| Plants & parts, pharmacy, perfume, insecticide use ne (121190) | 9.1 | 52.6 | 5.8 | Shrimps and prawns, frozen (030613) | 1,722.3 | 1,215.4 | 0.7 |
| Almonds, fresh or dried, shelled (080212) | 8.1 | 56.8 | 7.1 | Floating docks, special function vessels nes (890590) | 1,420.2 | 1,174.6 | 0.8 |
| Carpets of wool or fine animal hair, knotted (570110) | 7.8 | 8.6 | 1.1 | Aircraft parts nes (880330) | 1,384.2 | 808.5 | 0.6 |
| Helicopters of an unladen weight > 2,000 kg (880212) | 7.3 | 273.1 | 37.4 | Pipe-line submerged arc welded steel diameter >406mm (730511) | 1,265.4 | 13,079.8 | 10.3 |
| Beans dried, shelled, nes (071339) | 5.3 | 119.0 | 22.5 | Diamonds (jewellery) unworked or simply sawn, cleaved (710231) | 1,251.9 | 136.1 | 0.1 |
| Apples, fresh (080810) | 5.0 | 266.3 | 53.4 | Motorcycles, spark ignition engine of 50-250 cc (871120) | 1,201.2 | 1,618.2 | 1.3 |
| Sesamum seeds (120740) | 5.0 | 37.3 | 7.5 | Floating, submersible drilling or production platform (890520) | 1,121.8 | 9.4 | 0.0 |
| Potatoes, fresh or chilled except seed (070190) | 4.8 | 94.9 | 20.0 | Womens, girls blouses & shirts, of cotton, not knit (620630) | 1,035.5 | 11.7 | 0.0 |
| Rubies, sapphires and emeralds worked but not set (710391) | 4.5 | 231.3 | 50.9 | Maize except seed corn (100590) | 981.9 | 1,023.3 | 1.0 |
| Fine animal hair, not carded or combed (510210) | 3.9 | 5.8 | 1.5 | Tugs and pusher craft (890400) | 962.9 | 5.3 | 0.0 |
| Urd, mung, black or green gram beans dried shelled (071331) | 3.9 | 466.7 | 119.8 | Gold/silversmith wares of/clad with precious metal ne (711419) | 941.7 | 4.9 | 0.0 |
| Saffron (091020) | 3.0 | 6.6 | 2.2 | Cotton yarn >85% single combed 232-192 dtex, not retai (520523) | 909.8 | 70.7 | 0.1 |
| Sheep or lamb skins, raw, wool on, except Persian etc (410210) | 2.9 | 36.0 | 12.2 | Coal tar distillation products nes (270799) | 881.9 | 45.3 | 0.1 |
| Ferro-alloys, nes (720299) | 2.8 | 45.3 | 16.1 | Mens, boys shirts, of cotton, not knit (620520) | 848.6 | 1,192.7 | 1.4 |
| Antiques older than one hundred years (970600) | 2.7 | 37.9 | 14.2 | P-ylene (290243) | 810.3 | 43.6 | 0.1 |
| Almonds in shell fresh or dried (080211) | 2.7 | 358.3 | 134.4 | Cut or sawn slabs of granite (680223) | 801.5 | 206.6 | 0.3 |
| Parts of turbo-jet or turbo-propeller engines (841191) | 2.4 | 55.8 | 23.2 | Antibiotics nes, in dosage (300420) | 789.3 | 884.1 | 1.1 |
| Turbo-propeller engines of a power > 1100 kW (841122) | 2.4 | 49.4 | 20.9 | Cashew nuts, fresh or dried (080130) | 787.5 | 66.6 | 0.1 |
| Logs, non-coniferous nes (440399) | 2.4 | 1,556.6 | 662.2 | Jewellery and parts, silver, including plated silver (711311) | 757.7 | 11.5 | 0.0 |
| Parts of electric accumulators, including separators (850790) | 2.3 | 100.2 | 43.9 | Womens, girls dresses, of cotton, not knit (620442) | 749.9 | 89.5 | 0.1 |
| Electricity supply, production and calibrating meters (902830) | 2.2 | 35.7 | 15.9 | Cast articles of iron or steel, nes (732599) | 749.7 | 417.0 | 0.6 |
| Tanks and other armoured fighting vehicles (871000) | 2.2 | 80.7 | 37.1 | Insecticides, packaged for retail sale (380810) | 727.3 | 0.4 | 0.0 |
| Caraway seeds (090940) | 2.0 | 5.1 | 2.5 | Castor oil or fractions not chemically modified (151530) | 725.5 | 279.8 | 0.4 |
| Pigment, opacifier, colours etc for ceramics or glass (320710) | 2.0 | 55.2 | 27.2 | Wheeled tractors nes (870190) | 721.0 | 12.6 | 0.0 |
| Anise or badian seeds (090910) | 1.9 | 11.3 | 5.9 | Ground-nuts shelled, not roasted or cooked (120220) | 672.3 | 34.2 | 0.1 |
| Bovine hides, whole, fresh or wet-salted (410121) | 1.8 | 13.2 | 7.3 | Bedspreads, textile material, nes, not knit or croche (630419) | 661.7 | 522.7 | 0.8 |
| Precious, semi-precious stones unworked, partly worke (710310) | 1.7 | 184.4 | 106.0 | Tea, black (fermented or partly) in packages > 3 kg (090240) | 661.6 | 45.8 | 0.1 |
| Staple fibres of polyesters, not carded or combed (550320) | 1.7 | 240.9 | 138.7 | Benzene (290220) | 651.9 | 82.3 | 0.1 |
| Vegetable products nes for human consumption (121299) | 1.7 | 1.0 | 0.6 | Woven hi-ten filament, nylon, polyamide or polyester (540710) | 644.0 | 9.2 | 0.0 |
| Polyethylene - specific gravity <0.94 in primary form (390110) | 1.7 | 1,293.4 | 778.9 | Footwear, soles, uppers of leather, over ankle, nes (640351) | 632.5 | 17.1 | 0.0 |

Table 12.1: Potential Exports of Products with Revealed Comparative Advantage in Central and South Asia Markets (continued)

| Pakistan | | | | Kazakhstan | | | |
|--|----------------------|----------------------------|---------------------------------|--|----------------------|----------------------------|---------------------------------|
| Product | Actual Exports | Potential Regional Exports | Exports as a Multiple of Actual | Product | Actual Exports | Potential Regional Exports | Exports as a Multiple of Actual |
| | (Million US dollars) | | | | (Million US dollars) | | |
| Rice, semi-milled or wholly milled (100630) | 1,833.3 | 162.4 | 0.1 | Petroleum oils, oils from bituminous minerals, crude (270900) | 50,955.1 | 134,407.0 | 2.6 |
| Cotton yarn >85% single uncombed 714-232 dtex, not ret (520512) | 1,050.3 | 5.7 | 0.0 | Ferro-chromium, >4% carbon (720241) | 2,035.8 | 22.2 | 0.0 |
| Toilet or kitchen linen, of cotton terry towelling (630260) | 733.5 | 79.7 | 0.1 | Iron ore, concentrate, not iron pyrites, agglomerated (260112) | 1,123.0 | 181.9 | 0.2 |
| Bed linen, of cotton, nes (630231) | 692.3 | 8.5 | 0.0 | Wheat except durum wheat, and meslin (100190) | 1,042.2 | 339.8 | 0.3 |
| Mens, boys trousers & shorts, of cotton, not knit (620342) | 629.2 | 81.2 | 0.1 | Propane, liquefied (271112) | 785.4 | 1,494.4 | 1.9 |
| Bed linen, of textile knit or crochet materials (630210) | 570.1 | 2.8 | 0.0 | Copper ores and concentrates (260300) | 708.7 | 5,565.3 | 7.9 |
| Bed linen, of material nes, nes (630239) | 546.7 | 3.6 | 0.0 | Zinc, not alloyed, unwrought, >99% pure (790111) | 676.6 | 98.9 | 0.1 |
| Portland cement, other than white cement (252329) | 463.0 | 509.2 | 1.1 | Silver in unwrought forms (710691) | 637.9 | 2,857.6 | 4.5 |
| Womens, girls trousers & shorts, of cotton, not knit (620462) | 414.1 | 44.1 | 0.1 | Butanes, liquefied (271113) | 354.4 | 2,701.5 | 7.6 |
| Denim cotton >85% >200g/m2 (520942) | 391.7 | 37.9 | 0.1 | Sulphur, crude or unrefined (250310) | 341.4 | 337.0 | 1.0 |
| Articles of apparel of leather or composition leather (420310) | 366.0 | 13.5 | 0.0 | Flat rolled iron or non-alloy steel, coated with zinc, width >600mm | 311.1 | 734.0 | 2.4 |
| Floor & dish cloths, dusters, etc, textile material (630710) | 353.3 | 11.8 | 0.0 | Semi-finished product, iron or non-alloy steel >0.25%C (720720) | 305.6 | 66.9 | 0.2 |
| Mens, boys shirts, of cotton, knit (610510) | 313.7 | 23.8 | 0.1 | Aluminium oxide, except artificial corundum (281820) | 302.4 | 355.5 | 1.2 |
| Instruments, appliances for medical, etc science, nes (901890) | 269.7 | 719.2 | 2.7 | Hot rolled iron or non-alloy steel, coil, width >600mm, t <3mm thick | 290.5 | 703.8 | 2.4 |
| Cotton yarn >85% multiple uncomb 714-232 dtex, not ret (520532) | 239.9 | 0.6 | 0.0 | Ferro-silico-manganese (720230) | 254.6 | 24.2 | 0.1 |
| Mens, boys shirts, of materials nes, knit (610590) | 235.4 | 3.0 | 0.0 | Lead refined unwrought (780110) | 250.5 | 288.7 | 1.2 |
| Rice, broken (100640) | 229.8 | 46.8 | 0.2 | Ferro-silico-chromium (720250) | 202.2 | 0.1 | 0.0 |
| Refined sugar, in solid form, nes, pure sucrose (170199) | 216.4 | 657.8 | 3.0 | Documents of title (bonds etc), unused stamps etc (490700) | 198.5 | 1,125.0 | 5.7 |
| Polyethylene terephthalate, in primary forms (390760) | 213.9 | 283.3 | 1.3 | Ferro-chromium, <4% carbon (720249) | 197.1 | 51.8 | 0.3 |
| Wheat or meslin flour (110100) | 211.9 | 784.4 | 3.7 | Phosphorus (280470) | 168.4 | 70.8 | 0.4 |
| Cotton yarn >85% single uncombed >714 dtex, not retail (520511) | 188.1 | 11.3 | 0.1 | Flat rolled iron or non-alloy steel, coated with tin, w >600mm, t <0.5mm | 164.4 | 142.2 | 0.9 |
| Woven plain >85% polyester + cotton, <170g/m2 printed (551341) | 181.0 | 0.8 | 0.0 | Titanium, unwrought, waste or scrap, powders (810810) | 150.0 | 2.5 | 0.0 |
| Cotton yarn >85% single combed 714-232 dtex, not retail (520522) | 176.2 | 7.0 | 0.0 | Petroleum gases & gaseous hydrocarbons nes, liquefied (271119) | 144.0 | 1,006.9 | 7.0 |
| Durum wheat (100110) | 171.3 | 71.4 | 0.4 | Cold rolled iron or non-alloy steel, coil, width >600mm, t 0.5-1mm | 134.7 | 465.5 | 3.5 |
| Plain weave cotton, >85% >200g/m2, unbleached (520911) | 167.1 | 1.3 | 0.0 | Manganese ores, concentrates, iron ores >20% Manganese (260200) | 88.2 | 427.8 | 4.9 |
| Veg fats, oils or fractions hydrogenated, esterified (151620) | 160.7 | 260.1 | 1.6 | Linseed (120400) | 80.5 | 8.6 | 0.1 |
| Plain weave cotton, >85% 100-200g/m2, unbleached (520812) | 157.7 | 14.8 | 0.1 | Barley (100300) | 74.4 | 31.9 | 0.4 |
| Leather, composition gloves & mittens except sports (420329) | 154.1 | 5.4 | 0.0 | Gold powder non-monetary (710811) | 72.6 | 0.3 | 0.0 |
| Inflatable balls (950662) | 152.8 | 6.7 | 0.0 | Hot rolled iron or non-alloy steel, flat, width >600mm, t <3mm, nes | 67.7 | 30.4 | 0.4 |
| Twill weave cotton, >85% >200g/m2, dyed (520932) | 152.5 | 11.1 | 0.1 | Chromium oxides, hydroxides except chromium trioxide (281990) | 67.0 | 2.6 | 0.0 |
| Undenatured ethyl alcohol > 80% by volume (220710) | 150.9 | 16.9 | 0.1 | Bearings, cylindrical roller, nes (848250) | 66.3 | 49.2 | 0.7 |
| Goat or kid skin leather, nes (410620) | 140.7 | 6.9 | 0.0 | Quartzite, slabs etc. (250629) | 64.5 | 1.3 | 0.0 |
| Twill weave cotton, >85% >200g/m2, unbleached (520912) | 130.1 | 1.1 | 0.0 | Asbestos (252400) | 62.7 | 300.3 | 4.8 |
| Mandarin, clementine & citrus hybrids, fresh or dried (080520) | 129.1 | 98.5 | 0.8 | Casings, tubing and drill pipe, for oil drilling (730420) | 62.3 | 777.6 | 12.5 |
| Twill weave cotton, >85% <200g/m2, unbleached (520813) | 124.7 | 4.7 | 0.0 | Sodium triphosphate (283531) | 58.1 | 85.1 | 1.5 |
| Womens full, kneelength hosiery, yarn <67 dtex/sy, kni (611520) | 123.8 | 2.1 | 0.0 | Hot rolled iron or non-alloy steel, coil, width >600mm, t >10mm, nes | 56.0 | 277.4 | 5.0 |
| Chromium ores and concentrates (261000) | 120.7 | 39.5 | 0.3 | Tantalum unwrought, bars, rods simply sintered, scrap (810310) | 55.8 | 21.5 | 0.4 |
| Bovine and equine leather, full or split grain, nes (410431) | 120.4 | 11.2 | 0.1 | Cold rolled iron or non-alloy steel, coil, width >600mm, t >3mm, nes | 52.2 | 46.0 | 0.9 |
| Plain weave cotton, <85% +manmade fibre, <200g print (521051) | 117.3 | 1.9 | 0.0 | Cold rolled iron or non-alloy steel, flat, width >600mm, t >3mm, nes | 49.1 | 3.8 | 0.1 |
| Leather, composition sports gloves, mittens and mitts (420321) | 114.3 | 0.7 | 0.0 | Cold rolled iron or non-alloy steel, coil, width >600mm, t 1-3mm, nes | 45.4 | 268.4 | 5.9 |

Table 12.1: Potential Exports of Products with Revealed Comparative Advantage in Central and South Asia Markets (continued)

| Kyrgyzstan | | | | Tajikistan | | | |
|---|----------------------|----------------------------|---------------------------------|---|----------------------|----------------------------|---------------------------------|
| Product | Actual Exports | Potential Regional Exports | Exports as a Multiple of Actual | Product | Actual Exports | Potential Regional Exports | Exports as a Multiple of Actual |
| | (Million US dollars) | | | | (Million US dollars) | | |
| Gold in unwrought forms non-monetary (710812) | 743.2 | 42,938.5 | 57.8 | Aluminium unwrought, not alloyed (760110) | 461.6 | 374.2 | 0.8 |
| Kidney beans and white pea beans dried shelled (071333) | 52.0 | 131.8 | 2.5 | Aluminium unwrought, alloyed (760120) | 49.2 | 360.3 | 7.3 |
| Electrical energy (271600) | 51.4 | 168.5 | 3.3 | Lead ores and concentrates (260700) | 35.6 | 136.4 | 3.8 |
| Diesel powered trucks weighing > 20 tonnes (870423) | 28.5 | 575.1 | 20.2 | Onions and shallots, fresh or chilled (070310) | 23.7 | 54.9 | 2.3 |
| Precious metal ores and concentrates except silver (261690) | 22.9 | 155.2 | 6.8 | Antimony ores and concentrates (261710) | 23.5 | 24.0 | 1.0 |
| Womens, girls blouses, shirts, manmade fibre, not kni (620640) | 21.5 | 14.6 | 0.7 | Apricots, dried (081310) | 23.2 | 22.6 | 1.0 |
| Womens, girls dresses, synthetic fibres, not knit (620443) | 18.9 | 20.7 | 1.1 | Mixtures of edible nuts, dried and preserved fruits (081350) | 18.4 | 22.4 | 1.2 |
| Filament lamps, of a power <= 200 Watt, > 100 volts (853922) | 18.8 | 19.4 | 1.0 | Zinc ores and concentrates (260800) | 11.5 | 145.8 | 12.7 |
| Womens, girls trousers, shorts, synth fibres, not kni (620463) | 15.1 | 12.2 | 0.8 | Fish fillets, frozen (030420) | 11.1 | 14.2 | 1.3 |
| Tobacco, unmanufactured, not stemmed or stripped (240110) | 15.1 | 9.6 | 0.6 | Bovine and equine leather, tanned or retanned, nes (410429) | 5.9 | 142.9 | 24.3 |
| Radiators for motor vehicles (870891) | 13.7 | 49.1 | 3.6 | Wire, aluminium, not alloyed, t > 7mm (760511) | 5.2 | 19.2 | 3.7 |
| Float glass etc in sheets, non-wired, clear (700529) | 11.1 | 72.3 | 6.5 | Parts of gas turbine engines except turbo-jet/prop (841199) | 3.5 | 478.3 | 136.5 |
| Pneumatic tyres new of rubber nes (401199) | 10.0 | 194.4 | 19.4 | Prunes, dried (081320) | 2.5 | 4.5 | 1.8 |
| Milk not concentrated nor sweetened 1-6% fat (040120) | 9.8 | 74.6 | 7.6 | Fruits, dried nes (081340) | 2.5 | 13.1 | 5.3 |
| Mens, boys trousers shorts, synthetic fibre, not knit (620343) | 8.6 | 15.5 | 1.8 | Waste or scrap, aluminium (760200) | 2.4 | 1,202.7 | 491.6 |
| Hosiery nes, of cotton, knit (611592) | 8.1 | 33.9 | 4.2 | Monoculars, telescopes, etc (900580) | 1.9 | 8.4 | 4.3 |
| Carrots and turnips, fresh or chilled (070610) | 7.8 | 12.6 | 1.6 | Unrefined copper, copper anodes, electrolytic refinin (740200) | 1.8 | 122.1 | 69.0 |
| Womens, girls skirts, synthetic fibres, not knit (620453) | 7.5 | 5.2 | 0.7 | Sections, U, iron or non-alloy steel, nfw hot-roll/drawn/extruded > 1.6 | 74.0 | 47.2 | |
| Polyvinyl chloride in primary forms (390410) | 6.7 | 203.5 | 30.2 | Precious & semi-precious stones, nes, worked, not set (710399) | 1.5 | 55.0 | 37.8 |
| Walnuts, fresh or dried, shelled (080232) | 6.5 | 3.3 | 0.5 | Fittings, pipe or tube, iron or steel, nes (730799) | 1.3 | 203.3 | 152.0 |
| Womens, girls anoraks etc of manmade fibres, not knit (620293) | 6.5 | 26.3 | 4.0 | Nickel-cadmium electric accumulators (850730) | 1.2 | 46.8 | 39.6 |
| Plastic carboys, bottles and flasks, etc (392330) | 6.2 | 55.7 | 8.9 | Sardines,brisling,sprats, frozen, whole (030371) | 1.2 | 2.3 | 2.0 |
| Rock drilling or earth boring tools except carbide (820712) | 5.6 | 142.7 | 25.6 | Footwear, soles/uppers leather, strap instep & big to (640320) | 1.2 | 15.3 | 13.2 |
| Womens, girls blouses & shirts, manmade fibre, knit (610620) | 5.1 | 7.0 | 1.4 | Heat exchange units, non-domestic, non-electric (841950) | 1.1 | 223.4 | 206.7 |
| Milk powder < 1.5% fat (040210) | 4.9 | 200.1 | 41.1 | Alkyd resins, in primary forms (390750) | 1.1 | 8.3 | 7.7 |
| Parts/accessories nes for optical/electric instrument (903300) | 4.9 | 506.5 | 104.2 | Chocolate/cocoa food preparations nes (180690) | 1.0 | 289.6 | 280.6 |
| Worked calcareous stone nes (680292) | 4.3 | 5.2 | 1.2 | Wire, aluminium alloy, t < 7mm (760529) | 1.0 | 9.7 | 9.6 |
| Womens, girls dresses, of synthetic fibres, knit (610443) | 4.2 | 10.5 | 2.5 | Apples, dried (081330) | 1.0 | 1.5 | 1.6 |
| Beverage waters, sweetened or flavoured (220210) | 4.2 | 84.8 | 20.4 | Liquorice extract (130212) | 0.9 | 0.4 | 0.5 |
| Hot rolled iron or non-alloy steel, flat,width >600mm, t >10mm, nes | 3.9 | 542.1 | 138.3 | Threaded fittings, iron or steel except stainless/cas (730792) | 0.9 | 28.2 | 32.6 |
| Butter and other fats and oils derived from milk (040500) | 3.7 | 77.7 | 20.8 | Ground-nuts in shell not roasted or cooked (120210) | 0.9 | 6.2 | 7.2 |
| Bovine meat, offal nes, not livers, prepared/preserve (160250) | 3.7 | 14.7 | 3.9 | Machinery to fill, close, aerate,etc bottle, containe (842230) | 0.9 | 266.3 | 308.5 |
| Bovine animals, live, except pure-bred breeding (010290) | 3.7 | 13.5 | 3.7 | Mens, boys garments nes, of cotton, not knit (621132) | 0.9 | 5.1 | 6.0 |
| Cartons, boxes & cases, of corrugated paper or board (481910) | 3.4 | 47.8 | 14.2 | Cast glass sheet, non-wired, clear (700319) | 0.7 | 8.2 | 11.0 |
| Womens, girls overcoats etc manmade fibre, not knit (620213) | 3.1 | 6.8 | 2.2 | Non-medical X-ray equipment (902219) | 0.6 | 72.9 | 118.6 |
| Articles of cement, concrete or artificial stone nes (681099) | 3.1 | 21.7 | 7.0 | Trailers for housing or camping (871610) | 0.6 | 4.0 | 6.6 |
| Cartons, boxes & cases, folding, non-corrugated paper (481920) | 2.9 | 45.8 | 15.7 | Braids in the piece (580810) | 0.6 | 3.5 | 5.8 |
| Filament lamps, except ultraviolet or infra-red, nes (853929) | 2.8 | 35.2 | 12.4 | Parts of electric sound & visual signalling apparatus (853190) | 0.4 | 109.3 | 250.3 |
| Signals etc for rail, tram, water-way, port, airfield (860800) | 2.8 | 87.1 | 31.3 | Pineapples, otherwise prepared or preserved (200820) | 0.4 | 6.8 | 15.9 |
| Ice cream and other edible ice (210500) | 2.8 | 29.9 | 10.8 | Aluminium pipe or tube fittings (760900) | 0.4 | 10.4 | 26.4 |

Table 12.1: Potential Exports of Products with Revealed Comparative Advantage in Central and South Asia Markets (continued)

| Turkmenistan | | | | Uzbekistan | | | |
|--|----------------------|----------------------------|---------------------------------|---|----------------------|----------------------------|---------------------------------|
| Product | Actual Exports | Potential Regional Exports | Exports as a Multiple of Actual | Product | Actual Exports | Potential Regional Exports | Exports as a Multiple of Actual |
| | (Million US dollars) | | | | (Million US dollars) | | |
| Natural gas in gaseous state (271121) | 6,015.7 | 428.0 | 0.1 | Cotton, not carded or combed (520100) | 857.0 | 1,037.0 | 1.2 |
| Gold, semi-manufactured forms, non-monetary (710813) | 263.0 | 2,920.0 | 11.1 | Copper cathodes and sections of cathodes unwrought (740311) | 475.7 | 162.6 | 0.3 |
| Polypropylene in primary forms (390210) | 103.8 | 939.5 | 9.0 | Natural uranium, its compounds, mixtures (284410) | 420.0 | 4.2 | 0.0 |
| Iodine (280120) | 17.3 | 126.7 | 7.3 | Automobiles, spark ignition engine of 1000-1500 cc (870322) | 295.6 | 424.7 | 1.4 |
| Cotton seed oil-cake and other solid residues (230610) | 15.0 | 0.3 | 0.0 | Automobiles, spark ignition engine of <1000 cc (870321) | 201.6 | 268.8 | 1.3 |
| Petroleum coke, not calcined (271311) | 4.7 | 384.9 | 81.4 | Automobiles, spark ignition engine of 1500-3000 cc (870323) | 138.6 | 1,336.8 | 9.6 |
| Terry towelling etc of cotton, not narrow fabric, unb (580211) | 3.9 | 0.0 | 0.0 | Zinc, not alloyed, unwrought, <99% pure (790112) | 106.2 | 75.4 | 0.7 |
| Cranes & lifting frames, self-propelled, not on tyres (842649) | 1.8 | 162.1 | 88.1 | T-shirts, singlets and other vests, of cotton, knit (610910) | 78.3 | 49.7 | 0.6 |
| Pile-drivers and pile-extractors (843010) | 1.4 | 10.9 | 8.0 | Wire of refined copper < 6mm wide (740819) | 75.1 | 70.8 | 0.9 |
| Cotton yarn >85% single uncombed <125 dtex, not retai (520515) | 1.0 | 1.4 | 1.4 | Ammonium nitrate, including solution, in pack >10 kg (310230) | 67.7 | 180.6 | 2.7 |
| Cotton-seed or fractions simply refined (151229) | 0.6 | 2.1 | 3.7 | Urea, including aqueous solution in packs >10 kg (310210) | 61.2 | 2,467.0 | 40.3 |
| Degras, residues from treatment animal & veg waxes (152200) | 0.6 | 10.6 | 19.1 | Cotton yarn >85% single uncombed 232-192 dtex, not ret (520513) | 60.2 | 3.8 | 0.1 |
| Plain weave cotton, >85% >200g/m2, yarn dyed (520941) | 0.3 | 2.2 | 7.9 | Wire of refined copper > 6mm wide (740811) | 57.6 | 351.8 | 6.1 |
| Twill weave cotton, >85% <200g/m2, printed (520853) | 0.1 | - | - | Fruits, fresh nes (081090) | 55.1 | 61.4 | 1.1 |
| Cotton yarn <85% multiple combed <125 dtex, not retai (520645) | 0.1 | 0.3 | 5.4 | Electric conductors, 80-1,000 volts, no connectors (854459) | 50.1 | 609.9 | 12.2 |
| | | | | Tomatoes, fresh or chilled (070200) | 43.9 | 138.2 | 3.1 |
| | | | | Cotton yarn >85% single uncombed 192-125 dtex, not ret (520514) | 43.8 | 0.5 | 0.0 |
| | | | | Melons (including watermelons), fresh (080710) | 41.4 | 18.7 | 0.5 |
| | | | | Apricots, fresh (080910) | 36.8 | 26.5 | 0.7 |
| | | | | Polyethylene - specific gravity >0.94 in primary form (390120) | 36.4 | 933.5 | 25.6 |
| | | | | Vegetables, fresh or chilled nes (070990) | 31.2 | 41.5 | 1.3 |
| | | | | Waste/scrap, precious metals except pure gold/platinu (711290) | 30.7 | 4.3 | 0.1 |
| | | | | Cherries, fresh (080920) | 29.6 | 17.9 | 0.6 |
| | | | | Peaches, nectarines, fresh (080930) | 28.1 | 25.3 | 0.9 |
| | | | | Fertilizers with nitrogen and phosphorus nes, <=10kg (310559) | 26.5 | 254.3 | 9.6 |
| | | | | Potassium chloride, in packs >10 kg (310420) | 26.5 | 1,313.2 | 49.6 |
| | | | | Boring or sinking machinery nes, not self-propelled (843049) | 23.6 | 253.8 | 10.7 |
| | | | | Plums, sloes, fresh (080940) | 20.0 | 20.1 | 1.0 |
| | | | | Pullovers, cardigans etc of cotton, knit (611020) | 19.9 | 36.7 | 1.8 |
| | | | | Edible brassicas nes, fresh or chilled (070490) | 19.6 | 15.7 | 0.8 |
| | | | | Cotton yarn >85% single combed 192-125 dtex, not ret. (520524) | 19.4 | 4.4 | 0.2 |
| | | | | Mineral waxes nes (271290) | 18.8 | 76.8 | 4.1 |
| | | | | Waste/scrap containing platinum as sole precious meta (711220) | 18.3 | 0.8 | 0.0 |
| | | | | Carpets of manmade yarn, woven pile, made up, nes (570242) | 18.0 | 115.3 | 6.4 |
| | | | | Cucumbers and gherkins, fresh or chilled (070700) | 17.3 | 21.4 | 1.2 |
| | | | | Copper sulphates (283325) | 16.7 | 13.4 | 0.8 |
| | | | | Liquid dielectric transformers 650-10,000KVA (850422) | 15.6 | 59.9 | 3.8 |
| | | | | Beetroot, salsify, celeriac, radishes etc. fresh, chille (070690) | 15.2 | 14.4 | 0.9 |
| | | | | Knit or crochet fabric of cotton, nes (600292) | 14.0 | 14.8 | 1.1 |
| | | | | Monoammonium phosphate & mix with diammonium, <=10 kg (31 | 13.9 | 221.2 | 15.9 |

C. Ratings

Table 12.2 shows the scores assigned to potential regional exports based on the revealed comparative advantages of each country. The ratings are based on the evaluation methodology described in Chapter 3 and the analysis of the topics in this chapter.

Table 12.2. Summary Assessment of RCA-Based Potential Regional Exports

| | | Strongly Discourages | Discourages | Neither | Supports | Strongly Supports |
|--|--------------|-------------------------|-------------|---------|----------|----------------------|
| A. There is considerable untapped potential intra- and inter-regional trade based on country RCAs | | | | | | |
| 1 | Kazakhstan | 1 | 2 | 3 | 4 | 5 |
| 2 | Kyrgyzstan | 1 | 2 | 3 | 4 | 5 |
| 3 | Tajikistan | 1 | 2 | 3 | 4 | 5 |
| 4 | Turkmenistan | 1 | 2 | 3 | 4 | 5 |
| 5 | Uzbekistan | 1 | 2 | 3 | 4 | 5 |
| 6 | Afghanistan | 1 | 2 | 3 | 4 | 5 |
| 7 | India | 1 | 2 | 3 | 4 | 5 |
| 8 | Pakistan | 1 | 2 | 3 | 4 | 5 |
| B. There is a large untapped ratio of potential to actual regional exports in the country | | | | | | |
| 1 | Kazakhstan | 1 | 2 | 3 | 4 | 5 |
| 2 | Kyrgyzstan | 1 | 2 | 3 | 4 | 5 |
| 3 | Tajikistan | 1 | 2 | 3 | 4 | 5 |
| 4 | Turkmenistan | 1 | 2 | 3 | 4 | 5 |
| 5 | Uzbekistan | 1 | 2 | 3 | 4 | 5 |
| 6 | Afghanistan | 1 | 2 | 3 | 4 | 5 |
| 7 | India | 1 | 2 | 3 | 4 | 5 |
| 8 | Pakistan | 1 | 2 | 3 | 4 | 5 |

XIII. REGIONAL VALUE CHAINS

A. Fragmentation of Production

1. Trade in Products versus Trade in Tasks

The nature of international trade is changing from simply creating final products and trading those goods, based on the comparative advantages of countries, to ‘trade in tasks’, based on the cross-border exchange of intermediate goods and services. Specialization in tasks gives rise to ‘trade in value added’ that represents the difference between the value of primary or intermediate products that are imported and the value of the transformation into further processed goods. This type of fragmentation of production across countries now accounts for over one-half of total international trade.⁸⁷ In this framework, countries can specialize in the same industry, but in different stages of the production chain and trade with one another to create value-added from trade.

In the Central and South Asia context, the traditional regional model for generating trade and investment has relevance in terms of differences in skilled and unskilled labor endowments and production technologies; but it has less relevance in terms of natural resource endowments than in other regions because countries share similar natural resources and therefore tend to produce similar types of goods. For example, in terms of endowments, the natural resource-rich countries of Kazakhstan, Turkmenistan and Uzbekistan export oil, gas, ferrous and non-ferrous metals. Raw cotton and cotton yarn is a leading export of Afghanistan, Tajikistan and Uzbekistan; Kyrgyzstan and Uzbekistan both export gold; fruits and vegetables are major exports of Afghanistan and Kyrgyzstan; and Afghanistan and Kazakhstan are both leading exporters of coal.

Comparative country differences in production technologies and both the size and skill-levels of the labor force cause relative labor productivity to differ across industries, and these differences give rise to considerable potentials for trade creation. For example, India and Pakistan are major exporters of refined oil and textiles, and rely on imports of crude oil and, to some extent, raw cotton for material inputs. There are therefore opportunities for growth of intra-regional trade resulting from differences in factor endowments within regions and possibly between them.

In terms of traded products, however, the two regions share similar patterns. Each of the sub-regions exports relatively unprocessed products and imports processed goods. Moreover, the same products are often exported by two or more countries in the regions. Areas of trade and investment complementarity are therefore limited, and strategic planning for growth needs to also invoke explanations of trade and investment between countries trading the same types of products, which indeed are increasingly characterizing trade throughout the world economy. Under these conditions, the appropriate trade and investment model for the Central and South Asia regions is one that not only determines the growth potential of intra-regional trade resulting from differences in factor endowments, but also one that builds on the growing world-wide trend towards the globalization of production and the reduction of production costs by exploiting

⁸⁷ Organisation for Economic Co-operation and Development (OECD, 2014), “Global Trade and Specialisation Patterns over the Next 50 Years”. Paris. OECD Economic Policy Paper No. 10. Available: <http://www.oecd.org/economy/Trade-and-specialisation-patterns-for-the-next-fifty-years.pdf>.

economies of scale and expanding both intra-industry and intra-firm trade within the region as well as extra-regional trade.

2. Global versus Regional Value Chains

Global value chains (GVCs) consist of the establishment of production bases for product components in multiple countries, based on locational cost advantages, with the final assembly occurring in other countries, and then being exported to global markets. Production of products is therefore spread across many countries in order for large businesses to become competitive in the global marketplace. The greater the number of stages of production in trading across borders, the larger the investment opportunities for value-added activities.⁸⁸ In general, the industries with the highest level of fragmentation are electronic and communication equipment, motor vehicles, basic metals, electrical machinery, textiles, leather and footwear. In services, transport and storage have the longest value chains.⁸⁹

Linking production activities into global value chains can create gains in terms of higher value additions to exports, transfer of technologies, and employment generation. But for developing economies it can also entrench businesses into the production of low-end and low-value added inputs, with small gains in domestic value added additions. Instead, the distribution of greater value added benefits occurs in those countries, typically the more advanced ones, that are involved in upstream activities (research and development, design, innovation), and downstream activities (marketing, branding and logistics). The least amount of value added often takes place in the fabrication process, usually located in the lesser developed countries.

Figure 13.1 illustrates the value added created at different stages of the production and distribution process in what is widely known as the ‘smiling curve’.⁹⁰ This situation differs from that of the 1970s, when the value added in the pre- and post-production stages did not differ significantly from that of the fabrication process. Hence, while fabrication is an important part of the value chains, pre-production and post-production intangibles in the value chain are what currently provide the greatest value added.

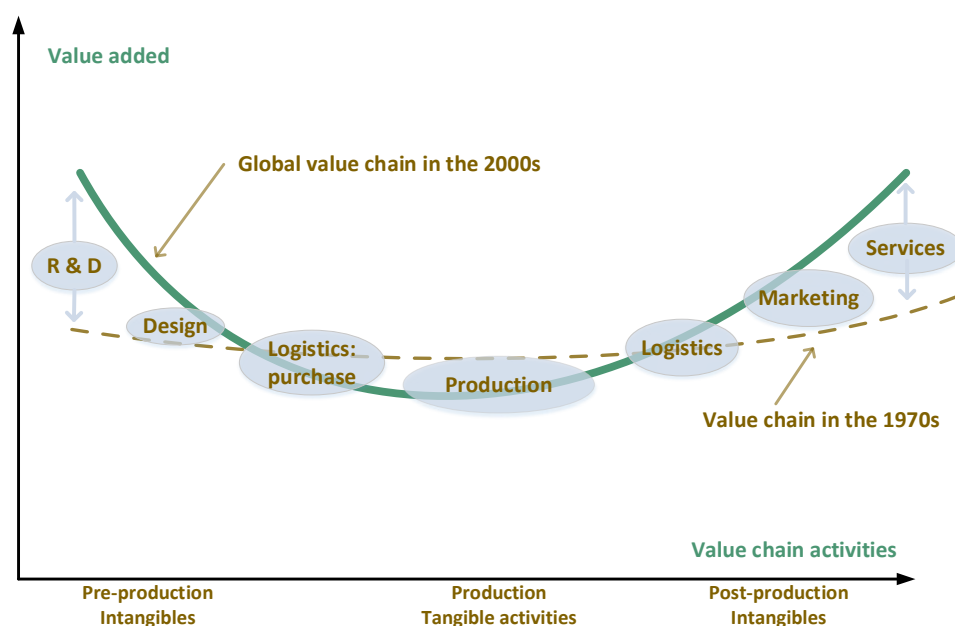
Regional value chains (RVCs) provide an opportunity for countries in the area to both source the raw materials and intermediate products as well as the higher value activities within the region. One of the principal motivations for the ‘regionalization of trade and investment’ is the savings that can occur from geographical proximity to transport costs, time to consumption, and flow of information across borders. For the Central Asian economies and Afghanistan, which rely on land

⁸⁸ T. Fally (2011). “On the Fragmentation of Production in the US”, University of Colorado-Boulder, July. Available: http://sciie.ucsc.edu/14AIEC/Fragmentation_Fally.pdf.

⁸⁹ K de Backer and S. Miroudot (2014), “Mapping Global Value Chains”. European Central Bank. Working Paper Series No 1677/May 2014. <http://www.ecb.europa.eu/pub/pdf/scpwps/ecbwp1677.pdf>

⁹⁰ Organisation for Economic Co-operation and Development (OECD, 2013), “Interconnected Economies: Benefiting from Value Chains”. Paris. Available: <http://www.oecd.org/sti/ind/interconnected-economies-GVCs-synthesis.pdf>.

Figure 13.1. The Smiling Curve for Value Added in Regional and Global Value Chains



Source: Organisation for Economic Co-operation and Development (OECD, 2013), "Interconnected Economies: Benefiting from Value Chains". Paris.

and air connectivity with each other and neighboring countries to access international markets, these cost-saving opportunities are especially important.

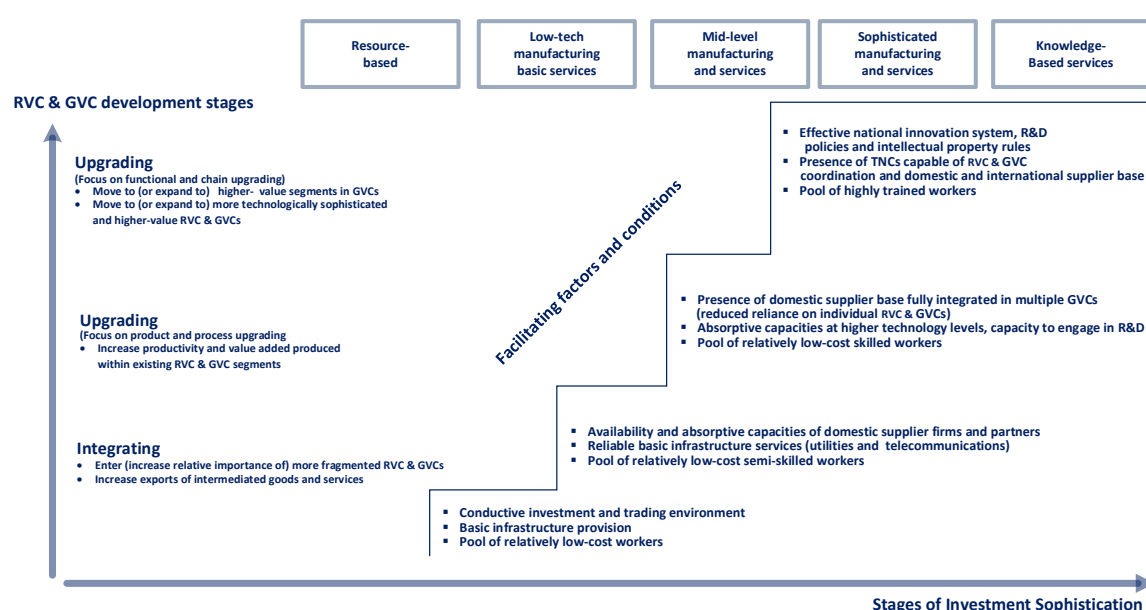
Proximity to economic activity is fundamental. The sheer size of Central Asia, along with Afghanistan, is a key feature of that region and it increases distances to markets. Kazakhstan is the largest landlocked country by area and the ninth largest country in the world, and Afghanistan ranks ninth in the list of largest landlocked countries of the world. In South Asia, India is the seventh largest country in the world, while Pakistan ranks thirty-third. In principle, countries close to one another but differing in their production fundamentals can utilize their dynamic regional comparative advantages and complementarities to exploit differences in factor endowments and production technologies. This is the traditional motivation driving regionalization of production activity, which is based on the notion that participating countries can expand the production of those goods in which they have lower relative marginal costs, and thereby derive economies of scale in the production of their goods and services.

The creation of regional value chains (RVCs) would offer opportunities for economies of scale by spreading the production of goods across countries in Central and South Asia. This larger production area could, in turn, provide the basis with which to develop intra-firm trade, implement marketing processes that take advantage of vertical and horizontal product differentiation in markets outside the region, expand the volume of intra-industry trade within the two regions, and bring in much needed domestic and foreign investments. Together these changes could transform some leading sectors from a dependence on the traditional growth model based on comparative advantage and competitiveness in exports of final products to one based on the regionalization of production activities in which different stages of production are

distributed across countries in the region in order to achieve greater cost competitiveness and a more diversified production structure into higher levels of production sophistication.

The key issue to be considered by the Central and South Asian countries in terms of cross-border value chain investments is how much value is captured by each country in terms of employment, income, technology diffusion, and sustainable development. That issue refers to the extent of product upgrading, that is, shifting cross-border investments to more sophisticated products with higher unit prices (Figure 13.2). In this context, the degree of trade competitiveness is measured by the extent to which each country in the region is able to move up to higher levels of sophistication in regional value chains.

Figure 13.2. Stages of Cross-Border Value Added Investment by Level of Sophistication



Source: Adapted from J.R. Nascimento (2011), "Analysis of International Investments in the Agricultural Sector of Brazil". Rome. Food and Agriculture Organization of the United Nations (FAO).

B. Classification of RVCs based on Product Sophistication

1. Classification of Value Chains according to Value Added Contribution to Trade

In order to identify regional value chains according to their possible contribution to value added trade, we need to invoke a methodology that classifies industries according to their technology intensity and maps the industry classifications into the Harmonized System classification of international trade. It will be recalled that Section V.A divided Central and South Asia's intra- and inter-regional traded goods into five categories based on degrees of product sophistication (high tech, medium tech, low tech, primary products, and resource-based products). While useful to understanding the types of products traded in the regions, the classification had limited use in terms of its ability to classify major industries.

This chapter adopts a different methodology for the classification of trade according product sophistication, one that permits a higher degree of disaggregation in Central and South Asia's

traded products. The classification is based on the OECD methodological work classifying manufacturing industries in four categories of technological intensity: high, medium-high, medium-low and low technology.⁹¹ This classification is based on indicators of (direct as well as indirect) technological intensity that reflect to some degree "technology-producer" or "technology-user" aspects. It is generic insofar as it does not necessarily differentiate the degree of high-technology content in each high-technology industry, nor does it distinguish between those lower technology-intensive industries that contain different levels of technological intensity. High technology products contribute over 20 percent of the total value of global manufactured exports.⁹² In the advanced economies, they account for more than half of manufacturing activity.⁹³ Low technology products rank in the lower half of global trade in terms of importance, and they contribute less value added to producing countries than do medium to high technology intensive products.⁹⁴

In the present case, the OECD classification is extended in two ways. First, the OECD's consolidation of textile and textile products and leather and footwear has been separated into (i) textile and textile products, (ii) leather, and (iii) footwear. Second, raw material and intermediate products have been added to four industries: (a) petroleum, gas and electricity; (b) wood products; (c) food products; and (d) other manufactures. Table 13.1 presents the classification and the International Standard Industrial Classification (ISIC, Revision 3) codes associated with each industry. The concordance between the broad ISIC codes and the corresponding Harmonized System codes used for the trade data are available from the United Nations.⁹⁵

2. Comparative Advantages and Intra-Industry Trade

The methodology adopted in the present study to identify regional value chains is based on the revealed comparative advantage calculations reported in Chapter 5. This approach is the standard one used to identify which countries are most competitive in supplying raw materials and intermediate and final products to an industry. Apart from identifying the industries that have regional value chain development potential, it also shows whether the countries specialize in low, medium or high technology industries.

Value chain opportunities are identified for two or more countries having a revealed comparative advantage. Each of the industry traded products are then ranked in terms of the importance of

⁹¹ Organisation for Economic Co-operation and Development (OECD, 2011), "ISIC Rev 3 Technology Intensity Definition: Classification of manufacturing industries into categories based on R&D intensities". Paris, OECD Directorate for Science, Technology and Industry. Available: <http://www.oecd.org/sti/ind/48350231.pdf>.

⁹² United Nations Industrial Development Organization (UNIDO, 2013), "Industrial Development Report 2013. Sustaining Employment Growth: The Role of Manufacturing and Structural Change". Available: https://www.unido.org/fileadmin/user_media/Research_and_Statistics/UNIDO_IDR_2013_main_report.pdf.

⁹³ Organisation for Economic Co-operation and Development (OECD, 2011), "OECD Science, Technology and Industry Scoreboard 2013". Paris. Available: http://dx.doi.org/10.1787/sti_scoreboard-2013-en.

⁹⁴ Organisation for Economic Co-operation and Development (OECD, 2013), *Interconnected Economies: Benefiting from Global Value Chains*. Paris, OECD Publishing. Available: <http://dx.doi.org/10.1787/9789264189560-en>.

⁹⁵ United Nations, "Correspondence Tables". Online: <http://unstats.un.org/unsd/cr/registry/regot.asp?Lg=1>.

the industries' traded products within and between the Central and South Asia regions, and the product export rank for each country. Finally, existing intra-industry trade is identified as a further means of integrating national production processes into intra- and inter-regional value chains.

3. Limitations of Gross Trade Flows

Use of gross trade flows in the calculation of revealed comparative advantage has well-known limitation. The degree of fragmentation of exports shows a considerable gap when estimated with gross export data versus and value added export data, with the result that revealed comparative advantage calculations differ substantially.⁹⁶ The Trade in Value Added (TiVA) initiative addresses the double counting that occurs in conventional trade data because intermediate goods and services cross borders many times, especially with more sophisticated cross-border value chains. The full decomposition of gross exports into value added components is based on the recently released World Input Output Database (WIOD) covering 40 countries plus an estimation of the rest of the world, and 35 sectors for the period 1995-2009.⁹⁷

TiVA measures trade flows related to the value that is *added* by a country in the production of any good or services that is exported. The new dataset shows, for example, that trade in East Asia is increasingly shifting from trade in products to trade in tasks as firms becoming more closely integrated into global value chains. The proportion of GVCs in the region's total trade is now nearly 40 percent more than it was two decades ago.⁹⁸ The East Asia's GVC participation rate, equal to more than half of all trade, is larger than any other developing region.⁹⁹ That changing dynamic has driven much of the regional clustering of value chains and paved the way for closer regional integration. It would be useful and appropriate to use the TiVA dataset to identify regional value chains in Central and South Asia. Unfortunately, information on value added trade is only available for India and is not available for the other seven countries in the two regions.¹⁰⁰

⁹⁶ J. Taborda (2014), "Sector relatedness, revealed comparative advantages and production in global value chains". Paper to be presented at the DRUID Academy conference in Rebild, Aalborg, Denmark on January 15-17, 2014. Available: <https://www.iioa.org/conferences/22nd/papers/files/1523.pdf>.

⁹⁷ M.P. Timmer, ed (2012), "The World Input-Output Database (WIOD): Contents, Sources and Methods", WIOD Working Paper Number 10/ Available: <http://www.wiod.org/publications/papers/wiod10.pdf>.

⁹⁸ A country's integration in GVCs is measured as the share of imported intermediate inputs embodied in its exports following their incorporation in the production of goods and services. Data from OECD-WTO, Trade in Value Added (TiVA) Database, <http://oe.cd/tiva> as reported in Statlink at <http://dx.doi.org/10.1787/888932904355>. See also OECD, "Measuring Trade in Value Added: An OECD-WTO Joint Initiative". Available: <http://www.oecd.org/sti/ind/measuringtradeinvalue-addedanoecd-wtojointinitiative.htm>. For access to the TiVA database, see http://stats.oecd.org/Index.aspx?DataSetCode=TiVA_OECD_WTO.

⁹⁹ Based on data reported in UNCTAD (2013) from UNCTAD-Eora GVC database.

¹⁰⁰ For TiVA information on India, see "OECD/WTO Trade in Value Added (TiVA) Indicators: India." Paris. Available: http://www.oecd.org/sti/ind/TiVA_INDIA_MAY_2013.pdf.

A second limitation of revealed comparative advantage is that the calculations are based on past information that does not take into account current and possible future structural adjustments in the trade sectors. An alternative measure is the Domestic Resource Cost (DRC) coefficient, which compares the cost of domestic production with world prices. The DRC measures the dollar cost in domestic resources of earning or saving a net dollar of foreign exchange. Therefore, values below 1.0 indicate a comparative advantage and values above 1.0 a disadvantage. To the extent that a country persists in producing commodities whose DRCs are greater than one, its resources are being poorly utilized. The country would have little chance of increasing exports of those items or increasing domestic production to substitute for imports, since they are inherently non-competitive in world markets. More importantly, the process of compiling DRCs can be done in

Table 13.1: Classification of Industries according to Technological Intensity

| Industry Group | Industry | Sub-Industry | ISIC Rev. 3 |
|--|--|---------------------------------|---------------|
| High-technology industries | Aircraft and spacecraft | | 353 |
| | Pharmaceuticals | | 2423 |
| | Office, accounting and computing machinery | | 30 |
| | Radio, TV and communications equipment | | 32 |
| | Medical, precision and optical instruments | | 33 |
| Medium-high-technology industries | Electrical machinery and apparatus | | 31 |
| | Motor vehicles, trailers and semi-trailers | | 34 |
| | Chemicals excluding pharmaceuticals | | 24 excl. 2423 |
| | Railroad equipment and transport equipment | | 352 + 359 |
| | Machinery and equipment | | 29 |
| Medium-low-technology industries | Building and repairing of ships and boats | | 351 |
| | Rubber and plastics products | | 25 |
| | Petroleum, manuf of gas, electricity, of which: | | 23+40 |
| | Other non-metallic mineral products | | 26 |
| | Basic metals and fabricated metal products | | 27-28 |
| Low-technology industries | Manufacturing not elsewhere classified | | 36+37 |
| | Wood, pulp, paper, paper products, printing and publishing, of which | Forestry Products | 02 |
| | | Wood processing | 20-22 |
| | Food products, beverages and tobacco, of which: | Agricultural & Fishery Products | 01 + 05 |
| | | Food processing | 15-16 |
| | Textiles and textile products | | 17-18 |
| | Leather and footwear | | 19 |

Source: Extended classification of the OECD (2011), "ISIC Rev 3 Technology Intensity Definition: Classification of manufacturing industries into categories based on R&D intensities". Paris, OECD Directorate for Science, Technology and Industry. Available: <http://www.oecd.org/sti/ind/48350231.pdf>.

such a way that disaggregated cost data are separated according to productive stages along the value chain. However, this type of information is unavailable for Afghanistan and the Central Asian countries. For that reason, we adopt the standard RCA approach when identifying comparative advantages in regional value chains.

C. Potential Regional Value Chains

This section describes the results of an analysis of potential regional value chains based on the existence of comparative advantages in the production of goods from the 20 potential industry groups described in the previous section. Regional value chains generally cover two or more countries having a revealed comparative advantage index that exceeds unity. Based on that criterion, there is an extensive list of possible regional value chains in and between the two regions. Statistical Appendix Table A.61 list those products where two or more countries in the two regions have a comparative advantage.¹⁰¹

Because Comtrade data does not differentiate between exports from domestic production and re-exports, it is unclear whether the comparative advantages derived from that database reflect domestic production and exports of products from industries, or whether the trade data reflect re-exports.¹⁰² For that reason, the identification of potential regional value chains in this section is limited to four of the OECD industry groups described in the previous section where it is clear that countries in the two regions are producing and exporting products within those industry groups. The categories are as follows: (a) food products and beverages (ISIC 01+05+15); (b) mineral and metal fabrication (ISIC 26+27+28); (c) textiles and textile products (ISIC 17+18); and (d) pharmaceuticals (ISIC 2423). In this section, we highlight industries and associated products where either (a) the products represent an important share of total intra- and inter-regional trade; or (b) Afghanistan has a comparative advantage in the production of the industries' goods; or (c) there is potential for inter-regional value chains (e.g., unprocessed to processed products) that would require products to move through Afghanistan.

1. Agricultural Foods and Raw Materials (ISIC 01+05+15)

Agricultural food products are one of the largest industries throughout the Central and South Asia regions. There are over 70 products in the processed foods industry where the regions' countries have a comparative advantage, and another 70 unprocessed agricultural products that are either consumed directly or serve as inputs to the food processing industry. In some cases, it is possible to map the unprocessed products used as inputs to the processed food industry (Table 13.2); in others, it is not (Table 13.3). The large and widespread distribution of food manufacturing in the Central and South Asia regions makes this industry one of the obvious candidates for a regional value chain. Most countries in both regions are involved in farm-level production and the supply of intermediate inputs, manufacturing and distribution stages along the value chain, through both multinationals and SMEs.

The following are some of the regional value chains that could be developed in this industry grouping:

¹⁰¹ Caution should be exercised in the interpretation of the information since it is based on the United Nations Comtrade database, which includes products re-exports.

¹⁰² These situations arises especially the following industries: aircraft (ISIC 353); radio, television and communications equipment (ISIC 32); electrical machinery and apparatus (ISIC 31); building and repairing of ships and boats (ISIC 351); and machinery and equipment (ISIC 29).

(a) Fresh and Chilled Fruits and Vegetables

In Central and South Asia, potential products in the fresh and chilled fruit and vegetable RVC are apples (HS 080810 from Afghanistan and Kyrgyzstan); aubergines or egg-plants (HS 070930 from Kyrgyzstan and Uzbekistan); beetroots and radishes (HS 070690 from Kyrgyzstan, Tajikistan, and Uzbekistan); carrots and turnips (HS 070610 from Kyrgyzstan, Tajikistan, and Uzbekistan); garlic (HS 070320 from Kyrgyzstan and Uzbekistan); mangoes and mangosteen (HS 080450 from India and Pakistan); leeks and other alliaceous vegetables (HS 070390 from Kyrgyzstan and Uzbekistan); legumes, excepting peas and beans (HS 070890 from Pakistan and Uzbekistan); pears (HS 080820 from Kyrgyzstan and Uzbekistan); peas (HS 080820 from Afghanistan and Pakistan); plums (HS 080940 from Kyrgyzstan and Uzbekistan); potatoes (HS 070190 from Afghanistan, Pakistan and Kyrgyzstan); and other citrus fruits (HS 080590 from Pakistan and India).

The regional value chain for fresh and chilled fruits and vegetables consists of inputs needed for production such as seeds, fertilizers, agrochemicals like herbicides, fungicides and pesticides, farm equipment, and irrigation equipment; cultivation and harvesting; packing and processing services, such as washing, chopping, and mixing as well as bagging, branding, and applying bar codes; and distribution to regional or global markets. Competition in the industry is growing and there are an increasing number of public and private industry standards that need to be met. Because of the fragile and perishable nature of the products, the industry requires a high degree of coordination at different stages along the supply chain. Logistics and transportation are key supporting activities in the region value chain to ensure that perishable product reach their destination in acceptable conditions. Cool storage units are often used throughout the chain to keep produce fresh.

(b) Processed Foods

The potential products for the regional processed food value chain are preserved and dried apricots (HS 200850 and HS 81310 from Afghanistan, Pakistan, Kazakhstan, Kyrgyzstan, Tajikistan and Uzbekistan); preserved cherries (HS 81210 from Kyrgyzstan and Tajikistan); preserved cucumbers (HS 71140 and 200110 from India, Kyrgyzstan, Tajikistan and Uzbekistan); fruit and vegetable juices (HS 200980 and HS 200950 from Pakistan, Tajikistan and Uzbekistan); preserved fruits and nuts (HS 81290 and HS 81340 from Afghanistan, India, Pakistan, Kyrgyzstan, Tajikistan and Uzbekistan); semi-milled rice (HS 100630 from India and Pakistan); jams, fruit jellies, fruit sweet (HS 200799 from India, Kyrgyzstan and Uzbekistan); dried prunes (HS 81320 from Afghanistan, Kyrgyzstan, Tajikistan and Uzbekistan); refined sugar (HS 170199 from India and Pakistan); and tea (HS 902300 and HS 902100 from Afghanistan, India, Pakistan and Kyrgyzstan).

The main stages of the processed foods value chain share some common features as that for fresh and chilled fruits and vegetables. The consist of input elements needed for production; production of fruit and vegetables and all processes related to the growth and harvesting of the produce, such as planting, weeding, spraying, and picking; packing and cold storage, grading, washing, trimming, chopping, mixing, packing, and labeling; processing through dried, frozen, preserved, juices, and pulps; and distribution and marketing.

(c) Raw Material Inputs

There are a number of raw material inputs that have RVC potential. They include liquorice roots used primarily in the pharmaceutical industry (HS 121110 from Afghanistan and Uzbekistan); raw hides (HS 410130, HS 410121 and HS 410390 from Afghanistan, Kyrgyzstan, Tajikistan and Turkmenistan); cotton linters (HS 140420 from India, Pakistan, Kazakhstan, Tajikistan, Turkmenistan and Uzbekistan). These inputs serve the pharmaceutical, leather and textile industries respectively.

(d) Herbs and Spices

Among the major herbs and spices in which Central and South Asia countries have a comparative advantage and where there is RVC potentials are the following: Anise (HS 090910 from Afghanistan, India, Pakistan and Tajikistan); caraway (HS 090940 from Afghanistan, India, Pakistan, Kyrgyzstan and Tajikistan); coriander (HS 090920 from Afghanistan and India); cumin (HS 090930 from Afghanistan, India and Pakistan); safflower (HS 120760 from India and Kazakhstan); sesame (HS 120740 from Afghanistan, India, Pakistan and Uzbekistan); and turmeric (HS 091030 from India and Pakistan). The major channels for moving up the value chain in this industry is through the focus on higher added-value areas such as organic certification, quality assurance, packaging and branding.

In general, access to developed markets requires compliance with high product standards. Success in the development of a regional value chain will depend on the ability and willingness of countries to cooperate in sanitary and phytosanitary (SPS) requirements as well as quality standards under the World Trade Organization (WTO) rules in order to achieve globally competitiveness.¹⁰³ One of the ways to upgrade the regional value chain for all the agricultural food and raw material industries is through their transformation into the production of organically certified products. That transformation has been shown to have large paybacks since organic products have multiple price premiums over conventional products.¹⁰⁴

¹⁰³ United Nations Industrial Development Organization (UNIDO, 2006), "Global Value Chains in the Agrifood Sector". Vienna. Available: https://www.unido.org/fileadmin/user_media/Publications/Pub_free/Global_value_chains_in_the_agrifood_sector.pdf.

¹⁰⁴ M. Lord and P. Tangtrongjit (2011), "Mapping the organic vegetable value chain along the EWEC". Manila, Asia Development Bank. Available: <http://mpr.ub.uni-muenchen.de/42591/>.

Table 13.2: Mapping of Unprocessed and Processed Foods for Potential Regional Value Chain

| Unprocessed Agricultural Products | RCAs of Unprocessed Agricultural Products | | | | | | | | RCAs of Processed Food Products | | | | | | | | Processed Food Products |
|---|---|------|-----|----|-------|------|------|-------|---------------------------------|------|------|------|------|-------|-------|-------|-------------------------------|
| Description and HS Code | AF | IN | PK | KZ | KG | TA | TK | UZ | AF | IN | PK | KZ | KG | TA | TK | UZ | Description and HS code |
| Apricots, fresh-080910 | 129.5 | | | | 126.8 | 23.9 | | 178.6 | 1.1 | | | | 1.1 | 3.3 | | 4.3 | Apricotspreserved-200850 |
| | | | | | | | | | 46.8 | | 1.8 | 1.3 | 4.4 | 584.9 | | 35.7 | Apricots, dried-81310 |
| Bovine animals, live-010290 | 3.2 | | | | 3.8 | 1.6 | | | | 2.3 | 2.0 | | | | | | Bovine meat frozen -20629 |
| | | | | | | | | | | | | | | 1.3 | 1.0 | | Bovine hides, raw, nes-410130 |
| | | | | | | | | | 7.6 | | | | 3.1 | 4.8 | 1.0 | | Bovine hides-410121 |
| | | | | | | | | | 7.8 | | | | 15.4 | 10.2 | 2.2 | | Bovine skins raw-410110 |
| | | | | | | | | | | | 4.4 | | 10.4 | | | | Buttermilk-40390 |
| Cherries, fresh-80920 | | | | | 24.9 | 4.5 | | 44.2 | | | | | 12.8 | 5.1 | | | Cherries preserved-81210 |
| Cotton, not carded or combed-520100 | 73.9 | 10.9 | 8.5 | | 10.7 | 68.4 | 15.2 | 96.8 | | 12.0 | 5.6 | 2.1 | | 5.1 | 96.1 | 121.1 | Cotton linters-140420 |
| | | | | | | | | | | 3.6 | 5.9 | 14.9 | | | 164.6 | | Cotton seed oil-cake-230610 |
| | | | | | | | | | | | | 48.2 | | 2.6 | 76.5 | | Cotton-seed oil crude-151221 |
| Cucumbers and gherkins-070700 | | | | | 4.0 | | | 17.3 | | 24.2 | | | 1.1 | | | | Cucumbers preserved-71140 |
| | | | | | | | | | | 11.4 | | | 1.4 | 2.8 | | 7.5 | Cucumbers preserved -200110 |
| Fruits, fresh nes-081090 | 18.4 | | | | 3.3 | 3.9 | | 24.5 | | | 2.6 | | | 2.3 | | 1.5 | Fruit & veg juice -200980 |
| | | | | | | | | | 5.7 | 1.4 | | | | 2.9 | | | Fruits and nuts -81290 |
| | | | | | | | | | 29.8 | 1.9 | 40.3 | | 12.2 | 48.2 | | 30.2 | Fruits, dried nes-81340 |
| Grapes, fresh-080610 | 33.4 | | | | 2.0 | 1.6 | | 26.8 | 46.9 | | | | | 9.0 | | 37.3 | Grapes, dried-80620 |
| Nuts shell -120210 | 2.3 | 1.2 | | | | 24.4 | | 18.9 | 2.0 | 8.8 | | | | | | | Ground-nut oil -150890 |
| Ground-nuts shelled-120220 | | 18.4 | | | | 7.6 | | 7.1 | | 12.4 | 1.7 | | | | | | Ground-nut oil-cake -230500 |
| Onions and shallots -070310 | 85.3 | 9.2 | 4.8 | | 16.6 | 90.9 | | | | 12.7 | 7.1 | | | 1.1 | | 3.8 | Onions, dried-71220 |
| Rice in the husk -100610 | 1.3 | 2.9 | | | | | | | | 5.4 | 71.0 | | | | | | Rice, broken-100640 |
| | | | | | | | | | | 21.2 | 75.9 | | | | | | Rice, semi-milled-100630 |
| Salmonid, not trout or salmon-030219 | | 7.2 | 6.6 | | | | | | | 6.4 | 70.7 | | | | | | Salmonid, frozen-30329 |
| Tobacco, unman-240110 | 1.9 | 2.1 | 1.9 | | 46.8 | 3.0 | | 17.9 | 3.7 | 6.7 | | | | | | | Tobacco extracts -240399 |
| Tomatoes, fresh or chilled-070200 | 4.7 | | | | 2.0 | | | 11.5 | | | | | | 11.1 | | 1.7 | Tomato juice -200950 |
| Veg products-21299 | 69.6 | | | | | 13.1 | | 3.2 | 1.7 | 1.3 | 29.4 | | | | | 1.1 | Veg fats & oils-151620 |
| Vegetables, fresh or chilled nes-070990 | | 1.5 | 6.0 | | 2.3 | | | 22.9 | | 2.0 | 2.8 | | | | | 1.6 | Veg, fruit, nut -200190 |
| | | | | | | | | | | 17.7 | 3.9 | 2.2 | | | | | Vegetable oil-cake -230690 |
| | | | | | | | | | | | 1.1 | | 20.0 | | | 25.7 | Vegetables preserved-71190 |

Table 13.3: Other Processed and Unprocessed Foods for Potential Regional Value Chain

| Other Processed Food Products | RCAs of Processed Food Products | | | | | | | | Other Unprocessed Food Products | RCAs of Non Processed Food Products | | | | | | | |
|--|---------------------------------|------|------|-----|------|-----|-----|-----|---|-------------------------------------|------|------|-----|------|------|------|------|
| Description and HS code | AF | IN | PK | KZ | KG | TA | TK | UZ | Description and HS code | AF | IN | PK | KZ | KG | TA | TK | UZ |
| Cane molasses - 170310 | | 4.3 | 17.6 | | | | | 1.0 | Animals, live, except farm animals-010600 | 2.0 | | | | | 1.2 | | 6.8 |
| Cereal flour except wheat, meslin, rye, maize, rice - 110290 | | 1.8 | 4.3 | | | | | | Anise seeds-090910 | 345.8 | 4.5 | 5.1 | | | 1.6 | | |
| Cereal groats- 110319 | | | 4.0 | 3.9 | 13.4 | | | | Apples, fresh-080810 | 14.9 | | | | 9.0 | | | 1.1 |
| Chewing gum containing sugar - 170410 | | | 17.0 | | | | | 3.5 | Aborigines(egg-plants), fresh or chilled-070930 | | | | | 1.9 | | | 19.5 |
| Cuttle fish, squid, frozen, dried, salted or in brine - 30749 | 2.6 | 5.7 | | | | | | | Beans dried, shelled, nes-071339 | 258.1 | | | | 3.5 | 3.4 | | 17.0 |
| Degas & residues from fatty substances - 152200 | | | | | | | 5.9 | 1.1 | Beans, small red-071332 | 4.8 | | | | 4.4 | 2.8 | | 21.8 |
| Fish meat & mince, except liver, roe & fillets, froze - 30490 | | 2.2 | 1.5 | | | 2.1 | | | Beetroot, radishes -070690 | 1.9 | | | | 4.2 | 10.0 | | 64.1 |
| Fish nes, frozen, whole - 30379 | | 4.4 | 1.8 | | | | | | Caraway seeds-090940 | 199.9 | 3.6 | 10.0 | | 19.4 | 2.3 | | |
| Fish prepared or preserved, except whole or in pieces - 160420 | | 1.5 | 5.5 | | | | | | Carrots and turnips, fresh or chilled-070610 | 2.0 | | | | 51.2 | 10.7 | | 12.5 |
| Flatfish except halibut, plaice or sole, frozen, whole - 30339 | | 1.1 | 90.4 | | | | | | Chickpeas, dried, shelled-071320 | 2.7 | 14.4 | | | | | | |
| Flour or meal of dried legumes- 110610 | 19.1 | 11.8 | 4.3 | | | | | | Citrus fruits, fresh or dried, nes-080590 | | 1.9 | 13.8 | | 1.2 | | | |
| Flour, meal, powder of fruit/nut, citrus or melon pee- 110630 | 2.1 | 5.3 | | | | | | | Coarse animal hair-510220 | 830.5 | | 4.9 | | 5.5 | 51.8 | 93.4 | 16.7 |
| Flours, meals & pellets - 30510 | | 1.4 | 98.4 | | | | | | Coriander seeds-090920 | 4.4 | 19.9 | | | | | | |
| Greasy wool not carded or combed - 510119 | 2.5 | | 1.9 | | 13.1 | 2.2 | 2.2 | | Crabs, not frozen-030624 | | 2.4 | 10.6 | | | | | |
| Homogenized vegetables prep- 200510 | | 2.4 | | | 2.3 | | | | Cumin seeds-090930 | 48.7 | 44.1 | 7.7 | | | | | |
| Jams, fruit jellies, fruit sweet - 200799 | | 2.7 | | | 1.2 | | | 3.3 | Dates, fresh or dried-080410 | 36.9 | | 50.6 | | | | | |
| Mackerel, frozen, whole - 30374 | 3.6 | 1.7 | 1.7 | | | | | | Durum wheat-100110 | | 1.5 | 10.1 | | | | | 2.4 |
| Maize (corn) flour - 110220 | 44.8 | | 2.2 | | | 1.2 | | | Edible brassicas -070490 | | | | | 17.7 | 3.0 | | 31.7 |
| Maize (corn) groats or meal - 110313 | 2.1 | 1.7 | | | | | | | Fennel seeds, juniper berries-090950 | 2.9 | 35.7 | 21.8 | | | | | |
| Maize (corn) starch - 110812 | | 3.4 | 4.6 | | | | | | Fine animal hair, not carded or combed-510210 | 150.3 | | | | 1.5 | | | |
| Maple sugar and maple syrup - 170230 | | 1.5 | 4.8 | | | | | | Flax fiber, raw or retted-530110 | | 2.9 | | 2.7 | | | | |
| Milk not concentrated nor sweetened 1 - 6% fat - 40120 | | | 4.6 | | 15.7 | | | | Garlic, fresh or chilled-070320 | | | | | 3.5 | | | 1.5 |

| | | | | | | | | | | | | | | | | | |
|---|------|------|------|------|-------|------|-----|------|---|------|------|------|------|-------|-----|-----|------|
| Milk powder < 1.5% fat - 40210 | | 1.3 | | | 4.9 | | | | Goats, live-010420 | | 2.6 | 1.8 | | 9.4 | | | |
| Mixtures of edible nuts, dried and preserved fruits - 81350 | 72.2 | | | 2.2 | 3.1 | 78.3 | | 19.5 | Mangoes and mangosteens-080450 | | 6.7 | 14.2 | | | | | |
| Molasses nes - 170390 | | | | 1.8 | 12.6 | | | | Honey, natural-040900 | | 2.3 | 1.8 | | 5.0 | | | |
| Mushrooms and truffles, dried, not further prepared - 71230 | | 1.4 | 3.2 | | 1.8 | | | | Hop cones, not ground-121010 | 28.3 | | 9.2 | | | | | |
| Prunes, dried - 81320 | 8.1 | | | | 2.0 | 55.9 | | 18.3 | Kidney beans and white pea beans-071333 | | | | | 225.6 | 5.4 | | 8.1 |
| Rape/colza seed oil - cake - 230640 | | 6.5 | 3.5 | | | | | | Leeks & other alliaceous vegetables-070390 | | | | | 1.1 | | | 5.7 |
| Raw sugar, beet - 170112 | | | 5.3 | | 1.2 | | | | Legumes except peas & beans-070890 | | | 6.6 | | | | | 1.1 |
| Refined sugar, in solid form, nes - 170199 | | 4.4 | 10.5 | | | | | | Leguminous vegetables dried-071390 | 29.1 | | | | | | | 4.4 |
| Sardines, brisling, sprats, frozen, whole - 30371 | | 1.2 | | | | 18.9 | | | Liquorice roots primly in pharm-121110 | 53.4 | | | | | | | 23.1 |
| Sesame oil & its fractions - 151550 | 5.3 | 3.5 | | | | | | | Millet-100820 | 11.6 | 12.9 | | | | | | |
| Sheep carcasses fresh or chilled - 20421 | 9.0 | 11.3 | 67.8 | | 45.0 | | | | Mixtures of spices-091091 | 1.1 | 7.0 | 51.0 | | | | | |
| Sheep carcasses and half carcasses, frozen - 20441 | | | | 1.1 | 14.2 | | | | oil seeds and oleaginous fruits-120799 | 34.5 | 2.1 | 1.3 | | | | | |
| Sheep or lamb skins, pickled, without wool - 410221 | 9.6 | | | | | 4.7 | | | Peaches, nectarines, fresh-080930 | | | | | 11.7 | | | 27.3 |
| Sheep or lamb skins, raw- 410229 | 35.7 | | | | 183.4 | 36.4 | | | Pears and quinces, fresh-080820 | | | | | 7.6 | | | 2.0 |
| Sheep or lamb skins, raw, wool on- 410210 | 57.1 | | | | 7.9 | 1.0 | 1.5 | | Peas dried, shelled-071310 | 2.3 | | 1.1 | | | | | |
| Shrimps and prawns, frozen - 30613 | | 7.9 | 1.9 | | | | | | Plants & pts of plants-121190 | 86.5 | 4.9 | 3.5 | | 2.8 | 2.8 | 3.8 | 11.4 |
| Sole, frozen, whole - 30333 | | 12.3 | 3.4 | | | | | | Plums, sloes, fresh-080940 | | | | | 21.6 | 7.4 | | 50.9 |
| Tea, black in packages < 3 kg - 90230 | 4.2 | 2.9 | 1.0 | | 3.7 | | | | Potatoes, fresh or chilled except seed-070190 | 28.7 | | 15.6 | | 26.4 | | | |
| Tea, green in packages < 3 kg - 90210 | | 1.4 | | | 3.1 | | | | Raw hide/skins -410390 | 9.5 | | | | 5.7 | 3.5 | 2.1 | |
| Un-denatured ethyl alcohol - 220710 | | 1.1 | 14.8 | | | | | | Roses-060240 | | | | | 1.6 | | | 27.0 |
| Waters - 220210 | | | 1.1 | | 4.4 | | | | Safflower seeds, whether or not broken-120760 | | 25.1 | | 61.5 | | | | |
| Wheat or meslin flour - 110100 | | 1.2 | 36.3 | 34.0 | | 17.9 | | 1.9 | Seeds, fruit and spores for sowing-120999 | 48.7 | 2.2 | | | | 7.1 | | |

2. Minerals and Metal Fabricated Products (ISIC 26+27+28)

There are 13 products in the basic metals and fabricated metal industry (ISIC 27+28) and ten products in the non-metallic mineral industry (ISIC 26) where two or more Central and South Asia countries have a comparative advantage (Figure 13.2 and Table 13.4). The main suppliers to the ferrous and non-ferrous metal industry are the mining of metal ores and recycling industries. Regional value chains in these types of industry consists of mining of ore into concentrates or intermediate raw materials for refining; refining of primary (mined) supplies and secondary (recycles) raw materials; processing of unwrought metal into semi-manufactured products such as plates, sheets, strips, foils, bars, rods and tubes) or processing into pure chemical compounds, for use by the manufacturing industry. The following are potential regional value chains in mineral and metals:

(a) Precious and Semi-Precious Stones

One important non-ferrous metal industry is precious and semi-precious stones, either unworked or partly worked (HS 710310 and HS 710391) produced and exported by Afghanistan, India, Pakistan and Tajikistan. Rubies (HS 710391) are mined in Tajikistan and Pakistan, as well as Afghanistan, where there are also emeralds and sapphires. Afghanistan also has semi-precious lapis lazuli, tourmaline, aquamarine, kunzite, topaz, garnets, fluorite and varieties of quartz. There is considerable fragmentation of the industry along its mining, processing and distribution stages. Processing involves cleaving or sawing; sorting; cutting and polishing; and manufacturing into jewelry products. It is in the downstream activities of manufacturing and retailing that most of the value addition occurs, and retail products often sell at over ten times the cost of the rough stones.¹⁰⁵ As such, the major beneficiaries in the industry are those who are able to carry out the gemstone and jewelry manufacturing, as is the case of India and, to a lesser extent, Pakistan and Uzbekistan. India along with Hong Kong and Thailand dominate the global gemstone cutting, polishing and jewelry manufacturing industry, since the mass production of these products requires sophisticated and automated production equipment.

(b) Other Non-Ferrous and Ferrous Metals

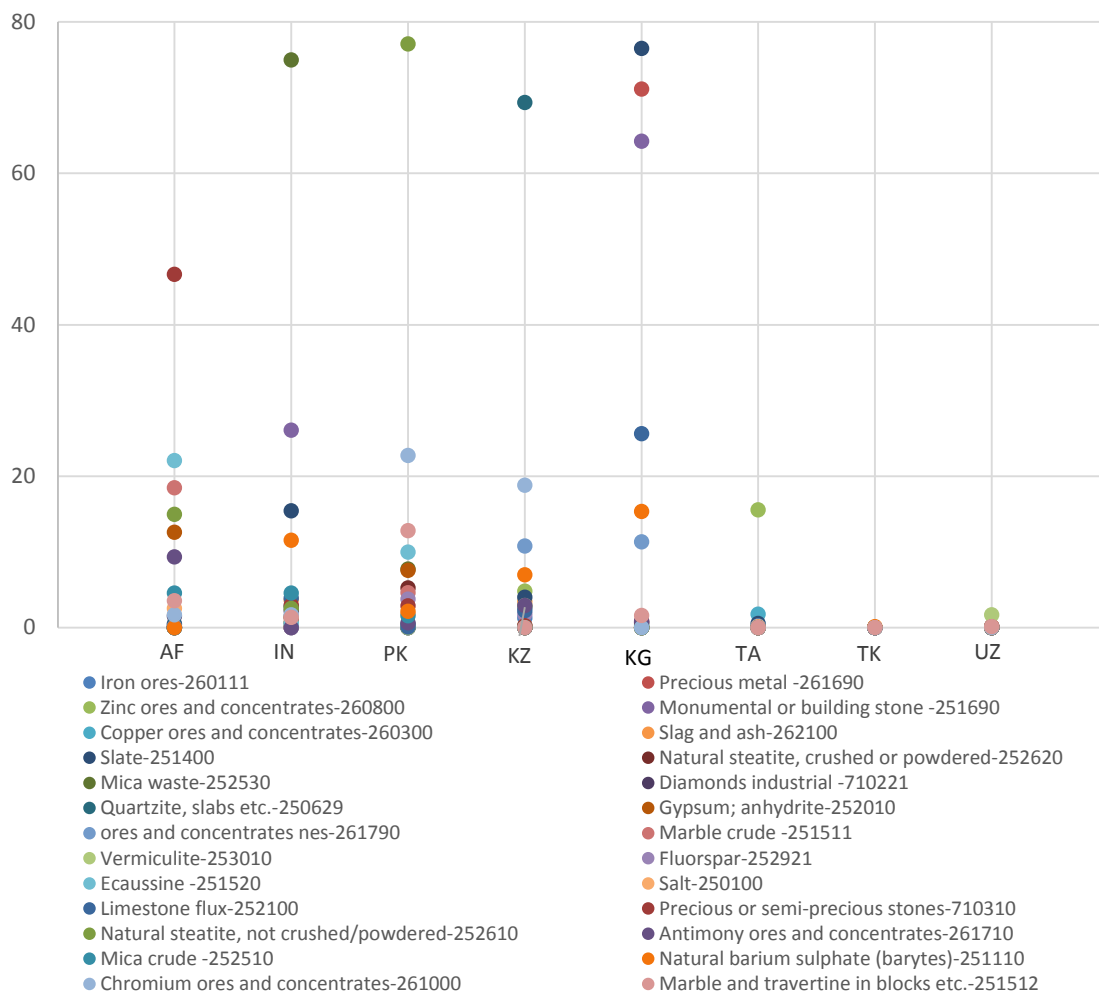
There are several other important non-ferrous and ferrous metal industries in the Central and South Asia regions. In aluminum (HS 760110 and HS 760122), India, Kyrgyzstan and Tajikistan have comparative advantages in its production and export. Unwrought aluminum ranks first among Tajikistan's exports. In lead (HS 780110), India, Pakistan and Kazakhstan have a comparative advantage. Iron or non-alloy steel is produced in various forms (HS 721650, HS 721631 and HS 720720) and Kazakhstan, Kyrgyzstan, Tajikistan and Uzbekistan have comparative advantages in their production and export.

¹⁰⁵ A. Thomas (2008) *Gemstones Handbook*. United Kingdom: New Holland Publishers. Available: http://books.google.co.th/books/about/The_Gemstones_Handbook.html?id=sKBHSwAACAAJ&redir_esc=y.

(c) Slabs of Marble and Other Stones

Afghanistan has a comparative advantage in the production and export of cut or sawn slabs of marble and other types of stones, as do India, Pakistan and Kyrgyzstan. Afghan white marble is a high quality stone but the product has difficulty reaching the international market and there is considerable inefficiency in the domestic supply chain.¹⁰⁶ Most of the marble quarried in that country is exported as rough-hewn blocks to Pakistan, and most of the value in production of marble is created in the final stages of production that take place in Pakistan. There are considerable opportunities for improvements in the processing and cutting stages of production as well as measures to lower transportation costs in order to make exports more competitive.

Figure 13.3: Comparative Advantage of Mineral Extraction Industry (ISIC 12)



¹⁰⁶ Ministry of Commerce and Industries and Ministry of Mines and Petroleum (undated), "Implementing the SME Strategy: An Updated Action Plan for Developing Afghanistan's Marble Sector". October 2013- September 2016. Available: <http://afghanenterprise.com/wp-content/uploads/2014/04/Marble-Sector-Action-Plan-4-14.pdf>.

Table 13.4: Potential Value Chains in Minerals and Metal Fabricated Products

| Industry | HS 6-digit | Description | Indicator | Central and South Asian countries | | | | | | | | Rank Order in Total Regional |
|---|------------|---|-----------|-----------------------------------|-------|-------|-------|-------|-------|-------|-------|------------------------------|
| | | | | AF | IN | PK | KZ | KG | TA | TK | UZ | |
| Non-metallic mineral products (ISIC 26) | 680221 | Cut or sawn slabs of marble, travertine | RCA: | 1.1 | 2.9 | 1.8 | 0.0 | 0.2 | - | - | 0.5 | 651 |
| | | | IIT: | 96.9 | 3.4 | 63.2 | - | - | - | - | - | |
| | | | Rank: | 394 | 617 | 495 | 2,615 | 833 | 1,917 | 2,243 | 442 | |
| | 691090 | Ceramic for bathroom kitchen sanitary | RCA: | - | 1.5 | 1.7 | - | - | - | - | - | 714 |
| | | | IIT: | - | - | - | - | - | - | - | - | |
| | | | Rank: | 1,923 | 630 | 382 | 2,592 | 1,154 | 1,394 | 1,865 | 2,032 | |
| | 700529 | Float glass in sheets, non-wired, clear | RCA: | - | - | 1.1 | - | 26.8 | 0.3 | - | - | 804 |
| | | | IIT: | - | - | - | - | - | - | - | - | |
| | | | Rank: | 5,002 | 2,717 | 360 | 909 | 16 | 222 | 1,280 | 1,383 | |
| | 681190 | Articles of asbestos or fiber cement | RCA: | - | 2.2 | 1.1 | 7.5 | 66.6 | - | - | 6.2 | 961 |
| | | | IIT: | - | - | - | 42.7 | 42.6 | 0.1 | - | 0.1 | |
| | | | Rank: | 4,956 | 1,937 | 1,203 | 190 | 108 | 1,345 | 1,833 | 347 | |
| | 690390 | Refractory ceramic articles | RCA: | - | 1.6 | - | - | 2.9 | - | - | - | 1349 |
| | | | IIT: | - | - | - | - | - | - | - | - | |
| | | | Rank: | 4,980 | 1,093 | 2,129 | 1,946 | 304 | 1,708 | 2,081 | 2,760 | |
| | 680911 | Plaster board | RCA: | - | - | 0.3 | 1.9 | - | - | - | 14.4 | 1412 |
| | | | IIT: | - | - | - | 85.2 | - | - | - | 85.2 | |
| | | | Rank: | 4,944 | 4,019 | 942 | 132 | 1,698 | 2,333 | 2,557 | 81 | |
| | 690710 | Unglazed ceramic mosaic tiles <7cm wide | RCA: | 1.2 | 4.7 | 2.1 | - | 0.2 | - | 0.1 | - | 1686 |
| | | | IIT: | - | - | - | - | - | - | - | - | |
| | | | Rank: | 795 | 1,269 | 885 | 3,172 | 1,497 | 2,238 | 484 | 2,275 | |
| | 690410 | Building bricks | RCA: | - | 0.0 | 0.8 | - | 6.0 | - | - | 22.1 | 1699 |
| | | | IIT: | - | - | - | - | - | - | - | - | |
| | | | Rank: | 4,981 | 4,056 | 926 | 1,242 | 261 | 1,692 | 2,068 | 103 | |
| | 680229 | Cut or sawn slabs of stone | RCA: | 0.4 | 1.9 | 0.6 | - | 2.2 | - | - | 0.1 | 2331 |
| | | | IIT: | 47.4 | - | 47.4 | - | - | - | - | - | |
| | | | Rank: | 1,037 | 1,631 | 1,222 | 2,700 | 577 | 1,807 | 2,160 | 1,148 | |
| | 681490 | Worked mica and articles of mica | RCA: | 29.5 | 4.1 | - | - | - | - | - | - | 2981 |
| | | | IIT: | - | - | - | - | - | - | - | - | |
| | | | Rank: | 293 | 2,104 | 3,335 | 2,864 | 2,216 | 2,615 | 2,794 | 3,165 | |
| Basic metals and fabricated metal products (ISIC 27+28) | 721049 | Flat rolled iron or non-alloy steel, coated | RCA: | 0.1 | 2.2 | 0.1 | 2.9 | 0.1 | - | - | - | 33 |
| | | | IIT: | - | - | - | 0.2 | 0.2 | - | - | - | |
| | | | Rank: | 297 | 37 | 554 | 20 | 276 | 448 | 1,398 | 2,510 | |
| | 720230 | | RCA: | 0.1 | 14.8 | - | 15.1 | - | - | - | - | 50 |

| | | | | | | | | | | | | |
|--------|--|--|-------|-------------|------------|------------|-------------|------------|--------------|-------|------------|------|
| | | Ferro-silicon-manganese | IIT: | - | - | - | - | - | - | - | - | |
| | | | Rank: | 623 | 35 | 5,507 | 25 | 2,420 | 2,749 | 2,898 | 3,224 | |
| 720241 | | Ferro-chromium, >4% carbon | RCA: | - | 7.6 | - | 63.1 | - | - | - | - | 57 |
| | | | IIT: | - | - | - | - | - | - | - | - | |
| | | | Rank: | 5,077 | 36 | 5,508 | 5 | 2,412 | 2,743 | 2,894 | 3,221 | |
| 760110 | | Aluminum unwrought, not alloyed | RCA: | - | 1.6 | - | 3.6 | - | 198.5 | 0.3 | - | 69 |
| | | | IIT: | - | - | - | - | - | - | - | - | |
| | | | Rank: | 968 | 55 | 1,532 | 17 | 2,417 | 1 | 26 | 2,059 | |
| 720719 | | Semi-finished product, iron or non-alloy steel | RCA: | - | 6.0 | - | 1.3 | - | - | - | - | 205 |
| | | | IIT: | - | - | - | - | - | - | - | - | |
| | | | Rank: | 5,093 | 128 | 5,518 | 103 | 2,452 | 2,773 | 2,917 | 3,239 | |
| 780110 | | Lead refined unwrought | RCA: | - | 1.7 | 2.1 | 15.0 | 0.9 | 0.2 | - | - | 339 |
| | | | IIT: | - | - | - | - | - | - | - | - | |
| | | | Rank: | 5,410 | 369 | 227 | 26 | 256 | 250 | 1,294 | 2,461 | |
| 760120 | | Aluminum unwrought, alloyed | RCA: | 0.1 | 0.3 | - | 0.1 | 0.5 | 20.6 | - | - | 418 |
| | | | IIT: | - | 7.4 | - | - | - | - | - | 7.4 | |
| | | | Rank: | 286 | 328 | 2,381 | 137 | 92 | 4 | 1,187 | 326 | |
| 721650 | | Sections of iron or non-alloy steel | RCA: | - | 0.5 | 0.1 | 0.1 | 4.6 | - | - | 2.1 | 506 |
| | | | IIT: | - | - | - | 24.3 | 18.4 | - | - | 3.2 | |
| | | | Rank: | 5,194 | 1,437 | 1,466 | 607 | 153 | 1,655 | 2,035 | 207 | |
| 721631 | | Sections, U, iron or non-alloy steel > 80m | RCA: | - | 0.2 | 0.1 | - | 5.4 | 10.0 | - | 2.1 | 702 |
| | | | IIT: | - | - | - | 18.9 | 29.7 | - | - | 8.1 | |
| | | | Rank: | 5,192 | 2,122 | 1,544 | 1,151 | 121 | 33 | 442 | 196 | |
| 720720 | | Semi-finished product, iron or non-alloy steel | RCA: | - | 0.1 | - | 18.1 | 2.2 | - | - | - | 884 |
| | | | IIT: | - | 67.8 | 67.8 | - | - | - | - | - | |
| | | | Rank: | 5,094 | 2,156 | 2,864 | 21 | 138 | 1,648 | 2,030 | 2,733 | |
| 821220 | | Safety razor blades, including blanks | RCA: | - | 1.3 | 2.3 | - | - | - | - | - | 944 |
| | | | IIT: | - | - | - | - | - | - | - | - | |
| | | | Rank: | 2,305 | 648 | 282 | 1,965 | 2,962 | 3,180 | 3,269 | 1,861 | |
| 720990 | | Cold rolled iron or non-alloy steel, flat, width | RCA: | 6.7 | 1.4 | - | 1.5 | - | - | - | - | 1228 |
| | | | IIT: | - | 14.7 | 14.7 | - | - | - | - | - | |
| | | | Rank: | 207 | 1,362 | 3,415 | 234 | 1,665 | 2,318 | 2,546 | 1,382 | |
| 720299 | | Ferro-alloys, nes | RCA: | 79.2 | 2.4 | - | 0.2 | 0.0 | - | - | - | 1383 |
| | | | IIT: | - | - | - | - | - | - | - | - | |
| | | | Rank: | 30 | 892 | 5,516 | 625 | 2,246 | 2,630 | 2,806 | 3,173 | |

3. Textiles and textile products (ISIC 17+18)

Textile and textile product manufacturing is widespread throughout Central and South Asia, and there is a high rank ordering of many of the 350 traded products in the industry where the regions' countries have a comparative advantage (Figure 13.4). Region-wide value chains would rationalize the different stages of production involving spinning mills, the weaving and knitting and process stages, and the stitching for producing garments and apparel. The major exports from the two regions consist of garments and carpets. In the textile manufacturing stages of fiber production, spinning of yarn, and weaving and knitting of fabrics, only India and Pakistan are significant exporters of fiber, yarn and fabrics.

India and Pakistan have a comparative advantage in the largest number of products in the industry, namely, around 300 of the 350 products. Kyrgyzstan has a comparative advantage in over 91 of the products, while Uzbekistan has a comparative advantage in 83 of the products. Afghanistan, Tajikistan and Turkmenistan each have comparative advantages in 30 to 50 of the products. The ranking order of the products in this industry ranges from as high as 19 in order of importance. The two industries that lend themselves to regional value chains are those involving the production and export of garments and carpets.

(a) Garments

The greatest value addition in the textile chain is generated in the apparel segment. It involves the cutting and stitching process for the garment confection and its dyeing and finishing processes consisting of cleaning, pressing and the final preparations. India and Pakistan are the large garment producers in South Asia. Afghanistan exports some clothing such as men's and boys' shirts of manmade fibers (HS 610520), women's and girls' suits of synthetic fibers (HS 620413), men's and boys' dressing gowns (HS 620799), girls' cotton garments (HS 621142).

Different types of blankets and bed linens are also exported by Afghanistan as well as India and Pakistan in South Asia, and all Central Asia countries. Tajikistan and Uzbekistan, followed by Kyrgyzstan, produce a large variety of linens for table, kitchen and toilet, as well as curtain drapes, bedspreads, sacks and bags, hats and other types of headgear.

In practice, garment manufacturers compete with one another and there is little room for collaboration, even in the training of needed skilled workers for fear that, once trained, they will be hired by rival firms. While cross-country alliances across the Central and South Asia regions might seem difficult, there is room for collaboration in information sharing areas that are currently lacking in Central Asia and Afghanistan, namely, inventory management, lead time, technology and logistics. One such area of collaboration that addresses these issues, for example, is the use of Quick Response process used in European and North American apparel industries. The QR process shortens lead times to improve quality, reduce costs and increasing the organization's competitiveness and market share by serving customers more quickly.¹⁰⁷

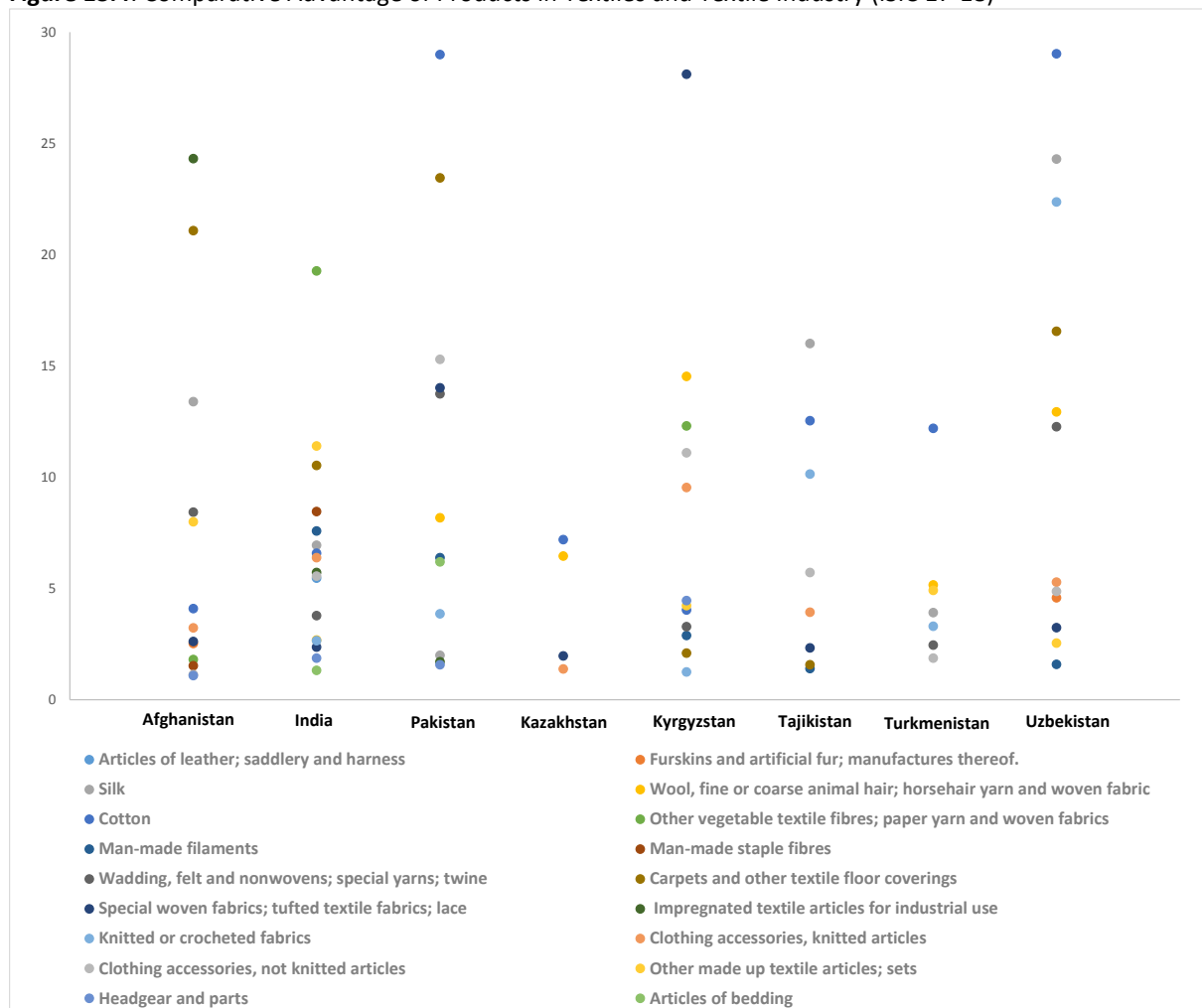
¹⁰⁷ For details, see Wikipedia, "Quick Response Manufacturing". Available: http://en.wikipedia.org/wiki/Quick_response_manufacturing.

(b) Carpets

India and Pakistan are the major exporters of carpets throughout Central and South Asia. But exports from Pakistan also reflect production of unfinished carpets from Afghanistan, where several types of handmade carpets are produced. They include felted wool carpets, flat non-pile fabric woven carpets, and pile and knotted carpets made from wool, silk, and cotton. The industry lacks capacity to undertake the finishing stages of production and, for that reason, cutting and washing are done in Pakistan and from there they are distributed to wholesale buyers in Europe, North America and elsewhere. While investment in finishing facilities within Afghanistan could add substantial value to the industry, an integrated regional value chain could help to improve returns to the large network of weavers working individually or through fragmented carpet associations throughout the country.

Elsewhere in the regions, there are some carpets exported by Kyrgyzstan in the form of wool carpets of woven pile (HS 570231 and HS 570291) and by Uzbekistan in the form of carpets of manmade yarn of woven pile (HS 570232).

Figure 13.4: Comparative Advantage of Products in Textiles and Textile Industry (ISIC 17-18)



Note: Product names refer to HS 2-digit sections.

4. Pharmaceuticals (ISIC 2423)

There is a RVC potential for bulk pharmaceutical ingredients, or active pharmaceutical ingredients (API) in the form of powders. In the global market, India and China are the world's largest producers of bulk pharmaceuticals. In Central Asia, countries having a comparative advantage in the production and export of API are Uzbekistan and Tajikistan. Pakistan's pharmaceutical industry is still in an infant stage of development, and it has a negative list of the industry's products for trade with India.¹⁰⁸

Herbal medications also form part of potential regional value chains.

However, traditional herbal medicines and other traditional natural health products do not have a specific HS code and are not themselves classified under medicaments in the Harmonized System. So it is not possible to identify the potential for this industry in the region. Nevertheless, it appears to have possibilities and further study of the industry is warranted.

The pharmaceutical industry has a large potential in the region. While Good Manufacturing Practices (GMPs) for pharmaceutical manufacturing exist throughout the two regions, there remains the need to establish regulatory mechanisms to ensure that GMPs also apply to herbal medicines. At present there is no intra- or inter-industry trade in these pharmaceutical products, meaning that India, Uzbekistan and Tajikistan export but do not import the products. The development of a regional value chain in this industry could give rise to intra-industry trade if downstream linkages to suppliers and upstream linkages to distribution channels were to emerge among industry supplies in the two regions.¹⁰⁹

D. Ratings

Table 13.6 shows the scores assigned to regional value chains, based on the evaluation methodology described in Chapter 3 and the analysis of the topics in this chapter.

Table 13.5: Pharmaceuticals (ISIC 2423)

| | Glycosides & their salts, ethers, esters & other derivatives (HS 293890) | | Vegetable alkaloids, salts, ethers, esters in bulk (HS 293990) | |
|--------------|--|-------|--|-------|
| | RCA: | Rank: | RCA: | Rank: |
| Afghanistan | - | 1,734 | | 3,760 |
| India | 1.1 | 1,369 | 6.6 | 445 |
| Pakistan | - | 3,580 | - | 2,622 |
| Kazakhstan | 0.2 | 546 | - | 1,616 |
| Kyrgyzstan | - | 2,066 | | 2,844 |
| Tajikistan | 2.5 | 167 | 5.4 | 3,089 |
| Turkmenistan | - | 1,257 | - | 3,188 |
| Uzbekistan | 23.3 | 83 | - | 188 |

Note: - refers to an RCA of less than 0.1.

¹⁰⁸ M. Panj and D. Pande (2014), "India-Pakistan Trade: An Analysis of the Pharmaceutical Sector". Indian Council for Research on International Economic Relations. Working Paper 275. Available: http://icrier.org/pdf/working_paper_275.pdf.

¹⁰⁹ S.M. Thangavelu and S.S. Pattnayak (undated), "Linkages, Spillovers and Foreign Ownership: Evidence from the Indian Pharmaceutical Firms". Department of Economics, National University of Singapore. Available: http://www.fep.up.pt/conferences/earie2005/cd_rom/session%20iv/iv.m/pattnayak.pdf.

Table 13.6. Summary Assessment of Regional Value Chains

| | | Strongly Discourages | Discourages | Neither | Supports | Strongly Supports |
|--|--------------|-------------------------|-------------|---------|----------|----------------------|
| <i>A. Regional value chains will, in general, be a major catalyst for intra- and inter-regional trade expansion.</i> | | | | | | |
| 1 | Kazakhstan | 1 | 2 | 3 | 4 | 5 |
| 2 | Kyrgyzstan | 1 | 2 | 3 | 4 | 5 |
| 3 | Tajikistan | 1 | 2 | 3 | 4 | 5 |
| 4 | Turkmenistan | 1 | 2 | 3 | 4 | 5 |
| 5 | Uzbekistan | 1 | 2 | 3 | 4 | 5 |
| 6 | Afghanistan | 1 | 2 | 3 | 4 | 5 |
| 7 | India | 1 | 2 | 3 | 4 | 5 |
| 8 | Pakistan | 1 | 2 | 3 | 4 | 5 |

PART IV. FINDINGS AND IMPLICATIONS

XIV. SUMMARY

A. Rankings across Countries and Categories

This study has examined the following 11 types of regional trade enhancing mechanisms:

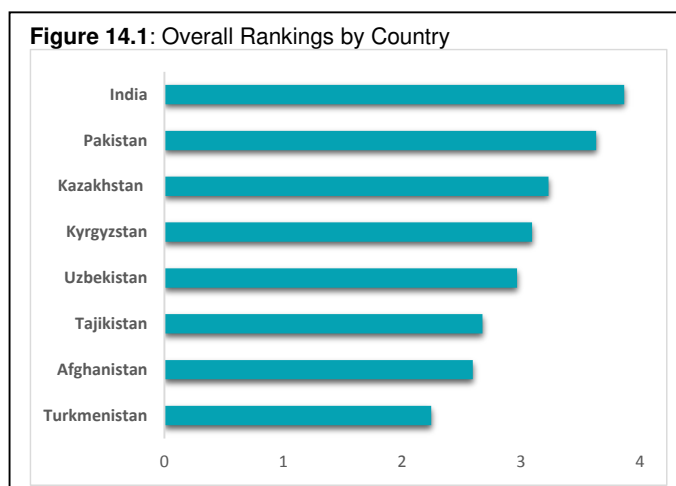
- Export Diversification
- Export Sophistication
- Comparative Advantages
- Trade Complementarities
- Intra-Industry Trade
- Price Competitiveness
- Trade Costs
- Trade Facilitation
- Structural Factors
- Survival Rates
- Economic Growth
- Regional Value Chains

We also tested the significance of distance and cultural, colonial and language ties on the enhancement of intra- and inter-regional trade. Distance was the only one of these factors that was found to have a significant statistical impact on regional trade enhancement. It is not included in the present comparative analysis of trade enhancing mechanisms since it is not a policy-related measure.

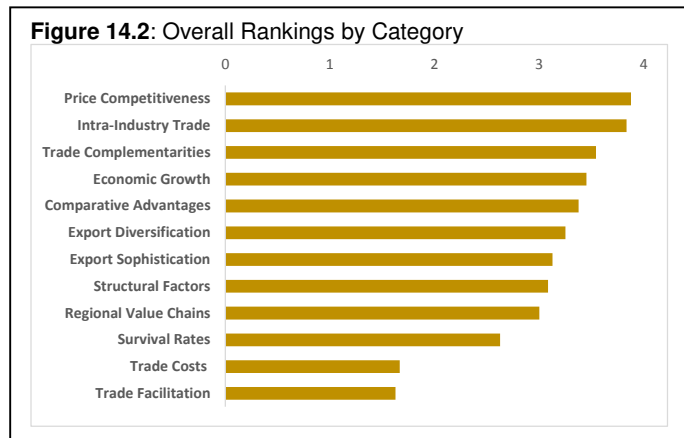
In assessing the importance of each of the policy-related mechanisms to the Central and South Asia countries' intra- and inter-regional trade, we used a common rating scale based on a structured statistical analysis. There are three features of the ratings that we need to examine:

- (a) The comparative ratings for each trade enhancing mechanisms based on a 'neutral' rating scale in which no preference is given to different mechanisms.
- (b) The same comparative ratings from the point of view of different stakeholder groups having different preference ordering.
- (c) The degree of independence between different trade enhancing mechanisms.

The ratings in the common evaluation scoring allow us to compare the degree to which the regional analysis of trade enhancing mechanisms support intra- and inter-regional trade in Central and South Asia. The preference ordering of different stakeholder groups developed in Chapter 3 suggests different rankings for channels through which trade-related policy and program instruments would best achieve the objectives of different groups of stakeholders. We begin with a neutral preference ordering in which all channels supporting trade in and between the two regions are given equal weights and note the following stylized facts:

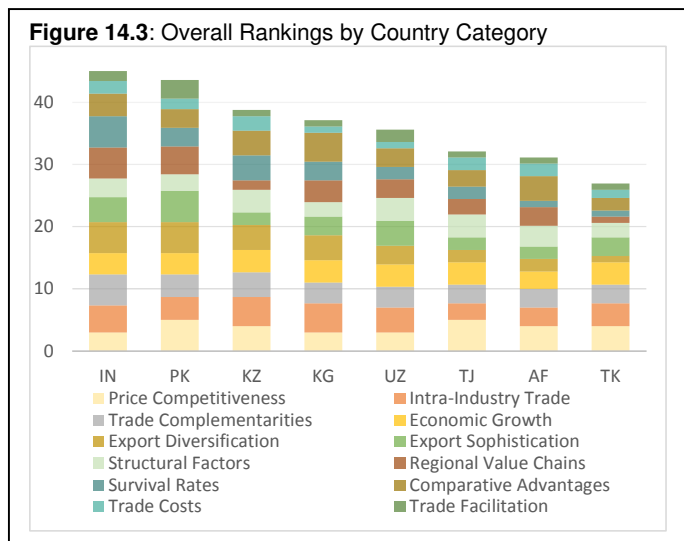


- Based on overall ratings across countries (Figure 14.1), the larger economies have a higher rating than the smaller, less developed ones, suggesting that size and level of development matter in the development of regional trade. India, Kazakhstan and Pakistan have above-average overall ratings, while Afghanistan and Turkmenistan have below-average ratings.



- Based on the breakdown of rankings according to channels for enhancing trade (Figure 14.2), the five most effective ones are (a) measures that promote price competitiveness; (b) intra-industry trade; (c) trade complementarities; (d) economic growth; and (e) comparative advantages. The main factors that have been a drag to regional trade are (i) poor trade facilitation measures; (ii) high trade costs and poor trade facilitation measures; (iii) low survival rates among new exporters; (iv) the high proportion of exports that are concentrated in low value-added labor and resource-intensive products; (v) lack of export diversification.

- Based on the breakdown of ratings by category in each country (Figure 14.3), India has mainly benefited from export diversification, high survival rates of exporters, value chains (actual and potential), and trade complementarities. Pakistan has especially benefited from its export sophistication, price competitiveness, and export diversification. Kazakhstan has benefited the most from its intra-industry trade, price competitiveness, comparative advantages, export diversification, and survival rates of exporters. Kyrgyzstan has especially benefitted from its comparative advantages, intra-industry trade and export diversification. Uzbekistan has benefited the most from intra-industry trade and export sophistication; Afghanistan could benefit the most from its potential trade based on its comparative advantages; and Tajikistan and Turkmenistan have both benefited the most from price competitiveness.



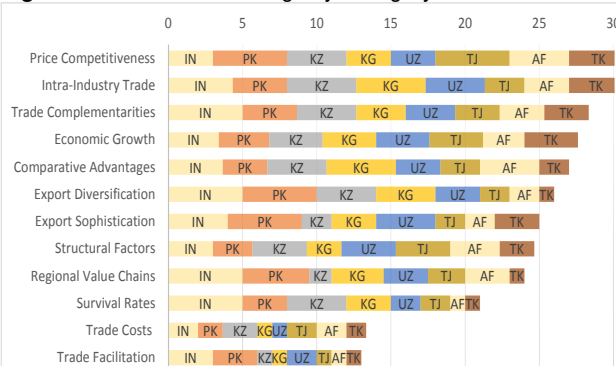
- Based on the breakdown of country ratings in each category (Figure 14.4), the dominance of price competitiveness and intra-industry trade is largely due to the strong ratings in

Pakistan and Tajikistan, and in Kazakhstan and Kyrgyzstan respectively.

Trade complementarities is the third most important mechanisms, due to the high ratings of India and Kazakhstan in that category. The forth most important mechanisms, economic growth, has especially high ratings in most countries with the exception of Afghanistan, which has

experienced a fairly low export responsiveness to own income changes as well as those of its trading partners. Comparative advantages rate high mainly because of the potential intra- and inter-regional trade that could occur in countries like Afghanistan, Kyrgyzstan, and Kazakhstan. Export diversification and export sophistication have especially high ratings in India and Pakistan, while structural factors are especially important to exports of Kyrgyzstan, Uzbekistan and Tajikistan. Regional value chains (actual and potential) have a high rating in India, Pakistan and Kyrgyzstan. Survival rates are among the highest in India and Kazakhstan, and they are especially low in Afghanistan and Tajikistan. Trade costs are a drag on all countries in Central and South Asia and trade facilitation is ranked poorly in nearly all countries, with the exception of India and Pakistan.

Figure 14.4: Overall Rankings by Category of Countries



B. Rankings across Different Interest Groups

There are a wide range of preference ordering by difference stakeholder groups with interests in intra- and inter-regional trade in Central and South Asia. In this section we illustrate two of them and compare the results to the benchmark results for a neutral preference ordering described in Chapter 3 and in the previous section of this chapter. Table 12.1 provides three characterizations of preference orderings:

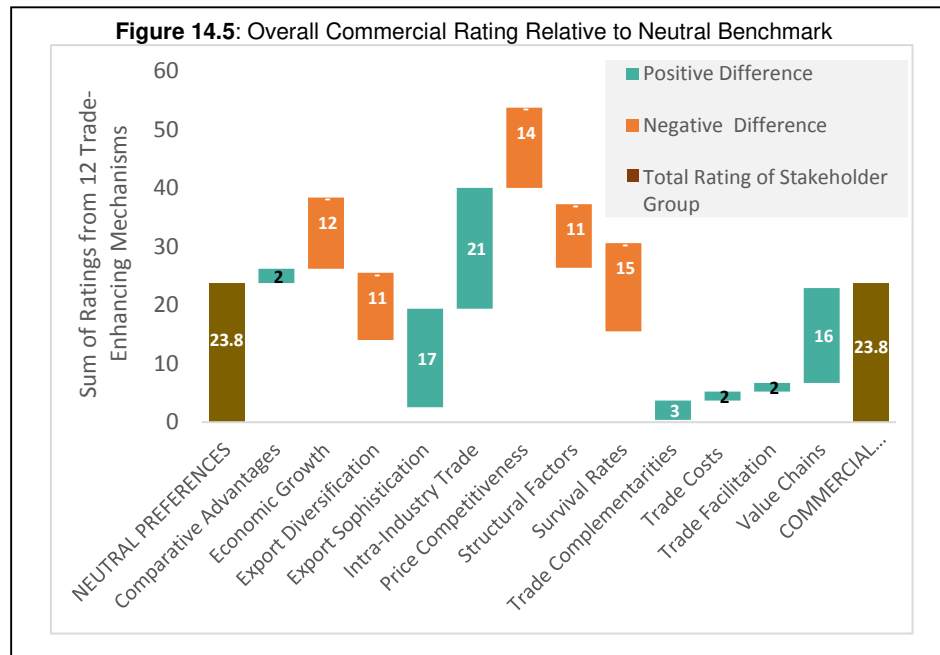
- Neutral preferences with a general interest in regional trade expansion;
- Commercial interest preferences with interests in large-scale projects extending over several countries in order to gain economies of scale and cost advantages either through conventional trade based on comparative advantages of countries, or fragmentation of production across intra- or inter-regional value chains; and
- Socio-economic developmental preference interests on the part of such stakeholders as governments, development partners, regional development authorities, NGOs, SMEs, marginalized groups and the poor.

Table 14.1: Illustration of Different Stakeholder Interests in Regional Trade Enhancing Mechanisms

| | General Regional Trade Expansion Interests | | Large-Scale Commercial Interests | | Socio-Economic Development Interests | |
|---|---|----------------------------|----------------------------------|----------------------------|---|----------------------------|
| | Relative Importance | Cobb-Douglas parameters | Relative Importance | Cobb-Douglas parameters | Relative Importance | Cobb-Douglas parameters |
| <i>Export Diversification</i> | ++ | 0.08 | ++ | 0.05 | +++ | 0.11 |
| <i>Survival Rates</i> | ++ | 0.08 | + | 0.03 | ++++ | 0.06 |
| <i>Export Sophistication</i> | ++ | 0.08 | ++++ | 0.16 | ++ | 0.06 |
| <i>Comparative Advantages</i> | ++ | 0.08 | +++ | 0.11 | +++ | 0.11 |
| <i>Trade Complementarities</i> | ++ | 0.08 | +++ | 0.11 | ++ | 0.06 |
| <i>Intra-Industry Trade</i> | ++ | 0.08 | ++++ | 0.16 | + | 0.03 |
| <i>Price Competitiveness</i> | ++ | 0.08 | ++ | 0.05 | ++ | 0.06 |
| <i>Trade Costs</i> | ++ | 0.08 | +++ | 0.11 | +++ | 0.11 |
| <i>Trade Facilitation</i> | ++ | 0.08 | +++ | 0.11 | +++ | 0.11 |
| <i>Structural Factors</i> | ++ | 0.08 | ++ | 0.05 | +++ | 0.11 |
| <i>Value chains</i> | ++ | 0.08 | ++++ | 0.03 | ++ | 0.06 |
| <i>Economic Growth</i> | ++ | 0.08 | ++ | 0.05 | +++ | 0.11 |
| <i>Sum of Cobb-Douglas parameters</i> | | 1.00 | | 1.00 | | 1.00 |

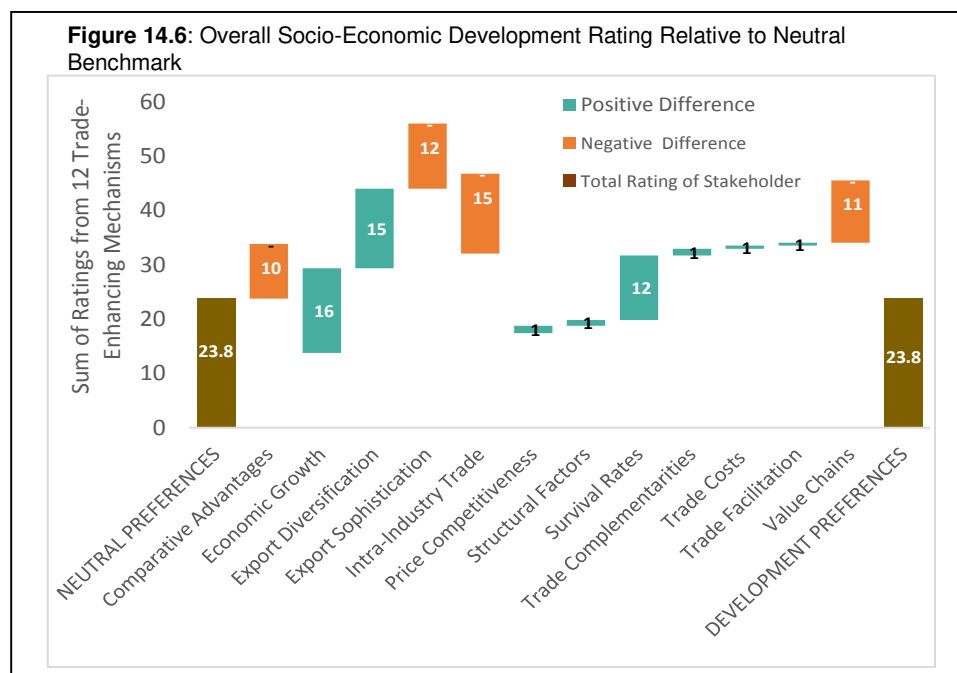
Note: The Cobb-Douglas utility function of the stakeholder groups is given by $U(X_1, \dots, X_n) = X_1^\alpha X_2^\beta \dots X_n^\omega$, where $\alpha + \beta + \dots + \omega = 1$, that is, the sum of all the parameters equals unity.

All three stakeholder groups are assumed to share a similar representation of their preference ordering in the form of a Cobb-Douglas utility function. However, each group has distinct preferences for the 12 trade-enhancing mechanisms, which are reflected in the parameters for each of those mechanisms shown in Table 14.1.



Based on the difference preference orderings, we note the following results:

- (1) *Commercial interests* – The effectiveness ranking of trade-enhancing mechanisms to serve the needs of the group favoring large-scale projects shows a distinct preference for (a) the degree of export sophistication; (b) value chains; and (c) intra-industry trade (Figure 14.5). These three commercial development mechanisms are given higher importance than in the case of the group having a neutral preference, at the expense of (i) exporter survival rates; (b) price competitiveness; (c) economic growth; (d) export diversification; and (e) structural factors. Positive difference in preference over the neutral preference group are compensated for by the negative differences in these five channels of regional trade development. Positive differences compensate the negative differences so that the net benefits, or utility, to commercial interest groups are equal to the net benefits derived by the neutral preferences group.
- (2) *Socio-Economic Development interests* – In the case of the group of stakeholders that are development oriented, such as NGOs and other types of development partners, the rankings of trade-enhancing mechanisms to serve the needs of this group shows a distinct preference for (a) economic growth; (b) export diversification; and (c) exporter survival rates (Figure 14.6). These three trade-related development-oriented mechanisms are given higher importance than in the case of the group having a neutral preference, at the expense of (i) intra-industry trade; (b) export sophistication; (c) value chains; and (d) comparative advantages. Positive difference in preference of this group of development-oriented stakeholders relative to those of the neutral preference group are compensated for by the negative differences in these four channels of regional trade development. The reason is that positive differences compensate the negative differences so that the net



benefits, or utility, to socio-economic development-oriented stakeholders are equal to the net benefits derived by the group having a neutral preference ordering.

C. Test for Independence of Categories

It is important to examine whether the regional trade enhancing mechanisms for the Central and South Asia regions have characteristics are independent of one another. The analysis permits policymakers to determine whether programs need to target specific measures or whether the inter-relationship between measures have positive or negative spillover effects on regional trade enhancements.

The standard procedure is to use the chi-square test of independence to calculate whether the trade-enhancing mechanism of each country in the region is independent of others. In the case of the 11 mechanisms covered in the present study, the chi-square needs to be calculated on 2^{11} combinations, or 2,048, of hypotheses. This is an omnibus test and is beyond the scope of the present study.

We instead use a correlation matrix to examine the degree to which any combination of regional trade enhancing measures are statistical dependence. The results of the analysis show that, in the case of the Central and South Asia countries, there is a high correlation among export diversification, survival rates, export sophistication, and comparative advantages. There is also a correlation, although somewhat more modest, among trade complementarities, intra-industry trade, and trade facilitation. The direction of causality is not implied by these interrelationships. They nonetheless suggests that programs that address one regional trade enhancing mechanism will have spillover effects on other mechanisms that bolster regional trade. For example, export diversification can increase survival rates by encouraging more types of businesses to enter a country's tradable sector and by creating cross-firm externalities that help to sustain new entrants into the export market.

Table 14.2: Correlation Matrix of Trade-Enhancing Mechanisms

| Regional Trade Enhancing Mechanism | Export Diversification | Survival Rates | Export Sophistication | Comparative Advantages | Trade Complementarities | Intra-Industry Trade | Price Competitiveness | Trade Costs | Trade Facilitation | Structural Factors | Economic Growth | Regional Value Chains |
|------------------------------------|------------------------|----------------|-----------------------|------------------------|-------------------------|----------------------|-----------------------|-------------|--------------------|--------------------|-----------------|-----------------------|
| Export Diversification | 1.00 | | | | | | | | | | | |
| Survival Rates | 0.87 | 1.00 | | | | | | | | | | |
| Export Sophistication | 0.58 | 0.30 | 1.00 | | | | | | | | | |
| Comparative Advantages | 0.51 | 0.45 | (0.20) | 1.00 | | | | | | | | |
| Trade Complementarities | 0.78 | 0.93 | 0.39 | 0.30 | 1.00 | | | | | | | |
| Intra-Industry Trade | 0.61 | 0.67 | 0.26 | 0.51 | 0.58 | 1.00 | | | | | | |
| Price Competitiveness | (0.20) | (0.29) | (0.13) | (0.45) | (0.36) | (0.66) | 1.00 | | | | | |
| Trade Costs | 0.13 | 0.34 | (0.42) | 0.11 | 0.37 | (0.21) | 0.45 | 1.00 | | | | |
| Trade Facilitation | 0.71 | 0.54 | 0.88 | (0.10) | 0.67 | 0.18 | (0.07) | 0.00 | 1.00 | | | |
| Structural Factors | (0.08) | 0.04 | (0.38) | 0.02 | 0.03 | (0.26) | 0.12 | 0.49 | (0.11) | 1.00 | | |
| Economic Growth | 0.10 | 0.27 | 0.16 | (0.29) | 0.09 | 0.42 | (0.09) | (0.34) | (0.03) | (0.09) | 1.00 | |
| Regional Value Chains | 0.74 | 0.52 | 0.65 | 0.34 | 0.56 | 0.12 | (0.19) | (0.03) | 0.80 | (0.15) | (0.26) | 1.00 |

XV. RECOMMENDATIONS

A. Policy Implications

The empirical results presented in this study indicate that, under existing trade patterns, the potential value of intra- and inter-regional trade in Central and South Asia is nearly twice as large as the actual level. The considerable expansion in trade assumes that countries are able to export to regional trading partners according to their existing comparative advantages and in the absence of price, non-price and structural impediments.¹¹⁰ The findings are not surprising. Opportunities for regional trade abound and there are numerous policy initiatives that could be taken to help spur trade and investment in and between the two regions. This section highlights key aspects that need to be taken into consideration when formulating those regional trade enhancing measures.

Matching policies with stakeholders: Regional trade policy, program and institution-building mechanisms should reflect the preferences of the particular stakeholder group or groups being targeted. For example, in the case of commercial interests, regional trade measures may include the expansion of value chains and intra-industry trade in sophisticated product exports with high value added content. In the case of governments and their development partners, the focus is likely to instead be on pro-poor trade and employment generating measures, especially those that improve survival rates among exporters and promote the diversification of exports in favor of industries having comparative advantages in skilled and unskilled labor-intensive products.

Interdependence of regional policies: Regional trade enhancing mechanisms are often highly interrelated in the sense that one aspect of regional trade cannot be advanced without also developing other trade-enhancing areas. For example, the expansion of regional value chains cannot be effectively undertaken in isolation because their growth and proliferation are closely associated with export diversification, trade facilitation, export sophistication, trade complementarities, and survival rates among exporters.

Policy interdependence does not imply causality: Caution should be exercised when linking regional policies and programs since causality is not implied in the association between and among trade enhancing mechanism. For example, the introduction of export diversification measures does not, in itself, necessarily lead to regional value chains, greater export sophistication, or improved survival rates. Instead interdependence among the various trade enhancing measures means that appropriate attention needs to be given to all measures that are important to the interests of different stakeholder groups.

Export diversification policies are for all: All countries in Central and South Asia have considerable scope for deepening their regional trade in terms of number of products traded. Diversification matter for growth and stability in the two regions. Reliance on a few export products tends to hamper productivity and increases a country's vulnerability to sharp declines in terms of trade. By diversifying export bundles along product and destination lines, countries with export-

¹¹⁰ The estimate excludes India because the size of its trade unduly biases the results.

oriented growth strategies hedge against product- or market-specific external shocks.¹¹¹ Diversification exists in more developed economies and provide greater opportunities for more value added export products, which is currently lacking in the Central Asian countries whose exports are largely concentrated in natural resource abundant products.

Policies that promote diversification are likely to boost export performances. Our findings show that the performance of the more diversified Central and South Asian countries have been better than those whose exports are concentrated in a few products. It follows that policies that promote greater export diversification are likely to increase export markets shares, while continued concentration in exports of a few number of products will tend to inhibit new exports.

Regional export enhancing strategies need to address low export survival rates. Knowledge about the determinants of export survival and their consequences is important for understanding export dynamics in Central and South Asia, and it can also be a useful tool for policymakers to properly target export promotion activities. At the same time, policies that focus exclusively on supporting new exports miss out on a fundamental aspect of export dynamics, namely, the survival of exporters once they enter the tradables sector. Incumbents have a natural advantage based on their prior experience in learning-by-doing, and that knowledge can be an important input to be shared with newcomers.

Trade costs remain high for all Central and South Asia economies, both at the border and behind-the-borders. Non-tariff trade restrictions account for as much as 90 percent of trade costs and are mainly concentrated in indirect costs involving national and international standards. In Central and South Asia, inter-regional trade costs are higher than intra-regional trade costs. The multiplicity of licenses, permits and certificates affect not only the international competitiveness of businesses in both regions, but also the ability of small enterprises to understand the complexity of those measures. Also, lists of sensitive and prohibited goods protecting domestic producers are often in conflict with potential intra-industry trade opportunities that could otherwise take place between trading partners in the regions. In some cases, total bilateral trade costs exceed 300 percent ad valorem equivalent, and agricultural products generally have much higher levels of protection than do non-agricultural products. Not surprisingly, Central Asian countries as well as Afghanistan rank in the bottom 3 percent of countries throughout the world in terms of ease of trading across borders. Failure to deal with these trade costs will prevented the development of intra- and inter-regional trade unless comprehensive reforms are implemented.

Regional trade agreements have proliferated in and between the regions, but implementation remains key to their success. Numerous bilateral trade agreements exists between countries in the two regions, and regional trade arrangements exist in the form of free trade agreements, transport and trade facilitation agreements, and transit trade agreements. Without full implementation of these various arrangements, however, their impact on trade is limited. So far,

¹¹¹ These findings are supported by G.J. Varela (2013), "Export Diversification in Twelve European and Central Asian Countries and the Role of the Commodity Boom". Washington, DC. World Bank, Poverty Reduction and Economic Management Network. International Trade Department. Policy Research Working Paper 6472. Available: http://www.researchgate.net/publication/251352737_Export_Diversification_in_Twelve_European_and_Central_Asian_Countries_and_the_Role_of_the_Commodity_Boom.

they appear to have had little impact and, for that reason, the regional gravity model developed in this study has been unable to measure their significance on actual trade flows in the regions.

Regional trade facilitation efforts should embrace measures recently put forward under the WTO's Agreement on Trade Facilitation. The improvement of existing low ratings on trade facilitation measures throughout the two regions could greatly benefit from implementation of the new ATF provisions. Attention should focus on those measures having the greatest overall impact on regional trade volumes, namely, information availability and the simplification of documents, automated processes, streamlining border procedures, and good governance.¹¹² While trade facilitation measures under the ATF are more important for manufactured goods than for agricultural goods because they involve both imports of inputs and exports processed goods, agriculture is more important for poverty reduction and inclusive growth.

Trade facilitation improvements are especially important for regional production networks. Regional value chains require (a) import facilitation of parts and components and their movement to production facilities; and (b) export facilitation of processed goods. While some of the measures involve stroke-of-pen reforms that would eliminate trade impediments within a short time period, many NTMs require deeper reforms. For example, dissemination of information that helps businesses to initiate and sustain trade-related activities needs a great deal of investment in the full range of areas that meets specific requirements of different businesses. Broad information dissemination that lacks practicality is of little use to the private sector.

Exchange controls have undermined price competitiveness, especially in South Asia. From a policy perspective, the difficulties of estimating robust parameters for real bilateral exchange rates in the models for Afghanistan, India and Pakistan suggest that attention should be directed at structural and administrative controls that are likely to be undermining the effectiveness of this policy instrument. Most Central Asia economies have developed exchange rate policy instruments that have successfully impacted the trade-related price competitiveness of their economies. Nevertheless, in Kyrgyzstan and Uzbekistan the strength of those policy instruments could stand improvements since the trade impact of real bilateral exchange rate changes is fairly modest. These types of reform are important for countries like Uzbekistan since there has been a tightening of their exchange controls recently that could make exchange rate pass-through effects on trade transactions more difficult to realize.

Exchange-rate pass-through to the domestic economy could strengthen regional export competitiveness. The adoption of inflation targeting, floating exchange rates, and the elimination of capital controls could help to facilitate the exchange rate pass-through, that is, the transmission of exchange rate movements to the domestic price level. There are, however, costs to making these transmissions stronger, mainly associated with possible increases in output and inflation volatility. While movements from fixed to more flexible exchange rate regimes help the transmission of market signals, it does not necessarily follow that a floating exchange rate regime

¹¹² Organisation for Economic Co-operation and Development (OECD, 2013), "Trade Facilitation Indicators: The Potential Impact of Trade Facilitation on Developing Countries' Trade". Paris, OECD Trade Policy Papers No. 144. Available: http://www.oecd.org/dac/aft/TradeFacilitationIndicators_ImpactDevelopingCountries.pdf.

offers the best solution for the Central and South Asia economies.¹¹³ Further investigation of these issues is warranted before general exchange rate policy recommendations are made for particular countries.

B. Regional Value Chain Opportunities

There are several industries where regional value chains could be developed in and between Central and South Asia: (a) fresh and chilled fruits and vegetables; (b) processed foods; (c) agricultural raw materials; (d) herbs and spices; (e) precious and semi-precious stones; (f) other non-ferrous and ferrous metals; (g) slabs of marble and other stones; (h) garments; (i) carpets; and (j) pharmaceuticals and herbal medications.

The selection of these industries is based on (i) the number of countries having a comparative advantage in the industries; (ii) the potential participation of Afghanistan because of either its comparative advantages in products exported by the industries or its geographic location for transit trade; and (iii) the benefits of diversifying industries across resource-intensive industries, labor-intensive industries, and technology-intensive industries. In the case of labor-intensive industries like those of food and textiles, there are benefits to be derived from their labor absorption requirements for the large populations in India and Pakistan as well as Afghanistan, Kazakhstan and Uzbekistan. Natural resource intensive industries in minerals and fabricated metal products generally support government revenue-generating objectives since the Central Asia countries in particular are heavily dependent on these types of exports for much of their foreign exchange earnings. And technology-intensive industries like those of pharmaceuticals generally contribute more value added to producers than do low-technology industries, and they create opportunities for market development from product differentiation based on quality (vertical differentiation) and consumers' desire for variety (horizontal differentiation).

The *food industry group* is widespread throughout the Central and South Asia regions, which makes it an easily identifiable candidate for a regional value chain. Regional value chains would combine farm-level production and the supply of intermediate inputs, manufacturing and distribution stages along the value chains. Some of the potential candidates for sub-industry value chains are fresh and chilled fruits and vegetables; processed foods; agricultural raw materials; and herbs and spices. In many of these areas, it will be necessary to adopt food safety standards that are in line with the WTO's sanitary and phytosanitary (SPS) requirements in order for the products to be globally competitiveness.

The *minerals and fabricated metals industry group* has a number of products that rank among the top 100 most important products traded in and between the two regions. They cover precious and semi-precious stones; other non-ferrous and ferrous metals; and slabs of marble and other stones. These products can form part of value chains that manufacture metal structures for construction and a wide range of other end uses that are important to all of the

¹¹³ See, for example, N. Yoshino, S. Kaji, and T. Asonuma (2014), "Dynamic Analysis of Exchange Rate Regimes: Policy Implications for Emerging Countries in Asia". ADBI Working Paper 502. Tokyo: Asian Development Bank Institute. Available: <http://www.adbi.org/working-paper/2014/10/24/6488.dynamic.analysis.exchange.rate.regimes/>.

regions' countries. Competitiveness of the industries depends largely on the modernization of manufacturing facilities, which often require large capital investments. Scale economies at the regional level could provide the capital necessary for those investments, as well as cost-savings through production sharing facilities.

The *textiles and textile products industry group* is also widespread throughout Central and South Asia. There are 350 products that are traded throughout the two regions and many of those products rank among the top exports of several countries. While India and Pakistan have a comparative advantages in the most products in this industry, Afghanistan, Kyrgyzstan, Tajikistan, Turkmenistan and Uzbekistan also have comparative advantages in a large number of the industry's products. There exists a potential for regional value chains in carpets and garments since most of the fiber, yarn and fabrics made are used as inputs to the production of garments in all countries except India and Pakistan, which are also major exporters of these products. While competition and rivalry among firms is likely to prevent alliances in some areas, there is potential for collaboration in information sharing areas that are currently lacking in Central and South Asia, namely, inventory management, lead time, technology and logistics associated with the use of the Quick Response process used in more advanced economies.

In the case of *pharmaceuticals*, many countries in the two regions have a comparative advantage in the production and export of bulk ingredients for the industry, especially active pharmaceutical ingredients (API) in the form of powders. India is one of the largest producers of bulk pharmaceuticals and other countries like Tajikistan and Uzbekistan could form part of API regional value chains. In addition to low-cost manufacturing needs, quality assurance is one of the most important requirements for this high-level supply chain. Good manufacturing practices for pharmaceutical manufacturing are essential for the implementation of RVCs, while the industry could benefit from the introduction of international regulatory mechanisms in the herbal medications industry.

The common policy prescriptions for these regional value chains are as follows: First, policymakers could step up their efforts to promote high value added activities in which the Central and South Asian countries can be competitive in international markets. Second, consideration should be given to clustering of activities surrounding value chains to help industries move up the value chain by developing more technological sophistication. Third, greater efforts are needed to reduce the high trading costs that exist throughout the two regions in order to eliminate trade distortions within supply chains and strengthen the regional competitiveness of industries. Finally, governments and development partners need to focus attention on measures that facilitate trade in order to diversify product exports, increase survival rates among exporters, improve trade logistics, lower transportation costs, and reduce non-tariff barriers to trade at and behind the border.

ANNEX A: ECONOMETRIC MODELING OF TRADE

Estimates of the relationships for domestic consumption, foreign import demand and Central and South Asia's export demand follow a sequence of steps to (a) identify the characteristics of each series, (b) specify the parsimonious model used to characterize the data-generating process, and (c) estimate the model. This Technical Annex describes the steps needed to identify the characteristics of each series and, where appropriate, to model their relationship to one another.

Step 1: Unit Root Tests

An economic relationship generally refers to a state where there is no inherent tendency to change. Such a relationship is, for example, described by the export demand relationship of the log linear form $x_i = \beta y_j$, where export changes in country i are related to changes in the economic activity of a foreign market j . In practice, however, an equilibrium relationship is seldom observed, so that measures of the observed relationship between x_i and y_j include both the equilibrium state and the discrepancy between the outcome and the postulated equilibrium. The discrepancy, denoted d , cannot have a tendency to grow systematically over time, nor is there any systematic tendency for the discrepancy to diminish in a real economic system since short-term disturbances are a continuous occurrence. The discrepancy is therefore said to be stationary insofar as over a finite period of time it has a mean of zero.

Individual time series that are themselves stationary are statistically related to each other, regardless of whether there exists a true equilibrium relationship. Thus, before estimating the export demand for Central and South Asia, it is useful to determine whether the data generating process of each of the series is itself stationary. Since economic activity variables have a tendency to grow (positively or negatively) over time, the variables themselves cannot be stationary, but changes in those series might be stationary. Series that are integrated of the same order, however, are said to be cointegrated and to have a long-run equilibrium relationship.¹¹⁴ For trending variables that are themselves non-stationary, but can be made stationary by being differenced exactly k times, then the linear combination of any two of those series will itself be stationary. It is therefore important to test the order of integration of the key series in the model.

Tests for stationarity are derived from the regression of the changes in a variable against the lagged level of that variable. Consider the following simple levels regression:

$$y_t = a + by_{t-1} + d \quad (\text{A.1})$$

where a and b are constants and d is an error term. The term y is a stationary series if $-1 < b < 1$. If $b = 1$, y is a non-stationary series and is instead a random walk with drift; if the absolute value of b is greater than one, the series is explosive.

¹¹⁴A series is said to be integrated of order k , denoted $I(k)$, if the series needs to be difference k times to form a stationary series. Thus, for example, a trending series that is $I(1)$ needs to be differenced one time to achieve stationarity.

By subtracting y_{t-1} from both sides, we obtain

$$\Delta y_t = a + (b-1)y_{t-1} + d \quad (\text{A.2})$$

The disturbance term d now has a constant distribution and the t-statistic on y_{t-1} provides a means for testing non-stationarity. If the coefficient on y_{t-1} is zero, then b must be equal to 1, and y is therefore stationary. The Augmented Dickey-Fuller test is a test on the t-statistic of the coefficient on y_{t-1} . The hypothesis $H_0 = b-1 = 0$ is called the unit-root hypothesis and it implies that y_t is non-stationary.

The second test for non-stationarity is the Durbin-Watson (DW) test on the levels regression specified above. Since the DW statistically is given by

$$\text{DW} = 2(1-r) \quad (\text{A.3})$$

where r is the correlation coefficient between y_t and y_{t-1} , then y is white noise when r is zero. The DW is therefore 2 when y is stationary.

Step 2: Modeling Supply and Demand Relationships in Trade

Economic series that are related to the long-run adjustment processes of other variables have been designated to be cointegrated series by Granger and Weiss (1983) and Engle and Granger (1987). The theory of cointegration states that if two series, x and y , grow over time in such a way that the linear combination of these two variables, given by $d_t = x_t - \alpha y_t$, is stationary, and if α is unique, then x and y are said to be cointegrated. The series d_t measures the disequilibrium at period t when the long-run relationship between the two variables is $x_t = \alpha y_t$. The theory of cointegration states that movements in variables are related in a predictable way to the discrepancy between observed and equilibrium states. The sequence of this discrepancy tends to decay to its mean of zero.

Engle and Granger (1987) have demonstrated that a data-generating process of the form known as the “error-correction mechanism” (ECM) adjusts for any disequilibrium between variables that are cointegrated. The ECM specification thus provides the means by which the short-run observed behavior of variables is associated with their long-run equilibrium growth paths. Davidson *et al.* (1978) established a closely-related specification known as the “equilibrium-correcting mechanism” (also having the acronym ECM) that models both the short and long-run relationships between variables. Rearranging the terms of a first-order stochastic difference equation yields the following ECM:

$$\Delta x_t = \alpha_0 + \alpha_1(x - y)_{t-1} + \alpha_2 \Delta y_t + \alpha_3 y_{t-1} + v_t \quad (\text{A.4})$$

where $-1 < \alpha_1 < 0$, $\alpha_2 > 0$ and $\alpha_3 > -1$, and where all variables are measured in logarithmic terms.

The second term, $\alpha_1(x - y)_{t-1}$, is the mechanism for adjusting any disequilibrium in the previous period. When the rate of growth of the dependent variable x_t falls below its steady-state path, the value of the ratio of variables in the second term decreases in the subsequent period. That decrease, combined with the negative coefficient of the term, has a positive influence on the growth rate of the dependent variable. Conversely, when the growth rate of the dependent variable increases above its steady-state path, the adjustment mechanism embodied in the second term generates downward pressure on the growth rate of the dependent variable until it

reaches that of its steady-state path. The speed with which the system approaches its steady-state path depends on the proximity of the coefficient to minus one. If the coefficient is close to minus one, the system converges to its steady-state path quickly; if it is near to zero, the approach of the system to the steady-state path is slow. Since the variables are measured in logarithms, Δx and Δy can be interpreted as the rate of change of the variables. Thus the third term, $\alpha_2 \Delta y_t$, expresses the steady-state growth in X associated with Y . Finally, the fourth term, $\alpha_3 y_{t-1}$, shows that the steady-state response of the dependent variable X to the variable Y is non-proportional when the coefficient has non-zero significance.

The equilibrium solution of equation (A.4) is a constant value if there is convergence. Since the solution is unrelated to time, the rate of change over time of the dependent variable X (given by Δx_t) and the explanatory variable Y (given by Δy_t) are equal to zero. However, in dynamic equilibrium, equation (A.4) generates a steady-state response in which growth occurs at a constant rate, say g . For the dynamic specification of the relationship in (A.4), if g_1 is defined as the steady-state growth rate of the dependent variable X , and g_2 corresponds to the steady-state growth rate of the explanatory variable Y , then, since lower-case letters denote the logarithms of variables, $g_1 = \Delta x$ and $g_2 = \Delta y$ in dynamic equilibrium. In equilibrium the systematic dynamics of equation (A.4) are expressed as:

$$g_1 = \alpha_0 + \alpha_1(x - y) + \alpha_2 g_2 + \alpha_3 y \quad (\text{A.5})$$

or, in terms of the original (anti-logarithmic) values of the variables:

$$X = k_0 Y^\beta \quad (\text{A.6})$$

where $k_0 = \exp\{(-\alpha_0/\alpha_1) + [(\alpha_1 - \alpha_2\alpha_1 - \alpha_3)/\alpha_1^2]g_2\}$, and where $\beta = 1 - \alpha_3/\alpha_1$.

The dynamic solution of equation (A.6) therefore shows X to be influenced by changes in the rate of growth of Y , as well as the long-run elasticity of X with respect to Y . For example, where the rate of growth of the explanatory variable accelerates, say from g_2 to g'_2 , the value of the variable X would increase. However, it is important to reiterate that the response to each explanatory variable can be either transient or steady-state. When theoretical considerations suggest that an explanatory variable generates a transient, rather than steady-state, response, it is appropriate to constrain its long-run effect to zero.

Step 3: Modeling Exchange Rate Effects

The effects of changes in the international competitiveness of Central and South Asia inter-regional trade can be measured by extending the first-order stochastic difference equation to include that variable. Transformation of an autoregressive distributed lag into an ECM with a 'differences' formulation of the relative price or exchange rate term nested in the levels form of the equation yields the equation:

$$\Delta x_t = \alpha_0 + \alpha_1(x - y)_{t-1} + \alpha_2 \Delta y_t + \alpha_3 y_{t-1} + \alpha_4 \Delta r_t + \alpha_5 r_{t-1} + v_t \quad (\text{A.7})$$

where $-1 < \alpha_1 < 0$, $\alpha_2 > 0$, $\alpha_3 > -1$, $\alpha_4 > 0$ and $\alpha_5 > 0$, and where all variables are measured in logarithmic terms.

We measure the competitiveness, r , of Central and South Asia as the inverse of the real effective exchange rate, e . The real exchange rate (RER) is the bilateral rate which takes into account changes in relative price levels between Central and South Asia and a foreign country. It measures changes in the purchasing power between the domestic and the foreign economy, and it provides an indicator of changes in the international competitiveness of the domestic economy in its ability to purchase more (or less) goods and services per unit of foreign currency. As an extension, the real effective exchange rate (REER) measures the average relative strength of the local currency, and it is calculated as the weighted average of RERs, where the weights are the value of imports from and exports to a given partner country i divided by total imports and total exports of Central and South Asia.

Formally the real effective exchange rate is defined as $e^r_t = \sum_i w_i [e^n_t (P^f_t / P_t)]$ where e^n is the nominal exchange rate, P^f is the foreign currency price of goods purchased abroad, and P is the domestic price level. A rise in e^r represents a real *devaluation* in a fixed exchange rate system, and a *depreciation* in a flexible exchange rate system, which can be brought about by either a rise in the nominal exchange rate e^n , or a rise in the relative price of foreign goods (equivalent to a relative fall in the price of domestic goods). Conversely, a fall in e^r represents a real *revaluation* under a fixed exchange rate system, and an *appreciation* under a flexible exchange rate system. The fall is associated with either a drop in the nominal exchange rate e^n or a fall in relative prices of foreign goods (equivalent to a rise in relative prices of domestic goods).

Step 4: Modeling Price and Income Effects of Foreign and Domestic Imports

An important characteristic of the import demand for any one product is that its long-term response to the growth of domestic income is not necessarily proportional. This suggests that the dynamic specification of the import demand equation should not introduce any restrictions that would impose long-run unitary elasticity with respect to income. In contrast, the model should encompass long-term proportionality responses when they exist.

A second feature of the present modeling approach is that the dynamics for import demand relationships can be restricted to one period since the adjustment of imports to price and income changes tends to decline exponentially over time. The third and final important characteristic is that prices of traded goods are measured in U.S. dollar terms. If prices of imports were measured in local currency units, then the demand for imports by Central and South Asia would also be directly affected by the real exchange rate, which would take into account changes in both the relative prices of domestic and foreign goods and the nominal exchange rate, as well as the foreign market price of the product.

The dynamic specification for imports, M , in terms of income, Y , and the price of the product, P , relative to the general price index, D , can be expressed as:

$$m_t = \alpha_0 + \alpha_1 m_{t-1} + \beta_1 y_t + \beta_2 y_{t-1} + \gamma_1 (p-d)_t + \gamma_2 (p-d)_{t-1} + u_t \quad \dots(A.8)$$

where lower case letters denote logarithms of corresponding capital letters, e.g., $(p-d) = \ln(P/D)$, and the expected signs of the coefficients are $0 < \alpha_1 < 1$; β_1 and $\beta_2 > 0$; γ_1 and $\gamma_2 < 0$. Income is treated as (weakly) exogenous for the parameters of interest.

The use of the logarithmic specification in equation (A.8) provides a means by which the elasticity

can be calculated directly from the estimated equation; the results are consistent when the elasticities remain constant over time. Tests of parameter constancy provide a means of validating that hypothesis.

On a steady-state growth path, the long-run dynamic equilibrium relationship implicit in equation (A.8) is:

$$M = kY^{\varepsilon_y} P/D^{\varepsilon_p} \quad (A.9)$$

where $\varepsilon_y = (\beta_1 + \beta_2)/(1-\alpha_1)$ and $\varepsilon_p = (\gamma_1 + \gamma_2)/(1-\alpha_1)$.

The results of the estimates provide quantitative measures of the impact that Central and South Asia's market access concessions could have on its trade. Since data limitations restrict the application of the model, it is useful to review some of the widely used empirical models which equation (A.8) encompasses. These embedded models have been described by Hendry, Pagan and Sargan (1984) as follows:

- (a) Static Model ($\alpha_1 = \beta_2 = \gamma_2 = 0$): $m_t = \alpha_0 + \beta_1 y_t + \gamma_1 (p-d)_t$
- (b) Distributed Lag Model ($\alpha_1 = 0$): $m_t = \alpha_0 + \beta_1 y_t + \beta_2 y_{t-1} + \gamma_1 (p-d)_t + \gamma_2 (p-d)_{t-1}$
- (c) Partial Adjustment Model ($\beta_2 = \gamma_2 = 0$): $m_t = \alpha_0 + \alpha_1 m_{t-1} + \beta_1 y_t + \gamma_1 (p-d)_t$
- (d) First-Difference Model ($\alpha_1 = 1, \gamma_1 = -\gamma_2$): $\Delta m_t = \alpha_0 + \beta_1 \Delta y_t + \xi_1 \Delta p_t$

The following are the estimates for inter-regional import demand of the Central and South Asia economies:

Table T1. Regression Results of Real Exchange Rate Transmissions on Inter-Regional Import Demand

| $Dm_t = a_0 + a_1(m - y)_{t-1} + a_2Dy_t + a_3y_{t-1} + a_4Dr_t + a_5r_{t-1} + v_t$ | | | | | | | | | | |
|---|------------------|---------------|---------------|----------------|----------------|-------|--------------------|------|------|-----|
| | $\ln(M/Y)_{t-1}$ | $D\ln(Y)_t$ | $\ln Y_{t-1}$ | $D\ln(R)_t$ | $\ln R_{t-1}$ | Const | Summary Statistics | | | |
| | | | | | | | R^2 | dw | SE | dof |
| Afghanistan <u>a/</u> | -0.42 (3.3) | | | -0.97 (2.8) | -0.48 (1.9) | 2.51 | 0.86 | 1.95 | 0.17 | 14 |
| India | -0.37 (1.6) | 1.23 (1.2) | 0.47 (1.5) | | -0.31 (1.6) | -0.63 | 0.65 | 2.55 | 0.24 | 11 |
| Pakistan | -0.78 (3.0) | | | | -2.04 (1.9) | 9.41 | 0.62 | 2.37 | 0.85 | 11 |
| Kazakhstan <u>a/</u> , <u>b/</u> | -0.85 (4.7) | 4.50 (2.3) | 0.17 (1.1) | -0.61 (1.1) | -1.31 (2.0) | 4.92 | 0.83 | 2.33 | 0.18 | 12 |
| Kyrgyzstan <u>c/</u> | -0.34 (2.1) | 1.36 (1.0) | | -0.84 (1.6) | -0.26 (1.9) | 1.39 | 0.63 | 2.52 | 0.16 | 13 |
| Tajikistan <u>d/</u> | -0.26 (2.4) | | 0.37 (1.6) | -0.24 (1.1) | -0.73 (1.9) | 1.68 | 0.64 | 2.63 | 0.11 | 13 |
| Turkmenistan | -0.39 (4.7) | 1.56 (2.3) | 1.32 (1.1) | -0.52 (1.1) | -0.71 (2.0) | -2.93 | 0.66 | 2.20 | 0.23 | 12 |
| Uzbekistan | -0.38 (1.7) | 6.91 (1.4) | 0.24 (1.5) | -0.50 (1.1) | -0.20 (1.7) | -0.60 | 0.43 | 1.67 | 0.22 | 12 |

Notations (lower-case letters denote logarithms of upper-case letters):

M = Import volume

Y = Real GDP.

R = Real inter-regional exchange rate

a/ Includes a binary variable for 2011 (1 in 2011; 0 otherwise).

b/ Includes a binary variable for 2011-12 (1 in 2011-12; 0 otherwise).

c/ Includes a binary variable for 2009 (1 in 2009; 0 otherwise).

d/ Includes a binary variable for 2012 (1 in 2012; 0 otherwise).

Notes: R^2 is the adjusted square of the multiple correlation coefficient; figures in parentheses below the coefficients are t-statistics.

ANNEX B: TERMS OF REFERENCE OF STUDY

Background. The Afghanistan Trade and Revenue Project provides technical support and assistance aimed to strengthen the business climate of Afghanistan to enable private investment, enhanced trade, job creation, and fiscal sustainability through the critical Transition period and continuing into the Transformational Decade. This will be achieved through interventions aimed at 1) improving the capacity of the Government of the Islamic Republic of Afghanistan (GIROA) to formulate and implement a liberal policy framework for trade and investment in accordance with international standards; 2) enhancing integration in the regional and world economy through the promotion of trade and agreements, enhanced economic corridors governance, and private sector linkages throughout South and Central Asia; and 3) strengthening revenue generation for fiscal sustainability and trade facilitation through reforms and anti-corruption measures in customs and taxation.

Support Trade Policy Liberalization (Component 1). The Afghanistan Trade and Revenue Project will support GIROA to establish a sustainable liberalized trade system that permits the country to take full advantage of World Trade Organization (WTO) membership. This will be accomplished by building the necessary capacity within the implementing institutions to conduct negotiations, draft legislation and institute reforms required to improve the trade regime within the region and otherwise meet WTO requirements. The project will work to improve GIROA's ability to formulate a strong, well-coordinated trade and tariff policy that contributes to improved trade policies, laws, and regulations, resulting in deeper, more-diverse trade links in the region and world markets.

Facilitative Enhanced Access to Regional Markets (Component 2). The Afghanistan Trade and Revenue Project will support enhanced regional economic integration in Central and South Asia through the adoption of cross border transit agreements (CBTAs), enhancing corridor governance, reforming customs clearance procedures, and improving regional government and private sector linkages. The project will assist in the development of trade support businesses and business associations through improved coordination and collaboration of private sector engagement.

Improved Customs and Tax Administration (Component 3). The Afghanistan Trade and Revenue Project will work to build GIROA's capacity to generate revenue, through both tax and customs revenue mechanisms, and will assist in strengthening the capacity of the Afghan Revenue Department (ARD) and Afghan Customs Department (ACD). The project will work closely with ARD on the implementation, administration, and enforcement of the planned Value Added Tax (VAT), and assist ACD to develop and sustain modernized customs systems.

Position Description.

Increasing trade, investment, and economic cooperation among countries in Central Asia and South Asia is critical for regional economic development, stability, and security and for the creation of new region-wide economic opportunities. Central Asian Republics and Afghanistan are landlocked economies which rely on each other to access each other's markets and open seas. The region includes, and is surrounded by, countries of various degrees of transit and transport efficiency and risk. Having multiple viable alternatives for trade and transit will increase the economic security of all countries in the region and lead to greater competition in lowering transport costs and delays. In addition, there is untapped potential for increasing regional trade and investment across Central Asia, Afghanistan, and South Asia. Trade and transit facilitation in the region can be achieved through a

variety of mechanisms including bilateral and/or regional trade, transit, transport agreements as well as membership in the World Trade Organization (WTO).

The objective of the consultancy is to explore opportunities and challenges, based on economic analysis, for intra- and inter-regional trade in the Central and South Asia by analyzing trade competitiveness and complementarities and the comparative advantages of the region's economies. The Central and South Asia regional coverage consists of the Central Asian Republics (CARs) countries of Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan and Uzbekistan, and the South Asian countries of Afghanistan, India and Pakistan

Specific Tasks/ Activities

The Trade Economist shall perform the following specific activities:

A. Database Creation

1. **Trade Database:** Develop a disaggregated database on trade, detailed by product and trading partner for each country in the region based on the United Nations Commodity Trade Statistics Database (UN COMTRADE) and the World Bank's World Integrated Trade Solution (WITS) database for each country in the region and, where data are unavailable, derive mirror trade data to reconstruct data for those countries based on data reported by partner countries.
2. **Trade-Related Indicators:** Develop trade-related databases for the analysis of countries in the region for at least the following series: (a) trading costs based on the World Bank's Trade Costs database; (b) trade in value added based on the joint OECD – WTO Trade in Value-Added (TiVA) initiative; (c) key trade indicators and determinants from IMF International Financial Statistics (IFS); (d) data on the total value of merchandise exports and imports between each country in the region and all its trading partners from IMF Direction Of Trade Statistics (DOTS).

B. Preliminaries: Overall Trade Patterns

3. **Trade Structure:** Analyze the overall trade patterns of focal economies in the context of their level of development and openness to trade, long-term growth dynamism and short-term price and output variability, structure and performance of productive sectors, and associated trade structure of major product categories.
4. **Trade Performances:** Examine the potential for the external sectors of the focal countries to act as the engines of growth for their economies and trade policies to promote export growth. The analysis should include growth trends of major imports and exports, import and export product concentration indicators and the associated degree of vulnerability to external shocks and, where possible, nominal rates of protection.

C. Aggregated Analysis of Trade

5. **Intra-Regional Trade Potential:** Based on econometric estimates of an Augmented Gravity Model, estimate the potential trade among the Central and South Asian countries and compare those estimates to actual market shares.
6. **Preferential Intra- and Extra-Regional Trade Arrangements (RTAs):** Survey existing RTA initiatives in the form of both bilateral as well as regional trade and economic cooperation initiatives within the region and with extra-regional partners, and examine focal issues

addressed by those RTAs, such as tariff reductions subject to negative lists, and areas needing strengthening, such as rules of origin and non-tariff barriers (NTBs).

7. **Export Expansion Potential from RTAs:** Apply Michaely's bilateral trade-complementarity index to the Central and South Asia region to estimate the regional export-expansion potential expected from different preferential agreements. Analyze the extent to which changes in complementarity indices could affect the prospects for broad-ranging regional cooperation among the focal countries.
8. **Macroeconomic Determinants of Trade 1 – Trading Costs:** Based on the World Bank's Trade Cost Database, empirically assess the magnitude of intra-regional trade costs in Central and South Asia and how they have changed over time relative to extra-regional trade costs and intra- and extra-regional trade costs of the comparator region of East Asia. Also compare how agricultural trade costs have differed from manufacturing trade costs in order to evaluate the extent to which trade facilitation efforts could most impact on intra-regional trade.
9. **Macroeconomic Determinants of Trade 2 – Real Exchange Rate, Trade Competitiveness and Elasticity Estimates:** Calculate nominal and real effective exchange rates and associated trade performances of each country in the region and examine their associated competitiveness. The analysis should be conducted at the level of each country's real cross-rates with trading partners in the region, as well as overall trade. Based on the calculated time series, estimate the international transmission of price changes caused by exchange rate variations on export and import demand for each country using econometric estimates of aggregate trade data for imports and exports of each country in the region.

D. Product-Level Analysis of Trade

10. **Structural and Competitiveness Factors Determining Trade – Constant Market Share Analysis:** Decompose each country's export growth relative to that of both overall regional exports and total world exports into (a) the portion of export growth concentrated in commodities in which the demand is either growing relatively fast or slow relative to other markets; (b) export growth associated with relatively fast or slow growing trading partners within the Central and South Asia region; (c) ability of each focal country to compete with other sources of supply.
11. **Country-Level Product and Geographic Diversification:** Calculate alternative measures of export diversification for products and destinations of each focal country using Herfindahl's and Theil's concentration indices and compare the results with Hummels and Klenow's more recent measure of product and geographic concentration. Analyze the significance of product and geographic diversification for countries in the region, especially as they relate to intra-regional trade.
12. **Revealed Comparative Advantage (RCA):** Calculate both RCAs and Hausmann, Hwang and Rodrik's PRODY index of the 'revealed' technology content of products for each focal country's exports in order to determine whether the region's countries have different comparative advantages and therefore greater opportunities for trade or whether they share a high degree of similarity in factor endowments and possibly fewer trade opportunities.

13. **Trade Complementarity Index (TCI):** Calculate the TCI's for the Central and South Asian countries over time to determine whether trade profiles of countries are becoming more or less compatible, and use results to analyze (a) whether similarities between types of goods exported and goods imported in the region is a factor underlying the expansion of intra-regional trade; (b) whether those similarities or differences have a favorable or unfavorable impact on the prospects for successful trade cooperation among countries in the region.
14. **Intra-Industry Trade (IIT):** Analyze the historical and perspective trends in horizontal intra-industry trade and vertical intra-industry trade among the Central and South Asian countries. Based on those results, determine the degree of product differentiation associated with horizontal intra-industry trade and the degree of fragmentation at different stages of the production process.
15. **Value Chain Analysis:** Use the results of the IIT analysis and the empirical findings from the Trade in Value Added (TIVA) database to analyze changing patterns of trade along value chains in the Central and South Asia region and implications about the cost of protection for global and regional value chains, trade facilitation, and their implications for regional trade agreements.

E. Findings and Conclusions

- A. **A detailed report on the trade competitiveness, comparative advantage and trade complementarities of the Central Asian countries, Afghanistan, India and Pakistan including:**
 16. **Synthesis of Findings:** Develop a common evaluation scoring and rate each factor determining the degree to which the regional analysis of the competitiveness, comparative advantage and trade complementarity among countries could support greater intra-regional trade.
 17. **Policy Recommendations:** Based on the findings of the study, rank factors affecting intra-regional trade on a sliding scale from a high score for greatest opportunities to a low score for largest bottlenecks, and indicate what policies, programs and institutional mechanisms could successfully promote greater trade within the region.
 18. **Opportunities:** Using easy-to-understand English, describe potential trade (including intra-industry) and value chain opportunities between and within Central and South Asia. Profile key potential opportunities.

ANNEX C: MAPPING STUDY CHAPTERS WITH TERMS OF REFERENCE

The following tables shows the location in the present study of the Specific Tasks and Activities in the Terms of Reference:

| Specific Tasks and Activities in the Terms of Reference | Location of Material in Study. |
|---|--|
| A. Database Creation | A. Database Creation |
| 1. Trade Database | Database in Excel spreadsheets |
| 2. Trade-Related Indicators | Tables and figures in Excel and Visio format in database |
| B. Preliminaries: Overall Trade Patterns | B. Preliminaries: Overall Trade Patterns |
| 3. Trade Structure | Chapters 1 and 10 |
| 4. Trade Performances | Chapters 2 and 10 |
| C. Aggregated Analysis of Trade | C. Aggregated Analysis of Trade |
| 5. Intra-Regional Trade Potential | Chapter 12, Section A |
| 6. Preferential Intra- and Extra-Regional Trade Arrangements (RTAs) | Chapter 11 |
| 7. Export Expansion Potential from RTAs | Chapter 12, Section B |
| 8. Macroeconomic Determinants of Trade 1 – Trading Costs | Chapter 9 |
| 9. Macroeconomic Determinants of Trade 2 – Real Exchange Rate, Trade Competitiveness and Elasticity Estimates | Chapter 8 |
| D. Product-Level Analysis of Trade | D. Product-Level Analysis of Trade |
| 10. Structural and Competitiveness Factors Determining Trade – Constant Market Share Analysis | Chapter 10 |
| 11. Country-Level Product and Geographic Diversification | Chapter 4 |
| 12. Revealed Comparative Advantage (RCA) | Chapter 5 |
| 13. Trade Complementarity Index (TCI) | Chapter 6 |
| 14. Intra-Industry Trade (IIT) | Chapter 7 |
| 15. Value Chain Analysis | Chapter 13 |
| E. Findings and Conclusions | E. Findings and Conclusions |
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| 17. Policy Recommendations | Chapter 15, Section B |
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| | Commodity Description | AVG 2010-2013 |
|---------------|--|---------------|
| 520100 | Cotton, not carded or combed | 71,414,941 |
| 720449 | Ferrous waste or scrap, nes | 45,316,969 |
| 080420 | Figs, fresh or dried | 39,987,808 |
| 270119 | Coal except anthracite or bituminous, not agglomerate | 38,036,531 |
| 130190 | Natural gum, resin, gum-resin, balsam, not gum Arabic | 35,320,878 |
| 080620 | Grapes, dried | 15,680,502 |
| 080610 | Grapes, fresh | 12,604,132 |
| 070310 | Onions and shallots, fresh or chilled | 12,562,491 |
| 252610 | Natural steatite, not crushed or powdered | 9,642,132 |
| 080250 | Pistachios, fresh or dried | 8,603,925 |
| 080212 | Almonds, fresh or dried, shelled | 7,881,306 |
| 081310 | Apricots, dried | 6,853,596 |
| 090910 | Anise or badian seeds | 5,637,762 |
| 680100 | Stone setts, curbstones, flagstones (except slate) | 5,059,524 |
| 071331 | Urd, mung, black or green gram beans dried shelled | 5,050,576 |
| 080810 | Apples, fresh | 4,129,986 |
| 081090 | Fruits, fresh nes | 3,102,418 |
| 080910 | Apricots, fresh | 2,881,028 |
| 720299 | Ferro-alloys, nes | 2,813,393 |
| 071339 | Beans dried, shelled, nes | 2,808,539 |
| 070190 | Potatoes, fresh or chilled except seed | 1,452,030 |
| 630619 | Tarpaulins, awnings and sun blinds, of material nes | 669,996 |
| 880212 | Helicopters of weight > 2,000 kg | 360,000 |
| 860610 | Railway tank cars | 315,000 |
| 410110 | Bovine skins, whole, raw | 252,768 |
| 410210 | Sheep or lamb skins, raw, wool on, except Persian etc. | 163,809 |
| 870333 | Automobiles, diesel engine of >2500 cc | 131,763 |
| 761510 | Aluminum table/kitchen/household articles, scourers | 124,205 |
| 261710 | Antimony ores and concentrates | 108,210 |
| 681490 | Worked mica and articles of mica except sheet mica | 99,324 |
| 080520 | Mandarin, clementine & citrus hybrids, fresh or dried | 88,677 |
| 300490 | Medicaments nes, in dosage | 82,512 |
| 271000 | Oils petroleum, bituminous, distillates, except crude | 81,938 |
| 841440 | Air compressors mounted on wheeled chassis for towing | 60,603 |
| 100630 | Rice, semi-milled or wholly milled | 53,110 |
| 100620 | Rice, husked (brown) | 49,440 |
| 151219 | Sunflower or safflower oil, fractions simply refined | 46,559 |
| 090300 | Mate | 30,870 |
| 080120 | Brazil nuts, fresh or dried | 30,000 |
| 251512 | Marble and travertine in blocks etc. | 18,372 |

Source: United Nations, COMTRADE database.

| Table A.2: India - Top Exports to Intra- and Inter-Regional Markets, 2010-2013 average (6-digit HS92, million U.S. dollars) | | |
|--|---|---------------|
| | Commodity Description | AVG 2010-2013 |
| 520100 | Cotton, not carded or combed | 266,393,971 |
| 230400 | Soya-bean oil-cake and other solid residues | 218,182,617 |
| 290243 | P-xylene | 156,846,952 |
| 300490 | Medicaments nes, in dosage | 132,334,007 |
| 170199 | Refined sugar, in solid form, nes, pure sucrose | 104,084,215 |
| 070200 | Tomatoes, fresh or chilled | 89,211,625 |
| 090240 | Tea, black (fermented or partly) in packages > 3 kg | 74,948,585 |
| 540710 | Woven hi-ten filament, nylon, polyamide or polyester | 63,122,909 |
| 390210 | Polypropylene in primary forms | 50,622,030 |
| 852520 | Transmit-receive apparatus for radio, TV, etc. | 42,341,948 |
| 071320 | Chickpeas, dried, shelled | 42,023,155 |
| 540772 | Woven fabric >85% synthetic filament, dyed, nes | 36,629,778 |
| 711790 | Imitation jewelry nes | 28,253,624 |
| 240399 | Products of tobacco, substitute nes, extract, essence | 27,455,020 |
| 540760 | Woven fabric >85% non-textured polyester filament, ne | 27,044,235 |
| 550410 | Staple fibers of viscose rayon, not carded or combed | 23,101,597 |
| 320416 | Reactive dyes and preparations based thereon | 21,840,902 |
| 100190 | Wheat except durum wheat, and meslin | 21,457,847 |
| 300420 | Antibiotics nes, in dosage | 19,213,750 |
| 300220 | Vaccines, human use | 16,434,495 |
| 020230 | Bovine cuts boneless, frozen | 16,405,533 |
| 761410 | Aluminum wire, cables, etc., steel core, uninsulated | 12,844,332 |
| 870600 | Motor vehicle chassis fitted with engine | 12,814,856 |
| 401120 | Pneumatic tires new of rubber for buses or lorries | 12,448,872 |
| 540754 | Woven fabric >85% textured polyester, printed, nes | 10,053,449 |
| 870410 | Dump trucks designed for off-highway use | 9,240,000 |
| 300450 | Vitamins, derivatives, in dosage | 5,085,926 |
| 391739 | Plastic tube, pipe or hose, flexible, nes | 4,902,020 |
| 848180 | Taps, cocks, valves and similar appliances, nes | 4,631,350 |
| 610520 | Men's, boys shirts, of manmade fibers, knit | 4,411,891 |
| 690390 | Refractory ceramic articles nes | 3,472,837 |
| 842649 | Cranes & lifting frames, self-propelled, not on tires | 3,419,557 |
| 090230 | Tea, black (fermented or partly) in packages < 3 kg | 3,206,982 |
| 902920 | Speed indicators, tachometers, stroboscopes | 3,193,569 |
| 292142 | Aniline derivatives, salts thereof | 3,174,839 |
| 842951 | Front end shovel loaders | 3,069,977 |
| 610990 | T-shirts, singlet's etc., of material nes, knit | 2,660,310 |
| 841989 | Machinery for treatment by temperature change nes | 2,650,453 |
| 902990 | Parts and accessories of revolution counters, etc. | 2,300,543 |
| 841370 | Centrifugal pumps nes | 2,228,588 |
| 847920 | Machines to process animal or fixed veg fats or oils | 2,218,899 |
| 842199 | Parts for filter/purifying machines for liquid/gas | 2,163,250 |
| 841182 | Gas turbine engines nes of a power > 5000 kW | 1,442,002 |
| 841810 | Combined refrigerator-freezers, two door | 1,341,808 |
| 870422 | Diesel powered trucks weighing 5-20 tones | 1,333,972 |
| 850619 | Primary cells, primary batteries nes, volume < 300 cc | 1,259,960 |
| 240120 | Tobacco, unmanufactured, stemmed or stripped | 1,198,374 |
| 854211 | Monolithic integrated circuits, digital | 1,014,659 |
| 610910 | T-shirts, singlet's and other vests, of cotton, knit | 967,988 |
| 170111 | Raw sugar, cane | 881,018 |
| 020220 | Bovine cuts bone in, frozen | 749,000 |
| 630629 | Tents, of textile material nes | 616,116 |
| 843880 | Industrial machinery nes for food, drink preparation | 609,719 |
| 300410 | Penicillin's and streptomycin's, derives, in dosage | 515,055 |

Source: United Nations, COMTRADE database.

Table A.3: Pakistan - Top Exports to Intra- and Inter-Regional Markets, 2010-2013 average (6-digit HS92, million U.S. dollars)

| | Commodity Description | AVG 2010-2013 |
|--------|---|---------------|
| 271000 | Oils petroleum, bituminous, distillates, except crude | 394,828,486 |
| 252329 | Portland cement, other than white cement | 287,206,416 |
| 110100 | Wheat or meslin flour | 171,598,510 |
| 151620 | Veg fats, oils or fractions hydrogenated, esterified | 159,474,239 |
| 100630 | Rice, semi-milled or wholly milled | 93,817,606 |
| 730690 | Tube/pipe/hollow profile, iron/steel, riveted/open sea | 71,336,777 |
| 170199 | Refined sugar, in solid form, nes, pure sucrose | 69,311,319 |
| 080410 | Dates, fresh or dried | 64,806,899 |
| 070190 | Potatoes, fresh or chilled except seed | 62,842,894 |
| 080520 | Mandarin, clementine & citrus hybrids, fresh or dried | 61,365,371 |
| 730890 | Structures and parts of structures, iron or steel, ne | 54,376,713 |
| 740400 | Copper/copper alloy waste or scrap | 44,109,622 |
| 710812 | Gold in unwrought forms non-monetary | 32,487,523 |
| 520100 | Cotton, not carded or combed | 28,940,217 |
| 290250 | Styrene | 22,797,238 |
| 271111 | Natural gas, liquefied | 16,022,432 |
| 290321 | Vinyl chloride (chloroethylene) | 12,910,357 |
| 780199 | Lead unwrought nes | 10,300,627 |
| 300490 | Medicaments nes, in dosage | 7,824,370 |
| 300390 | Medicaments nes, formulated, in bulk | 1,838,430 |
| 360500 | Matches | 961,318 |
| 300510 | Medical dressings etc. having an adhesive layer | 913,695 |
| 620342 | Men's, boys trousers & shorts, of cotton, not knit | 592,029 |
| 040120 | Milk not concentrated nor sweetened 1-6% fat | 559,240 |
| 170410 | Chewing gum containing sugar, except medicinal | 484,765 |
| 531090 | Woven fabric of jute/baste fiber, not unbleached/bleached | 475,937 |
| 630622 | Tents, synthetic fibers | 386,743 |
| 620462 | Women's, girls trousers & shorts, of cotton, not knit | 373,056 |
| 842839 | Continuous action elevators or conveyors for goods ne | 347,400 |
| 960329 | Shaving, hair, nail, eyelash and other toilet brushes | 334,105 |
| 040390 | Buttermilk, curdled milk, cream, kephir, etc. | 315,019 |
| 240110 | Tobacco, unmanufactured, not stemmed or stripped | 281,802 |
| 300410 | Penicillin's and streptomycin's, derives, in dosage | 271,464 |
| 630699 | Camping goods nes, textile material, not cotton | 257,400 |
| 170490 | Sugar confectionery not chewing gum, no cocoa content | 217,828 |
| 240120 | Tobacco, unmanufactured, stemmed or stripped | 210,806 |
| 300450 | Vitamins, derivatives, in dosage | 207,838 |
| 300420 | Antibiotics nes, in dosage | 201,883 |
| 902211 | Medical X-ray apparatus | 188,202 |
| 300439 | Hormones nes, except contraceptives, in dosage | 186,610 |
| 901890 | Instruments, appliances for medical, etc. science, nes | 176,881 |
| 847989 | Machines and mechanical appliances nes | 146,500 |
| 846291 | Hydraulic presses for working metal | 102,803 |
| 950662 | Inflatable balls | 82,931 |
| 300339 | Hormones nes, no antibiotics, bulk, not contraceptive | 72,385 |
| 340120 | Soaps nes | 71,345 |
| 080450 | Guavas, mangoes and mangos teens, fresh or dried | 70,568 |
| 630120 | Blankets (non-electric) & travelling rug, wool or Hai | 54,500 |

Source: United Nations, COMTRADE database.

Table A.4: Kazakhstan - Top Exports to Intra- and Inter-Regional Markets, 2010-2013 average (6-digit HS92, million U.S. dollars)

| | Commodity Description | AVG 2010-2013 |
|--------|--|---------------|
| 270900 | Petroleum oils, oils from bituminous minerals, crude | 638,445,349 |
| 110100 | Wheat or meslin flour | 560,002,356 |
| 100190 | Wheat except durum wheat, and meslin | 290,588,887 |
| 271000 | Oils petroleum, bituminous, distillates, except crude | 182,005,882 |
| 271112 | Propane, liquefied | 108,901,261 |
| 260800 | Zinc ores and concentrates | 74,767,916 |
| 252400 | Asbestos | 67,960,097 |
| 730511 | Pipe-line submerged arc welded steel diameter >406mm | 65,774,600 |
| 720449 | Ferrous waste or scrap, nes | 50,272,954 |
| 270119 | Coal except anthracite or bituminous, not agglomerate | 37,879,678 |
| 240220 | Cigarettes containing tobacco | 36,958,115 |
| 271121 | Natural gas in gaseous state | 35,327,036 |
| 760110 | Aluminum unwrought, not alloyed | 25,011,742 |
| 271600 | Electrical energy | 24,685,747 |
| 710691 | Silver in unwrought forms | 20,451,570 |
| 860210 | Rail locomotives, diesel-electric | 18,400,000 |
| 790111 | Zinc, not alloyed, unwrought, >99% pure | 17,057,771 |
| 710812 | Gold in unwrought forms non-monetary | 16,976,380 |
| 790112 | Zinc, not alloyed, unwrought, <99% pure | 16,626,806 |
| 720990 | Cold rolled iron or non-alloy steel, flat, width >600mm, nes | 16,390,544 |
| 780110 | Lead refined unwrought | 13,968,136 |
| 251110 | Natural barium sulphate (barites) | 13,235,881 |
| 100630 | Rice, semi-milled or wholly milled | 13,117,171 |
| 220210 | Beverage waters, sweetened or flavored | 12,657,027 |
| 252329 | Portland cement, other than white cement | 12,268,130 |
| 721049 | Flat rolled iron or non-alloy steel, coated with zinc, width >600mm, ne | 9,049,376 |
| 890600 | Warships, lifeboats, hospital ships, vessels nes | 7,356,788 |
| 720824 | Hot rolled iron or non-alloy steel, coil, width >600mm, t <3mm thick, ne | 6,860,666 |
| 721049 | Flat rolled iron or non-alloy steel, coated with zinc, width >600mm, ne | 6,722,905 |
| 490700 | Documents of title (bonds etc.), unused stamps etc. | 6,666,716 |
| 844390 | Parts of printing machinery and ancillary equipment | 6,605,844 |
| 721420 | Bar/rod, iron or non-alloy steel, indented or twisted, nes | 6,021,803 |
| 190110 | Infant foods of cereals, flour, starch or milk, retail | 5,982,757 |
| 120400 | Linseed | 5,828,771 |
| 681190 | Articles nes, of asbestos or cellulose fiber cement | 5,739,714 |
| 890400 | Tugs and pusher craft | 5,488,453 |
| 281910 | Chromium trioxide | 4,837,331 |
| 270810 | Pitch | 4,831,830 |
| 680911 | Plaster board etc. not ornamental, paper reinforced | 4,603,891 |
| 210690 | Food preparations nes | 4,312,461 |
| 251020 | Natural calcium phosphates, ground | 4,261,743 |
| 441219 | Plywood, all softwood, each ply < 6mm thick | 4,039,124 |
| 310559 | Fertilizers with nitrogen and phosphorus nes, <=10kg | 4,025,344 |
| 720241 | Ferro-chromium, >4% carbon | 3,358,701 |
| 720249 | Ferro-chromium, <4% carbon | 3,209,432 |
| 720923 | Cold rolled iron or non-alloy steel, coil, width >600mm, t 0.5-1mm, nes | 2,648,966 |
| 720823 | Hot rolled iron or non-alloy steel, coil, width >600mm, t 3-4.75mm, nes | 1,359,614 |
| 720922 | Cold rolled iron or non-alloy steel, coil, width >600mm, t 1-3mm, nes | 1,294,517 |
| 720822 | Hot rolled iron or non-alloy steel, coil, width >600mm, t 4.75-10mm, nes | 1,155,339 |
| 720924 | Cold rolled iron or non-alloy steel, coil, width >600mm, t <0.5mm, nes | 1,142,265 |
| 730420 | Casings, tubing and drill pipe, for oil drilling | 538,159 |
| 720719 | Semi-finished product, iron or non-alloy steel <0.25%C, nes | 418,216 |
| 721012 | Flat rolled iron or non-alloy steel, coated with tin, w >600mm, t <0.5m | 409,810 |

Source: United Nations, COMTRADE database.

| Table A.5: Kyrgyzstan - Top Exports to Intra- and Inter-Regional Markets, 2010-2013 average (6-digit HS92, million U.S.\$) | | |
|---|--|---------------|
| | Commodity Description | AVG 2010-2013 |
| 271600 | Electrical energy | 57,923,438 |
| 870423 | Diesel powered trucks weighing > 20 tones | 27,726,342 |
| 271000 | Oils petroleum, bituminous, distillates, except crude | 25,787,215 |
| 261690 | Precious metal ores and concentrates except silver | 12,436,246 |
| 040120 | Milk not concentrated nor sweetened 1-6% fat | 12,064,182 |
| 070190 | Potatoes, fresh or chilled except seed | 11,805,057 |
| 700529 | Float glass etc. in sheets, non-wired, clear | 9,998,425 |
| 401199 | Pneumatic tires new of rubber nes | 9,798,884 |
| 080810 | Apples, fresh | 9,492,343 |
| 252329 | Portland cement, other than white cement | 9,132,212 |
| 620640 | Women's, girls blouses, shirts, manmade fiber, not knit | 8,311,057 |
| 284410 | Natural uranium, its compounds, mixtures | 8,114,998 |
| 853922 | Filament lamps, of a power <= 200 Watt, > 100 volts | 7,578,067 |
| 820712 | Rock drilling or earth boring tools except carbide | 7,405,330 |
| 070610 | Carrots and turnips, fresh or chilled | 7,031,971 |
| 620443 | Women's, girls dresses, synthetic fibers, not knit | 6,814,896 |
| 390410 | Polyvinyl chloride in primary forms | 6,740,994 |
| 720449 | Ferrous waste or scrap, nes | 3,974,453 |
| 720842 | Hot rolled iron or non-alloy steel, flat, width >600mm, t >10mm, nes | 3,920,007 |
| 880212 | Helicopters of an unloaded weight > 2,000 kg | 3,335,082 |
| 860800 | Signals etc. for rail, tram, water-way, port, airfield | 2,778,159 |
| 220210 | Beverage waters, sweetened or flavored | 2,516,520 |
| 392330 | Plastic carboys, bottles and flasks, etc. | 1,623,476 |
| 010290 | Bovine animals, live, except pure-bred breeding | 1,525,654 |
| 040210 | Milk powder < 1.5% fat | 1,280,349 |
| 870190 | Wheeled tractors nes | 1,022,202 |
| 270900 | Petroleum oils, oils from bituminous minerals, crude | 879,427 |
| 842952 | Shovels and excavators with revolving superstructure | 851,491 |
| 240220 | Cigarettes containing tobacco | 822,846 |
| 841981 | Commercial equipment, hot drinks/cooking/heating food | 785,077 |
| 392330 | Plastic carboys, bottles and flasks, etc. | 752,858 |
| 070310 | Onions and shallots, fresh or chilled | 656,822 |
| 180631 | Chocolate, cocoa preps, block, slab, bar, filled, >2k | 639,527 |
| 270220 | Lignite, agglomerated | 618,689 |
| 110319 | Cereal groats or meal except wheat, maize, rice, oats | 487,854 |
| 842240 | Packing or wrapping machinery nes | 386,214 |
| 440710 | Lumber, coniferous (softwood) thickness < 6 mm | 376,691 |
| 870891 | Radiators for motor vehicles | 345,172 |
| 761510 | Aluminum table/kitchen/household articles, scourers | 341,343 |
| 853929 | Filament lamps, except ultraviolet or infra-red, nes | 323,274 |
| 870899 | Motor vehicle parts nes | 292,962 |
| 280540 | Mercury | 267,722 |
| 720429 | Waste or scrap, of alloy steel, other than stainless | 266,943 |
| 851610 | Electric instant, storage and immersion water heaters | 265,137 |
| 720241 | Ferro-chromium, >4% carbon | 258,052 |
| 880240 | Fixed wing aircraft, unladed weight > 15,000 kg | 257,741 |
| 940330 | Office furniture, wooden, nes | 255,243 |
| 811000 | Antimony, articles thereof, waste or scrap | 240,082 |
| 310559 | Fertilizers with nitrogen and phosphorus nes, <=10kg | 234,000 |
| 732620 | Articles of iron or steel wire, nes | 174,627 |
| 848330 | Bearing housings, shafts, without ball/roller bearing | 152,429 |
| 252400 | Asbestos | 143,027 |
| 410221 | Sheep or lamb skins, pickled, without wool | 142,267 |
| 410429 | Bovine and equine leather, tanned or retained, nes | 130,067 |
| 841111 | Turbo-jet engines of a thrust < 25 KN | 124,467 |

Source: United Nations, COMTRADE database.

Table A.6: Tajikistan - Top Exports to Intra- and Inter-Regional Markets, 2010-2013 average (6-digit HS92, million U.S. dollars)

| | Commodity Description | AVG 2010-2013 |
|---------------|---|---------------|
| 271000 | Oils petroleum, bituminous, distillates, except crude | 38,782,072 |
| 760110 | Aluminum unwrought, not alloyed | 14,793,711 |
| 081310 | Apricots, dried | 9,759,264 |
| 260800 | Zinc ores and concentrates | 9,046,206 |
| 260700 | Lead ores and concentrates | 8,291,932 |
| 520100 | Cotton, not carded or combed | 7,845,632 |
| 081350 | Mixtures of edible nuts, dried and preserved fruits | 7,679,121 |
| 070310 | Onions and shallots, fresh or chilled | 6,679,041 |
| 110100 | Wheat or meslin flour | 5,566,643 |
| 640320 | Footwear, soles/uppers leather, strap instep & big to | 2,299,771 |
| 261710 | Antimony ores and concentrates | 1,593,829 |
| 721631 | Sections, U, iron or non-alloy steel, nfw hot-roll/drawn/extruded > 80m | 1,568,495 |
| 180690 | Chocolate/cocoa food preparations nes | 1,542,453 |
| 620640 | Women's, girls blouses, shirts, manmade fiber, not knit | 1,387,743 |
| 080232 | Walnuts, fresh or dried, shelled | 1,248,865 |
| 870891 | Radiators for motor vehicles | 1,190,007 |
| 081320 | Prunes, dried | 1,164,091 |
| 081340 | Fruits, dried nes | 846,999 |
| 080610 | Grapes, fresh | 773,080 |
| 271121 | Natural gas in gaseous state | 753,242 |
| 847490 | Parts for mineral sort, screen, mix, etc. machines | 623,022 |
| 842920 | Graders and levelers, self-propelled | 502,700 |
| 130190 | Natural gum, resin, gum-resin, balsam, not gum Arabic | 495,713 |
| 240110 | Tobacco, unmanufactured, not stemmed or stripped | 493,615 |
| 720291 | Ferro-titanium and Ferro-silicon-titanium | 449,020 |
| 271600 | Electrical energy | 444,812 |
| 760120 | Aluminum unwrought, alloyed | 216,112 |
| 360200 | Prepared explosives, except propellant powders | 213,101 |
| 760511 | Wire, aluminum, not alloyed, t > 7mm | 187,170 |
| 391721 | Tube, pipe or hose, rigid, of polyethylene | 169,505 |
| 071331 | Urd, mung, black or green gram beans dried shelled | 146,751 |
| 841490 | Parts of vacuum pumps, compressors, fans, blowers, hoods | 134,182 |
| 240120 | Tobacco, unmanufactured, stemmed or stripped | 130,218 |
| 520542 | Cotton yarn >85% multiple combed 714-232 dtex, not ret | 124,991 |
| 760529 | Wire, aluminum alloy, t < 7mm | 118,960 |
| 780199 | Lead unwrought nes | 107,705 |
| 390410 | Polyvinyl chloride in primary forms | 100,532 |

Source: United Nations, COMTRADE database.

Table A.7: Turkmenistan - Top Exports to Intra- and Inter-Regional Markets, 2010-2013 average (6-digit HS92, million U.S. dollars)

| | Commodity Description | AVG 2010-2013 |
|---------------|---|---------------|
| 271000 | Oils petroleum, bituminous, distillates, except crude | 199,481,306 |
| 271121 | Natural gas in gaseous state | 174,093,615 |
| 520100 | Cotton, not carded or combed | 22,980,088 |
| 280120 | Iodine | 7,568,809 |
| 390210 | Polypropylene in primary forms | 2,731,398 |
| 890600 | Warships, lifeboats, hospital ships, vessels nes | 2,122,876 |
| 520819 | Woven cotton nes, >85% <200g/m2, unbleached | 1,516,870 |
| 870590 | Special purpose motor vehicles nes | 1,393,345 |
| 410210 | Sheep or lamb skins, raw, wool on, except Persian etc. | 1,060,965 |
| 070200 | Tomatoes, fresh or chilled | 963,028 |
| 180690 | Chocolate/cocoa food preparations nes | 865,187 |
| 151221 | Cotton-seed oil crude | 734,522 |
| 520525 | Cotton yarn >85% single combed <125 dtex, not retail | 713,618 |
| 151800 | Processed animal, vegetable oils, industrial preps ne | 635,510 |
| 080610 | Grapes, fresh | 618,104 |
| 151229 | Cotton-seed or fractions simply refined | 570,348 |
| 510119 | Greasy wool (other than shorn) not carded or combed | 562,255 |
| 901580 | Surveying, etc. instruments nes | 503,166 |
| 890400 | Tugs and pusher craft | 480,842 |
| 520511 | Cotton yarn >85% single uncombed >714 dtex, not retail | 473,377 |
| 848140 | Valves, safety or relief | 439,953 |
| 500200 | Raw silk (not thrown) | 399,462 |
| 847490 | Parts for mineral sort, screen, mix, etc. machines | 288,038 |
| 110100 | Wheat or meslin flour | 228,525 |
| 510129 | Degreased wool nes, not carded, combed or carbonized | 191,142 |
| 271119 | Petroleum gases & gaseous hydrocarbons nes, liquefied | 136,760 |
| 550130 | Filament tow of acrylic or mod acrylic | 127,340 |
| 140420 | Cotton linters | 125,607 |
| 841330 | Fuel, lubricating and cooling pumps for motor engines | 114,474 |
| 410221 | Sheep or lamb skins, pickled, without wool | 113,931 |
| 580810 | Braids in the piece | 97,728 |
| 871499 | Bicycle parts nes | 87,557 |
| 520522 | Cotton yarn >85% single combed 714-232 dtex, not retail | 81,902 |
| 071331 | Urd, mung, black or green gram beans dried shelled | 77,368 |
| 340120 | Soaps nes | 61,876 |
| 841480 | Air or gas compressors, hoods | 50,002 |
| 340119 | Soaps for purposes other than toilet soap, solid | 40,837 |
| 320300 | Coloring matter of vegetable or animal origin | 29,505 |
| 380810 | Insecticides, packaged for retail sale | 17,094 |

Source: United Nations, COMTRADE database.

Table A.8: Uzbekistan - Top Exports to Intra- and Inter-Regional Markets, 2010-2013 average (6-digit HS92, million U.S. dollars)

| | Commodity Description | AVG 2010-2013 |
|--------|---|---------------|
| 271000 | Oils petroleum, bituminous, distillates, except crude | 674,928,252 |
| 271121 | Natural gas in gaseous state | 245,863,083 |
| 870322 | Automobiles, spark ignition engine of 1000-1500 cc | 47,664,267 |
| 310230 | Ammonium nitrate, including solution, in pack >10 kg | 45,727,566 |
| 080610 | Grapes, fresh | 43,492,204 |
| 081090 | Fruits, fresh nes | 28,686,238 |
| 252329 | Portland cement, other than white cement | 23,689,772 |
| 071331 | Urd, mung, black or green gram beans dried shelled | 21,304,359 |
| 070200 | Tomatoes, fresh or chilled | 19,019,960 |
| 070700 | Cucumbers and gherkins, fresh or chilled | 15,524,792 |
| 570242 | Carpets of manmade yarn, woven pile, made up, nes | 15,094,030 |
| 080910 | Apricots, fresh | 15,046,731 |
| 710812 | Gold in unwrought forms non-monetary | 14,049,100 |
| 310210 | Urea, including aqueous solution in packs >10 kg | 13,321,466 |
| 740311 | Copper cathodes and sections of cathodes unwrought | 8,374,909 |
| 520100 | Cotton, not carded or combed | 7,439,443 |
| 180690 | Chocolate/cocoa food preparations nes | 7,145,506 |
| 110100 | Wheat or meslin flour | 5,398,443 |
| 310540 | Monoammonium phosphate & mix with diammonium, <=10 kg | 5,158,356 |
| 310420 | Potassium chloride, in packs >10 kg | 3,919,220 |
| 270400 | Coke, semi-coke of coal, lignite, peat & retort carbon | 3,912,710 |
| 130190 | Natural gum, resin, gum-resin, balsam, not gum Arabic | 2,998,929 |
| 640199 | Waterproof footwear(Wellington) no toe cap, nes | 2,405,605 |
| 790112 | Zinc, not alloyed, unwrought, <99% pure | 2,147,554 |
| 080920 | Cherries, fresh | 2,101,400 |
| 741012 | Foil, copper alloy, not backed, t < 0.15mm | 2,077,497 |
| 240220 | Cigarettes containing tobacco | 2,002,644 |
| 847490 | Parts for mineral sort, screen, mix, etc. machines | 1,995,903 |
| 680911 | Plaster board etc. not ornamental, paper reinforced | 1,986,050 |
| 270500 | Coal gas, water gas, etc. (not gaseous hydrocarbons) | 1,837,292 |
| 740921 | Plate/sheet/strip, copper-zinc alloy, colt > 0.15mm | 1,667,201 |
| 500200 | Raw silk (not thrown) | 1,610,357 |
| 870410 | Dump trucks designed for off-highway use | 1,568,890 |
| 844520 | Textile yarn spinning machines | 1,435,429 |
| 760900 | Aluminum pipe or tube fittings | 882,273 |
| 250310 | Sulphur, crude or unrefined | 398,590 |
| 310490 | Potassic fertilizers, mixes, nes, pack >10 kg | 383,611 |
| 550130 | Filament tow of acrylic or modacrylic | 291,116 |
| 410519 | Sheep or lamb skin leather, tanned or retanned, nes | 204,985 |
| 390110 | Polyethylene - specific gravity <0.94 in primary form | 161,877 |
| 550330 | Staple fibers of acrylic, modacrylic, not carded/combed | 95,806 |
| 500400 | Silk yarn (except from waste) not retail | 79,364 |
| 410619 | Goat or kid skin leather, tanned or retanned, nes | 64,514 |

Source: United Nations, COMTRADE database.

Table A.9: Total Trade (exports plus imports) with Central and South Trade as a Percent of Total Trade with World, 1995-2013

| TOTAL TRADE WITH SOUTH ASIA | | | | | | | | | | | | | | | | | | | |
|-------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
| South Asia (INTRA) | 0.5% | 0.8% | 0.7% | 1.1% | 0.9% | 1.0% | 1.0% | 1.0% | 1.4% | 1.5% | 1.8% | 2.1% | 2.1% | 2.0% | 1.7% | 1.7% | 1.2% | 1.3% | 1.5% |
| Afghanistan | 10.6% | 8.4% | 10.6% | 17.1% | 29.0% | 29.2% | 34.6% | 30.9% | 35.5% | 35.6% | 43.1% | 42.4% | 41.9% | 39.9% | 30.1% | 28.8% | 26.7% | 30.4% | 35.5% |
| India | 0.2% | 0.3% | 0.3% | 0.4% | 0.3% | 0.3% | 0.3% | 0.3% | 0.4% | 0.4% | 0.4% | 0.6% | 0.6% | 0.5% | 0.5% | 0.5% | 0.3% | 0.4% | 0.4% |
| Pakistan | 27.9% | 37.3% | 30.2% | 68.8% | 55.9% | 52.0% | 74.3% | 41.4% | 41.2% | 52.5% | 61.2% | 72.1% | 75.2% | 64.0% | 37.7% | 51.5% | 38.9% | 46.3% | 56.5% |
| Central Asia (INTER) | 0.7% | 0.5% | 0.5% | 0.6% | 0.9% | 0.6% | 0.5% | 0.5% | 0.5% | 0.5% | 0.6% | 0.7% | 0.6% | 0.8% | 0.8% | 0.8% | 0.7% | 0.8% | 0.8% |
| Kazakstan | 0.2% | 0.4% | 0.6% | 0.6% | 0.8% | 0.9% | 0.5% | 0.6% | 0.6% | 0.6% | 0.7% | 0.7% | 0.5% | 0.9% | 1.0% | 0.9% | 0.7% | 0.8% | 0.9% |
| Kyrgyzstan | 8.0% | 1.1% | 1.2% | 1.4% | 1.2% | 0.8% | 0.6% | 1.3% | 0.9% | 0.3% | 1.6% | 3.4% | 3.7% | 1.1% | 0.8% | 1.0% | 0.9% | 0.9% | 0.9% |
| Tajikistan | 0.3% | 0.8% | 0.2% | 0.2% | 0.3% | 0.2% | 2.8% | 2.6% | 0.6% | 0.7% | 0.8% | 1.1% | 1.2% | 3.2% | 3.1% | 3.9% | 2.7% | 3.1% | 3.2% |
| Turkmenistan | 2.0% | 1.6% | 1.6% | 1.7% | 2.4% | 1.2% | 0.7% | 1.0% | 1.6% | 2.2% | 2.3% | 2.7% | 2.7% | 2.2% | 2.4% | 3.2% | 2.4% | 2.1% | 1.9% |
| Uzbekistan | 0.3% | 0.3% | 0.3% | 0.4% | 0.7% | 0.2% | 0.2% | 0.2% | 0.2% | 0.2% | 0.2% | 0.2% | 0.1% | 0.2% | 0.2% | 0.1% | 0.2% | 0.2% | 0.2% |
| MEAN AVERAGE: | | | | | | | | | | | | | | | | | | | |
| INTRA: South Asia | 12.9% | 15.3% | 13.7% | 28.8% | 28.4% | 27.2% | 36.4% | 24.2% | 25.7% | 29.5% | 34.9% | 38.4% | 39.3% | 34.8% | 22.8% | 26.9% | 22.0% | 25.7% | 30.8% |
| INTER: Central Asia | 2.2% | 0.8% | 0.8% | 0.8% | 1.1% | 0.7% | 1.0% | 1.1% | 0.8% | 0.8% | 1.1% | 1.6% | 1.7% | 1.5% | 1.5% | 1.8% | 1.4% | 1.4% | 1.4% |
| TOTAL TRADE WITH CENTRAL ASIA | | | | | | | | | | | | | | | | | | | |
| South Asia (INTER) | 0.3% | 0.2% | 0.3% | 0.3% | 0.3% | 0.3% | 0.2% | 0.2% | 0.3% | 0.3% | 0.3% | 0.3% | 0.3% | 0.4% | 0.3% | 0.2% | 0.2% | 0.2% | 0.2% |
| Afghanistan | 14.8% | 4.5% | 5.5% | 5.8% | 10.6% | 15.0% | 7.9% | 6.9% | 8.3% | 10.4% | 10.7% | 12.0% | 12.3% | 16.8% | 10.4% | 9.0% | 8.0% | 9.0% | 10.1% |
| India | 0.1% | 0.0% | 0.1% | 0.1% | 0.1% | 0.1% | 0.1% | 0.1% | 0.1% | 0.1% | 0.1% | 0.1% | 0.1% | 0.1% | 0.1% | 0.1% | 0.1% | 0.1% | 0.1% |
| Pakistan | 10.2% | 10.8% | 11.3% | 12.8% | 16.3% | 4.5% | 4.2% | 2.3% | 1.1% | 2.0% | 1.4% | 1.1% | 1.3% | 1.3% | 0.2% | 0.7% | 0.6% | 0.7% | 0.9% |
| Central Asia (INTRA) | 9.0% | 8.2% | 7.8% | 7.2% | 6.9% | 5.0% | 4.8% | 4.0% | 3.5% | 3.6% | 3.3% | 3.3% | 4.2% | 3.8% | 4.2% | 4.2% | 4.0% | 4.6% | 4.7% |
| Kazakstan | 9.6% | 7.7% | 4.6% | 4.2% | 3.5% | 2.7% | 3.3% | 2.9% | 2.9% | 3.0% | 2.4% | 2.3% | 3.1% | 2.9% | 3.0% | 3.1% | 3.2% | 3.7% | 3.7% |
| Kyrgyzstan | 42.5% | 41.0% | 32.4% | 25.6% | 22.4% | 27.0% | 26.8% | 24.8% | 23.8% | 23.5% | 23.4% | 19.4% | 21.3% | 17.4% | 10.0% | 13.1% | 12.7% | 14.5% | 14.5% |
| Tajikistan | 30.9% | 36.0% | 34.8% | 35.6% | 41.1% | 28.9% | 30.4% | 23.8% | 21.8% | 21.6% | 21.7% | 17.9% | 19.0% | 13.4% | 16.6% | 13.0% | 11.4% | 15.4% | 15.4% |
| Turkmenistan | 7.0% | 3.3% | 13.4% | 8.9% | 4.2% | 3.0% | 3.7% | 2.7% | 2.9% | 3.5% | 2.9% | 3.9% | 4.2% | 4.4% | 4.2% | 4.4% | 3.4% | 3.5% | 3.5% |
| Uzbekistan | 5.5% | 4.9% | 5.1% | 4.9% | 5.3% | 4.2% | 3.5% | 2.6% | 2.0% | 2.2% | 2.3% | 2.7% | 3.7% | 3.5% | 4.0% | 3.9% | 3.5% | 3.8% | 4.2% |
| MEAN AVERAGE: | | | | | | | | | | | | | | | | | | | |
| INTRA: South Asia | 8.4% | 5.1% | 5.6% | 6.3% | 9.0% | 6.6% | 4.1% | 3.1% | 3.2% | 4.2% | 4.1% | 4.4% | 4.6% | 6.1% | 3.6% | 3.3% | 2.9% | 3.3% | 3.7% |
| INTRA: Central Asia | 19.1% | 18.6% | 18.1% | 15.8% | 15.3% | 13.1% | 13.5% | 11.4% | 10.7% | 10.7% | 10.5% | 9.2% | 10.3% | 8.3% | 7.5% | 7.5% | 6.9% | 8.2% | 8.2% |

Source: Based on data from IMF, Direction of Trade (DOT) database.

Table A.10: Trade Intensity Ratios: Total trade (exports plus imports) with Central and South Asia as a percent of total trade, 1995-2013

| TOTAL TRADE WITH SOUTH ASIA | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
| South Asia (INTRA) | | 0.8 | 1.2 | 1.0 | 1.6 | 1.2 | 1.3 | 1.4 | 1.2 | 1.5 | 1.5 | 1.6 | 1.7 | 1.5 | 1.4 | 1.0 | 0.9 | 0.6 | 0.6 | 0.7 |
| | Afghanistan | 16.4 | 12.8 | 15.2 | 24.2 | 39.0 | 40.1 | 45.6 | 36.0 | 39.0 | 36.8 | 37.3 | 33.9 | 29.6 | 27.5 | 17.3 | 14.7 | 12.2 | 13.7 | 16.3 |
| | India | 0.3 | 0.5 | 0.4 | 0.6 | 0.4 | 0.4 | 0.4 | 0.3 | 0.4 | 0.4 | 0.4 | 0.5 | 0.4 | 0.4 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 |
| | Pakistan | 43.1 | 56.8 | 43.6 | 97.4 | 75.3 | 71.3 | 98.0 | 48.3 | 45.2 | 54.3 | 52.9 | 57.6 | 53.0 | 44.1 | 21.6 | 26.3 | 17.7 | 20.8 | 26.0 |
| Central Asia (INTER) | | 1.0 | 0.8 | 0.7 | 0.8 | 1.2 | 0.8 | 0.6 | 0.6 | 0.6 | 0.5 | 0.5 | 0.6 | 0.4 | 0.6 | 0.5 | 0.4 | 0.3 | 0.3 | 0.4 |
| | Kazakstan | 0.4 | 0.6 | 0.9 | 0.8 | 1.1 | 1.3 | 0.6 | 0.7 | 0.7 | 0.6 | 0.6 | 0.5 | 0.4 | 0.6 | 0.6 | 0.5 | 0.3 | 0.4 | 0.4 |
| | Kyrgyzstan | 12.3 | 1.7 | 1.8 | 1.9 | 1.7 | 1.1 | 0.8 | 1.6 | 0.9 | 0.3 | 1.4 | 2.7 | 2.6 | 0.8 | 0.4 | 0.5 | 0.4 | 0.4 | 0.4 |
| | Tajikistan | 0.4 | 1.2 | 0.3 | 0.2 | 0.4 | 0.3 | 3.7 | 3.1 | 0.7 | 0.8 | 0.7 | 0.9 | 0.9 | 2.2 | 1.7 | 2.0 | 1.2 | 1.4 | 1.5 |
| | Turkmenistan | 3.0 | 2.4 | 2.4 | 2.4 | 3.2 | 1.6 | 0.9 | 1.1 | 1.8 | 2.2 | 2.0 | 2.2 | 1.9 | 1.5 | 1.4 | 1.6 | 1.1 | 0.9 | 0.9 |
| | Uzbekistan | 0.5 | 0.5 | 0.5 | 0.5 | 0.9 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| MEAN AVERAGE: | | | | | | | | | | | | | | | | | | | | |
| INTRA: South Asia | | 19.9 | 23.4 | 19.7 | 40.7 | 38.3 | 37.3 | 48.0 | 28.2 | 28.2 | 30.5 | 30.2 | 30.6 | 27.7 | 24.0 | 13.1 | 13.8 | 10.0 | 11.6 | 14.2 |
| INTER: Central Asia | | 3.3 | 1.3 | 1.2 | 1.2 | 1.4 | 0.9 | 1.3 | 1.3 | 0.9 | 0.8 | 1.0 | 1.3 | 1.2 | 1.1 | 0.8 | 0.9 | 0.6 | 0.6 | 0.7 |
| | | | | | | | | | | | | | | | | | | | | |
| TOTAL TRADE WITH CENTRAL ASIA | | | | | | | | | | | | | | | | | | | | |
| South Asia (INTER) | | 0.9 | 0.7 | 0.8 | 0.9 | 1.2 | 0.9 | 0.6 | 0.6 | 0.7 | 0.6 | 0.6 | 0.6 | 0.5 | 0.5 | 0.5 | 0.4 | 0.3 | 0.3 | 0.4 |
| | Afghanistan | 45.9 | 13.5 | 17.6 | 21.3 | 42.6 | 50.7 | 23.9 | 20.6 | 22.3 | 24.6 | 24.1 | 24.7 | 22.5 | 25.7 | 18.2 | 16.8 | 13.6 | 14.2 | 15.9 |
| | India | 0.2 | 0.1 | 0.3 | 0.4 | 0.4 | 0.4 | 0.3 | 0.3 | 0.4 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 |
| | Pakistan | 31.6 | 32.9 | 36.6 | 47.1 | 65.8 | 15.3 | 12.6 | 6.8 | 2.9 | 4.7 | 3.2 | 2.4 | 2.5 | 2.0 | 0.4 | 1.3 | 1.0 | 1.2 | 1.4 |
| Central Asia (INTRA) | | 27.8 | 24.9 | 25.3 | 26.3 | 28.0 | 16.9 | 14.7 | 11.8 | 9.5 | 8.5 | 7.3 | 6.9 | 7.7 | 5.8 | 7.4 | 7.9 | 6.9 | 7.2 | 7.4 |
| | Kazakstan | 29.8 | 23.5 | 15.0 | 15.3 | 14.1 | 9.0 | 9.9 | 8.5 | 7.9 | 7.1 | 5.3 | 4.8 | 5.6 | 4.4 | 5.2 | 5.9 | 5.5 | 5.9 | 5.8 |
| | Kyrgyzstan | 132.0 | 124.3 | 104.6 | 94.0 | 90.4 | 91.1 | 81.4 | 73.9 | 64.1 | 55.4 | 52.5 | 39.9 | 39.0 | 26.7 | 17.5 | 24.3 | 21.7 | 22.9 | 22.8 |
| | Tajikistan | 95.9 | 109.3 | 112.2 | 130.8 | 165.7 | 97.5 | 92.3 | 70.8 | 58.7 | 50.9 | 48.5 | 36.8 | 34.7 | 20.6 | 29.1 | 24.2 | 19.5 | 24.3 | 24.3 |
| | Turkmenistan | 21.7 | 10.1 | 43.1 | 32.7 | 16.9 | 10.2 | 11.1 | 7.9 | 7.9 | 8.2 | 6.6 | 8.0 | 7.7 | 6.8 | 7.4 | 8.1 | 5.8 | 5.5 | 5.4 |
| | Uzbekistan | 17.1 | 14.9 | 16.6 | 17.9 | 21.2 | 14.0 | 10.6 | 7.8 | 5.4 | 5.2 | 5.2 | 5.6 | 6.8 | 5.3 | 7.0 | 7.2 | 6.0 | 6.0 | 6.6 |
| MEAN AVERAGE: | | | | | | | | | | | | | | | | | | | | |
| INTER: South Asia | | 25.9 | 15.5 | 18.2 | 23.0 | 36.3 | 22.1 | 12.3 | 9.2 | 8.5 | 9.9 | 9.2 | 9.1 | 8.4 | 9.3 | 6.3 | 6.1 | 4.9 | 5.2 | 5.8 |
| INTRA: Central Asia | | 59.3 | 56.4 | 58.3 | 58.2 | 61.7 | 44.4 | 41.0 | 33.8 | 28.8 | 25.3 | 23.6 | 19.0 | 18.7 | 12.7 | 13.2 | 13.9 | 11.7 | 12.9 | 13.0 |

Note: For definition of trade intensity ratio, see Box 2.1 in text.

Source: Based on data from IMF, Direction of Trade (DOT) database.

Table A.11: Revealed Comparative Advantage of Central and South Asian countries, by 2-Digit HS Chapter

| Chapter | description | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan |
|---------|---|-------------|-------|----------|------------|------------|------------|--------------|------------|
| 01 | Live animals. | 1.63 | 0.22 | 1.22 | 0.03 | 5.59 | 1.39 | 0.00 | 1.43 |
| 02 | Meat and edible meat offal. | 0.91 | 0.79 | 10.89 | 0.15 | 4.72 | 0.02 | 0.00 | 0.04 |
| 03 | Fish & crustacean, mollusc & other aquatic invertebrate | 1.40 | 1.86 | 8.80 | 0.11 | 0.24 | 3.81 | 0.00 | 0.19 |
| 04 | Dairy prod; birds' eggs; natural honey; edible prod nes | 0.18 | 0.69 | 1.07 | 0.03 | 2.42 | 0.16 | 0.01 | 0.08 |
| 05 | Products of animal origin, nes or included. | 1.89 | 6.47 | 3.80 | 0.25 | 3.10 | 0.40 | 0.03 | 4.44 |
| 06 | Live tree & other plant; bulb, root; cut flowers etc | 0.27 | 0.91 | 0.12 | 0.08 | 0.44 | 0.03 | 0.00 | 3.65 |
| 07 | Edible vegetables and certain roots and tubers. | 14.56 | 1.34 | 1.40 | 0.06 | 11.67 | 4.75 | 0.10 | 8.51 |
| 08 | Edible fruit and nuts; peel of citrus fruit or melons. | 78.54 | 0.74 | 5.30 | 0.13 | 7.66 | 50.35 | 0.05 | 17.61 |
| 09 | Coffee, tea, mat- and spices. | 115.93 | 8.89 | 4.33 | 0.06 | 2.00 | 0.38 | 0.01 | 0.72 |
| 10 | Cereals. | 1.37 | 3.17 | 12.54 | 0.77 | 0.12 | 0.55 | 0.06 | 0.39 |
| 11 | Prod mill indust; malt; starches; inulin; wheat gluten | 6.22 | 1.08 | 3.03 | 2.97 | 2.08 | 3.26 | 0.10 | 0.47 |
| 12 | Oil seed, oleagi fruits; miscell grain, seed, fruit etc | 236.47 | 2.54 | 5.55 | 4.04 | 1.05 | 4.75 | 0.79 | 26.19 |
| 13 | Lac; gums, resins & other vegetable saps & extracts. | 205.45 | 12.76 | 3.59 | 0.17 | 0.17 | 22.43 | 53.89 | 7.44 |
| 14 | Vegetable plaiting materials; vegetable products nes | 18.72 | 3.00 | 3.41 | 1.07 | 0.15 | 1.76 | 48.23 | 40.57 |
| 15 | Animal/veg fats & oils & their cleavage products; etc | 0.92 | 1.72 | 0.86 | 7.24 | 0.37 | 0.51 | 13.09 | 0.28 |
| 16 | Prep of meat, fish or crustaceans, molluscs etc | 0.21 | 0.59 | 0.59 | 0.07 | 6.35 | 0.29 | 0.03 | 0.03 |
| 17 | Sugars and sugar confectionery. | 0.25 | 1.07 | 4.23 | 0.34 | 1.64 | 0.10 | 0.00 | 0.76 |
| 18 | Cocoa and cocoa preparations. | 0.01 | 0.05 | 0.01 | 0.08 | 1.01 | 0.26 | 0.04 | 0.19 |
| 19 | Prep of cereal, flour, starch/milk; pastrycooks' prod | 0.01 | 0.44 | 0.30 | 0.15 | 1.46 | 0.09 | 0.00 | 0.04 |
| 20 | Prep of vegetable, fruit, nuts or other parts of plants | 0.20 | 0.59 | 0.59 | 0.02 | 0.42 | 1.51 | 0.02 | 1.63 |
| 21 | Miscellaneous edible preparations. | 0.43 | 0.77 | 0.14 | 0.04 | 1.15 | 0.02 | 0.01 | 0.03 |
| 22 | Beverages, spirits and vinegar. | 0.04 | 0.18 | 3.65 | 0.08 | 0.48 | 0.03 | 0.00 | 1.22 |
| 23 | Residues & waste from the food indust; prep ani fodder | 0.29 | 2.39 | 1.35 | 1.26 | 0.04 | 0.00 | 55.09 | 0.76 |
| 24 | Tobacco and manufactured tobacco substitutes. | 1.55 | 1.65 | 0.63 | 0.17 | 6.51 | 1.05 | 0.01 | 3.06 |
| 25 | Salt; sulphur; earth & ston; plastering mat; lime & cem | 56.06 | 8.40 | 5.48 | 2.51 | 8.11 | 0.12 | 0.30 | 2.22 |
| 26 | Ores, slag and ash. | 1.74 | 0.86 | 4.87 | 2.63 | 8.33 | 95.51 | 0.12 | 0.25 |
| 27 | Mineral fuels, oils & product of their distillation;etc | 3.55 | 1.29 | 0.27 | 1.23 | 4.54 | 2.50 | 3.90 | 9.38 |
| 28 | Inorgn chem; compps of prec met, radioact elements etc | 2.95 | 1.41 | 0.40 | 3.25 | 2.05 | 0.78 | 1.55 | 6.55 |
| 29 | Organic chemicals. | 0.83 | 3.23 | 0.11 | 0.04 | 0.49 | 0.15 | 0.00 | 1.95 |
| 30 | Pharmaceutical products. | 1.11 | 1.78 | 1.07 | 0.02 | 0.04 | 0.06 | 0.00 | 0.12 |
| 31 | Fertilisers. | 0.07 | 0.07 | 0.02 | 0.30 | 4.29 | 0.02 | 0.10 | 7.02 |
| 32 | Tanning/dyeing extract; tannins & derivs; pigm etc | 1.35 | 2.63 | 0.25 | 0.03 | 0.21 | 0.04 | 0.01 | 0.07 |
| 33 | Essential oils & resinoids; perf, cosmetic/toilet prep | 0.34 | 4.43 | 0.10 | 0.04 | 0.03 | 0.14 | 0.00 | 0.01 |
| 34 | Soap, organic surface-active agents, washing prep, etc | 0.41 | 0.57 | 0.51 | 0.09 | 0.16 | 0.06 | 0.02 | 0.08 |
| 35 | Albuminoid subs; modified starches; glues; enzymes. | 0.04 | 0.77 | 0.31 | 0.02 | 0.39 | 0.10 | 0.00 | 0.00 |
| 36 | Explosives; pyrotechnic prod; matches; pyrop alloy; etc | 0.30 | 2.01 | 11.28 | 0.06 | | 0.93 | | 1.54 |
| 37 | Photographic or cinematographic goods. | 0.12 | 0.87 | 0.06 | 0.01 | 0.08 | 5.14 | 0.00 | 0.00 |
| 38 | Miscellaneous chemical products. | 0.28 | 0.98 | 0.09 | 0.02 | 0.18 | 0.12 | 0.03 | 0.19 |
| 39 | Plastics and articles thereof. | 0.51 | 0.55 | 0.54 | 0.04 | 0.39 | 0.40 | 0.20 | 0.34 |
| 40 | Rubber and articles thereof. | 0.32 | 1.27 | 0.31 | 0.06 | 0.46 | 0.32 | 0.01 | 0.02 |
| 41 | Raw hides and skins (other than furskins) and leather. | 63.36 | 1.51 | 12.47 | 0.23 | 15.51 | 8.08 | 0.95 | 6.58 |
| 42 | Articles of leather; saddlery/harness; travel goods etc | 0.11 | 2.35 | 12.60 | 0.02 | 0.06 | 0.01 | 0.00 | 0.01 |
| 43 | Furskins and artificial fur; manufactures thereof. | 592.71 | 0.06 | 1.00 | 0.05 | 4.55 | 0.09 | | 1.68 |
| 44 | Wood and articles of wood; wood charcoal. | 0.43 | 0.21 | 0.22 | 0.02 | 0.19 | 0.03 | 0.00 | 0.09 |
| 45 | Cork and articles of cork. | | 0.10 | 0.06 | 0.00 | 0.00 | | | |
| 46 | Manufactures of straw, esparto/other plaiting mat; etc | 0.36 | 0.11 | 0.14 | 0.00 | 0.01 | 0.00 | 0.00 | 0.09 |
| 47 | Pulp of wood/of other fibrous cellulosic mat; waste etc | 0.08 | 0.01 | 0.09 | 0.17 | 0.31 | | 0.01 | 13.93 |
| 48 | Paper & paperboard; art of paper pulp, paper/paperboard | 0.83 | 0.41 | 0.18 | 0.03 | 0.47 | 0.20 | 0.00 | 0.07 |
| 49 | Printed books, newspapers, pictures & other product etc | 0.21 | 1.05 | 0.08 | 0.64 | 0.06 | 0.09 | 0.02 | 0.05 |
| 50 | Silk. | 171.35 | 4.83 | 1.53 | 0.13 | 0.46 | 261.58 | 8.68 | 81.10 |
| 51 | Wool, fine/coarse animal hair, horsehair yarn & fabric | 75.32 | 1.08 | 9.01 | 1.18 | 10.29 | 11.28 | 11.82 | 14.35 |
| 52 | Cotton. | 4.29 | 5.27 | 82.11 | 0.45 | 1.50 | 9.42 | 6.14 | 22.67 |
| 53 | Other vegetable textile fibres; paper yarn & woven fab | 0.52 | 5.79 | 4.04 | 0.23 | 3.98 | 2.12 | 0.03 | 0.32 |
| 54 | Man-made filaments. | 0.43 | 3.26 | 1.57 | 0.13 | 1.07 | 0.45 | 0.01 | 0.13 |
| 55 | Man-made staple fibres. | 1.53 | 2.43 | 18.92 | 0.06 | 4.68 | 3.35 | 0.23 | 1.26 |
| 56 | Wadding, felt & nonwoven; yarns; twine, cordage, etc | 1.35 | 2.04 | 3.95 | 0.02 | 0.28 | 0.30 | 0.82 | 2.53 |
| 57 | Carpets and other textile floor coverings. | 16.48 | 10.47 | 5.07 | 0.01 | 0.33 | 0.20 | 0.07 | 2.71 |
| 58 | Special woven fab; tufted tex fab; lace; tapestries etc | 1.99 | 2.33 | 7.75 | 0.13 | 5.98 | 3.66 | 21.76 | 1.32 |
| 59 | Impregnated, coated, cover/laminated textile fabric etc | 10.03 | 0.88 | 0.49 | 0.02 | 0.14 | 0.16 | 0.03 | 0.37 |
| 60 | Knitted or crocheted fabrics. | 0.22 | 0.84 | 0.95 | 0.00 | 0.40 | 3.53 | 1.13 | 11.94 |
| 61 | Art of apparel & clothing access, knitted or crocheted. | 0.25 | 3.50 | 30.10 | 0.05 | 2.87 | 0.39 | 0.04 | 1.79 |
| 62 | Art of apparel & clothing access, not knitted/crocheted | 0.09 | 3.51 | 10.07 | 0.02 | 3.82 | 0.66 | 0.10 | 0.35 |
| 63 | Other made up textile articles; sets; worn clothing etc | 1.00 | 7.22 | 65.21 | 0.02 | 0.78 | 0.15 | 0.73 | 0.41 |
| 64 | Footwear, gaiters and the like; parts of such articles. | 1.03 | 3.11 | 1.95 | 0.04 | 0.22 | 4.18 | 0.02 | 2.41 |
| 65 | Headgear and parts thereof. | 0.23 | 0.95 | 0.31 | 0.01 | 0.81 | 0.05 | 0.00 | 0.37 |
| 66 | Umbrellas, walking-sticks, seat-sticks, whips, etc | 0.01 | 0.08 | 0.19 | 0.01 | 0.06 | 0.00 | 0.00 | 0.00 |
| 67 | Prepr feathers & down; arti flower; articles human hair | 0.04 | 3.41 | 0.00 | 0.00 | 0.06 | 0.30 | | 0.67 |
| 68 | Art of stone, plaster, cement, asbestos, mica/sim mat | 1.33 | 2.10 | 0.92 | 0.40 | 8.90 | 0.08 | 0.02 | 1.70 |
| 69 | Ceramic products. | 0.16 | 0.97 | 0.33 | 0.01 | 0.74 | 0.02 | 0.01 | 1.35 |
| 70 | Glass and glassware. | 0.29 | 0.85 | 0.16 | 0.01 | 1.38 | 1.58 | 0.02 | 0.29 |
| 71 | Natural/cultured pearls, prec stones & metals, coin etc | 3.98 | 4.76 | 0.98 | 2.67 | 2.26 | 0.68 | 1.18 | 1.55 |
| 72 | Iron and steel. | 3.05 | 1.67 | 0.50 | 4.97 | 1.87 | 1.71 | 0.02 | 0.24 |
| 73 | Articles of iron or steel. | 0.24 | 1.63 | 0.54 | 0.16 | 0.33 | 0.23 | 0.02 | 0.06 |
| 74 | Copper and articles thereof. | 0.20 | 0.82 | 1.66 | 1.27 | 0.46 | 0.92 | 0.02 | 3.35 |
| 75 | Nickel and articles thereof. | 0.11 | 0.90 | 0.06 | 0.03 | 0.44 | | | 0.22 |
| 76 | Aluminium and articles thereof. | 0.55 | 1.04 | 0.19 | 0.25 | 0.16 | 17.33 | 0.06 | 0.41 |
| 78 | Lead and articles thereof. | 1.57 | 1.17 | 0.63 | 2.63 | 4.14 | 1.52 | | 0.94 |
| 79 | Zinc and articles thereof. | 0.00 | 1.02 | 0.08 | 3.37 | 0.00 | 0.00 | | 34.87 |
| 80 | Tin and articles thereof. | 1.54 | 0.22 | 0.22 | 0.05 | 0.52 | | | |
| 81 | Other base metals; cermets; articles thereof. | 0.48 | 0.33 | 0.03 | 17.49 | 0.13 | 0.49 | | 18.77 |
| 82 | Tool, implement, cutlery, spoon & fork, of base met etc | 0.29 | 1.05 | 1.58 | 0.03 | 0.85 | 0.07 | 0.01 | 0.02 |
| 83 | Miscellaneous articles of base metal. | 0.63 | 0.49 | 0.04 | 0.03 | 0.29 | 0.02 | 0.01 | 0.03 |
| 84 | Nuclear reactors, boilers, mchy & mech appliance; parts | 1.18 | 0.58 | 0.21 | 0.05 | 0.43 | 0.22 | 0.07 | 0.17 |
| 85 | Electrical mchy equip parts thereof; sound recorder etc | 0.58 | 0.48 | 0.05 | 0.04 | 0.93 | 0.15 | 0.02 | 0.31 |
| 86 | Railw/tramw locom, rolling-stock & parts thereof; etc | 1.60 | 0.38 | 0.14 | 0.46 | 2.76 | 0.07 | 0.36 | 1.86 |
| 87 | Vehicles o/t railw/tramw roll-stock, pts & accessories | 0.67 | 0.88 | 0.09 | 0.06 | 0.99 | 0.15 | 0.09 | 1.08 |
| 88 | Aircraft, spacecraft, and parts thereof. | 0.09 | 1.93 | 0.05 | 0.00 | | 0.01 | | |
| 89 | Ships, boats and floating structures. | 1.24 | 4.53 | 0.60 | 0.48 | 0.33 | 0.09 | 0.21 | 0.34 |
| 90 | Optical, photo, cine, meas, checking, precision, etc | 0.43 | 0.34 | 0.10 | 0.02 | 0.33 | 1.33 | 0.03 | 0.08 |
| 91 | Clocks and watches and parts thereof. | 0.07 | 0.47 | 0.04 | 0.09 | 0.29 | 0.58 | 0.07 | 0.09 |
| 92 | Musical instruments; parts and access of such articles | 0.48 | 0.22 | 0.51 | 0.00 | 0.01 | 0.01 | 0.51 | 0.01 |
| 93 | Arms and ammunition; parts and accessories thereof. | 1.36 | 0.69 | 0.74 | | | 0.13 | | 0.05 |
| 94 | Furniture; bedding, mattress, matt support, cushion etc | 0.04 | 0.43 | 0.25 | 0.01 | 0.22 | 0.02 | 0.00 | 0.03 |
| 95 | Toys, games & sports requisites; parts & access thereof | 0.14 | 0.29 | 4.11 | 0.01 | 0.12 | 0.05 | 0.00 | 0.04 |
| 96 | Miscellaneous manufactured articles. | 0.42 | 1.11 | 0.58 | 0.00 | 0.81 | 0.82 | 0.03 | 3.53 |
| 97 | Works of art, collectors' pieces and antiques. | 4.35 | 3.26 | 0.41 | 0.00 | 0.02 | 0.37 | 0.07 | 0.18 |

Table A.12: Exports of Afghanistan by Size of Exports (HS 6-digit category and U.S. dollars)

| A.12. Exports of Afghanistan by Size of Exports (15 <= eight category and 0.5 <= dollars) | | | | | | | | | | | |
|---|---------------------|----------|-----------------------------------|-----------------|----------------|---------------|---------------|-------------|---------------|---------------|-----------------|
| Commodity Description | Afghanistan Exports | | Imports of Central and South Asia | | | | | | | | |
| | AVG 2010-13 | 2004-13% | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan | TOTAL |
| TOTAL | 1,035,791,742 | | 3,922,812,505 | 149,422,979,326 | 30,225,903,290 | 7,172,912,408 | 2,497,120,990 | 811,191,243 | 1,657,162,170 | 2,103,643,937 | 194,062,648,477 |
| LARGE-SIZE EXPORTS (> \$4.5 MILLION) | | | | | | | | | | | |
| 520100 Cotton, not carded or combed | 71,972,532 | 1.18 | 1,092,369 | 3,630,615,645 | 715,678,311 | 4,011,272 | 271,057 | 83,723 | 23,387 | 782,996 | 4,352,558,758 |
| 720449 Ferrous waste or scrap, nes | 45,316,969 | 3.37 | 1,097,021 | 696,267 | 340,039,501 | 2,900,649 | 2,626 | 409,714 | 19,112 | 53,729,270 | 398,894,161 |
| 080420 Figs, fresh or dried | 40,043,780 | 0.99 | 67,132 | 158,725 | 74,076 | 553,164 | 31,803 | 3,300 | 38,981 | 3,650 | 930,832 |
| 080620 Grapes, dried | 38,282,764 | 0.24 | 95,052 | 28,552,186 | 139,549 | 7,187,931 | 43,512 | 113,446 | 45,047 | 47,192 | 36,223,913 |
| 270119 Coal except anthracite or bituminous, not agglomerate | 38,037,566 | | 215,972 | 152,314,587 | 467,962,062 | 1,277,625 | 37,885,951 | 263,007 | - | 3,126,534 | 663,045,737 |
| 130190 Natural gum, resin, gum-resin, balsam, not gum arabic | 35,416,664 | 0.25 | 344,047 | 121,148,807 | 2,543,537 | 305,963 | 26,092 | - | 6,853 | 15,998 | 124,391,291 |
| 080250 Pistachios, fresh or dried | 15,339,074 | 0.26 | 3,911,666 | 285,115 | 1,652,117 | 4,415,782 | 754,119 | 9,264,817 | 1,149,291 | 1,606,183 | 23,039,088 |
| 430130 Raw Persian and similar lamb furskins, whole | 13,103,149 | 0.15 | - | 866 | 41,957 | - | - | - | - | 17,538 | - |
| 840734 Engines, spark-ignition reciprocating, over 1000 cc | 12,789,418 | | 8,807,480 | 50,274,513 | 1,042,722 | 25,823,402 | 1,159,834 | 107,099 | 889,703 | 110,204,766 | 198,309,520 |
| 080610 Grapes, fresh | 12,645,405 | 0.24 | 226,963 | 126,246,572 | 15,259,770 | 51,238,714 | 723,589 | 46,714 | 25,306 | 35,664 | 193,803,290 |
| 070310 Onions and shallots, fresh or chilled | 11,790,779 | 0.59 | 2,519,178 | 432,756,655 | 30,054,389 | 13,454,790 | 46,260 | 414,977 | 4,154,036 | 2,115,098 | 485,515,381 |
| 252610 Natural steatite, not crushed or powdered | 9,645,120 | 1.50 | 16,919 | 5,581,813 | 11,201,493 | 880 | 121 | - | 2,050 | 1,792 | - |
| 121190 Plants & parts, pharmacy, perfume, insecticide use ne | 9,101,912 | 2.09 | 344,146 | 175,626,980 | 6,196,609 | 1,328,012 | 60,492 | 1,968 | 32,692 | 557,329 | 184,148,227 |
| 080212 Almonds,fresh or dried, shelled | 8,055,129 | 0.62 | 72,941 | 686,717 | 4,420,521 | 3,621,511 | 6,428 | 1,073 | 416,443 | 406 | 9,226,040 |
| 570110 Carpets of wool or fine animal hair, knotted | 7,796,236 | 0.05 | 3,053,196 | 275,201,344 | 2,724,348 | 410,613 | 5,162 | 519,471 | 1,320,370 | 57,576 | 283,292,079 |
| 880212 Helicopters of an unladen weight > 2,000 kg | 7,294,676 | - | 17,375,981 | 19,594,796 | 14,604,561 | 31,868,448 | 6,504,537 | - | 61,443,465 | - | 151,391,787 |
| 081310 Apricots, dried | 7,284,341 | 0.49 | 3,999 | 28,779 | 38,636 | 13,935,683 | 4,962 | 31,315 | 363,682 | 1,700 | 14,408,754 |
| 071339 Beans dried, shelled, nes | 5,276,390 | | 161,863 | 881,456 | 12,929,983 | 3,031,935 | 1,773 | 490 | 17,939 | 484 | 17,025,922 |
| 080810 Apples, fresh | 4,985,227 | 0.57 | 3,527,950 | 12,968,673 | 6,498,763 | 59,960,348 | 4,104,575 | 1,952,269 | 12,568,639 | 79,478 | 101,660,694 |
| 120740 Sesamum seeds | 4,950,765 | 0.51 | 576,844 | 542,328,736 | 48,294 | 565,684 | 6,975 | 87 | 6,659 | 26,714 | 543,559,992 |
| 070190 Potatoes, fresh or chilled except seed | 4,751,568 | | 59,318,934 | 28,537,259 | 456,530 | 22,612,066 | 76,380 | 288,178 | 11,356,426 | 816,286 | 123,462,058 |
| 710391 Rubies, sapphires and emeralds worked but not set | 4,545,806 | | 105,250 | 235,690,046 | 166 | 30,760 | - | - | - | - | - |
| 081090 Fruits, fresh nes | 4,533,581 | 0.27 | 6,701,169 | 49,537,790 | 3,433,218 | 38,457,755 | 110,716 | 107,134 | 956,244 | 330,712 | 99,634,737 |
| SUB-TOTAL | 412,958,848 | | 109,636,069 | 5,889,714,323 | 1,637,041,114 | 286,992,985 | 51,826,959 | 13,608,778 | 94,836,323 | 173,557,364 | 8,004,522,265 |
| Commodity Description | Afghanistan Exports | | Imports of Central and South Asia | | | | | | | | |
| | AVG 2010-13 | 2004-13% | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan | TOTAL |
| MEDIUM-SIZE EXPORTS (\$4.5 MILLION > x > \$1.5 MILLION) | | | | | | | | | | | |
| 510210 Fine animal hair, not carded or combed | 3,899,289 | 0.03 | 11,961 | 22,901 | - | 13,004 | 152,600 | - | 397 | - | - |
| 071331 Urd,mung,black or green gram beans dried shelled | 3,894,111 | | 84,558 | 1,199,588 | 707,665 | 22,360 | 445 | - | - | - | 2,014,615 |
| 091020 Saffron | 3,037,073 | 3.28 | 6,215 | 1,766,969 | 10,451 | 7,730 | 38 | - | 28,800 | - | - |
| 410210 Sheep or lamb skins, raw, wool on, except Persian etc | 2,938,571 | 0.55 | 38,910 | 38,696 | 34,167,616 | 72,979 | 259,526 | 18,164 | - | 4,800 | 34,600,690 |
| 080910 Apricots, fresh | 2,935,150 | | 815 | 43,605 | 3,145,645 | 22,292,787 | 1,229,773 | - | 10,623 | 12,481 | 26,735,729 |
| 720299 Ferro-alloys, nes | 2,813,393 | - | - | 29,032,628 | 46,948 | 490,616 | 14,294 | 27,685 | 5,700 | 29,437 | 29,647,308 |
| 970600 Antiques older than one hundred years | 2,672,073 | 2.67 | - | 2,959,214 | 36,035,249 | 28,030 | - | 19,198 | 2,485 | - | - |
| 080211 Almonds in shell fresh or dried | 2,665,716 | 0.40 | 78,958 | 1,452,009 | 5,023,804 | 814,973 | 63,384 | - | 32,162 | 300 | 7,465,591 |
| 841191 Parts of turbo-jet or turbo-propeller engines | 2,403,193 | | 3,364,984 | 7,960,008 | 141,341 | 2,716,243 | 15,743 | 111,485 | 351,558 | 968,299 | 15,629,661 |
| 841122 Turbo-propeller engines of a power > 1100 kW | 2,366,910 | | 7,548,905 | 1,512,447 | 22,290 | 2,979,052 | 235,921 | - | 2,452 | 882,559 | 13,183,626 |
| 440399 Logs, non-coniferous nes | 2,350,548 | 0.19 | - | 1,657,569 | 7,855,076 | 558,031 | 39,642 | 154,944 | 15,733 | 1,732,405 | 12,013,399 |
| 850790 Parts of electric accumulators, including separators | 2,279,910 | | 474,779 | 12,397,165 | 2,588,055 | 2,720,492 | 31,893 | 44,339 | 211,018 | 1,879,185 | 20,346,926 |
| 902830 Electricity supply, production and calibrating meters | 2,238,682 | | 2,231,179 | 69,581,051 | 1,500,489 | 10,087,626 | 1,601,545 | 1,717,231 | 478,400 | 10,112,987 | 97,310,507 |
| 740400 Copper/copper alloy waste or scrap | 2,220,835 | | 100,701 | 37,944,824 | 4,180,705 | 1,527,784 | 833,227 | 319 | - | 3,547 | 44,591,105 |
| 871000 Tanks and other armoured fighting vehicles | 2,173,667 | | 80,462,100 | 30,851,638 | 67,053 | - | 176,231 | - | - | - | 111,557,022 |
| 090940 Caraway seeds | 2,042,425 | 0.20 | 682 | 1,265,715 | 549,671 | 33,848 | 38,781 | 277 | 464 | 36,110 | 1,925,548 |
| 320710 Pigment, opacifier, colours etc for ceramics or glass | 2,032,530 | - | 2,968 | 18,253,773 | 2,083,494 | 823,272 | 15,210 | 45 | 61,202 | 857,406 | 22,097,369 |
| 070200 Tomatoes, fresh or chilled | 1,952,160 | 3.93 | 8,038,656 | 58,534,805 | 108,171,862 | 38,401,362 | 232,038 | 11,684 | 138,933 | 4,000 | 213,533,339 |
| 090910 Anise or badian seeds | 1,900,873 | | 2,241 | 8,355,460 | 1,061,845 | 26,993 | 104 | 30 | 160 | 4,414 | 9,451,247 |
| 410121 Bovine hides, whole, fresh or wet-salted | 1,821,009 | 0.56 | 77,176 | 1,089,198 | 5,868,419 | 9,641 | 1,560,531 | 35,981 | - | - | 8,640,944 |
| 890520 Floating, submersible drilling or production platform | 1,773,291 | - | - | 1,121,812,729 | 419,937 | 36,785,721 | - | - | 356,445,333 | - | - |
| 710310 Precious, semi-precious stones unworked, partly worke | 1,740,270 | | 200 | 37,428,623 | 350,351 | 986,017 | 34,749 | - | 418 | 166,157 | - |
| 550320 Staple fibres of polyesters, not carded or combed | 1,737,067 | - | 129,833 | 277,470,866 | 176,503,615 | 2,713,068 | 35,679 | 30,185 | 246,808 | 3,033,012 | 460,163,065 |
| 121299 Vegetable products nes for human consumption | 1,719,001 | 0.09 | 29,280 | 1,015,854 | 58,132 | 357,789 | 6,375 | 183,646 | 5,143 | 2,497 | 1,704,715 |
| 390110 Polyethylene - specific gravity <0.94 in primary form | 1,660,510 | | 449,954 | 46,648,013 | 221,461,187 | 32,171,009 | 3,236,217 | 684,633 | 1,243,298 | 7,116,363 | 313,010,674 |
| 480252 Paper, fine, woodfree, 40 - 150 g/m2, uncoated | 1,565,014 | | 1,415,331 | 155,141,692 | 29,524,365 | 61,379,290 | 6,030,507 | 2,589,145 | 3,719,105 | 30,710,750 | 290,510,184 |
| SUB-TOTAL | 60,833,269 | | 104,550,384 | 1,925,437,037 | 641,545,263 | 218,019,716 | 15,844,451 | 5,628,988 | 363,046,191 | 57,556,708 | 1,736,133,262 |

(Continued)

Table A.12: Exports of Afghanistan by Size of Exports (HS 6-digit category and U.S. dollars) – Continued

| | | Afghanistan Exports | | Imports of Central and South Asia | | | | | | | | |
|--|---|---------------------|----------|-----------------------------------|----------------|----------------|---------------|---------------|-------------|--------------|-------------|----------------|
| | Commodity Description | AVG 2010-13 | 2004-13% | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan | TOTAL |
| SMALL-SIZE EXPORTS (\$1.5 MILLION > x > \$750,000) | | | | | | | | | | | | |
| 844240 | Parts of machinery for print preparation | 1,492,756 | - | 332,308 | 388,643 | 253,261 | 106,456 | 13,729 | 2,707 | 24,217 | 78,415 | 1,199,737 |
| 080410 | Dates, fresh or dried | 1,458,085 | | 6,704,065 | 2,210,802 | 4,129,610 | 3,328,907 | 377,494 | 811,241 | 232,360 | 110,093 | 17,904,570 |
| 071340 | Lentils dried, shelled | 1,425,644 | 3.15 | 425,505 | 600,495 | 47,680,789 | 439,036 | 99,741 | 589,158 | 416,497 | 113,550 | 50,364,771 |
| 080710 | Melons (including watermelons), fresh | 1,418,386 | 0.20 | 2,051,928 | 4,715,439 | 1,606,684 | 15,103,900 | 16,945 | - | 80,013 | 8,222 | 23,583,130 |
| 852610 | Radar apparatus | 1,337,652 | 0.33 | 12,877,674 | 5,543,478 | 33,261 | 13,619,242 | 431,530 | 634,059 | 12,808,591 | 2,275,288 | 48,223,122 |
| 210110 | Coffee extracts, essences, concentrates, preparations | 1,336,247 | 3.12 | 718,824 | 237,732,802 | 1,381,915 | 29,048,469 | 6,355,415 | 2,174,606 | 9,916,776 | 8,021,198 | 295,350,003 |
| 340213 | Non-ionic surface active agents | 1,314,599 | | 59,498 | 80,957,544 | 25,724,994 | 8,080,229 | 47,543 | 138,753 | 846,858 | 1,589,066 | 117,444,485 |
| 284700 | Hydrogen peroxide | 1,300,378 | | 9,853 | 989,897 | 5,587,836 | 9,361,113 | 73,547 | 51,639 | 479,810 | 2,030,102 | 18,583,797 |
| 842490 | Parts for sprays and powder dispersers | 1,260,317 | | 753,100 | 42,196,954 | 3,802,012 | 11,992,810 | 303,843 | 104,523 | 1,143,900 | 3,302,018 | 63,599,160 |
| 852110 | Video recording/reproducing apparatus, magnetic tape | 1,249,266 | | 5,306,276 | 13,375,066 | 3,749,832 | 36,340,115 | 14,639 | 2,135,693 | 1,909,667 | 1,151,414 | 63,982,701 |
| 120799 | Oil seeds and oleaginous fruits, nes | 1,218,053 | 3.95 | 5,343 | 25,560,552 | 213,170 | 67,159 | 193,224 | 68,092 | 54,701 | 488,169 | 26,650,410 |
| 880330 | Aircraft parts nes | 1,193,204 | 1.52 | 83,243,249 | 1,384,169,865 | 16,932,886 | 32,869,775 | 1,654,456 | 1,361,744 | 4,188,079 | 3,250,452 | 1,527,670,505 |
| 120999 | Seed, fruits and spores for sowing, nes | 1,189,897 | | 140,294 | 18,052,006 | 7,636,144 | 691,356 | 61,658 | 41,823 | 88,122 | 1,247,723 | 27,959,126 |
| 010290 | Bovine animals, live, except pure-bred breeding | 1,152,731 | - | 8,229,300 | 7,410 | 3,013,340 | 678,727 | - | 1,525,654 | - | 755,009 | - |
| 071390 | Leguminous vegetables dried, shelled | 1,015,602 | 0.64 | 61,701 | 3,378,987 | 35,895,226 | 533,872 | 2,780 | - | 4,964 | - | 39,877,529 |
| 380810 | Insecticides, packaged for retail sale | 994,108 | 0.80 | 1,472,720 | 727,341,648 | 58,539,471 | 17,377,868 | 3,025,049 | 212,203 | 3,271,630 | 4,268,801 | 815,509,387 |
| 760820 | Tubes and pipe, aluminium alloy | 993,273 | | 705,758 | 4,070,802 | 1,057,599 | 1,116,675 | 576,519 | 59,473 | 332,663 | 759,230 | 8,678,719 |
| 300310 | Penicillins or streptomycins and derivatives, in bulk | 990,857 | (0.06) | 938,081 | 36,818,386 | 407,826 | 34,260 | 46,001 | 79,654 | 34,842 | 69,416 | 38,428,465 |
| 081350 | Mixtures of edible nuts, dried and preserved fruits | 980,384 | 0.88 | 131,290 | 450,661 | 1,164,425 | 21,159,957 | 19,508 | 18,587 | 1,429 | 119 | 22,945,976 |
| 842839 | Continuous action elevators or conveyors for goods ne | 929,038 | | 534,151 | 4,732,066 | 6,036,726 | 13,848,168 | 1,100,458 | 690,581 | 2,756,028 | 8,946,756 | 38,644,934 |
| 293627 | Vitamin C, derivatives, unmixed | 886,646 | - | 48,497 | 1,658,765 | 5,284,434 | 339,513 | 147,348 | 5,757 | 10,146 | 92,188 | 7,586,647 |
| 830260 | Door closures, automatic, of base metal | 886,646 | | 109,070 | 846,656 | 711,622 | 1,228,803 | 29,312 | 22,621 | 155,973 | 66,872 | 3,170,928 |
| 843149 | Parts of cranes, work-trucks, shovels, constr machine | 884,538 | | 2,583,920 | 236,633,360 | 27,206,403 | 42,558,960 | 17,616,166 | 2,315,281 | 13,188,649 | 8,981,637 | 351,084,375 |
| 720410 | Waste or scrap, of cast iron | 844,183 | 1.19 | 5,377 | 554,074 | 834,329 | 19,900 | - | - | 1,723 | 1,809 | 1,417,212 |
| 081340 | Fruits, dried nes | 813,318 | 0.32 | 685,146 | 17,876,445 | 4,902,220 | 6,509,199 | 3,333 | 1,806 | 46,928 | 5,525 | 30,030,600 |
| | SUB-TOTAL | 28,565,806 | | 128,132,926 | 2,850,862,799 | 263,786,014 | 266,454,465 | 32,210,237 | 13,045,654 | 51,994,562 | 47,613,067 | 3,639,890,287 |
| | | Afghanistan Exports | | Imports of Central and South Asia | | | | | | | | |
| | Commodity Description | AVG 2010-13 | 2004-13% | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan | TOTAL |
| EMERGING EXPORTS (< x < \$750,000) | | | | | | | | | | | | |
| 580410 | Tulles, other nets (not woven, knit or crochet) | 749,144 | | 871,126 | 1,934,231 | 140,840 | 4,498,504 | 466,980 | 169,790 | 184,093 | 1,022,604 | 9,288,167 |
| 852520 | Transmit-receive apparatus for radio, TV, etc. | 724,432 | 0.82 | 23,809,210 | 2,483,267,961 | 662,500,861 | 329,917,745 | 37,906,706 | 1,508,544 | 2,761,654 | 10,867,946 | 3,552,540,628 |
| 570210 | Hand made rugs including Kelem,Schumacks,Karamanie,et | 683,383 | 0.19 | 57,009 | 21,377,237 | 236,930 | 32,030 | 230 | 1,426 | 19,342 | 3,734 | 21,727,937 |
| 300490 | Medicaments nes, in dosage | 669,518 | 1.75 | 68,980,267 | 6,061,804,282 | 228,831,001 | 733,057,931 | 124,639,081 | 35,640,189 | 60,670,714 | 325,526,259 | 7,639,149,722 |
| 251511 | Marble and travertine, crude or roughly trimmed | 669,452 | 0.89 | 67,759 | 218,195 | 362,543 | 859,687 | 9,013 | 16,360 | 409,931 | 71,707 | 2,015,194 |
| 852530 | Television cameras | 666,183 | | 5,699,236 | 11,789,089 | 4,912,601 | 55,007,712 | 989,779 | 232,476 | 3,296,609 | 2,287,460 | 84,214,961 |
| 730890 | Structures and parts of structures, iron or steel, ne | 666,018 | 3.18 | 77,698,994 | 322,793,020 | 44,599,270 | 242,663,610 | 9,533,548 | 15,283,081 | 171,275,123 | 23,513,896 | 907,360,542 |
| 130213 | Hop extract | 654,741 | - | 96,221 | 7,816 | 289 | 881,828 | 2,905 | 2,111 | - | 129,082 | 1,120,251 |
| 841121 | Turbo-propeller engines of a power < 1100 kW | 643,614 | 2.24 | 3,742,278 | 13,985 | 3,045,928 | 5,953,184 | - | - | - | - | - |
| 510220 | Coarse animal hair, not carded or combed | 624,508 | 1.68 | 139,819 | 159,402 | - | 67,536 | 20,000 | - | - | - | - |
| 271000 | Oils petroleum, bituminous, distillates, except crude | 616,391 | | 1,329,822,185 | 52,772,861,114 | 9,398,675,314 | 1,219,891,358 | 929,421,199 | 283,335,662 | 45,941,852 | 327,960,777 | 66,307,909,461 |
| 930690 | Munitions of war, ammunition/projectiles and parts | 610,623 | - | 4,099,926 | 1,426,212 | 715,492 | - | - | 38,581 | 402,847 | - | 6,683,057 |
| 110220 | Maize (corn) flour | 609,499 | | 71,550 | 847,643 | 44,695 | 38,654 | 8,217 | 3,779 | 4,904 | 538 | 1,019,980 |
| 151190 | Palm oil or fractions simply refined | 608,723 | - | 54,791,258 | 564,402 | 1,609,730,827 | 12,229,539 | 2,890,270 | 1,516,394 | 1,067,544 | 14,681,590 | 1,697,471,823 |
| 730830 | Doors, windows, frames of iron or steel | 601,998 | 2.61 | 5,025,766 | 7,732,913 | 2,060,574 | 28,163,326 | 9,586,854 | 20,641,622 | 9,793,195 | 3,244,333 | 86,248,583 |
| 843920 | Machinery for making paper or paperboard | 595,766 | - | 20,698 | 3,479,973 | 9,796,482 | 5,294,107 | 69,508 | 158,601 | 53,908 | 1,439,123 | 20,312,398 |
| 860900 | Cargo containers designed for carriage | 593,264 | | 8,142,628 | 20,805,890 | 1,803,107 | 26,974,626 | 5,008,929 | 81,988 | 1,290,876 | 321,818 | 64,429,861 |
| 390210 | Polypropylene in primary forms | 589,636 | 0.36 | 309,500 | 1,094,757,714 | 378,006,858 | 18,277,878 | 3,291,944 | 307,688 | 1,055,027 | 40,068,231 | 1,536,074,840 |
| 840999 | Parts for diesel and semi-diesel engines | 574,171 | | 7,509,379 | 518,175,430 | 64,482,286 | 48,030,008 | 2,109,357 | 1,745,067 | 11,787,553 | 11,485,045 | 665,324,125 |
| 090930 | Cumin seeds | 573,387 | 0.13 | 38,648 | 177,019,342 | 2,667,115 | 26,928 | 4,083 | 415 | 13,194 | 177,916 | 179,947,640 |
| 843830 | Machinery for sugar refining and manufacture | 571,773 | - | 29,450 | 41,318,524 | 936,593 | 54,540 | 112,183 | 31,667 | 121,778 | 849,590 | 43,454,325 |
| 870421 | Diesel powered trucks weighing < 5 tonnes | 567,043 | 3.66 | 19,007,338 | 269,169,247 | 66,251,822 | 44,937,581 | 18,443,262 | 7,754,135 | 7,996,150 | 7,004,851 | 440,564,386 |
| 870390 | Automobiles nes including gas turbine powered | 562,000 | | 1,739,516 | 28,267,067 | 7,209,384 | 3,268,955 | 45,745 | 178,644 | 64,267 | 83,302 | 40,856,880 |
| 271119 | Petroleum gases & gaseous hydrocarbons nes, liquefied | 559,470 | | 3,449,920 | 162,080,479 | 62,366,189 | 171,862 | 2,258,595 | 3,771,320 | 6,337 | 407,524 | 234,512,225 |
| 490199 | Printed reading books, except dictionaries etc | 553,213 | | 3,867,193 | 43,604,338 | 21,202,255 | 34,689,911 | 1,860,463 | 892,663 | 487,114 | 1,947,503 | 108,551,440 |
| | SUB-TOTAL | 15,537,947 | | 1,619,086,873 | 64,045,475,504 | 12,570,579,254 | 2,814,989,038 | 1,148,678,848 | 373,312,201 | 318,704,009 | 773,094,829 | 83,650,778,425 |

Table A.13 Exports of India by Size of Exports (HS 6-digit category and U.S. dollars)

| | Commodity Description | India Exports | | | Imports of Central and South Asia | | | | | | | |
|---|---|-----------------|----------|---------------|-----------------------------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|
| | | AVG 2010-13 | 2004-13% | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan | TOTAL |
| | TOTAL | 389,464,486,756 | | 5,674,971,662 | 389,464,486,756 | 30,644,893,091 | 12,725,230,824 | 3,158,371,167 | 1,612,796,742 | 3,146,496,979 | 5,285,309,407 | 62,248,069,871 |
| LARGE-SIZE EXPORTS (> \$1.0 BILLION) | | | | | | | | | | | | |
| 271000 | Oils petroleum, bituminous, distillates, except crude | 52,772,861,114 | 0.39 | 1,329,822,185 | 52,772,861,114 | 9,398,675,314 | 1,219,891,358 | 929,421,199 | 283,335,662 | 45,941,852 | 327,960,777 | 13,535,048,347 |
| 710239 | Diamonds (jewellery) worked but not mounted or set | 25,186,606,090 | 0.15 | 4,970 | 25,186,606,090 | 332,773 | 48,267 | 141,183 | - | - | - | 527,193 |
| 711319 | Jewellery and parts of precious metal except silver | 11,996,505,824 | 0.30 | 427,594 | 11,996,505,824 | 33,929,271 | 65,067,293 | 3,094,902 | 17,155,961 | 7,362,594 | 24,218,293 | 151,255,907 |
| 999999 | Commodities not specified according to kind | 6,408,966,321 | 0.51 | 653,122,385 | 6,408,966,321 | 47,590,683 | 81,859,269 | 24,566,233 | 78,283,525 | 353,657,564 | 226,445,078 | 1,465,524,738 |
| 300490 | Medicaments nes, in dosage | 6,061,804,282 | 0.26 | 68,980,267 | 6,061,804,282 | 228,831,001 | 733,057,931 | 124,639,081 | 35,640,189 | 60,670,714 | 325,526,259 | 1,577,345,441 |
| 100630 | Rice, semi-milled or wholly milled | 4,932,723,934 | 0.27 | 96,302,507 | 4,932,723,934 | 9,323,413 | 11,561,590 | 7,114,344 | 10,737,279 | 25,023,642 | 1,491,221 | 161,553,996 |
| 520100 | Cotton, not carded or combed | 3,630,615,645 | 0.94 | 1,092,369 | 3,630,615,645 | 715,678,311 | 4,011,272 | 271,057 | 83,723 | 23,387 | 782,996 | 721,943,113 |
| 260111 | Iron ore, concentrate, not iron pyrites, unagglomerate | 3,521,219,991 | 0.20 | 806 | 3,521,219,991 | 28,437,277 | 15,912,102 | 727,259 | 39,676 | 1,496,716 | 803 | 46,614,638 |
| 020230 | Bovine cuts boneless, frozen | 2,903,259,553 | 0.35 | 10,310,744 | 2,903,259,553 | 3,519,885 | 27,547,263 | 1,626,954 | 6,931,979 | 3,899,248 | 5,018,091 | 58,854,164 |
| 740311 | Copper cathodes and sections of cathodes unwrought | 2,821,383,962 | 0.59 | 25,723 | 2,821,383,962 | 71,318,896 | 252,800 | 5,402 | - | 40,422 | - | 71,643,242 |
| 130232 | Mucilages & thickeners, from locust bean, guar seeds | 2,812,767,729 | 0.68 | 321,326 | 2,812,767,729 | 2,614,146 | 1,839,321 | 108,483 | 6,647 | 52,231 | 61,182 | 5,003,336 |
| 870322 | Automobiles, spark ignition engine of 1000-1500 cc | 2,617,206,066 | 0.48 | 13,005,626 | 2,617,206,066 | 319,701,327 | 75,800,824 | 13,267,675 | 2,808,791 | 1,533,035 | 2,626,444 | 428,743,722 |
| 852520 | Transmit-receive apparatus for radio, TV, etc. | 2,483,267,961 | 2.28 | 23,809,210 | 2,483,267,961 | 662,500,861 | 329,917,745 | 37,906,706 | 1,508,544 | 2,761,654 | 10,867,946 | 1,069,272,667 |
| 294200 | Organic compounds, nes | 2,238,153,561 | 0.09 | 587,505 | 2,238,153,561 | 327,261 | 263,228 | 12,646 | 39,351 | 288,011 | 523,098 | 2,041,100 |
| 230400 | Soya-bean oil-cake and other solid residues | 2,201,756,734 | 0.29 | 38,868 | 2,201,756,734 | 264,856,043 | 7,286,401 | 1,083,619 | 3,157,630 | 552,218 | 9,456,538 | 286,431,316 |
| 870899 | Motor vehicle parts nes | 2,043,141,647 | 0.27 | 46,488,682 | 2,043,141,647 | 54,465,448 | 66,691,396 | 15,083,488 | 10,378,284 | 17,857,496 | 647,116,455 | 858,081,249 |
| 030613 | Shrimps and prawns, frozen | 1,722,317,393 | 0.15 | 1,031,981 | 1,722,317,393 | 15,871 | 2,073,713 | 30,569 | 3,936 | 19,873 | 42,096 | 3,218,038 |
| 610910 | T-shirts, singlets and other vests, of cotton, knit | 1,693,212,457 | 0.09 | 2,809,929 | 1,693,212,457 | 2,315,021 | 21,828,818 | 1,471,693 | 2,028,664 | 1,518,205 | 1,731,441 | 33,703,770 |
| 890590 | Floating docks, special function vessels nes | 1,420,195,520 | - | 7,383 | 1,420,195,520 | 1,817,673 | 30,343,299 | 109 | - | 21,456,403 | - | 53,624,867 |
| 870321 | Automobiles, spark ignition engine of <1000 cc | 1,388,258,732 | 0.29 | 4,727,462 | 1,388,258,732 | 253,384,507 | 16,145,083 | 7,568,128 | 1,182,949 | 504,681 | 818,221 | 284,331,031 |
| 880330 | Aircraft parts nes | 1,384,169,865 | 0.88 | 83,243,249 | 1,384,169,865 | 16,932,886 | 32,869,775 | 1,654,456 | 1,361,744 | 4,188,079 | 3,250,452 | 143,500,640 |
| 730511 | Pipe-line submerged arc welded steel diameter >406mm | 1,265,403,661 | 0.72 | 27,054 | 1,265,403,661 | 7,182,737 | 615,120,291 | 58,748 | 163,387 | 128,512,530 | 55,130,254 | 806,195,000 |
| 710231 | Diamonds (jewellery) unworked or simply sawn, cleaved | 1,251,904,429 | 0.75 | - | 1,251,904,429 | - | - | - | - | - | - | 52,806 |
| 871120 | Motorcycles, spark ignition engine of 50-250 cc | 1,201,217,417 | 0.32 | 43,947,458 | 1,201,217,417 | 81,390,180 | 1,744,351 | 83,401 | 253,264 | 3,836,763 | 1,812,392 | 133,067,809 |
| 890520 | Floating, submersible drilling or production platform | 1,121,812,729 | - | - | 1,121,812,729 | 419,937 | 36,785,721 | - | - | 356,445,333 | - | 393,650,991 |
| 390210 | Polypropylene in primary forms | 1,094,757,714 | 0.34 | 309,500 | 1,094,757,714 | 378,006,858 | 18,277,878 | 3,291,944 | 307,688 | 1,055,027 | 40,068,231 | 441,317,126 |
| 620630 | Womens, girls blouses & shirts, of cotton, not knit | 1,035,518,913 | 0.06 | 188,070 | 1,035,518,913 | 79,858 | 5,524,628 | 367,112 | 125,090 | 148,083 | 187,883 | 6,620,723 |
| | SUB-TOTAL | 149,211,009,241 | | 2,380,632,853 | 149,211,009,241 | 12,583,647,436 | 3,421,721,613 | 1,173,596,388 | 455,533,960 | 1,038,845,760 | 1,685,188,957 | 22,739,166,968 |
| | Commodity Description | India Exports | | | Imports of Central and South Asia | | | | | | | |
| | | AVG 2010-13 | 2004-13% | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan | TOTAL |
| MEDIUM-SIZE EXPORTS (\$650 MILLION > x > \$1.0 BILLION) | | | | | | | | | | | | |
| 100590 | Maize except seed corn | 981,926,491 | 0.98 | 448,173 | 981,926,491 | 450,329 | 190,449 | 171,132 | 1,287,854 | 130,580 | 1,270,289 | 3,948,805 |
| 890400 | Tugs and pusher craft | 962,894,518 | 0.63 | 3 | 962,894,518 | 458 | 79,384,511 | - | - | 4,530,614 | - | 83,915,586 |
| 711419 | Gold/silversmith wares of/ciad with precious metal ne | 941,700,692 | - | 56,518 | 941,700,692 | 37,576 | 394,223 | 174,116 | 237,774 | 306,659 | 10,606 | 1,217,472 |
| 520523 | Cotton yarn >85% single combed 232-192 dtex, not retail | 909,785,885 | 0.47 | 110,951 | 909,785,885 | 2,924,729 | 10,572 | 125,714 | - | - | - | 3,171,966 |
| 170199 | Refined sugar, in solid form, nes, pure sucrose | 882,247,249 | - | 82,817,477 | 882,247,249 | 32,147,172 | 115,936,882 | 61,348,370 | 35,238,766 | 32,592,502 | 48,818,692 | 408,899,860 |
| 270799 | Coal tar distillation products nes | 881,863,783 | 3.80 | 31,993 | 881,863,783 | 13,388,076 | 284,380 | 640,483 | 405,067 | - | 14,219 | 14,764,217 |
| 620520 | Mens, boys shirts, of cotton, not knit | 848,646,381 | 0.05 | 1,381,009 | 848,646,381 | 359,567 | 11,602,985 | 616,203 | 656,455 | 601,908 | 899,929 | 16,118,055 |
| 720230 | Ferro-silico-manganese | 841,823,517 | 0.87 | 26,167 | 841,823,517 | 16,012,431 | 2,796,201 | - | 485 | 290,359 | 1,212,326 | 20,337,969 |
| 720241 | Ferro-chromium, >4% carbon | 827,418,317 | 0.58 | - | 827,418,317 | 407,376 | 1,116,424 | 61,522 | 8,212 | - | - | 1,593,534 |
| 721049 | Flat rolled iron or non-alloy steel, coated with zinc, width >6 | 821,818,581 | 0.57 | 11,993,309 | 821,818,581 | 167,034,282 | 51,893,379 | 15,439,695 | 25,686,783 | 5,777,838 | 137,357,315 | 415,182,600 |
| 290243 | P-xylene | 810,287,418 | 0.25 | - | 810,287,418 | 493,256,789 | 1,144 | 75 | - | 119 | - | 493,258,127 |
| 680223 | Cut or sawn slabs of granite | 801,476,665 | 0.13 | 524,789 | 801,476,665 | 6,132,940 | 20,083,438 | 109,427 | 953,513 | 2,361,538 | 405,266 | 30,570,909 |
| 300420 | Antibiotics nes, in dosage | 789,254,212 | 0.22 | 18,016,263 | 789,254,212 | 26,841,458 | 69,779,393 | 7,919,286 | 5,582,281 | 6,414,393 | 33,281,401 | 167,834,474 |
| 080130 | Cashew nuts, fresh or dried | 787,487,185 | 0.13 | 463,885 | 787,487,185 | 1,474,695 | 5,373,622 | 12,445 | 938 | 6,407 | 342,176 | 7,674,167 |
| 880240 | Fixed wing aircraft, unladen weight > 15,000 kg | 782,623,933 | - | 3,011,728 | 782,623,933 | 10,996,102 | 389,631,677 | 17,878,456 | 526,522 | 41,423,519 | 180,171,408 | 643,639,412 |
| 711311 | Jewellery and parts, silver, including plated silver | 757,684,058 | 0.31 | 128,244 | 757,684,058 | 887,165 | 3,362,569 | 2,151,396 | 42,600 | 25,118 | 32,414 | 6,629,506 |
| 710812 | Gold in unwrought forms non-monetary | 755,238,236 | - | - | 755,238,236 | 245,810,350 | 328,470 | 16,990,471 | - | 37,188,449 | 14,595 | 300,332,334 |
| 620442 | Womens, girls dresses, of cotton, not knit | 749,913,329 | 0.19 | 1,424,477 | 749,913,329 | 77,773 | 5,041,226 | 1,188,140 | 16,841 | 322,692 | 443,605 | 8,514,754 |
| 732599 | Cast articles of iron or steel, nes | 749,725,549 | 0.24 | 825,773 | 749,725,549 | 1,070,434 | 7,558,115 | 108,794 | 51,980 | 898,669 | 2,053,238 | 12,567,003 |
| 380810 | Insecticides, packaged for retail sale | 727,341,648 | 0.14 | 1,472,720 | 727,341,648 | 58,539,471 | 17,377,868 | 3,025,049 | 212,203 | 3,271,630 | 4,268,801 | 88,167,740 |
| 151530 | Castor oil or fractions not chemically modified | 725,501,613 | 0.25 | - | 725,501,613 | 44,013 | 59,131 | 9,313 | 660 | 2,695 | 128,116 | 243,928 |
| 870190 | Wheeled tractors nes | 720,989,147 | 0.47 | 13,462,810 | 720,989,147 | 38,707,507 | 87,467,034 | 10,749,490 | 10,106,859 | 42,384,999 | 45,285,181 | 248,163,880 |
| 120220 | Ground-nuts shelled, not roasted or cooked | 672,342,310 | 0.35 | 75,224 | 672,342,310 | 4,650,416 | 7,174,164 | 693 | - | 94,487 | - | 11,994,983 |
| 630260 | Toilet or kitchen linen, of cotton terry towelling | 666,583,209 | 0.44 | 101,888 | 666,583,209 | 299,353 | 7,373,623 | 4,231,901 | 59,039,618 | 4,474,423 | 3,970,043 | 79,490,849 |
| 630419 | Bedsprings, textile material, nes, not knit or croche | 661,678,029 | 0.28 | 93,240 | 661,678,029 | 67,586 | 1,421,732 | 547,467 | 122,265 | 95,058 | 108,342 | 2,455,689 |
| 090240 | Tea, black (fermented or partly) in packages > 3 kg | 661,594,962 | 0.14 | 46,478,568 | 661,594,962 | 336,296,461 | 99,879,864 | 3,939,159 | 950,438 | 645,898 | 3,168,472 | 491,358,860 |
| 290220 | Benzene | 651,865,426 | 0.69 | - | 651,865,426 | 50,932 | 16,442 | 1,679 | 301 | 768 | 2,546 | 72,668 |
| 760110 | Aluminium unwrought, not alloyed | 650,959,537 | 0.26 | 26,533 | 650,959,537 | 32,297,572 | 2,515,198 | 125,515 | 2,246 | 210 | 28,307,208 | 63,274,481 |
| | SUB-TOTAL | 22,022,671,876 | | 182,971,738 | 22,022,671,876 | 1,490,263,012 | 988,054,709 | 147,565,989 | 141,130,661 | 183,841,530 | 491,566,185 | 3,625,393,823 |

(Continued)

Table A.13: Exports of India by Size of Exports (HS 6-digit category and U.S. dollars) – Continued

| Major Exports of India by type of exports (HS 8 digit category) and destination - continued | | | | | | | | | | | | |
|---|---|----------------|-------------|-----------------------------------|----------------|-------------|---------------|-------------|--------------|-------------|-------------|---------------|
| Commodity Description | India Exports | | | Imports of Central and South Asia | | | | | | | | |
| | AVG 2010-13 | 2004-13% | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan | TOTAL | |
| SMALL-SIZE EXPORTS (\$450 MILLION > x > \$650 MILLION) | | | | | | | | | | | | |
| 540710 | Woven hi-ten filament, nylon, polyamide or polyester | 644,038,470 | 0.12 | 63,394,398 | 644,038,470 | 2,477,714 | 462,548 | 196,830 | 108,097 | 83,604 | 237,990 | 66,961,180 |
| 640351 | Footwear, soles, uppers of leather, over ankle, nes | 632,468,098 | 0.15 | 75,544 | 632,468,098 | 10,118 | 4,355,136 | 555,386 | 47,114 | 148,473 | 719,307 | 5,911,077 |
| 630492 | Furnishing articles nes, of cotton, not knit, crochet | 632,197,441 | 0.03 | 181,218 | 632,197,441 | 42,782 | 80,128 | 27,301 | 28,999 | 32,877 | 55,892 | 449,196 |
| 540233 | Textured yarn nes, of polyester filaments, not retail | 630,451,396 | 0.49 | 1,912 | 630,451,396 | 210,661,032 | 472,507 | 10,052 | 326,404 | 40,610 | 5,127,284 | 216,639,801 |
| 520524 | Cotton yarn >85% single combed 192-125 dtex, not ret. | 624,762,492 | 0.47 | 69,206 | 624,762,492 | 2,002,891 | 391,609 | - | - | - | - | 2,463,706 |
| 281820 | Aluminium oxide, except artificial corundum | 611,501,160 | 0.74 | 175,000 | 611,501,160 | 1,498,432 | 1,124,367 | 14,065 | 18,891,120 | 111,973 | 1,191,006 | 23,005,962 |
| 240120 | Tobacco, unmanufactured, stemmed or stripped | 610,582,807 | 0.23 | 79,902 | 610,582,807 | 13,512,245 | 45,521,085 | 3,714,064 | 1,507 | - | 8,706,491 | 71,535,294 |
| 851790 | Parts of line telephone/telegraph equipment, nes | 605,820,044 | 0.99 | 26,487,505 | 605,820,044 | 91,252,884 | 78,036,715 | 7,637,136 | 3,080,989 | 8,855,235 | 19,049,927 | 234,400,390 |
| 401120 | Pneumatic tyres new of rubber for buses or lorries | 585,102,625 | 0.13 | 48,420,773 | 585,102,625 | 172,731,825 | 140,131,565 | 17,327,969 | 7,214,140 | 33,035,181 | 61,746,252 | 480,607,704 |
| 848180 | Taps, cocks, valves and similar appliances, nes | 571,942,150 | 0.26 | 9,278,879 | 571,942,150 | 60,148,624 | 359,823,016 | 2,599,416 | 4,812,920 | 120,752,789 | 39,157,831 | 596,573,474 |
| 790111 | Zinc, not alloyed, unwrought, >99% pure | 570,347,460 | 1.51 | 53,051 | 570,347,460 | 8,229,561 | 1,292,025 | 6,404 | 13,134 | 1,671 | 26,842 | 9,622,688 |
| 090111 | Coffee, not roasted, not decaffeinated | 557,314,873 | 0.19 | 56,701 | 557,314,873 | 1,345 | 213,769 | 46,247 | 68 | 64 | 34,913 | 353,106 |
| 401199 | Pneumatic tyres new of rubber nes | 554,889,764 | 0.40 | 3,470,431 | 554,889,764 | 4,691,321 | 73,650,626 | 20,012,223 | 1,485,017 | 2,780,895 | 26,361,999 | 132,452,511 |
| 120740 | Sesamum seeds | 542,328,736 | 0.23 | 576,844 | 542,328,736 | 48,294 | 565,684 | 6,975 | 87 | 6,659 | 26,714 | 1,231,256 |
| 420310 | Articles of apparel of leather or composition leather | 541,358,414 | 0.10 | 74,764 | 541,358,414 | 1,839,464 | 7,048,953 | 593,937 | 394,090 | 569,167 | 1,108,819 | 11,629,193 |
| 170111 | Raw sugar, cane | 536,491,938 | 1.73 | 2,525,607 | 536,491,938 | 9,257 | 166,195,874 | 514,975 | 881,018 | - | 11,190,086 | 181,316,817 |
| 320417 | Synthetic organic pigments and preps based thereon | 530,228,847 | 0.18 | 39,764 | 530,228,847 | 24,087,487 | 2,900,224 | 203,208 | 62,676 | 441,320 | 6,177,820 | 33,912,499 |
| 294190 | Antibiotics nes, in bulk | 526,304,423 | 0.18 | 215,910 | 526,304,423 | 61,258,261 | 7,810,951 | 127,354 | 173,592 | 73,854 | 2,563,292 | 72,223,213 |
| 390760 | Polyethylene terephthalate, in primary forms | 520,115,717 | 0.42 | 7,207,873 | 520,115,717 | 11,054,047 | 86,471,217 | 20,901,057 | 6,166,783 | 4,469,444 | 58,448,307 | 194,718,728 |
| 840999 | Parts for diesel and semi-diesel engines | 518,175,430 | 0.21 | 7,509,379 | 518,175,430 | 64,842,286 | 48,030,008 | 2,109,357 | 1,745,067 | 11,787,553 | 11,485,045 | 147,148,695 |
| 030379 | Fish nes, frozen, whole | 518,139,046 | 0.26 | 595,517 | 518,139,046 | 209,207 | 6,538,452 | 3,181,154 | 1,149,697 | 1,717,597 | 907,923 | 14,299,546 |
| 720824 | Hot rolled iron or non-alloy steel, coil,width >600mm, t <3mm | 487,067,694 | 0.58 | 1,580,522 | 487,067,694 | 245,642,951 | 4,458,616 | 2,997,848 | 110,497 | 1,488,262 | 35,650,095 | 291,928,790 |
| 251611 | Granite, crude or roughly trimmed | 479,360,503 | 0.15 | - | 479,360,503 | 72,906 | 435,218 | 119,291 | - | 300 | 932,374 | 1,560,088 |
| 410439 | Bovine and equine leather, nes | 471,211,946 | 0.23 | 246,888 | 471,211,946 | 10,159,070 | 1,134,146 | 750 | - | 383 | 37,266 | 11,578,503 |
| 620342 | Mens, boys trousers & shorts, of cotton, not knit | 464,183,892 | 0.13 | 846,478 | 464,183,892 | 950,092 | 24,123,639 | 14,174,546 | 1,101,874 | 529,108 | 1,349,038 | 43,074,774 |
| SUB-TOTAL | | 13,966,385,362 | | 173,164,065 | 13,966,385,362 | 987,074,096 | 1,061,268,073 | 97,077,544 | 47,794,887 | 186,927,016 | 292,292,510 | 2,845,598,189 |
| | | | | | | | | | | | | |
| Commodity Description | India Exports | | | Imports of Central and South Asia | | | | | | | | |
| | AVG 2010-13 | 2004-13% | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan | TOTAL | |
| EMERGING EXPORTS (350 MILLION < x < \$450,000) | | | | | | | | | | | | |
| 611120 | Babies garments, accessories of cotton, knit | 446,189,598 | 0.19 | 753,903 | 446,189,598 | 774,640 | 3,905,306 | 784,915 | 200,454 | 70,327 | 423,404 | 6,912,949 |
| 732690 | Articles of iron or steel, nes | 442,055,222 | 0.20 | 14,928,169 | 442,055,222 | 33,584,730 | 285,182,136 | 2,549,464 | 3,431,650 | 37,025,789 | 14,715,893 | 391,417,830 |
| 100190 | Wheat except durum wheat, and meslin | 437,382,335 | | 28,139,464 | 437,382,335 | 5,756,427 | 1,877,949 | 76,439,065 | 122,514,224 | 512,908 | 86,051,618 | 321,291,654 |
| 070310 | Onions and shallots, fresh or chilled | 432,756,655 | 0.23 | 2,519,178 | 432,756,655 | 30,054,389 | 13,454,790 | 46,260 | 414,977 | 4,154,036 | 2,115,098 | 52,758,727 |
| 090420 | Capsicum or Pimenta, dried, crushed or ground | 431,351,629 | 0.25 | 96,498 | 431,351,629 | 6,825,555 | 898,366 | 21,765 | 2,571 | 93,077 | 15,410 | 7,953,241 |
| 610990 | T-shirts, singlets etc, of material nes, knit | 423,256,606 | 0.37 | 1,320,716 | 423,256,606 | 2,738,081 | 5,849,789 | 621,559 | 6,121,109 | 157,932 | 308,995 | 17,118,180 |
| 890190 | Cargo vessels other than tanker or refrigerated | 419,907,205 | 0.39 | - | 419,907,205 | 5,155,329 | 44,311,099 | 2,036 | - | 49,727,234 | - | 99,195,697 |
| 722220 | Stainless steel bar n/w than cold formed/cold finishe | 419,560,531 | 0.29 | 3,096 | 419,560,531 | 709,340 | 932,261 | 938 | 26,615 | 77,213 | 496,206 | 2,245,669 |
| 621490 | Shawls, scarves, etc, of material nes, not knit | 419,121,703 | 0.23 | 1,143,093 | 419,121,703 | 913,769 | 535,300 | 403,692 | 5,757,978 | 206,218 | 251,426 | 9,211,475 |
| 870410 | Dump trucks designed for off-highway use | 418,225,448 | 0.79 | 1,974,905 | 418,225,448 | 7,538,503 | 91,836,946 | 52,621,282 | 3,311,621 | 4,047,693 | 3,427,254 | 164,758,203 |
| 392690 | Plastic articles nes | 414,006,714 | 0.25 | 18,298,139 | 414,006,714 | 33,382,652 | 97,246,641 | 3,753,372 | 2,184,272 | 11,856,746 | 16,762,271 | 183,484,092 |
| 711290 | Waste/scrap, precious metals except pure gold/platinum | 394,364,496 | 1.20 | - | 394,364,496 | 422 | 101,835 | 467,659 | - | - | 22,891 | 592,806 |
| 380890 | Pesticides, rodenticides, nes, for retail sale | 389,978,970 | 0.46 | 328,963 | 389,978,970 | 1,248,727 | 3,161,850 | 286,828 | 178,422 | 265,559 | 461,129 | 5,931,478 |
| 850440 | Static converters, nes | 379,668,430 | 0.51 | 14,446,596 | 379,668,430 | 54,949,497 | 102,868,322 | 3,159,223 | 2,948,213 | 13,237,353 | 17,246,786 | 208,855,988 |
| 300410 | Penicillins and streptomycins, derivs, in dosage | 377,354,564 | 0.25 | 4,043,268 | 377,354,564 | 5,186,339 | 17,138,766 | 4,750,925 | 2,836,075 | 1,894,053 | 10,477,032 | 46,326,456 |
| 420231 | Articles for pocket or handbag, leather outer surface | 375,098,406 | 0.12 | 148,169 | 375,098,406 | 113,211 | 1,842,512 | 58,877 | 753,033 | 64,835 | 149,035 | 3,129,671 |
| 620640 | Womens, girls blouses, shirts, manmade fibre, not kni | 371,440,231 | 0.19 | 339,304 | 371,440,231 | 44,679 | 9,576,455 | 92,114 | 17,104 | 352,910 | 34,922 | 10,457,487 |
| 890600 | Warships, lifeboats, hospital ships, vessels nes | 369,458,425 | | 24,757 | 369,458,425 | 344,987 | 33,534,971 | 6,693 | 887 | 4,067,296 | 66,000 | 38,045,590 |
| 640391 | Boots, sole rubber or plastic upper leather, nes | 369,063,411 | 0.26 | 2,520,110 | 369,063,411 | 36,821 | 43,368,805 | 1,583,469 | 316,623 | 840,360 | 579,350 | 49,245,537 |
| 720110 | Pig iron, non-alloy, <0.5% phosphorus | 366,753,929 | 0.56 | - | 366,753,929 | 5,959,414 | 2,115,007 | 446,284 | 339,302 | 105,585 | 961,738 | 9,927,329 |
| 300390 | Medicaments nes, formulated, in bulk | 365,948,265 | 0.11 | 7,376,167 | 365,948,265 | 4,948,757 | 4,447,710 | 88,403 | 482,775 | 450,936 | 5,031,303 | 22,826,050 |
| 940360 | Furniture, wooden, nes | 359,974,164 | 0.22 | 1,821,104 | 359,974,164 | 3,058,991 | 124,263,771 | 9,373,369 | 2,140,596 | 33,110,307 | 7,540,917 | 181,309,054 |
| 610510 | Mens, boys shirts, of cotton, knit | 357,724,289 | 0.01 | 490,688 | 357,724,289 | 458,061 | 3,061,551 | 3,385,538 | 7,614,050 | 333,384 | 1,276,346 | 16,619,617 |
| 320416 | Reactive dyes and preparations based thereon | 351,535,678 | 0.17 | 891 | 351,535,678 | 57,678,683 | 58,883 | 1,937 | 346,315 | 982,437 | 5,192,031 | 64,261,176 |
| SUB-TOTAL | | 9,532,176,900 | | 100,717,175 | 9,532,176,900 | 261,462,002 | 891,571,016 | 160,945,663 | 161,938,863 | 163,634,185 | 173,607,052 | 1,913,875,955 |

Table A.14: Exports of Pakistan by Size of Exports (HS 6-digit category and U.S. dollars)

| | | Pakistan Exports | | | Imports of Central and South Asia | | | | | | | |
|---|--|------------------|----------|---------------|-----------------------------------|----------------|---------------|---------------|---------------|---------------|---------------|-----------------|
| Commodity Description | | AVG 2010-13 | 2004-13% | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan | TOTAL |
| TOTAL | | 37,739,953,977 | | 6,804,837,604 | 210,401,666,355 | 21,706,084,127 | 6,322,749,266 | 2,581,671,954 | 1,567,286,887 | 1,666,896,169 | 2,758,975,309 | 232,104,083,544 |
| LARGE-SIZE EXPORTS (> \$200 MILLION) | | | | | | | | | | | | |
| 100630 | Rice, semi-milled or wholly milled | 1,833,319,464 | 0.17 | 96,302,507 | 4,932,723,934 | 9,323,413 | 11,561,590 | 7,114,344 | 10,737,279 | 25,023,642 | 1,491,221 | 5,084,954,516 |
| 520512 | Cotton yarn >85% single uncombed 714-232 dtex,not ret | 1,050,326,400 | 0.14 | - | 329,165,047 | 4,644,908 | 671,993 | 355,632 | - | 857 | - | 330,246,082 |
| 271000 | Oils petroleum, bituminous, distillates, except crude | 840,124,734 | 0.23 | 1,329,822,185 | 52,772,861,114 | 9,398,675,314 | 1,219,891,358 | 929,421,199 | 283,335,662 | 45,941,852 | 327,960,777 | 56,909,234,147 |
| 711319 | Jewellery and parts of precious metal except silver | 735,341,174 | 0.88 | 427,594 | 11,996,505,824 | 33,929,271 | 65,067,293 | 3,094,902 | 17,155,961 | 7,362,594 | 24,218,293 | 12,113,832,460 |
| 630260 | Toilet or kitchen linen, of cotton terry towelling | 733,458,047 | 0.07 | 101,888 | 666,583,209 | 299,353 | 7,373,623 | 4,231,901 | 59,039,618 | 4,474,423 | 3,970,043 | 745,774,704 |
| 630231 | Bed linen, of cotton, nes | 692,270,381 | (0.03) | 123,818 | 244,035,500 | 78,883 | 4,991,296 | 222,853 | 2,539,098 | 179,944 | 182,169 | 252,274,677 |
| 620342 | Mens, boys trousers & shorts, of cotton, not knit | 629,227,159 | 0.08 | 846,478 | 464,183,892 | 950,092 | 24,123,639 | 14,174,546 | 1,101,874 | 529,108 | 1,349,038 | 506,308,574 |
| 630210 | Bed linen, of textile knit or crochet materials | 570,059,288 | 0.38 | 29,028 | 72,145,102 | 847,895 | 514,783 | 26,372 | 7,125 | 53,751 | 83,413 | 72,859,573 |
| 630239 | Bed linen, of material nes, nes | 546,744,338 | 0.29 | 93,464 | 20,968,506 | 959,340 | 1,124,516 | 1,041,162 | 15,691 | 185,710 | 41,727 | 23,470,775 |
| 252329 | Portland cement, other than white cement | 463,008,206 | 0.55 | 282,371,857 | 132,582,484 | 1,155,730 | 113,102,067 | 3,262,219 | 24,986,188 | 33,131,466 | 1,520,172 | 590,956,451 |
| 620462 | Womens, girls trousers & shorts, of cotton, not knit | 414,096,811 | 0.23 | 341,798 | 301,894,560 | 322,204 | 19,259,368 | 9,656,022 | 218,321 | 144,282 | 428,177 | 331,942,527 |
| 520942 | Denim cotton >85% >200g/m2 | 391,717,749 | 0.38 | - | 218,393,949 | 6,744,803 | 1,721,653 | 1,462 | 97,552 | 203,707 | 89,742 | 220,508,064 |
| 420310 | Articles of apparel of leather or composition leather | 365,987,193 | 0.05 | 74,764 | 541,358,414 | 1,839,464 | 7,048,953 | 593,937 | 394,090 | 569,167 | 1,108,819 | 551,148,143 |
| 630710 | Floor & dish cloths, dusters, etc, textile material | 353,273,794 | 0.09 | 1,052,078 | 103,508,768 | 380,337 | 4,666,862 | 342,131 | 92,330 | 526,261 | 145,983 | 110,334,412 |
| 610510 | Mens, boys shirts, of cotton, knit | 313,701,544 | (0.05) | 490,688 | 357,724,289 | 458,061 | 3,061,551 | 3,385,538 | 7,614,050 | 333,384 | 1,276,346 | 373,885,844 |
| 520100 | Cotton, not carded or combed | 291,583,408 | 0.27 | 1,092,369 | 3,630,615,645 | 715,678,311 | 4,011,272 | 271,057 | 83,723 | 23,387 | 782,996 | 3,636,880,447 |
| 901890 | Instruments, appliances for medical, etc science, nes | 269,736,185 | 0.09 | 4,579,745 | 146,864,673 | 57,916,070 | 131,208,051 | 6,281,165 | 1,942,569 | 12,446,610 | 11,432,562 | 314,755,374 |
| 610910 | T-shirts, singlets and other vests, of cotton, knit | 247,688,460 | 0.09 | 2,809,929 | 1,693,212,457 | 2,315,021 | 21,828,818 | 1,471,693 | 2,028,664 | 1,518,205 | 1,731,441 | 1,724,601,206 |
| 520532 | Cotton yarn >85% multiple uncomb 714-232 dtex,not ret | 239,911,167 | 0.32 | 135,093 | 44,250,874 | 118,360 | 191,371 | 19,949 | - | - | 1,699 | 44,598,986 |
| 610590 | Mens, boys shirts, of materials nes, knit | 235,422,189 | 2.21 | 69,183 | 64,081,698 | 682,230 | 222,233 | 1,314,202 | 333,409 | 67,225 | 30,875 | 66,118,825 |
| 100640 | Rice, broken | 229,772,155 | 0.51 | 43,763,639 | 167,470,356 | 3 | 13,661 | 1,718,076 | 106,962 | 567,243 | 612,870 | 214,252,805 |
| 170199 | Refined sugar, in solid form, nes, pure sucrose | 216,409,887 | | 82,817,477 | 882,247,249 | 32,147,172 | 115,936,882 | 61,348,370 | 35,238,766 | 32,592,502 | 48,818,692 | 1,258,999,937 |
| 390760 | Polyethylene terephthalate, in primary forms | 213,928,955 | 0.12 | 7,207,873 | 520,115,717 | 11,054,047 | 86,471,217 | 20,901,057 | 6,166,783 | 4,469,444 | 58,448,307 | 703,780,397 |
| 110100 | Wheat or meslin flour | 211,858,594 | | 330,287,933 | 68,338,053 | 17,087,823 | 1,313,117 | 31,741,774 | 92,745,581 | 23,091,244 | 279,518,991 | 827,036,692 |
| SUB-TOTAL | | 12,088,967,275 | | 2,184,841,384 | 80,371,831,310 | 10,297,608,104 | 1,845,377,161 | 1,101,991,560 | 545,981,294 | 193,436,006 | 765,296,903 | 87,008,755,617 |
| | | Pakistan Exports | | | Imports of Central and South Asia | | | | | | | |
| Commodity Description | | AVG 2010-13 | 2004-13% | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan | TOTAL |
| MEDIUM-SIZE EXPORTS (\$100 MILLION < x < \$200 MILLION) | | | | | | | | | | | | |
| 520511 | Cotton yarn >85% single uncombed >714 dtex,not retail | 188,056,206 | 0.19 | 161 | 232,075,655 | 6,183,567 | 96,994 | 173,263 | - | 11,169 | 8 | 232,357,249 |
| 551341 | Woven plain >85% polyester + cotton, <170g/m2 printed | 181,027,341 | 0.85 | 6,380 | 460,263 | 36,453 | 17,068 | 2,977 | 476,076 | 404 | 10,862 | 974,029 |
| 520522 | Cotton yarn >85% single combed 714-232 dtex,not retail | 176,163,715 | (0.01) | 32,569 | 316,211,696 | 5,963,500 | 1,531,131 | 51,647 | - | 6,054 | - | 317,833,097 |
| 100110 | Durum wheat | 171,277,126 | | 11,368,708 | 251,463,802 | 58,520,622 | 175,547 | 350,430 | 1,376,810 | 146,363 | 565,187 | 265,446,846 |
| 520911 | Plain weave cotton, >85% >200g/m2, unbleached | 167,143,850 | 3.30 | 18,164 | 39,461,878 | 18,273 | 265,054 | 16,430 | - | 81,588 | 60,000 | 39,903,113 |
| 151620 | Veg fats, oils or fractions hydrogenated, esterified | 160,731,070 | 0.22 | 175,848,355 | 67,026,842 | 32,292,422 | 24,876,673 | 172,030 | 781,000 | 1,250,860 | 12,579,320 | 282,535,079 |
| 520812 | Plain weave cotton, >85% 100-200g/m2, unbleached | 157,719,715 | 1.83 | 482,133 | 42,554,215 | 318,370 | 282,245 | 14,007 | 5,963,048 | 590,138 | 5,704,656 | 55,590,441 |
| 420329 | Leather, composition gloves & mittens except sports | 154,064,922 | 0.15 | 597,670 | 223,589,975 | 412,775 | 2,541,730 | 26,048 | 176,627 | 207,055 | 30,181 | 227,169,285 |
| 950662 | Inflatable balls | 152,770,740 | 0.06 | 48,165 | 26,798,514 | 233,018 | 1,808,571 | 45,477 | 434,771 | 91,666 | 346,615 | 29,573,779 |
| 520932 | Twill weave cotton, >85% >200g/m2, dyed | 152,497,840 | 2.29 | 5,612 | 63,188,920 | 523,206 | 964,833 | 553 | - | - | - | 64,159,919 |
| 220710 | Undenatured ethyl alcohol > 80% by volume | 150,874,743 | 0.83 | 12,393 | 104,712,198 | 26,022 | 813 | 421 | - | 15,657,421 | 419 | 120,383,664 |
| 410620 | Goat or kid skin leather, nes | 140,667,548 | 0.09 | 626,113 | 311,308,825 | 2,568,311 | 5,846 | - | - | 4,753 | 14,123 | 311,959,660 |
| 520912 | Twill weave cotton, >85% >200g/m2, unbleached | 130,134,700 | | - | 19,028,245 | 90,056 | 207,029 | 101,636 | - | - | - | 19,336,909 |
| 080520 | Mandarin, clementine & citrus hybrids, fresh or dried | 129,065,798 | 0.26 | 49,497,162 | 168,861 | 24,451 | 39,482,013 | 7,031,002 | 95,242 | 1,475,037 | 557,743 | 98,307,058 |
| 520813 | Twill weave cotton, >85% <200g/m2, unbleached | 124,684,472 | 1.71 | - | 5,653,257 | 25,807 | 371,630 | 781 | - | - | - | 6,025,668 |
| 611520 | Womens full, kneelength hosiery, yarn <67 dtex/sy,kni | 123,787,880 | 0.05 | 47,671 | 1,206,018 | 728,582 | 694,546 | 23,690 | 174,562 | 95,752 | 14,043 | 2,256,281 |
| 570110 | Carpets of wool or fine animal hair, knotted | 121,938,601 | (0.05) | 3,053,196 | 275,201,344 | 2,724,348 | 410,613 | 5,162 | 519,471 | 1,320,370 | 57,576 | 280,567,731 |
| 261000 | Chromium ores and concentrates | 120,653,523 | 0.50 | - | 86,260,583 | 297,656 | 58,015 | - | - | - | 30,000 | 86,348,598 |
| 410431 | Bovine and equine leather, full or split grain, nes | 120,431,221 | 0.27 | 248,921 | 143,478,662 | 488,945 | 1,825,937 | 750 | - | 20,138 | 100,311 | 145,674,718 |
| 521051 | Plain weave cotton, <85% +manmade fibre, <200g print | 117,267,722 | 0.02 | 1,180 | 1,531,598 | 42,776 | 3,735 | - | 1,151,146 | 290 | 310 | 2,688,259 |
| 420321 | Leather, composition sports gloves, mittens and mitts | 114,262,631 | 0.10 | 12,087 | 18,177,724 | 68,386 | 115,088 | 12,380 | 4,729 | 23,931 | 5,386 | 18,351,324 |
| 610339 | Mens, boys jackets & blazers, material nes, knit | 113,746,993 | 1.80 | 5,095,785 | 13,054,321 | 156,560 | 106,511 | 99,237 | 710,098 | 559,777 | 330,522 | 19,956,250 |
| 521011 | Plain weave cotton <85% +manmade fibre <200g unbleach | 106,994,861 | 0.46 | 271,512 | 3,945,652 | 144,791 | 8,383 | 8,011 | 4,697,563 | - | 25,013 | 8,956,134 |
| 611592 | Hosiery nes, of cotton, knit | 104,235,221 | 1.98 | 1,031,646 | 9,175,411 | 1,077,988 | 16,065,662 | 641,527 | 12,921,690 | 701,212 | 349,212 | 40,886,324 |
| 030339 | Flatfish except halibut, plaice or sole, frozen, whol | 103,091,859 | 2.00 | 37,582 | 5,649,222 | 3,012,335 | 294,277 | 20,688 | 4,121 | - | 465 | 6,006,353 |
| 130232 | Mucilages & thickeners, from locust bean, guar seeds | 102,524,326 | 0.57 | 321,326 | 2,812,767,729 | 2,614,146 | 1,839,321 | 108,483 | 6,647 | 52,231 | 61,182 | 2,815,156,920 |
| 730690 | Tube/pipe/hollow profile, iron/steel, riveted/open sea | 101,705,786 | 2.31 | 72,996,703 | 102,809,884 | 1,805,037 | 20,929,100 | 3,377,468 | 343,094 | 11,040,749 | 880,085 | 212,377,081 |
| 740400 | Copper/copper alloy waste or scrap | 100,823,113 | 0.63 | 100,701 | 37,944,824 | 4,180,705 | 1,527,784 | 833,227 | 319 | - | 3,547 | 40,410,401 |
| SUB-TOTAL | | 3,788,343,521 | | 321,761,891 | 5,214,906,112 | 124,579,107 | 116,506,110 | 13,117,322 | 29,837,012 | 33,336,955 | 21,726,767 | 5,751,192,167 |

(Continued)

Table A.14: Exports of Pakistan by Size of Exports (HS 6-digit category and U.S. dollars) – Continued

| | Pakistan Exports | | Imports of Central and South Asia | | | | | | | | |
|--|------------------|----------|-----------------------------------|----------------|-------------|-------------|-------------|-------------|--------------|-------------|----------------|
| Commodity Description | AVG 2010-13 | 2004-13% | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan | TOTAL |
| SMALL-SIZE EXPORTS (\$55 MILLION < x < \$100 MILLION) | | | | | | | | | | | |
| 521021 Plain weave cotton <85% +manmade fibre, <200g bleache | 99,955,135 | 0.14 | 16,334 | 1,389,500 | 207,513 | 40,857 | 947 | 40,997 | - | - | 1,488,635 |
| 620349 Mens, boys trousers & shorts, material nes, not knit | 98,099,493 | 0.69 | 295,643 | 103,527,540 | 3,289,971 | 4,237,913 | 2,618,530 | 91,106 | 77,521 | 106,913 | 110,955,166 |
| 521031 Plain weave cotton, <85% +manmade fibre, <200g/m2 dye | 92,672,937 | 0.90 | 39,131 | 9,955,850 | 37,304 | 26,673 | 917 | 134,576 | 6,834 | 13,968 | 10,177,948 |
| 070190 Potatoes, fresh or chilled except seed | 90,928,835 | 0.92 | 59,318,934 | 28,537,259 | 456,530 | 22,612,066 | 76,380 | 288,178 | 11,356,426 | 816,286 | 123,005,528 |
| 940490 Articles of bedding nes | 86,529,821 | 1.05 | 470,670 | 178,641,712 | 381,810 | 5,382,637 | 213,545 | 8,719,187 | 820,088 | 863,918 | 195,111,757 |
| 410439 Bovine and equine leather, nes | 84,143,299 | (0.03) | 246,888 | 471,211,946 | 10,159,070 | 1,134,146 | 750 | - | 383 | 37,266 | 472,631,378 |
| 520819 Woven cotton nes, >85% <200g/m2, unbleached | 82,207,992 | (0.10) | 324,069 | 10,055,404 | 6,514,678 | 403,253 | 56,798 | 1,049,218 | 129,420 | 181,569 | 12,199,730 |
| 620322 Mens, boys ensembles, of cotton, not knit | 81,763,705 | 0.96 | 180,333 | 11,201,558 | 73,986 | 4,172,680 | 117,952 | 135,041 | 845,580 | 495,274 | 17,148,417 |
| 220720 Ethyl alcohol and other spirits, denatured | 81,313,890 | 0.54 | 24,768 | 17,006,302 | 55,284 | 31,459 | 98 | - | 783 | - | 17,063,408 |
| 551311 Woven plain >85% polyester+cotton, <170g/m2 unbl/blch | 78,794,080 | 0.82 | 62,609 | 2,020,943 | 471,653 | 19,357 | 4,284 | - | - | 56,169 | 2,163,362 |
| 610349 Mens, boys trousers & shorts, of material nes, knit | 75,281,084 | 1.21 | 502,853 | 16,661,466 | 192,068 | 441,967 | 680,681 | 6,121,800 | 55,318 | 14,140 | 24,478,227 |
| 521142 Denim cotton nes, >85% +manmade fibre, >200g/m2 | 75,156,193 | 0.32 | 224,549 | 31,921,437 | 2,789,830 | 134,374 | - | 42,004 | - | 73,936 | 32,396,299 |
| 999999 Commodities not specified according to kind | 75,026,834 | | 653,122,385 | 6,408,966,321 | 47,590,683 | 81,859,269 | 24,566,233 | 78,283,525 | 353,657,564 | 226,445,078 | 7,826,900,376 |
| 020110 Bovine carcasses and half carcasses, fresh or chilled | 73,178,565 | 0.59 | 1,609,821 | 53,086 | 11,860 | 4,613,125 | 45,447 | 75,899 | - | 29,262 | 6,426,638 |
| 080410 Dates, fresh or dried | 70,763,593 | 0.14 | 6,704,065 | 2,210,802 | 4,129,610 | 3,328,907 | 377,494 | 811,241 | 232,360 | 110,093 | 13,774,960 |
| 520513 Cotton yarn >85% single uncombed 232-192 dtex,not ret | 68,645,900 | 0.13 | 34,890 | 120,141,834 | 1,837,749 | 80,170 | 127,936 | - | 1,594 | 8,035 | 120,394,459 |
| 521211 Woven cotton fabric, > 200g/m2, unbleached, nes | 67,954,084 | 0.43 | 3,710 | 7,941,825 | 182,422 | 12,231 | 50,059 | - | 283 | 25,924 | 8,034,031 |
| 520919 Woven cotton nes, >85% >200g/m2, unbleached, nes | 65,641,003 | 1.30 | 12,140 | 11,724,863 | 599,909 | 102,681 | 15,004 | - | 19,454 | - | 11,874,141 |
| 410790 Leather, of animals nes | 64,251,591 | | - | 12,623,349 | 600,496 | 2,220 | 178 | - | 8,016 | 3,828 | 12,637,590 |
| 611090 Pullovers, cardigans etc of material nes knit | 62,900,186 | 0.93 | 4,158,644 | 29,845,381 | 2,827,840 | 4,497,532 | 1,434,970 | 1,693,796 | 1,010,390 | 2,464,702 | 45,105,414 |
| 520523 Cotton yarn >85% single combed 232-192 dtex,not retai | 61,947,212 | 0.10 | 110,951 | 909,785,885 | 2,924,729 | 10,572 | 125,714 | - | - | - | 910,033,122 |
| 640399 Footwear, sole rubber, plastics uppers of leather, ne | 60,987,939 | 0.88 | 4,838,335 | 235,733,950 | 10,982,108 | 39,339,826 | 1,650,832 | 450,614 | 785,574 | 2,131,240 | 284,930,372 |
| 630629 Tents, of textile material nes | 59,335,891 | 1.44 | 4,200,487 | 1,741,946 | 642,551 | 1,003,174 | 688,261 | 86,785 | 229,471 | 128,649 | 8,078,772 |
| 520811 Plain weave cotton, >85% <100 g/m2, unbleached | 58,547,606 | 2.16 | 415,198 | 181,984,243 | 312,838 | 687,339 | 22,850 | 1,362,463 | 715 | 10,021 | 184,482,828 |
| 410520 Sheep or lamb skin leather, nes | 55,787,943 | 0.17 | 314 | 108,735,552 | 1,770,849 | 39,547 | 4,513 | 2,629 | - | 25,727 | 108,808,282 |
| 730890 Structures and parts of structures, iron or steel, ne | 55,428,452 | 0.56 | 77,698,994 | 322,793,020 | 44,599,270 | 242,663,610 | 9,533,548 | 15,283,081 | 171,275,123 | 23,513,896 | 862,761,272 |
| SUB-TOTAL | 1,927,243,259 | | 814,616,713 | 9,236,412,971 | 143,642,612 | 416,877,581 | 42,413,919 | 114,672,138 | 540,512,894 | 257,555,893 | 11,423,062,110 |
| | | | | | | | | | | | |
| | Pakistan Exports | | Imports of Central and South Asia | | | | | | | | |
| Commodity Description | AVG 2010-13 | 2004-13% | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan | TOTAL |
| EMERGING EXPORTS (\$40 MILLION < x < \$55 MILLION) | | | | | | | | | | | |
| 300490 Medicaments nes, in dosage | 52,657,734 | 0.13 | 68,980,267 | 6,061,804,282 | 228,831,001 | 733,057,931 | 124,639,081 | 35,640,189 | 60,670,714 | 325,526,259 | 7,410,318,722 |
| 821420 Manicure or pedicure sets and instruments | 52,282,874 | 0.22 | 38,560 | 3,230,660 | 368,858 | 1,061,334 | 62,800 | 21,064 | 9,717 | 106,084 | 4,530,219 |
| 610990 T-shirts, singlets etc, of material nes, knit | 52,255,029 | 0.55 | 1,320,716 | 423,256,606 | 2,738,081 | 5,849,789 | 621,559 | 6,121,109 | 157,932 | 308,995 | 437,636,706 |
| 551321 Woven plain >85% polyester + cotton, <170g/m2 dyed | 52,079,005 | 0.72 | 1,857,357 | 3,391,159 | 917,752 | 92,043 | 41,940 | 908,612 | 42,581 | 80,725 | 6,414,416 |
| 611692 Gloves, mittens or mitts, nes, of cotton, knit | 49,719,875 | 0.12 | 14,434 | 4,413,004 | 42,278 | 1,945,222 | 73,361 | 4,694,821 | 84,300 | 264,640 | 11,489,782 |
| 390319 Polystyrene, except expandable in primary forms | 49,609,045 | 0.45 | 30,065 | 99,577,547 | 6,160,465 | 9,913,737 | 586,058 | 91,873 | 221,281 | 2,670,495 | 113,091,055 |
| 610462 Womens, girls trousers & shorts, of cotton, knit | 47,658,920 | 0.14 | 54,073 | 114,697,296 | 84,387 | 3,153,807 | 400,558 | 13,348,849 | 419,955 | 1,732,616 | 133,807,155 |
| 630391 Curtains drapes blinds valances, cotton, not knit | 47,365,275 | (0.03) | 5,401 | 97,975,634 | 13,690 | 288,264 | 10,103 | 18,261 | 191,150 | 5,620 | 98,494,433 |
| 520831 Plain weave cotton, >85% <100 g/m2, dyed | 47,229,767 | 1.81 | 1,975,361 | 83,112,009 | 5,405,836 | 42,549 | 42,532 | - | 7,771 | 10,398 | 85,190,619 |
| 620469 Womens, girls trousers, shorts, material nes, not kni | 46,957,977 | | 554,981 | 51,679,887 | 159,186 | 2,759,381 | 2,985,737 | 259,355 | 22,757 | 310,537 | 58,572,636 |
| 520852 Plain weave cotton, >85% 100-200g/m2, printed | 46,687,582 | 0.73 | 907,322 | 167,841,673 | 1,799,287 | 1,481,579 | 42,158 | 54,018 | - | 42,697 | 170,369,447 |
| 950699 Equipment nes for sports, swimming and paddling pools | 46,384,578 | (0.05) | 817,531 | 70,320,890 | 6,927,445 | 7,148,790 | 243,440 | 504,783 | 2,960,763 | 948,648 | 82,944,845 |
| 610332 Mens, boys jackets & blazers, cotton, knit | 46,207,342 | 0.17 | 98,370 | 24,779,208 | 4,325 | 426,528 | 132,683 | 3,286,013 | 69,735 | 14,812 | 28,807,349 |
| 520851 Plain weave cotton, >85% <100 g/m2, printed | 45,033,508 | 0.19 | 38,960 | 110,501,458 | 20,657,116 | 289,268 | 37,096 | - | - | 184 | 110,866,966 |
| 100590 Maize except seed corn | 43,671,325 | | 448,173 | 981,926,491 | 450,329 | 190,449 | 171,132 | 1,287,854 | 130,580 | 1,270,289 | 985,424,967 |
| 050400 Guts, bladders and stomachs of animals except fish | 43,668,204 | 0.18 | 19,703 | 5,524,075 | 273,741 | 3,268,051 | 60,344 | 185 | - | 101,595 | 8,973,952 |
| 080450 Guavas, mangoes and mangosteens, fresh or dried | 43,658,857 | 0.15 | 2,293,603 | 199,988,034 | 1,860 | 200,820 | 3,699 | 146 | 28,577 | 5,081 | 202,519,960 |
| 030613 Shrimps and prawns, frozen | 43,635,509 | 0.17 | 1,031,981 | 1,722,317,393 | 15,871 | 2,073,713 | 30,569 | 3,936 | 19,873 | 42,096 | 1,725,519,560 |
| 520839 Woven cotton nes, >85% <200g/m2, dyed | 43,070,858 | 1.13 | 22,271 | 4,516,149 | 772,057 | 151,850 | 268,887 | 32,933 | 11,544 | 5,204 | 5,008,837 |
| 630399 Curtains drapes blinds valances, material nes, woven | 42,458,775 | 0.35 | 94,664 | 40,267,749 | 87,419 | 1,201,936 | 30,507 | 9,366 | 474,558 | 46,764 | 42,125,542 |
| 610342 Mens, boys trousers & shorts, of cotton, knit | 41,943,134 | 0.06 | 125,947 | 74,473,885 | 142,156 | 3,769,830 | 595,080 | 26,797,802 | 352,098 | 1,362,079 | 107,476,721 |
| 611599 Hosiery nes, of materials nes, knit | 40,813,262 | 0.21 | 452,156 | 26,505,886 | 157,607 | 4,246,033 | 2,233,733 | 71,832 | 284,295 | 50,485 | 33,844,419 |
| 252610 Natural steatite, not crushed or powdered | 40,374,502 | 1.18 | 16,919 | 5,581,813 | 11,201,493 | 880 | 121 | - | 2,050 | 1,792 | 5,603,574 |
| SUB-TOTAL | 1,065,422,934 | | 81,198,814 | 10,377,682,785 | 287,212,240 | 782,613,782 | 133,313,176 | 93,153,000 | 66,162,230 | 334,908,091 | 11,869,031,878 |

Table A.15: Exports of Kazakhstan by Size of Exports (HS 6-digit category and U.S. dollars)

| | | Kazakhstan Exports | | Imports of Central and South Asia | | | | | | | | |
|--|---|--------------------|----------|-----------------------------------|-----------------|----------------|----------------|---------------|---------------|---------------|---------------|-----------------|
| | Commodity Description | AVG 2010-13 | 2004-13% | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan | TOTAL |
| | TOTAL | 157,230,982,468 | | 5,230,971,622 | 174,676,807,311 | 40,800,641,965 | 18,367,371,900 | 3,061,731,614 | 1,849,626,438 | 1,834,203,457 | 4,481,599,994 | 231,935,582,400 |
| LARGE-SIZE EXPORTS (> \$250 MILLION) | | | | | | | | | | | | |
| 270900 | Petroleum oils, oils from bituminous minerals, crude | 50,955,129,402 | 0.28 | 22,156,647 | 8,742,703 | 5,314,340,632 | 2,220,511,507 | 3,507,613 | 106,694,120 | 664 | 304,245,137 | 5,759,687,515 |
| 740311 | Copper cathodes and sections of cathodes unwrought | 2,691,222,024 | 0.22 | 25,723 | 2,821,383,962 | 71,318,896 | 252,800 | 5,402 | - | 40,422 | - | 2,892,774,404 |
| 271000 | Oils petroleum, bituminous, distillates, except crude | 2,639,889,370 | 0.35 | 1,329,822,185 | 52,772,861,114 | 9,398,675,314 | 1,219,891,358 | 929,421,199 | 283,335,662 | 45,941,852 | 327,960,777 | 65,088,018,103 |
| 284410 | Natural uranium, its compounds, mixtures | 2,279,278,219 | 0.46 | - | 58,261 | 4,484 | 4,111,046 | - | - | - | - | 62,745 |
| 720241 | Ferro-chromium, >4% carbon | 2,035,813,862 | 0.32 | - | 827,418,317 | 407,376 | 1,116,424 | 61,522 | 8,212 | - | - | 827,895,426 |
| 271121 | Natural gas in gaseous state | 1,831,871,662 | 0.40 | - | 5,129,862 | 11,669 | 360,728,868 | 67,236,551 | - | - | 12,458 | 72,390,540 |
| 260112 | Iron ore, concentrate, not iron pyrites, agglomerated | 1,123,043,573 | 0.34 | - | 70,455,849 | 10,706,702 | 5,040,010 | - | 32,621 | 113,826 | - | 81,308,998 |
| 100190 | Wheat except durum wheat, and meslin | 1,042,240,515 | 0.31 | 28,139,464 | 437,382,335 | 5,756,427 | 1,877,949 | 76,439,065 | 122,514,224 | 512,908 | 86,051,618 | 756,796,040 |
| 260111 | Iron ore, concentrate, not iron pyrites,unagglomerate | 854,447,911 | 0.42 | 806 | 3,521,219,991 | 28,437,277 | 15,912,102 | 727,259 | 39,676 | 1,496,716 | 803 | 3,551,922,527 |
| 271112 | Propane, liquefied | 785,351,555 | 0.40 | 31,267,579 | 1,346,743 | 114,987 | 8,409,324 | 2,635,000 | 78,591,054 | 141,762 | - | 114,097,124 |
| 270119 | Coal except anthracite or bituminous, not agglomerate | 743,314,929 | 0.36 | 215,972 | 152,314,587 | 467,962,062 | 1,277,625 | 37,885,951 | 263,007 | - | 3,126,534 | 661,768,113 |
| 260300 | Copper ores and concentrates | 708,659,248 | 0.32 | - | 18,138,533 | - | 2,966,852 | 9,632 | - | - | 19,848,850 | 37,997,015 |
| 790111 | Zinc, not alloyed, unwrought, >99% pure | 676,583,186 | 0.25 | 53,051 | 570,347,460 | 8,229,561 | 1,292,025 | 6,404 | 13,134 | 1,671 | 26,842 | 578,678,123 |
| 710691 | Silver in unwrought forms | 637,937,268 | 0.24 | 579 | 1,646,198 | 16,807,110 | 1,849,464 | - | - | - | - | 18,453,886 |
| 710812 | Gold in unwrought forms non-monetary | 608,087,438 | 0.21 | - | 755,238,236 | 245,810,350 | 328,470 | 16,990,471 | - | 37,188,449 | 14,595 | 1,055,242,100 |
| 110100 | Wheat or meslin flour | 567,243,336 | 0.35 | 330,287,933 | 68,338,053 | 17,087,823 | 1,313,117 | 31,741,774 | 92,745,581 | 23,091,244 | 279,518,991 | 842,811,399 |
| 760110 | Aluminium unwrought, not alloyed | 442,718,991 | 0.20 | 26,533 | 650,959,537 | 32,297,572 | 2,515,198 | 125,515 | 2,246 | 210 | 28,307,208 | 711,718,820 |
| 271113 | Butanes, liquefied | 354,371,910 | 0.34 | 264,916 | 82,691 | 1,930 | 1,024,734 | 772,286 | 1,495,280 | 4,235 | 10,156 | 2,631,494 |
| 250310 | Sulphur, crude or unrefined | 341,434,550 | 1.15 | 23,745 | 47,161,313 | 15,237,808 | 243,439 | 107,347 | 29,695 | 2,546 | 148,595 | 62,711,049 |
| 721049 | Flat rolled iron or non-alloy steel, coated with zinc, width >6 | 311,084,682 | 0.07 | 11,993,309 | 821,818,581 | 167,034,282 | 51,893,379 | 15,439,695 | 25,686,783 | 5,777,838 | 137,357,315 | 1,185,107,802 |
| 270720 | Semi-finished product, iron or non-alloy steel >0.25%C | 305,559,472 | 0.41 | 58,432 | 4,366,958 | 11,219,225 | 2,043,958 | 10,687 | 43,510 | 40,901,221 | 121,572 | 56,721,604 |
| 281820 | Aluminium oxide, except artificial corundum | 302,431,969 | 0.10 | 175,000 | 611,501,160 | 1,498,432 | 1,124,367 | 14,065 | 18,891,120 | 111,973 | 1,191,006 | 633,382,755 |
| 720824 | Hot rolled iron or non-alloy steel, coil,width >600mm, t <3m | 290,540,364 | 0.22 | 1,580,522 | 487,067,694 | 245,642,951 | 4,458,616 | 2,997,848 | 110,497 | 1,488,262 | 35,650,095 | 774,537,868 |
| 261000 | Chromium ores and concentrates | 285,670,204 | 0.42 | - | 86,260,583 | 297,656 | 58,015 | - | - | - | 30,000 | 86,588,238 |
| 720230 | Ferro-silico-manganese | 254,605,504 | 0.24 | 26,167 | 841,823,517 | 16,012,431 | 2,796,201 | - | 485 | 290,359 | 1,212,326 | 859,365,285 |
| 780110 | Lead refined unwrought | 250,505,313 | 0.28 | - | 97,100,060 | 69,597,981 | 828,566 | - | 96,806 | 2,013 | 7,249,997 | 174,046,857 |
| | SUB-TOTAL | 73,319,036,456 | | 1,756,118,563 | 65,680,164,296 | 16,144,510,938 | 3,913,865,409 | 1,186,135,284 | 730,593,708 | 157,108,168 | 1,232,084,873 | 86,886,715,830 |
| | | | | | | | | | | | | |
| | | Kazakhstan Exports | | Imports of Central and South Asia | | | | | | | | |
| | Commodity Description | AVG 2010-13 | 2004-13% | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan | TOTAL |
| MEDIUM-SIZE EXPORTS (\$65 MILLION < x < \$250 MILLION) | | | | | | | | | | | | |
| 270112 | Bituminous coal, not agglomerated | 219,598,153 | 0.30 | 5,812 | 817,698 | 1,264,143 | 265,889 | 1,169,146 | 151,249 | 13,519 | 3,780 | 3,425,347 |
| 710813 | Gold, semi-manufactured forms, non-monetary | 212,983,459 | 0.39 | - | 5,919,464 | 787 | 285,648 | 132,159 | - | 52,620 | - | 6,105,029 |
| 720250 | Ferro-silico-chromium | 202,181,442 | 0.50 | - | 6,287,980 | - | - | - | - | - | - | 6,287,980 |
| 490700 | Documents of title (bonds etc), unused stamps etc | 198,526,936 | 1.81 | 4,864,267 | 19,891,412 | 306,651,379 | 570,858,489 | 2,241,847 | 8,099,028 | 5,544,592 | 4,511,243 | 351,803,767 |
| 720249 | Ferro-chromium, <4% carbon | 197,058,930 | 0.35 | - | 3,578,368 | 157,422 | 304,141 | 1,038,061 | - | - | 1,215,774 | 5,989,624 |
| 260800 | Zinc ores and concentrates | 191,833,936 | 1.04 | - | 88,355,577 | - | 9,147,568 | 52 | - | - | 74,767,916 | 163,123,544 |
| 720449 | Ferrous waste or scrap, nes | 184,401,705 | 0.23 | 1,097,021 | 696,267 | 340,039,501 | 2,900,649 | 2,626 | 409,714 | 19,112 | 53,729,270 | 395,993,512 |
| 280470 | Phosphorus | 168,429,865 | 0.28 | - | 3,760,018 | 762,757 | 5,100 | - | - | - | 107,983 | 4,630,757 |
| 721012 | Flat rolled iron or non-alloy steel, coated with tin, w >600mm | 164,382,402 | 0.03 | 87,505 | 58,276,872 | 24,068,609 | 355,467 | 688,115 | 326,747 | 12,834 | 11,073,101 | 94,533,782 |
| 810810 | Titanium, unwrought, waste or scrap, powders | 149,983,687 | 0.12 | - | 756,228 | 904 | 48,563 | - | - | - | 13,067 | 770,198 |
| 271119 | Petroleum gases & gaseous hydrocarbons nes, liquefied | 144,047,478 | 0.83 | 3,449,920 | 162,080,479 | 62,366,189 | 171,862 | 2,258,595 | 3,771,320 | 6,337 | 407,524 | 234,340,362 |
| 740811 | Wire of refined copper > 6mm wide | 135,151,536 | 2.67 | 267,000 | 162,692,679 | 654,379 | 1,293,128 | 21,319 | 260,134 | 116,048 | 147,070 | 164,158,629 |
| 720923 | Cold rolled iron or non-alloy steel, coil, width >600mm, t 0.5 | 134,741,635 | (0.02) | 2,878,449 | 57,267,891 | 18,595,515 | 12,043,865 | 1,296,169 | 72,951 | 90,789 | 49,587,347 | 129,789,109 |
| 847120 | Digital computers with cpu and input-output units | 127,109,676 | - | 24,421,275 | 58,129,062 | 117,956,603 | 458,951,616 | 6,816,615 | 2,447,910 | 29,262,411 | 5,127,613 | 244,161,488 |
| 880240 | Fixed wing aircraft, unladen weight > 15,000 kg | 123,258,492 | 1.79 | 3,011,728 | 782,623,933 | 10,996,102 | 389,631,677 | 17,878,456 | 526,522 | 41,423,519 | 180,171,408 | 1,036,631,667 |
| 520100 | Cotton, not carded or combed | 89,547,018 | 0.00 | 1,092,369 | 3,630,615,645 | 715,678,311 | 4,011,272 | 271,057 | 83,723 | 23,387 | 782,996 | 4,348,547,486 |
| 260200 | Manganese ores, concentrates, iron ores >20% Manganese | 88,168,828 | 0.35 | - | 11,481,141 | 574,263 | 461,765 | - | - | 39,501 | 2,015,211 | 14,110,117 |
| 120400 | Linseed | 80,506,696 | 3.46 | 6,669,602 | 7,548,981 | 43,612 | 714,031 | - | 158,275 | - | 935,615 | 15,356,084 |
| 100300 | Barley | 74,406,664 | 0.41 | 1,940,845 | 41,313,656 | 759,461 | 14,250,555 | 1,644,957 | 1,374,117 | - | 8,140,013 | 55,173,049 |
| 710811 | Gold powder non-monetary | 72,628,114 | 0.90 | - | 2,935 | - | 3,078 | - | - | 3,977 | - | 6,912 |
| 720845 | Hot rolled iron or non-alloy steel, flat,width >600mm, t <3m | 67,660,296 | 0.38 | 1,954,168 | 10,009,817 | 1,185,754 | 4,914,477 | 2,360,981 | 2,195,475 | 957,887 | 10,628,303 | 29,292,385 |
| 281990 | Chromium oxides, hydroxides except chromium trioxide | 66,991,248 | 0.34 | - | 632,735 | 245,816 | 126,427 | 5,137 | - | 960 | 54,742 | 939,389 |
| 848250 | Bearings, cylindrical roller, nes | 66,307,869 | 0.30 | 83,131 | 37,243,457 | 2,315,668 | 5,516,555 | 157,477 | 68,532 | 751,576 | 1,352,075 | 41,971,915 |
| | SUB-TOTAL | 3,159,906,061 | | 51,823,090 | 5,149,982,291 | 1,604,317,174 | 1,476,261,820 | 37,982,766 | 19,945,696 | 78,319,064 | 404,772,050 | 7,347,142,131 |

(Continued)

Table A.15: Exports of Kazakhstan by Size of Exports (HS 6-digit category and U.S. dollars) – Continued

| Commodity Description | Kazakhstan Exports | | | Imports of Central and South Asia | | | | | | | | TOTAL |
|-----------------------|---|---------------|-------------|-----------------------------------|---------------|-------------|---------------|-------------|--------------|-------------|-------------|---------------|
| | AVG 2010-13 | 2004-13% | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan | | |
| | SMALL-SIZE EXPORTS (\$30 MILLION < x < \$65 MILLION) | | | | | | | | | | | |
| 250629 | Quartzite, slabs etc. | 64,526,513 | - | 243 | 8,694,771 | 132,756 | 453,457 | 29,830 | 47,388 | 11,663 | 484,361 | 9,401,012 |
| 740200 | Unrefined copper, copper anodes, electrolytic refinin | 64,248,467 | 0.43 | 1,999 | 1,828,898 | 123,050 | 19,711 | - | - | 14,103 | 3,794 | 1,971,844 |
| 252400 | Asbestos | 62,743,341 | 0.15 | - | 28,359 | 3,590,182 | 45,514 | 4,217,089 | 101,843 | 2,846,664 | 32,419,093 | 43,203,229 |
| 240220 | Cigarettes containing tobacco | 62,731,340 | 0.26 | 64,875,998 | 79,581,877 | 1,657,094 | 97,079,003 | 45,207,737 | 4,703,363 | 17,454,871 | 15,751,284 | 229,232,223 |
| 730420 | Casings, tubing and drill pipe, for oil drilling | 62,344,971 | 1.54 | 645,144 | 202,262,862 | 74,190,241 | 365,306,386 | 1,818,015 | 1,275,534 | 117,978,872 | 76,040,727 | 474,211,395 |
| 271600 | Electrical energy | 59,945,857 | 0.41 | 2,197,663 | 161,506 | 5,272,532 | 134,275,338 | 115,888 | - | - | 22,896,775 | 30,644,362 |
| 740400 | Copper/copper alloy waste or scrap | 59,204,044 | 0.64 | 100,701 | 37,944,824 | 4,180,705 | 1,527,784 | 833,227 | 319 | - | 3,547 | 43,063,321 |
| 030420 | Fish fillets, frozen | 58,417,333 | 0.28 | 5,541,003 | 58,639,621 | 1,596,462 | 4,915,196 | 278,537 | 21,716 | 109,399 | 337,819 | 66,524,556 |
| 283531 | Sodium triphosphate | 58,081,187 | 0.43 | 1,220 | 182,692 | 8,279,204 | 615,348 | 43,696 | 5,845 | 134,618 | 1,669,126 | 10,316,400 |
| 284420 | Uranium (enriched U235), plutonium compounds, alloys | 57,501,260 | 0.65 | - | 10,635 | - | 77,833,638 | - | - | - | - | 10,635 |
| 720821 | Hot rolled iron or non-alloy steel, coil,width >600mm, t >10mm, nes | 55,991,462 | 2.76 | 143,629 | 75,629,928 | 8,896,419 | 185,319 | - | 10,732 | 34,016 | 962,505 | 85,677,228 |
| 810310 | Tantalum unwrought, bars, rods simply sintered, scrap | 55,762,329 | 0.39 | - | 398,340 | 1,171 | 21,282,740 | - | - | - | - | 399,511 |
| 720921 | Cold rolled iron or non-alloy steel, coil, width >600mm, t >3mm, nes | 52,157,073 | 0.66 | 53,358 | 37,060,389 | 20,016,161 | 64,987 | 29,116 | - | 31,567 | 1,550 | 57,192,140 |
| 720924 | Cold rolled iron or non-alloy steel, coil, width >600mm, t <0.5mm, nes | 50,339,457 | 0.12 | 1,115,881 | 193,742,895 | 27,972,142 | 88,521 | 87,026 | 46,662 | 1,433 | 675,276 | 223,641,314 |
| 720941 | Cold rolled iron or non-alloy steel, flat, width >600mm, t >3mm, nes | 49,138,637 | - | 84,027 | 11,833,831 | 316,188 | 824,078 | 57,665 | 31,434 | 59,008 | 429,790 | 12,811,941 |
| 100110 | Durum wheat | 46,510,207 | 0.44 | 11,368,708 | 251,463,802 | 58,520,622 | 175,547 | 350,430 | 1,376,810 | 146,363 | 565,187 | 323,791,921 |
| 720922 | Cold rolled iron or non-alloy steel, coil, width >600mm, t 1-3mm, nes | 45,411,537 | 0.06 | 437,080 | 53,037,959 | 62,829,787 | 358,815 | 876,120 | 36,780 | 85,006 | 8,200,392 | 125,503,124 |
| 721070 | Flat rolled iron or non-alloy steel, painted/plastic coated,width>600mm | 45,145,849 | - | 3,659,289 | 200,919,732 | 20,971,976 | 88,866,007 | 11,434,584 | 13,430,522 | 3,711,977 | 52,813,910 | 306,941,990 |
| 890400 | Tugs and pusher craft | 41,418,608 | - | 3 | 962,894,518 | 458 | 79,384,511 | - | - | 4,530,614 | - | 967,425,593 |
| 270210 | Lignite, not agglomerated | 39,802,437 | 0.76 | - | 1,183,624 | 21,902 | 830,325 | 684,630 | 153,024 | - | 1,734,944 | 3,778,124 |
| 281910 | Chromium trioxide | 37,739,470 | 0.18 | 48 | 597,475 | 1,314,387 | 32,771 | 6,080 | 362 | - | 188,788 | 2,107,141 |
| 848180 | Taps, cocks, valves and similar appliances, nes | 35,183,359 | 0.25 | 9,278,879 | 571,942,150 | 60,148,624 | 359,823,016 | 2,599,416 | 4,812,920 | 120,752,789 | 39,157,831 | 808,692,608 |
| 850710 | Lead-acid electric accumulators (vehicle) | 34,331,025 | 0.36 | 22,671,646 | 40,729,623 | 386,493 | 40,474,730 | 6,651,102 | 4,656,112 | 9,834,937 | 7,191,527 | 92,121,440 |
| 390210 | Polypropylene in primary forms | 33,625,684 | - | 309,500 | 1,094,757,714 | 378,006,858 | 18,277,878 | 3,291,944 | 307,688 | 1,055,027 | 40,068,231 | 1,517,796,963 |
| 261690 | Precious metal ores and concentrates except silver | 32,772,743 | 0.29 | 13,010 | 27,444,649 | 2,564 | 151,122,067 | 233 | - | - | - | 27,460,455 |
| 271320 | Petroleum bitumen | 31,663,962 | - | 41,250,481 | 31,378,129 | 21,983,663 | 117,856,824 | 21,697,450 | 7,255,987 | 11,406,850 | 20,867,281 | 155,839,839 |
| 790112 | Zinc, not alloyed, unwrought, <99% pure | 30,767,044 | 1.24 | 1,369,862 | 23,909,249 | 9,872,595 | 76,403 | 55 | - | 4,922 | 47,633 | 35,204,315 |
| 720843 | Hot rolled iron or non-alloy steel, flat,width >600mm, t 4.75-10mm, nes | 30,502,879 | 0.07 | 1,555,974 | 32,417,732 | 3,656,505 | 13,803,937 | 4,333,353 | 1,730,909 | 3,669,345 | 9,995,208 | 57,359,026 |
| 740500 | Master alloys of copper | 30,326,472 | 0.29 | - | 6,161,405 | 60,252 | 66,905 | 12,387 | - | 610 | 109,555 | 6,344,209 |
| | SUB-TOTAL | 1,388,334,546 | - | 166,675,344 | 4,006,839,186 | 774,000,994 | 1,575,666,750 | 104,655,605 | 40,005,948 | 293,874,649 | 332,616,131 | 5,718,667,856 |
| Commodity Description | Kazakhstan Exports | | | Imports of Central and South Asia | | | | | | | | TOTAL |
| | AVG 2010-13 | 2004-13% | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan | | |
| | EMERGING EXPORTS (\$15 MILLION < x < \$30 MILLION) | | | | | | | | | | | |
| 120500 | Rape or colza seeds | 29,899,776 | 1.59 | 4,516 | 201,693 | 439,575,837 | 2,659,610 | 1,350 | 86,307 | - | 29,706 | 439,899,409 |
| 890600 | Warships, lifeboats, hospital ships, vessels nes | 29,850,898 | 1.20 | 24,757 | 369,458,425 | 344,987 | 33,534,971 | 6,693 | 887 | 4,067,296 | 66,000 | 373,969,045 |
| 720942 | Cold rolled iron or non-alloy steel, flat, width >600mm, t 1-3mm, nes | 29,458,539 | 0.16 | 630,053 | 5,712,044 | 10,547,975 | 945,956 | 2,009,994 | 1,460,088 | 466,924 | 19,853,200 | 40,680,277 |
| 720711 | Rectangular iron or non-alloy steel bars, <25%C, width< twice thicknes | 28,451,139 | - | - | 30,790,956 | 4,736,312 | 1,161,224 | 4,639 | - | 3,161,197 | - | 38,693,105 |
| 271500 | Bituminous mix, mastic from asphalt, bitumen/tar/pitc | 28,207,787 | - | 151,830 | 1,163,605 | 1,792,074 | 12,526,426 | 787,954 | 379,897 | 517,731 | 934,855 | 5,727,946 |
| 310559 | Fertilizers with nitrogen and phosphorus nes, <=10kg | 26,566,845 | 0.69 | 4,105,856 | 103,396 | 3,237,777 | 1,369,099 | 804,170 | 792,403 | 36,201 | 10,865 | 9,090,668 |
| 890590 | Floating docks, special function vessels nes | 25,805,224 | - | 7,383 | 1,420,195,520 | 1,817,673 | 30,343,299 | 109 | - | 21,456,403 | - | 1,443,477,088 |
| 720943 | Cold rolled iron or non-alloy steel, flat, width >600mm, t 0.5-1mm, nes | 25,804,337 | (0.02) | 1,568,561 | 10,661,422 | 20,302,826 | 179,010 | 1,779,771 | 170,996 | 393,526 | 11,586,220 | 46,463,321 |
| 410429 | Bovine and equine leather, tanned or retanned, nes | 25,765,884 | - | 447,622 | 2,635,634 | 2,372,091 | 115,453 | 320,979 | - | - | - | 5,776,325 |
| 730511 | Pipe-line submerged arc welded steel diameter >406mm | 25,067,891 | - | 27,054 | 1,265,403,661 | 7,182,737 | 615,120,291 | 58,748 | 163,387 | 128,512,530 | 55,130,254 | 1,456,478,369 |
| 720421 | Waste or scrap, of stainless steel | 25,048,597 | 0.21 | 103,708 | 7,458,001 | 5,612,430 | 158,317 | 93,100 | - | 21,818 | 283,975 | 13,573,031 |
| 251110 | Natural barium sulphate (barytes) | 24,968,720 | 0.27 | 62,187 | 138,765,238 | 1,471,154 | 54,994 | 141,849 | 856,059 | 15,551,554 | 1,854,052 | 158,702,093 |
| 310230 | Ammonium nitrate, including solution, in pack >10 kg | 24,897,017 | 1.51 | 224,300 | 6,774,124 | 2,771,585 | 63,173,309 | 38,896,165 | 1,297,223 | 1,864,431 | 2,540,799 | 54,368,627 |
| 260700 | Lead ores and concentrates | 24,122,298 | 0.82 | - | 53,331,187 | 107,329 | 84,092,251 | 665 | - | - | - | 53,439,181 |
| 720823 | Hot rolled iron or non-alloy steel, coil,width >600mm, t 3-4.75mm, nes | 23,342,486 | 0.10 | 21,197 | 222,426,456 | 76,944,076 | 699,650 | 301,287 | 3,553 | 83,208 | 7,026,893 | 306,806,669 |
| 220210 | Beverage waters, sweetened or flavoured | 22,999,311 | 0.53 | 26,613,287 | 1,809,233 | 4,125,749 | 19,187,618 | 14,313,348 | 8,145,597 | 7,173,564 | 837,785 | 63,018,563 |
| 851782 | Telegraphic apparatus, nes | 22,926,811 | 2.25 | 95,091,796 | 246,087,410 | 463,855,403 | 288,468,833 | - | 15,795,106 | 38,300,779 | 75,385,187 | 934,515,681 |
| 170490 | Sugar confectionery not chewing gum, no cocoa content | 21,694,877 | 0.44 | 38,726,818 | 54,711,788 | 4,105,952 | 68,466,064 | 18,282,486 | 19,590,380 | 22,334,537 | 4,479,390 | 162,231,351 |
| 180690 | Chocolate/cocoa food preparations nes | 20,319,491 | 0.60 | 5,701,933 | 33,260,044 | 1,413,364 | 126,470,748 | 38,672,391 | 32,447,184 | 33,620,934 | 9,621,823 | 154,737,673 |
| 284130 | Sodium dichromate | 20,151,141 | 0.17 | - | 3,466,996 | 2,725,320 | 6,197 | 2,007 | - | 750,170 | 93,545 | 7,038,039 |
| 251020 | Natural calcium phosphates, ground | 19,783,943 | 0.86 | 4,758 | 46,430 | 1,344,579 | 56,888 | - | 5 | 4,262,975 | 2,090,258 | 7,749,005 |
| 852810 | Colour television receivers/monitors/projectors | 19,598,305 | 1.60 | 11,513,389 | 265,784,159 | 3,686,371 | 208,917,173 | 7,061,287 | 4,052,520 | 26,442,832 | 20,489,607 | 339,030,165 |
| 210690 | Food preparations nes | 19,492,677 | 0.61 | 35,013,465 | 122,200,851 | 38,601,249 | 160,987,874 | 18,361,366 | 5,871,101 | 14,358,200 | 9,318,082 | 243,724,313 |
| 720822 | Hot rolled iron or non-alloy steel, coil,width >600mm, t 4.75-10mm, nes | 19,223,117 | 0.42 | 191 | 264,359,931 | 28,081,285 | 459,954 | 26,079 | 9,524 | 71,759 | 4,900,033 | 297,448,800 |
| 720719 | Semi-finished product, iron or non-alloy steel <0.25%C, nes | 18,971,532 | - | 47,955 | 286,360,603 | - | 3,746,101 | 3,773 | 408,483 | 221,546 | 11,549 | 287,053,910 |
| 252329 | Portland cement, other than white cement | 17,722,197 | 2.85 | 282,371,857 | 132,582,484 | 1,155,730 | 113,102,067 | 3,262,219 | 24,986,188 | 33,131,466 | 1,520,172 | 479,010,114 |
| 100630 | Rice, semi-milled or wholly milled | 17,199,922 | - | 96,302,507 | 4,932,723,934 | 9,323,413 | 11,561,590 | 17,114,344 | 10,737,279 | 25,023,642 | 1,491,221 | 5,082,716,340 |
| 720844 | Hot rolled iron or non-alloy steel, flat,width >600mm, t 3.0-4.75mm, ne | 16,833,686 | 0.06 | 796,937 | 9,000,341 | 2,118,126 | 4,666,771 | 2,483,157 | 976,056 | 693,992 | 8,179,845 | 24,248,454 |
| 852520 | Transmit-receive apparatus for radio, TV, etc. | 16,540,624 | 1.34 | 23,809,210 | 2,483,267,961 | 662,500,861 | 329,917,745 | 37,906,706 | 1,508,544 | 2,761,654 | 10,867,946 | 3,222,622,883 |
| 251221 | Cotton-seed oil crude | 16,251,551 | 0.80 | 90,050 | - | - | 4,258 | 4,730,269 | 2,346,536 | 33,994 | 10,009,110 | 17,209,958 |
| 720842 | Hot rolled iron or non-alloy steel, flat,width >600mm, t >10mm, nes | 15,488,839 | 0.16 | 16,287,832 | 95,622,192 | 14,569,404 | 34,480,237 | 4,473,894 | 2,061,054 | 2,470,215 | 8,893,155 | 144,377,744 |
| 710692 | Silver semi-manufactured including gold/platinum plat | 15,377,890 | (0.99) | 5,277 | 23,641,064 | 15,967,267 | 215,101 | 5,173 | - | 11,474 | 5,876 | 39,636,130 |
| 720944 | Cold rolled iron or non-alloy steel, flat, width >600mm, t <0.5mm, nes | 15,211,610 | (0.01) | 1,090,744 | 4,067,222 | 937,661 | 31,647 | 105,810 | 57,893 | 3,296 | 3,507,522 | 9,770,148 |
| 760200 | Waste or scrap, aluminium | 15,169,215 | 0.92 | 21,7, | | | | | | | | |

Table A.16: Exports of Kyrgyzstan by Size of Exports (HS 6-digit category and U.S. dollars)

| | | Kyrgyzstan Exports | | | Imports of Central and South Asia | | | | | | | |
|---|---|--------------------|----------|---------------|-----------------------------------|----------------|----------------|---------------|---------------|---------------|---------------|-----------------|
| | Commodity Description | AVG 2010-13 | 2004-13% | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan | TOTAL |
| TOTAL | | 3,093,944,682 | | 6,911,069,380 | 170,272,421,686 | 24,621,924,286 | 11,252,128,148 | 3,196,667,509 | 1,319,730,994 | 2,108,518,173 | 4,433,444,540 | 220,919,237,207 |
| LARGE-SIZE EXPORTS (> \$8 MILLION) | | | | | | | | | | | | |
| 710812 | Gold in unwrought forms non-monetary | 743,179,536 | 0.23 | - | 755,238,236 | 245,810,350 | 328,470 | 16,990,471 | - | 37,188,449 | 14,595 | 1,038,580,099 |
| 271000 | Oils petroleum, bituminous, distillates, except crude | 105,870,396 | 0.26 | 1,329,822,185 | 52,772,861,114 | 9,398,675,314 | 1,219,891,358 | 929,421,199 | 283,335,662 | 45,941,852 | 327,960,777 | 65,378,488,262 |
| 999999 | Commodities not specified according to kind | 82,164,680 | 2.92 | 653,122,385 | 6,408,966,321 | 47,590,683 | 81,859,269 | 24,566,233 | 78,283,525 | 353,657,564 | 226,445,078 | 7,849,924,826 |
| 071333 | Kidney beans and white pea beans dried shelled | 52,031,608 | 0.41 | 53,051 | 41,204 | 47,571,317 | 2,068,406 | 5,675 | 6,423 | 80,728 | 1,446 | 49,822,574 |
| 271600 | Electrical energy | 51,381,421 | 0.09 | 2,197,663 | 161,506 | 5,272,532 | 134,275,338 | 115,888 | - | - | 22,896,775 | 164,803,812 |
| 870423 | Diesel powered trucks weighing > 20 tonnes | 28,515,962 | | 47,298,973 | 46,635,603 | 15,314,213 | 194,775,403 | 41,073,174 | 36,134,353 | 97,583,904 | 117,797,536 | 555,539,983 |
| 520100 | Cotton, not carded or combed | 28,134,131 | (0.05) | 1,092,369 | 3,630,615,645 | 715,678,311 | 4,011,272 | 271,057 | 83,723 | 23,387 | 782,996 | 4,352,287,701 |
| 261690 | Precious metal ores and concentrates except silver | 22,907,520 | | 13,010 | 27,444,649 | 2,564 | 151,122,067 | 233 | - | - | - | 178,582,289 |
| 620640 | Womens, girls blouses, shirts, manmade fibre, not kni | 21,475,171 | | 339,304 | 371,440,231 | 44,679 | 9,576,455 | 92,114 | 17,104 | 352,910 | 34,922 | 381,805,604 |
| 620443 | Womens, girls dresses, synthetic fibres, not knit | 18,944,044 | 0.61 | 4,107,961 | 323,443,905 | 29,690 | 11,982,077 | 477,378 | 946,842 | 395,425 | 443,187 | 341,349,087 |
| 853922 | Filament lamps, of a power <= 200 Watt, > 100 volts | 18,751,417 | 0.06 | 439,839 | 1,398,872 | 1,841,030 | 6,965,869 | 397,567 | 107,702 | 3,091,955 | 5,545,493 | 19,390,759 |
| 620463 | Womens, girls trousers, shorts, synth fibres, not kni | 15,131,763 | 0.48 | 297,336 | 36,527,308 | 3,714 | 9,820,755 | 659,124 | 26,335 | 91,748 | 63,030 | 46,830,225 |
| 240110 | Tobacco, unmanufactured, not stemmed or stripped | 15,061,568 | 0.05 | 16,254 | 85,319,916 | 80,940 | 7,000,907 | 1,547,520 | 21,845 | - | 652,256 | 93,092,118 |
| 870891 | Radiators for motor vehicles | 13,730,060 | 0.30 | 1,870,221 | 38,920,073 | 2,160,623 | 15,630,773 | 1,506,615 | 435,544 | 2,239,801 | 4,082,046 | 65,339,079 |
| 070190 | Potatoes, fresh or chilled except seed | 11,719,192 | | 59,318,934 | 28,537,259 | 456,530 | 22,612,066 | 76,380 | 288,178 | 11,356,426 | 816,286 | 123,385,679 |
| 700529 | Float glass etc in sheets, non-wired, clear | 11,120,722 | | 5,238,311 | 2,009,016 | 3,655,648 | 40,323,986 | 1,881,565 | 3,606,307 | 613,898 | 7,370,973 | 62,818,138 |
| 401199 | Pneumatic tyres new of rubber nes | 10,004,165 | | 3,470,431 | 554,889,764 | 4,691,321 | 73,650,626 | 20,012,223 | 1,485,017 | 2,780,895 | 26,361,999 | 667,330,052 |
| 040120 | Milk not concentrated nor sweetened 1-6% fat | 9,754,581 | 0.17 | 40,894,680 | 4,072,906 | 38,911 | 32,056,203 | 234,266 | 590,000 | 707,632 | 51,884 | 78,412,216 |
| 252329 | Portland cement, other than white cement | 9,463,870 | 3.30 | 282,371,857 | 132,582,484 | 1,155,730 | 113,102,067 | 3,262,219 | 24,986,188 | 33,131,466 | 1,520,172 | 588,849,962 |
| 620343 | Mens, boys trousers shorts, synthetic fibre, not knit | 8,615,521 | 0.12 | 443,497 | 72,485,081 | 53,280 | 9,738,952 | 1,139,974 | 1,017,613 | 576,019 | 119,616 | 84,434,057 |
| 870323 | Automobiles, spark ignition engine of 1500-3000 cc | 8,180,218 | 2.67 | 24,986,746 | 295,521,213 | 144,565,162 | 727,227,158 | 148,278,139 | 53,482,867 | 40,751,518 | 159,712,719 | 1,446,247,383 |
| 080810 | Apples, fresh | 8,132,746 | 0.52 | 3,527,950 | 12,968,673 | 6,498,763 | 59,960,348 | 4,104,575 | 1,952,269 | 12,568,639 | 79,478 | 97,556,119 |
| 611592 | Hosiery nes, of cotton, knit | 8,051,492 | 1.39 | 1,031,646 | 9,175,411 | 1,077,988 | 16,065,626 | 641,527 | 12,921,690 | 701,212 | 349,212 | 41,322,785 |
| | SUB-TOTAL | 1,302,321,780 | | 2,461,954,601 | 65,611,256,387 | 10,642,269,293 | 2,944,045,447 | 1,196,755,111 | 499,729,183 | 643,835,425 | 903,102,475 | 83,706,192,809 |
| | | Kyrgyzstan Exports | | | Imports of Central and South Asia | | | | | | | |
| | Commodity Description | AVG 2010-13 | 2004-13% | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan | TOTAL |
| MEDIUM-SIZE EXPORTS (\$4 MILLION < x < \$8 MILLION) | | | | | | | | | | | | |
| 070610 | Carrots and turnips, fresh or chilled | 7,762,181 | 0.49 | 66,872 | 139,684 | 59,610 | 12,231,082 | 13,183 | 6,553 | 265,343 | 126 | 12,769,270 |
| 080910 | Apricots, fresh | 7,733,850 | 0.72 | 815 | 43,605 | 3,145,645 | 22,292,787 | 1,229,773 | - | 10,623 | 12,481 | 25,505,956 |
| 620453 | Womens, girls skirts, synthetic fibres, not knit | 7,480,727 | 0.60 | 471,530 | 64,712,528 | 1,217 | 3,713,011 | 84,878 | 154,292 | 40,051 | 21,310 | 69,113,938 |
| 740400 | Copper/copper alloy waste or scrap | 6,986,053 | 1.15 | 100,701 | 37,944,824 | 4,180,705 | 1,527,784 | 833,227 | 319 | - | 3,547 | 43,757,878 |
| 390410 | Polyvinyl chloride in primary forms | 6,741,986 | - | 697,184 | 1,008,352 | 24,788,755 | 26,785,703 | 4,269,601 | 2,898,691 | 1,668,094 | 41,074,817 | 98,921,595 |
| 080232 | Walnuts, fresh or dried, shelled | 6,517,791 | 0.22 | 30,546 | 44,333,791 | 1,643 | 3,032,848 | - | 7,515 | 12,390 | 336 | 47,419,068 |
| 620293 | Womens, girls anoraks etc of manmade fibres, not knit | 6,505,972 | | 99,724 | 581,198 | 11,434 | 18,929,519 | 477,106 | 4,705,206 | 411,841 | 637,815 | 25,376,736 |
| 392330 | Plastic carboys, bottles and flasks, etc | 6,236,946 | 0.14 | 2,947,110 | 15,859,870 | 4,355,154 | 19,619,361 | 1,545,851 | 1,779,935 | 2,780,153 | 1,313,620 | 48,655,203 |
| 070310 | Onions and shallots, fresh or chilled | 6,161,995 | 0.75 | 2,519,178 | 432,756,655 | 30,054,389 | 13,454,790 | 46,260 | 414,977 | 4,154,036 | 2,115,098 | 485,469,122 |
| 870899 | Motor vehicle parts nes | 5,777,455 | 0.12 | 46,488,682 | 2,043,141,647 | 54,465,448 | 66,691,396 | 15,083,488 | 10,378,284 | 17,857,496 | 647,116,455 | 2,886,139,408 |
| 820712 | Rock drilling or earth boring tools except carbide | 5,562,945 | | 224,306 | 67,283,347 | 17,241,553 | 71,793,534 | 7,333,530 | 1,106,493 | 11,640,591 | 15,807,545 | 185,097,368 |
| 720449 | Ferrous waste or scrap, nes | 5,297,217 | 0.23 | 1,097,021 | 696,267 | 340,039,501 | 2,900,649 | 2,626 | 409,714 | 19,112 | 53,729,270 | 398,891,535 |
| 610620 | Womens, girls blouses & shirts, manmade fibre, knit | 5,080,567 | | 31,453 | 41,273,150 | 59,704 | 1,785,194 | 30,592 | 71,807 | 349,344 | 678,815 | 44,249,465 |
| 080920 | Cherries, fresh | 4,926,324 | 1.50 | 673,362 | 29,356 | 59 | 15,250,498 | 1,051,759 | 16,524 | 339,689 | - | 16,309,487 |
| 040210 | Milk powder < 1.5% fat | 4,866,605 | 0.77 | 5,763,171 | 160,802,922 | 79,742,925 | 59,510,055 | 320,204 | 556,338 | 1,995,081 | 1,212,924 | 309,583,415 |
| 903300 | Parts/accessories nes for optical/electric instrument | 4,859,634 | | 204,778,421 | 141,523,107 | 3,084,549 | 4,109,695 | 720,330 | 40,689 | 1,049,582 | 527,412 | 355,113,454 |
| 880240 | Fixed wing aircraft, unladen weight > 15,000 kg | 4,452,792 | 3.97 | 3,011,728 | 782,623,933 | 10,996,102 | 389,631,677 | 17,878,456 | 526,522 | 41,423,519 | 180,171,408 | 1,408,384,889 |
| 680292 | Worked calcareous stone nes | 4,261,462 | | - | 629,829 | - | 4,705,538 | 540 | - | 510 | 101,637 | 5,437,514 |
| 610443 | Womens, girls dresses, of synthetic fibres, knit | 4,212,620 | | 1,048,380 | 56,845,738 | 23,520 | 3,186,516 | 65,976 | 4,455,359 | 214,853 | 40,946 | 65,815,310 |
| 220210 | Beverage waters, sweetened or flavoured | 4,150,408 | 2.98 | 26,613,287 | 1,809,233 | 4,125,749 | 19,187,618 | 14,313,348 | 8,145,597 | 7,173,564 | 837,785 | 67,892,833 |
| | SUB-TOTAL | 115,575,528 | | 296,663,471 | 3,894,039,031 | 576,377,661 | 760,339,255 | 65,300,725 | 35,674,812 | 91,405,870 | 945,403,346 | 6,599,903,445 |

(Continued)

Table A.16: Exports of Kyrgyzstan by Size of Exports (HS 6-digit category and U.S. dollars) – Continued

| Kyrgyzstan Exports and Imports (by Commodity Category and Destination) | | | | | | | | | | | |
|--|--------------------|----------|-----------------------------------|----------------|-------------|---------------|-------------|-------------|--------------|-------------|----------------|
| Commodity Description | Kyrgyzstan Exports | | Imports of Central and South Asia | | | | | | | | |
| | AVG 2010-13 | 2004-13% | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan | TOTAL |
| SMALL-SIZE EXPORTS (\$2.5 MILLION < x < \$4 MILLION) | | | | | | | | | | | |
| 720842 Hot rolled iron or non-alloy steel, flat,width >600mm, t >10t | 3,920,007 | 0.47 | 16,287,832 | 95,622,192 | 14,569,404 | 34,480,237 | 4,473,894 | 2,061,054 | 2,470,215 | 8,893,155 | 174,384,088 |
| 710691 Silver in unwrought forms | 3,855,847 | 0.28 | 579 | 1,646,198 | 16,807,110 | 1,849,464 | - | - | - | - | 20,303,350 |
| 040500 Butter and other fats and oils derived from milk | 3,737,771 | 0.39 | 1,305,762 | 41,747,395 | 911,850 | 30,650,138 | 902,359 | 2,105,859 | 2,998,963 | 13,112,449 | 92,832,416 |
| 160250 Bovine meat, offal nes, not livers, prepared/preserve | 3,729,621 | 0.65 | 1,233,994 | 431,957 | 197,800 | 4,941,842 | 1,570,196 | 1,513,348 | 5,224,239 | 469,624 | 13,562,804 |
| 010290 Bovine animals, live, except pure-bred breeding | 3,685,578 | | 8,229,300 | 7,410 | 3,013,340 | 678,727 | - | 1,525,654 | - | 755,009 | 14,209,439 |
| 080930 Peaches, nectarines, fresh | 3,554,796 | 1.58 | 212,613 | 56 | 534 | 23,854,166 | 808,878 | 5,833 | 402,426 | 1,557 | 24,477,184 |
| 481910 Cartons, boxes & cases, of corrugated paper or board | 3,365,081 | 0.24 | 3,277,782 | 30,840,937 | 9,876,919 | 11,746,385 | 2,006,500 | 1,062,236 | 800,065 | 1,079,607 | 58,683,930 |
| 870410 Dump trucks designed for off-highway use | 3,277,845 | 3.75 | 1,974,905 | 418,225,448 | 7,538,503 | 91,836,946 | 52,621,282 | 3,311,621 | 4,047,693 | 3,427,254 | 530,362,369 |
| 070490 Edible brassicas nes, fresh or chilled | 3,225,267 | 2.89 | 539,573 | 1,542,954 | 663,571 | 13,502,630 | 56,262 | 9,013 | 780,510 | - | 17,038,250 |
| 620213 Womens, girls overcoats etc manmade fibre, not knit | 3,126,063 | | 17,983 | 2,023,583 | 5,525 | 5,496,891 | 84,332 | 482,743 | 81,269 | 124,268 | 8,232,262 |
| 681099 Articles of cement, concrete or artificial stone nes | 3,116,391 | 1.31 | 961,339 | 9,887,812 | 181,946 | 13,674,251 | 429,763 | 69,202 | 3,829,246 | 132,491 | 28,736,287 |
| 870324 Automobiles, spark ignition engine of >3000 cc | 2,940,465 | 2.19 | 23,898,826 | 3,248,140 | 26,298,407 | 293,790,242 | 68,512,951 | 4,314,227 | 20,030,513 | 16,310,545 | 387,890,900 |
| 481920 Cartons, boxes & cases, folding, non-corrugated paper | 2,917,765 | 2.48 | 1,884,199 | 29,859,066 | 1,606,917 | 30,405,614 | 2,514,713 | 831,337 | 185,262 | 1,126,380 | 65,898,774 |
| 870840 Transmissions for motor vehicles | 2,849,098 | 1.42 | 7,546,210 | 217,186,465 | 1,275,173 | 21,899,359 | 3,696,795 | 331,041 | 1,904,963 | 95,617,501 | 345,760,712 |
| 853929 Filament lamps, except ultraviolet or infra-red, nes | 2,828,980 | 0.04 | 281,661 | 19,687,013 | 4,348,156 | 2,751,055 | 187,396 | 517,550 | 941,941 | 731,989 | 29,259,364 |
| 860800 Signals etc for rail, tram, water-way, port, airfield | 2,778,159 | 1.38 | 210,172 | 3,585,092 | 2,303,323 | 57,483,162 | 1,507,236 | 176,860 | 4,140,750 | 8,255,237 | 76,154,595 |
| 210500 Ice cream and other edible ice | 2,756,471 | (0.03) | 2,066,613 | 940,852 | 200,248 | 24,194,302 | 1,322,339 | 78,231 | 498,896 | 14,531 | 27,993,674 |
| 410429 Bovine and equine leather, tanned or retanned, nes | 2,751,154 | 2.83 | 447,622 | 2,635,634 | 2,372,091 | 115,453 | 320,979 | - | - | - | 5,570,799 |
| 392390 Plastic articles for goods conveyance or packing nes | 2,715,512 | | 7,772,705 | 76,880,725 | 5,972,830 | 9,490,201 | 491,256 | 564,852 | 563,787 | 1,202,035 | 102,447,134 |
| 080820 Pears and quinces, fresh | 2,708,799 | 0.31 | 490,412 | 313,137 | 473,600 | 10,311,038 | 850,016 | 725,015 | 496,989 | 28,490 | 12,838,680 |
| 721520 Bar/rod, iron or non-alloy steel, cold formed/finished, <0.25 | 2,666,509 | 0.02 | 339 | 19,948,442 | 164,988 | 3,737,917 | 150,788 | 237,598 | 3,135 | 707,208 | 24,799,625 |
| 620433 Womens, girls jackets, blazers, synth fibres, not kni | 2,512,132 | | 91,107 | 18,795,357 | 137,882 | 2,482,244 | 53,342 | 59,917 | 45,480 | 59,844 | 21,671,830 |
| 080940 Plums, sloes, fresh | 2,510,626 | 0.71 | 19,411 | 140,615 | 6,660 | 18,180,436 | 60,223 | 616 | 107,179 | 11 | 18,454,927 |
| 010119 Horses, live except pure-bred breeding | 2,505,211 | 0.28 | 53,033 | 151,920 | 140,676 | 130,007 | 56,034 | 84,940 | - | 549,666 | 1,110,241 |
| SUB-TOTAL | 74,035,146 | | 78,803,971 | 995,348,396 | 99,067,451 | 707,232,704 | 142,677,531 | 20,068,745 | 49,553,521 | 152,598,849 | 2,102,673,636 |
| | | | | | | | | | | | |
| Commodity Description | Kyrgyzstan Exports | | Imports of Central and South Asia | | | | | | | | |
| | AVG 2010-13 | 2004-13% | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan | TOTAL |
| EMERGING EXPORTS (\$1.7 MILLION < x < \$2.5 MILLION) | | | | | | | | | | | |
| 840890 Engines, diesel except motor vehicle/marine | 2,372,835 | | 7,760,348 | 282,669,419 | 13,760,669 | 66,763,640 | 2,812,617 | 76,246 | 2,391,177 | 3,559,642 | 376,981,141 |
| 870190 Wheeled tractors nes | 2,363,349 | 1.37 | 13,462,810 | 720,989,147 | 38,707,507 | 87,467,034 | 10,749,490 | 10,106,859 | 42,384,999 | 45,285,181 | 958,403,536 |
| 620312 Mens, boys suits, synthetic fibres, not knit | 2,346,015 | 0.53 | 66,490 | 13,773,486 | 7,281 | 1,852,311 | 77,610 | 6,228,912 | 173,665 | 14,847 | 22,116,991 |
| 620193 Mens, boys anoraks etc, of manmade fibres, not knit | 2,344,024 | | 1,777,223 | 1,312,721 | 136,180 | 20,377,139 | 705,037 | 20,568,027 | 205,789 | 815,448 | 45,192,527 |
| 070200 Tomatoes, fresh or chilled | 2,261,211 | 1.88 | 8,038,656 | 58,534,805 | 108,171,862 | 38,401,362 | 232,038 | 11,684 | 138,933 | 4,000 | 213,301,302 |
| 040390 Buttermilk, curdled milk, cream, kephir, etc. | 2,251,990 | 0.10 | 13,527,407 | 1,222,849 | 48,014 | 41,067,614 | 4,245,627 | 3,484,678 | 3,833,073 | 168,505 | 63,352,139 |
| 040610 Fresh cheese, unfermented whey cheese, curd | 2,239,813 | 0.05 | 855,491 | 3,400,817 | 1,960,108 | 19,554,546 | 753,858 | 114,562 | 170,183 | 547,885 | 26,603,592 |
| 081090 Fruits, fresh nes | 2,214,869 | 1.37 | 6,701,169 | 49,537,790 | 3,433,218 | 38,457,755 | 110,716 | 107,134 | 956,244 | 330,712 | 99,524,021 |
| 880212 Helicopters of an unladen weight > 2,000 kg | 2,170,410 | | 17,375,981 | 19,594,796 | 14,604,561 | 31,868,448 | 6,504,537 | - | 61,443,465 | - | 144,887,250 |
| 711319 Jewellery and parts of precious metal except silver | 2,134,820 | 2.12 | 427,594 | 11,996,505,824 | 33,929,271 | 65,067,293 | 3,094,902 | 17,155,961 | 7,362,594 | 24,218,293 | 12,144,666,830 |
| 270119 Coal except anthracite or bituminous, not agglomerate | 2,116,490 | 2.08 | 215,972 | 152,314,587 | 467,962,062 | 1,277,625 | 37,885,951 | 263,007 | - | 3,126,534 | 625,159,786 |
| 551219 Woven fabric >85% polyester staple fibres, nes | 2,086,375 | 3.44 | 1,540,473 | 46,258,674 | 570,445 | 1,842,901 | 20,394,750 | 1,349,297 | 93,125 | 2,474,949 | 54,129,864 |
| 080610 Grapes, fresh | 2,026,364 | | 226,963 | 126,246,572 | 15,259,770 | 51,238,714 | 723,589 | 46,714 | 25,306 | 35,664 | 193,079,702 |
| 310230 Ammonium nitrate, including solution, in pack >10 kg | 2,016,940 | | 224,300 | 6,774,124 | 2,771,585 | 63,173,309 | 38,896,165 | 1,297,223 | 1,864,431 | 2,540,799 | 78,645,770 |
| 870590 Special purpose motor vehicles nes | 2,004,475 | | 442,325,857 | 22,778,009 | 55,317,289 | 90,903,767 | 6,993,380 | 7,829,930 | 49,544,032 | 15,370,371 | 684,069,254 |
| 410121 Bovine hides, whole, fresh or wet-salted | 1,983,232 | 0.30 | 77,176 | 1,089,198 | 5,868,419 | 9,641 | 1,560,531 | 35,981 | - | - | 7,080,414 |
| 210410 Soups and broths and preparations thereof | 1,958,097 | 0.44 | 845,674 | 2,803,759 | 30,388 | 9,169,109 | 1,488,239 | 1,667,208 | 1,625,166 | 1,221,130 | 17,362,433 |
| 040690 Cheese except fresh, grated, processed or blue-veined | 1,885,232 | 0.12 | 6,643,171 | 4,477,422 | 43,948 | 59,770,229 | 612,926 | 201,438 | 5,177,185 | 3,012,720 | 79,326,112 |
| 701090 Glass containers nes for packing or conveyance goods | 1,880,924 | 0.33 | 141,418 | 140,473,292 | 7,671,315 | 131,569,963 | 10,877,646 | 921,992 | 6,655,704 | 4,847,388 | 292,281,072 |
| 721440 Bar/rod, iron or non-alloy steel, hot formed <0.25%C, nes | 1,867,828 | 1.73 | 3,047,878 | 29,128,137 | 10,096,232 | 63,003,126 | 4,739,798 | 12,599,534 | 8,847,569 | 4,283,760 | 131,006,234 |
| 842951 Front end shovel loaders | 1,841,234 | | 6,975,674 | 17,595,161 | 11,611,409 | 121,289,337 | 6,942,823 | 6,050,373 | 28,975,821 | 18,072,032 | 210,569,806 |
| 190590 Communion wafers, rice paper, bakers wares nes | 1,832,895 | 0.22 | 26,349,494 | 96,101,510 | 6,973,276 | 54,156,643 | 6,466,368 | 5,260,955 | 10,875,929 | 2,454,474 | 202,172,281 |
| 252100 Limestone materials for manufacture of lime or cement | 1,806,279 | 1.63 | 6,150 | 34,705,629 | 1,193 | 1,091,360 | 4,223,383 | 4,376 | - | 1,805,943 | 37,614,651 |
| 620413 Womens, girls suits, synthetic fibres, not knit | 1,798,343 | 0.07 | 9,326,186 | 79,075,849 | 2,353 | 863,707 | 503,243 | 11,875 | 701 | 167,563 | 89,448,232 |
| 760120 Aluminium unwrought, alloyed | 1,768,107 | 0.29 | 196,352 | 110,683,098 | 17,921,054 | 274,599 | 343,846 | 53,745 | 14,654 | 9,518,302 | 138,661,805 |
| 720843 Hot rolled iron or non-alloy steel, flat,width >600mm, t 4.75 | 1,744,426 | | 1,555,974 | 32,417,732 | 3,656,505 | 13,803,937 | 4,333,353 | 1,730,909 | 3,669,345 | 9,995,208 | 66,829,610 |
| 401120 Pneumatic tyres new of rubber for buses or lorries | 1,723,310 | | 48,420,773 | 585,102,625 | 172,731,825 | 140,131,565 | 17,327,969 | 7,214,140 | 33,035,181 | 61,746,252 | 1,048,382,361 |
| SUB-TOTAL | 55,039,888 | | 618,112,648 | 14,635,567,029 | 993,247,738 | 1,214,446,669 | 193,600,387 | 104,392,758 | 269,464,271 | 215,617,601 | 18,050,848,713 |

Table A.17: Exports of Tajikistan by Size of Exports (HS 6-digit category and U.S. dollars)

| | | Tajikistan Exports | | | Imports of Central and South Asia | | | | | | | | |
|--------------------------------------|---|--------------------|----------|--|-----------------------------------|-----------------|----------------|---------------|---------------|---------------|---------------|---------------|-----------------|
| Commodity Description | | AVG 2010-13 | 2004-13% | | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan | TOTAL |
| TOTAL | | 1,987,031,367 | | | 5,373,922,709 | 170,785,090,362 | 23,455,089,045 | 8,765,756,085 | 2,864,176,749 | 1,222,756,875 | 1,645,804,738 | 3,384,688,673 | 216,274,528,361 |
| LARGE-SIZE EXPORTS (> \$2.5 MILLION) | | | | | | | | | | | | | |
| 760110 | Aluminium unwrought, not alloyed | 461,571,520 | 0.06 | | 26,533 | 650,959,537 | 32,297,572 | 2,515,198 | 125,515 | 2,246 | 210 | 28,307,208 | 714,231,772 |
| 520100 | Cotton, not carded or combed | 125,760,787 | 0.01 | | 1,092,369 | 3,630,615,645 | 715,678,311 | 4,011,272 | 271,057 | 83,723 | 23,387 | 782,996 | 4,352,475,035 |
| 999999 | Commodities not specified according to kind | 53,968,010 | | | 653,122,385 | 6,408,966,321 | 47,590,683 | 81,859,269 | 24,566,233 | 78,283,525 | 353,657,564 | 226,445,078 | 7,796,207,534 |
| 760120 | Aluminium unwrought, alloyed | 49,154,341 | 0.19 | | 196,352 | 110,683,098 | 17,921,054 | 274,599 | 343,846 | 53,745 | 14,654 | 9,518,302 | 138,951,905 |
| 260700 | Lead ores and concentrates | 35,598,220 | 3.67 | | - | 53,331,187 | 107,329 | 84,092,251 | 665 | - | - | - | 137,531,432 |
| 070310 | Onions and shallots, fresh or chilled | 23,741,956 | 0.35 | | 2,519,178 | 432,756,655 | 30,054,389 | 13,454,790 | 46,260 | 414,977 | 4,154,036 | 2,115,098 | 485,100,405 |
| 261710 | Antimony ores and concentrates | 23,465,954 | 0.45 | | - | 128 | 408 | - | 6,069,695 | - | - | - | 6,070,231 |
| 081310 | Apricots, dried | 23,216,715 | 0.21 | | 3,999 | 28,779 | 38,636 | 13,935,683 | 4,962 | 31,315 | 363,682 | 1,700 | 14,377,439 |
| 271000 | Oils petroleum, bituminous, distillates, except crude | 21,302,658 | | | 1,329,822,185 | 52,772,861,114 | 9,398,675,314 | 1,219,891,358 | 929,421,199 | 283,335,662 | 45,941,852 | 327,960,777 | 66,024,573,799 |
| 081350 | Mixtures of edible nuts, dried and preserved fruits | 18,438,645 | 0.14 | | 131,290 | 450,661 | 1,164,425 | 21,159,957 | 19,508 | 18,587 | 1,429 | 119 | 22,927,389 |
| 620342 | Mens, boys trousers & shorts, of cotton, not knit | 16,077,425 | 0.11 | | 846,478 | 464,183,892 | 950,092 | 24,123,639 | 14,174,546 | 1,101,874 | 529,108 | 1,349,038 | 506,156,792 |
| 260800 | Zinc ores and concentrates | 11,522,066 | | | - | 88,355,577 | - | 9,147,568 | 52 | - | - | 74,767,916 | 172,271,112 |
| 030420 | Fish fillets, frozen | 11,077,646 | 1.05 | | 5,541,003 | 58,639,621 | 1,596,462 | 4,915,196 | 278,537 | 21,716 | 109,399 | 337,819 | 71,418,036 |
| 260300 | Copper ores and concentrates | 8,689,172 | 0.10 | | - | 18,138,533 | - | 2,966,852 | 9,632 | - | - | 19,848,850 | 40,963,867 |
| 410429 | Bovine and equine leather, tanned or retanned, nes | 5,877,861 | | | 447,622 | 2,635,634 | 2,372,091 | 115,453 | 320,979 | - | - | - | 5,891,778 |
| 110100 | Wheat or meslin flour | 5,566,643 | 0.98 | | 330,287,933 | 68,338,053 | 17,087,823 | 1,313,117 | 31,741,774 | 92,745,581 | 23,091,244 | 279,518,991 | 751,378,934 |
| 760511 | Wire, aluminium, not alloyed, t > 7mm | 5,198,640 | 1.58 | | 34,131 | 24,400,601 | 900,284 | 6,890,706 | 187,170 | - | 210,228 | 9,872,732 | 42,495,850 |
| 520512 | Cotton yarn >85% single uncombed 714-232 dtex,not ret | 5,158,326 | 0.13 | | - | 329,165,047 | 4,644,908 | 671,993 | 355,632 | - | 857 | 52,554 | 334,890,990 |
| 841199 | Parts of gas turbine engines except turbo-jet/prop | 3,504,357 | (1.00) | | 3,108,432 | 78,018,240 | 94,951,558 | 30,144,322 | 6,459 | 191,124 | 10,694,673 | 12,999,008 | 229,922,692 |
| 080232 | Walnuts, fresh or dried, shelled | 3,111,674 | 0.25 | | 30,546 | 44,333,791 | 1,643 | 3,032,848 | - | 7,515 | 12,390 | 336 | 47,411,553 |
| 390120 | Polyethylene - specific gravity >0.94 in primary form | 2,807,507 | 0.19 | | 2,001,115 | 201,234,337 | 199,915,390 | 176,164,155 | 1,426,341 | 2,000,239 | 1,748,779 | 5,717,999 | 588,208,114 |
| 740400 | Copper/copper alloy waste or scrap | 2,792,973 | | | 100,701 | 37,944,824 | 4,180,705 | 1,527,784 | 833,227 | 319 | - | 3,547 | 44,590,787 |
| 520812 | Plain weave cotton, >85% 100-200g/m2, unbleached | 2,639,459 | 0.10 | | 482,133 | 42,554,215 | 318,370 | 282,245 | 14,007 | 5,963,048 | 590,138 | 5,704,656 | 49,945,764 |
| 081320 | Prunes, dried | 2,540,927 | 0.20 | | 56,780 | 630,989 | 84,745 | 3,672,192 | 3,950 | 1,229 | 4,965 | 4 | 4,453,625 |
| SUB-TOTAL | | 922,783,482 | | | 2,329,851,163 | 65,519,226,475 | 10,570,532,190 | 1,706,162,444 | 1,010,221,243 | 464,256,423 | 441,148,592 | 1,005,304,726 | 82,582,446,833 |
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(Continued)

Table A.17: Exports of Tajikistan by Size of Exports (HS 6-digit category and U.S. dollars) – Continued

| | | Tajikistan Exports | | Imports of Central and South Asia | | | | | | | | |
|--|--|--------------------|----------|-----------------------------------|---------------|-------------|-------------|-------------|------------|--------------|-------------|---------------|
| Commodity Description | | AVG 2010-13 | 2004-13% | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan | TOTAL |
| SMALL-SIZE EXPORTS (\$600,000 < x < \$1 MILLION) | | | | | | | | | | | | |
| 081330 | Apples, dried | 973,076 | 0.73 | 10,948 | 4,327 | 24,639 | 675,725 | 50 | 3,639 | 14,827 | 11 | 730,526 |
| 130212 | Liquorice extract | 925,159 | 0.47 | - | 153,676 | 11,425 | 74,764 | 1,587 | - | - | 380 | 241,832 |
| 520524 | Cotton yarn >85% single combed 192-125 dtex, not ret. | 893,707 | 2.13 | 69,206 | 624,762,492 | 2,002,891 | 391,609 | - | - | - | - | 627,226,198 |
| 071333 | Kidney beans and white pea beans dried shelled | 881,534 | 0.08 | 53,051 | 41,204 | 47,571,317 | 2,068,406 | 5,675 | 6,423 | 80,728 | 1,446 | 49,821,827 |
| 730792 | Threaded fittings, iron or steel except stainless/cas | 864,578 | | 219,254 | 11,822,267 | 968,618 | 8,272,444 | 524,696 | 142,701 | 4,471,247 | 618,750 | 26,897,275 |
| 120210 | Ground-nuts in shell not roasted or cooked | 864,482 | 0.27 | 518,620 | 7,907,111 | 1,394,102 | 3,910,168 | 4,946 | 4,650 | 25,392 | - | 13,760,338 |
| 842230 | Machinery to fill, close, aerate, etc bottle, containe | 863,329 | - | 8,086,014 | 78,593,483 | 56,903,274 | 30,076,562 | 5,120,781 | 800,874 | 8,353,484 | 13,939,515 | 201,073,111 |
| 621132 | Mens, boys garments nes, of cotton, not knit | 850,710 | 0.33 | 656,825 | 61,494,346 | 11,764 | 2,200,044 | 919,495 | 105,706 | 708,676 | 376,701 | 66,367,851 |
| 520522 | Cotton yarn >85% single combed 714-232 dtex, not retai | 845,573 | 3.94 | 32,569 | 316,211,696 | 5,963,500 | 1,531,131 | 51,647 | - | 6,054 | - | 323,796,597 |
| 271121 | Natural gas in gaseous state | 753,242 | 0.21 | - | 5,129,862 | 11,669 | 360,728,868 | 67,236,551 | - | - | 12,458 | 433,119,408 |
| 700319 | Cast glass sheet, non-wired, clear | 743,492 | 0.76 | 3,550 | 2,388,365 | 1,319,407 | 606,259 | 200,493 | 1,154,953 | 293,043 | 835,491 | 5,646,607 |
| 620640 | Womens, girls blouses, shirts, manmade fibre, not kni | 696,963 | | 339,304 | 371,440,231 | 44,679 | 9,576,455 | 92,114 | 17,104 | 352,910 | 34,922 | 381,880,614 |
| 240110 | Tobacco, unmanufactured, not stemmed or stripped | 680,214 | 0.57 | 16,254 | 85,319,916 | 80,940 | 7,000,907 | 1,547,520 | 21,845 | - | 652,256 | 94,617,793 |
| 520544 | Cotton yarn >85% multiple combed 192-125 dtex, not ret | 662,032 | 1.18 | - | 51,935,308 | 177,210 | 21,201 | - | - | - | - | 52,133,719 |
| 710391 | Rubies, sapphires and emeralds worked but not set | 651,724 | | 105,250 | 235,690,046 | 166 | 30,760 | - | - | - | - | 235,826,221 |
| 847330 | Parts and accessories of data processing equipment ne | 649,820 | 3.05 | 7,251,112 | 146,650,269 | 11,927,539 | 39,540,693 | 3,642,782 | 959,572 | 3,431,626 | 4,743,470 | 217,187,490 |
| 621142 | Womens, girls garments nes, of cotton, not knit | 635,788 | 0.57 | 410,150 | 172,681,337 | 1,675 | 977,359 | 239,573 | 55,733 | 27,635 | 383,900 | 174,721,629 |
| 843041 | Boring or sinking machinery nes, self-propelled | 632,096 | | 896,685 | 130,914,723 | 1,743,605 | 81,874,003 | 6,066,321 | 1,694,376 | 15,063,033 | 14,962,674 | 251,521,045 |
| 080920 | Cherries, fresh | 620,570 | 0.74 | 673,362 | 29,356 | 59 | 15,250,498 | 1,051,759 | 16,524 | 339,689 | - | 17,344,722 |
| 902219 | Non-medical X-ray equipment | 614,833 | - | 2,204,910 | 1,693,047 | 5,915,695 | 20,117,890 | 257,286 | 315,683 | 4,750,033 | 5,844,389 | 40,783,249 |
| 870891 | Radiators for motor vehicles | 610,885 | 2.46 | 1,870,221 | 38,920,073 | 2,160,623 | 15,630,773 | 1,506,615 | 435,544 | 2,239,801 | 4,082,046 | 66,410,150 |
| 121299 | Vegetable products nes for human consumption | 610,462 | 0.97 | 29,280 | 1,015,854 | 58,132 | 357,789 | 6,375 | 183,646 | 51,143 | 2,497 | 1,521,070 |
| 080940 | Plums, sloes, fresh | 607,017 | 0.79 | 19,411 | 140,615 | 6,660 | 18,180,436 | 60,223 | 616 | 107,179 | 11 | 18,514,534 |
| 300439 | Hormones nes, except contraceptives, in dosage | 605,068 | - | 883,923 | 76,442,519 | 23,933,443 | 43,459,808 | 1,047,446 | 805,459 | 1,188,447 | 7,486,031 | 154,441,617 |
| 871610 | Trailers for housing or camping | 600,237 | - | 100,744 | 797,539 | 851,747 | 2,846,481 | 52,536 | 61,986 | 147,875 | 3,979 | 4,800,900 |
| | SUB-TOTAL | 18,336,589 | | 24,450,643 | 2,422,179,660 | 163,084,778 | 665,401,028 | 89,636,470 | 6,787,030 | 41,652,819 | 53,980,924 | 3,460,386,322 |
| | | Tajikistan Exports | | Imports of Central and South Asia | | | | | | | | |
| Commodity Description | | AVG 2010-13 | 2004-13% | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan | TOTAL |
| EMERGING EXPORTS (\$400,000 < x < \$600,000) | | | | | | | | | | | | |
| 852721 | Radio receivers, external power, sound reproduce/recor | 599,121 | | 1,949,042 | 58,616 | 234,299 | 2,431,598 | 21,140 | 1,013 | 129,983 | 3,801,983 | 8,626,659 |
| 580810 | Braids in the piece | 593,830 | 0.52 | 428,177 | 2,921,013 | 762,808 | 276,462 | 273,773 | 276,335 | 57,839 | 169,448 | 4,889,520 |
| 390760 | Polyethylene terephthalate, in primary forms | 572,391 | 0.50 | 7,207,873 | 520,115,717 | 11,054,047 | 86,471,217 | 20,901,057 | 6,166,783 | 4,469,444 | 58,448,307 | 708,667,661 |
| 121190 | Plants & parts, pharmacy, perfume, insecticide use ne | 552,148 | 3.35 | 344,146 | 175,626,980 | 6,196,609 | 1,328,012 | 60,492 | 1,968 | 32,692 | 557,329 | 184,146,259 |
| 401110 | Pneumatic tyres new of rubber for motor cars | 550,180 | 3.67 | 12,197,059 | 115,937,514 | 22,590,878 | 131,122,680 | 9,278,398 | 3,551,552 | 13,325,723 | 71,348,687 | 375,800,938 |
| 620462 | Womens, girls trousers & shorts, of cotton, not knit | 534,733 | | 341,798 | 301,894,560 | 322,204 | 19,259,368 | 9,656,022 | 218,321 | 144,282 | 428,177 | 332,046,411 |
| 843143 | Parts of boring or sinking machinery | 533,733 | | 4,909,086 | 174,591,302 | 32,587,218 | 80,607,179 | 10,891,401 | 3,156,698 | 44,958,081 | 26,516,579 | 375,060,845 |
| 410110 | Bovine skins, whole, raw | 526,243 | 0.22 | 16,945 | 1,746,147 | 207,638 | 10,075 | 1,079,041 | 11,860 | - | - | 3,059,846 |
| 842920 | Graders and levellers, self-propelled | 502,700 | | 4,496,336 | 3,908,953 | 1,080,756 | 28,581,463 | 3,192,056 | 1,093,737 | 10,615,504 | 3,784,377 | 55,659,442 |
| 200980 | Single fruit, veg juice nes, not fermented or spirite | 496,697 | (0.23) | 8,185,445 | 9,494,896 | 969,868 | 7,917,906 | 1,141,864 | 399,561 | 1,374,900 | 107,273 | 29,192,151 |
| 130190 | Natural gum, resin, gum-resin, balsam, not gum arabic | 495,713 | | 344,047 | 121,148,807 | 2,543,537 | 305,963 | 26,092 | - | 6,853 | 15,998 | 124,391,296 |
| 970600 | Antiques older than one hundred years | 491,344 | | - | 2,959,214 | 36,035,249 | 28,030 | - | 19,198 | 2,485 | - | 39,024,979 |
| 070690 | Beetroot, salsify, celeriac, radishes etc. fresh, chille | 490,873 | 0.65 | 131,025 | 1,144,027 | 74,609 | 14,115,956 | 4,074 | 57 | 3,269 | 280 | 15,473,241 |
| 847193 | Computer data storage units | 486,243 | 1.10 | 5,041,824 | 87,866,537 | 10,142,427 | 71,559,381 | 3,423,737 | 677,224 | 5,126,259 | 2,459,545 | 185,619,709 |
| 030490 | Fish meat & mince, except liver, roe & fillets, froze | 480,765 | 1.36 | 69,510 | 88,521,382 | 1,182,721 | 363,258 | 41,962 | 234 | 37,671 | 69,970 | 90,286,474 |
| 170199 | Refined sugar, in solid form, nes, pure sucrose | 477,364 | 0.88 | 82,817,477 | 882,247,249 | 32,147,172 | 115,936,882 | 61,348,370 | 35,238,766 | 32,592,502 | 48,818,692 | 1,255,908,343 |
| 854511 | Carbon and graphite furnace electrodes | 473,470 | - | 22,771 | 304,675,751 | 806,472 | 23,888,758 | 204,533 | 49,626 | 713,309 | 8,123,529 | 338,435,123 |
| 550330 | Staple fibres of acrylic, modacrylic, not carded/combe | 464,562 | (0.52) | 158,784 | 14,290,971 | 34,273,660 | 79,121 | 1,138,167 | 10,882 | 83,310 | 66,455 | 50,090,466 |
| 271600 | Electrical energy | 448,906 | 0.78 | 2,197,663 | 161,506 | 5,272,532 | 134,275,338 | 115,888 | - | - | 22,896,775 | 164,919,700 |
| 520513 | Cotton yarn >85% single uncombed 232-192 dtex, not ret | 443,085 | 0.47 | 34,890 | 120,141,834 | 1,837,749 | 80,170 | 127,936 | - | 1,594 | 8,035 | 122,232,208 |
| 853190 | Parts of electric sound & visual signalling apparatus | 436,728 | | 1,333,178 | 16,530,491 | 36,036,613 | 4,196,714 | 145,005 | 44,288 | 2,970,123 | 508,788 | 61,720,911 |
| 200820 | Pineapples, otherwise prepared or preserved | 428,571 | 1.44 | 32,146 | 92,237 | 3,739,849 | 2,103,791 | 75,788 | 28,058 | 41,176 | 180,102 | 6,265,087 |
| 847490 | Parts for mineral sort, screen, mix, etc machines | 422,681 | | 1,143,460 | 107,881,007 | 9,326,786 | 59,394,761 | 8,646,744 | 5,895,203 | 7,523,622 | 12,313,259 | 206,229,638 |
| 851781 | Telephonic apparatus, nes | 415,618 | | 5,497,091 | 108,942,896 | 127,078,539 | 42,818,993 | 1,933,007 | 206,639 | 4,908,622 | 5,961,176 | 297,140,324 |
| 520299 | Cotton waste, except garnetted stock | 408,247 | 0.94 | 737,631 | 57,230,999 | 975,936 | 10,251 | 6,790 | 115 | 1,413 | 47,000 | 59,010,019 |
| 500200 | Raw silk (not thrown) | 403,413 | 0.01 | 58,167 | 694,052 | 1,235,105 | - | - | - | - | - | 1,987,324 |
| | SUB-TOTAL | 12,729,357 | | 139,695,566 | 3,220,824,654 | 378,715,281 | 827,163,324 | 133,733,334 | 57,048,116 | 129,120,653 | 266,631,762 | 5,095,884,572 |

Table A.18: Exports of Turkmenistan by Size of Exports (HS 6-digit category and U.S. dollars)

| | | Turkmenistan Exports | | Imports of Central and South Asia | | | | | | | | |
|---|---|----------------------|----------|-----------------------------------|-----------------|----------------|----------------|---------------|---------------|---------------|---------------|-----------------|
| | Commodity Description | AVG 2010-13 | 2004-13% | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan | TOTAL |
| | TOTAL | 16,528,049,003 | | 5,212,019,563 | 203,097,496,406 | 33,655,696,018 | 11,772,080,616 | 2,625,461,402 | 1,793,439,708 | 1,642,840,532 | 3,098,720,917 | 261,254,914,630 |
| LARGE-SIZE EXPORTS (> \$7 MILLION) | | | | | | | | | | | | |
| 271121 | Natural gas in gaseous state | 6,015,656,543 | 0.56 | - | 5,129,862 | 11,669 | 360,728,868 | 67,236,551 | - | - | 12,458 | 433,119,408 |
| 271000 | Oils petroleum, bituminous, distillates, except crude | 1,043,765,221 | 0.25 | 1,329,822,185 | 52,772,861,114 | 9,398,675,314 | 1,219,891,358 | 929,421,199 | 283,335,662 | 45,941,852 | 327,960,777 | 66,261,967,609 |
| 710813 | Gold, semi-manufactured forms, non-monetary | 263,017,586 | - | - | 5,919,464 | 787 | 285,648 | 132,159 | - | 52,620 | - | 6,338,057 |
| 520100 | Cotton, not carded or combed | 219,232,504 | 0.43 | 1,092,369 | 3,630,615,645 | 715,678,311 | 4,011,272 | 271,057 | 83,723 | 23,387 | 782,996 | 4,352,535,371 |
| 520512 | Cotton yarn >85% single uncombed 714-232 dtex,not ret | 139,818,958 | 0.22 | - | 329,165,047 | 4,644,908 | 671,993 | 355,632 | - | 857 | 52,554 | 334,890,133 |
| 270900 | Petroleum oils, oils from bituminous minerals, crude | 107,981,745 | 0.24 | 22,156,647 | 8,742,703 | 5,314,340,632 | 2,220,511,507 | 3,507,613 | 106,694,120 | 664 | 304,245,137 | 7,980,198,358 |
| 390210 | Polypropylene in primary forms | 103,826,206 | 0.15 | 309,500 | 1,094,757,714 | 378,006,858 | 18,277,878 | 3,291,944 | 307,688 | 1,055,027 | 40,068,231 | 1,535,019,814 |
| 520812 | Plain weave cotton, >85% 100-200g/m2, unbleached | 35,371,333 | 0.92 | 482,133 | 42,554,215 | 318,370 | 282,245 | 14,007 | 5,963,048 | 590,138 | 5,704,656 | 55,318,674 |
| 999999 | Commodities not specified according to kind | 22,102,704 | - | 653,122,385 | 6,408,966,321 | 47,590,683 | 81,859,269 | 24,566,233 | 78,283,525 | 353,657,564 | 226,445,078 | 7,520,833,494 |
| 520942 | Denim cotton >85% >200g/m2 | 20,874,783 | 0.08 | - | 218,393,949 | 6,744,803 | 1,721,653 | 1,462 | 97,552 | 203,707 | 89,742 | 227,049,161 |
| 630260 | Toilet or kitchen linen, of cotton terry towelling | 19,363,073 | - | 101,888 | 666,583,209 | 299,353 | 7,373,623 | 4,231,901 | 59,039,618 | 4,474,423 | 3,970,043 | 741,599,634 |
| 271600 | Electrical energy | 18,369,922 | 2.47 | 2,197,663 | 161,506 | 5,272,532 | 134,275,338 | 115,888 | - | - | 22,896,775 | 164,919,700 |
| 280120 | Iodine | 17,257,139 | 0.19 | 40 | 5,644,160 | 2,680,688 | 290,344 | 23,146 | 6,036 | 17,166 | 254,041 | 8,898,455 |
| 230610 | Cotton seed oil-cake and other solid residues | 15,036,161 | (0.02) | 116,416 | 7,579,825 | 149,874 | - | 29,766 | 47,100 | - | - | 7,922,980 |
| 630231 | Bed linen, of cotton, nes | 15,035,525 | 0.13 | 123,818 | 244,035,500 | 78,883 | 4,991,296 | 222,853 | 2,539,098 | 179,944 | 182,169 | 252,173,616 |
| 140420 | Cotton linters | 13,600,847 | 0.50 | 567 | 38,919,271 | - | 30,955 | 116,833 | - | - | - | 39,067,625 |
| 520511 | Cotton yarn >85% single uncombed >714 dtex,not retail | 13,504,960 | 0.23 | 161 | 232,075,655 | 6,183,567 | 96,994 | 173,263 | - | 11,169 | 8 | 238,529,647 |
| 250310 | Sulphur, crude or unrefined | 13,154,555 | - | 23,745 | 47,161,313 | 15,237,808 | 243,439 | 107,347 | 29,695 | 2,546 | 148,595 | 62,951,942 |
| 620462 | Womens, girls trousers & shorts, of cotton, not knit | 12,726,777 | 0.17 | 341,798 | 301,894,560 | 322,204 | 19,259,368 | 9,656,022 | 218,321 | 144,282 | 428,177 | 332,120,449 |
| 620342 | Mens, boys trousers & shorts, of cotton, not knit | 8,029,740 | 0.22 | 846,478 | 464,183,892 | 950,092 | 24,123,639 | 14,174,546 | 1,101,874 | 529,108 | 1,349,038 | 506,729,558 |
| 271312 | Petroleum coke, calcined | 8,014,755 | 2.07 | - | 135,167,460 | 232,756 | 3,378,801 | - | 7,647,371 | 16,231 | - | 146,426,387 |
| 630221 | Bed linen, of cotton, printed, not knit | 7,319,740 | 0.07 | 47,226 | 76,058,821 | 27,868 | 5,477,674 | 209,322 | 15,470,135 | 320,827 | 607,199 | 97,898,245 |
| 520513 | Cotton yarn >85% single uncombed 232-192 dtex,not ret | 7,186,296 | 0.26 | 34,890 | 120,141,834 | 1,837,749 | 80,170 | 127,936 | - | 1,594 | 8,035 | 122,230,614 |
| 130212 | Liquorice extract | 7,090,976 | 0.44 | - | 153,676 | 11,425 | 74,764 | 1,587 | - | - | 380 | 241,832 |
| | SUB-TOTAL | 8,147,338,046 | | 2,010,819,908 | 66,856,866,712 | 15,899,297,135 | 4,107,938,091 | 1,057,988,265 | 560,864,563 | 407,223,105 | 935,206,088 | 91,428,980,762 |
| | | | | | | | | | | | | |
| | | Turkmenistan Exports | | Imports of Central and South Asia | | | | | | | | |
| | Commodity Description | AVG 2010-13 | 2004-13% | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan | TOTAL |
| MEDIUM-SIZE EXPORTS (\$1.8 MILLION < x < \$7 MILLION) | | | | | | | | | | | | |
| 121190 | Plants & parts, pharmacy, perfume, insecticide use ne | 5,923,182 | 3.13 | 344,146 | 175,626,980 | 6,196,609 | 1,328,012 | 60,492 | 1,968 | 32,692 | 557,329 | 184,115,535 |
| 760110 | Aluminium unwrought, not alloyed | 5,232,900 | 0.20 | 26,533 | 650,959,537 | 32,297,572 | 2,515,198 | 125,515 | 2,246 | 210 | 28,307,208 | 714,233,808 |
| 100190 | Wheat except durum wheat, and meslin | 5,224,909 | - | 28,139,464 | 437,382,335 | 5,756,427 | 1,877,949 | 76,439,065 | 122,514,224 | 512,908 | 86,051,618 | 758,161,081 |
| 271311 | Petroleum coke, not calcined | 4,727,276 | (0.42) | - | 53,221,000 | 9,808,322 | 875,564 | - | 5,284,432 | - | - | 69,189,318 |
| 271112 | Propane, liquefied | 4,545,608 | - | 31,267,579 | 1,346,743 | 114,987 | 8,409,324 | 2,635,000 | 78,591,054 | 141,762 | - | 122,364,686 |
| 520919 | Woven cotton nes, >85% >200g/m2, unbleached, nes | 4,234,809 | 0.36 | 12,140 | 11,724,863 | 599,909 | 102,681 | 15,004 | - | 19,454 | - | 12,454,597 |
| 610910 | T-shirts, singlets and other vests, of cotton, knit | 4,167,616 | (0.18) | 2,809,929 | 1,693,212,457 | 2,315,021 | 21,828,818 | 1,471,693 | 2,028,664 | 1,518,205 | 1,731,441 | 1,725,398,022 |
| 842911 | Bulldozers and angledozers, crawler type | 4,116,164 | - | 4,434,518 | 6,319,162 | 3,163,865 | 44,595,040 | 5,344,474 | 2,270,620 | 15,212,111 | 13,869,566 | 79,997,245 |
| 580211 | Terry towelling etc of cotton, not narrow fabric, unb | 3,949,042 | 2.05 | - | 89,519 | 268 | 25,541 | 2 | 73 | - | - | 115,403 |
| 410121 | Bovine hides, whole, fresh or wet-salted | 3,640,542 | 1.93 | 77,176 | 1,089,198 | 5,868,419 | 9,641 | 1,560,531 | 35,981 | - | - | 8,640,944 |
| 510121 | Degreased shorn wool, not carded, combed or carbonize | 3,586,152 | 0.12 | 489,284 | - | 179,667 | 139,980 | 270,994 | - | - | - | 1,079,924 |
| 600292 | Knit or crochet fabric of cotton, nes | 3,461,998 | 0.30 | 13,893 | 133,741,251 | 108,467 | 350,386 | 72,137 | 617,244 | 142,907 | 590,984 | 135,494,362 |
| 520523 | Cotton yarn >85% single combed 232-192 dtex,not retai | 3,387,418 | 1.57 | 110,951 | 909,785,885 | 2,924,729 | 10,572 | 125,714 | - | - | - | 912,957,851 |
| 520299 | Cotton waste, except garnetted stock | 2,745,109 | 0.44 | 737,631 | 57,230,999 | 975,936 | 10,251 | 6,790 | 115 | 1,413 | 47,000 | 59,008,721 |
| 310210 | Urea, including aqueous solution in packs >10 kg | 2,364,619 | (0.24) | 437,438 | 9,076,490 | 411,739,753 | 5,663,043 | 4,535,941 | 1,802,801 | 4,269,874 | 1,902 | 433,257,367 |
| 280300 | Carbon (carbon blacks and other forms of carbon, nes) | 2,169,526 | 0.27 | 45,552 | 225,939,184 | 9,313,268 | 1,284,393 | 23,835 | 735 | 7,110 | 2,324,513 | 238,931,480 |
| 520522 | Cotton yarn >85% single combed 714-232 dtex,not retai | 2,138,551 | 0.98 | 32,569 | 316,211,696 | 5,963,500 | 1,531,131 | 51,647 | - | 6,054 | - | 323,790,543 |
| 890600 | Warships, lifeboats, hospital ships, vessels nes | 2,122,876 | 1.98 | 24,757 | 369,458,425 | 344,987 | 33,534,971 | 6,693 | 887 | 4,067,296 | 66,000 | 403,436,719 |
| 271290 | Mineral waxes nes | 1,985,098 | - | 60,601 | 8,809,831 | 3,302,103 | 191,224 | 57,104 | 23,684 | 33,614 | 1,822,230 | 14,266,776 |
| 711290 | Waste/scrap, precious metals except pure gold/platinu | 1,868,229 | - | - | 394,364,496 | 422 | 101,835 | 467,659 | - | - | 22,891 | 394,957,302 |
| 842649 | Cranes & lifting frames, self-propelled, not on tyres | 1,839,900 | (0.36) | 541,494 | 2,745,725 | 9,725,223 | 22,493,173 | 465,815 | 569,464 | 8,930,561 | 4,371,408 | 40,912,302 |
| | SUB-TOTAL | 73,431,522 | | 69,605,653 | 5,458,335,773 | 510,699,454 | 146,878,722 | 93,736,102 | 213,744,190 | 34,896,171 | 139,764,089 | 6,632,763,983 |

(Continued)

Table A.18: Exports of Turkmenistan by Size of Exports (HS 6-digit category and U.S. dollars) – Continued

| | | Turkmenistan Exports | | Imports of Central and South Asia | | | | | | | |
|---|-------------------|----------------------|--------------------|-----------------------------------|--------------------|--------------------|-------------------|-------------------|--------------------|--------------------|-----------------------|
| Commodity Description | AVG 2010-13 | 2004-13% | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan | TOTAL |
| SMALL-SIZE EXPORTS (\$900,000 < x < \$1.8 MILLION) | | | | | | | | | | | |
| 260700 Lead ores and concentrates | 1,494,064 | - | - | 53,331,187 | 107,329 | 84,092,251 | 665 | - | - | - | 137,531,432 |
| 871610 Trailers for housing or camping | 1,404,704 | - | 100,744 | 797,539 | 851,747 | 2,846,481 | 52,536 | 61,986 | 147,875 | 3,979 | 4,715,011 |
| 843010 Pile-drivers and pile-extractors | 1,367,561 | - | 122,140 | 1,188,718 | 791,506 | 3,463,371 | 57,000 | 50,211 | 1,511,457 | 680,203 | 6,353,148 |
| 520210 Cotton yarn waste (including thread waste) | 1,354,372 | 0.66 | 34,513 | 21,531,173 | 249,029 | 72,207 | 27,440 | - | 6,070 | - | 21,914,363 |
| 520819 Woven cotton nes, >85% <200g/m2, unbleached | 1,282,522 | - | 324,069 | 10,055,404 | 6,514,678 | 403,253 | 56,798 | 1,049,218 | 129,420 | 181,569 | 18,584,988 |
| 870423 Diesel powered trucks weighing > 20 tonnes | 1,236,643 | 3.57 | 47,298,973 | 46,635,603 | 15,314,213 | 194,775,403 | 41,073,174 | 36,134,353 | 97,583,904 | 117,797,536 | 499,029,254 |
| 600242 Warp knit fabric of cotton, nes | 1,220,136 | 1.77 | 946,387 | 126,342 | 191,883 | 19,610 | 27,000 | - | - | 25,349 | 1,343,180 |
| 890190 Cargo vessels other than tanker or refrigerated | 1,212,181 | 0.31 | - | 419,907,205 | 5,155,329 | 44,311,099 | 2,036 | - | 49,727,234 | - | 469,375,669 |
| 520524 Cotton yarn >85% single combed 192-125 dtex, not ret. | 1,204,618 | - | 69,206 | 624,762,492 | 2,002,891 | 391,609 | - | - | - | - | 627,226,198 |
| 410210 Sheep or lamb skins, raw, wool on, except Persian etc | 1,179,423 | 0.73 | 38,910 | 38,696 | 34,167,616 | 72,979 | 259,526 | 18,164 | - | 4,800 | 34,600,690 |
| 230640 Rape or colza seed oil-cake and other solid residues | 1,132,322 | - | 1,651 | 313,546,771 | 5,501,018 | 24,785 | 36,255 | 110,000 | - | - | 319,220,479 |
| 550953 Yarn of polyester & cotton, not retail, nes | 1,103,364 | (0.98) | 2,330,514 | 177,388,143 | 215,700 | 212,303 | - | - | - | 953,162 | 181,099,821 |
| 560121 Wadding, products, of cotton, except sanitary article | 1,074,868 | 1.46 | 19,012 | 25,912,166 | 76,937 | 6,726,210 | 842,179 | 85,242 | 126,858 | 268,849 | 33,930,595 |
| 271113 Butanes, liquefied | 1,071,639 | 2.97 | 264,916 | 82,691 | 1,930 | 1,024,734 | 772,286 | 1,495,280 | 4,235 | 10,156 | 3,651,993 |
| 080610 Grapes, fresh | 1,061,548 | 0.40 | 226,963 | 126,246,572 | 15,259,770 | 51,238,714 | 723,589 | 46,714 | 25,306 | 35,664 | 193,777,984 |
| 510220 Coarse animal hair, not carded or combed | 1,043,704 | 0.88 | 139,819 | 159,402 | - | 67,536 | 20,000 | - | - | - | 386,757 |
| 520515 Cotton yarn >85% single uncombed <125 dtex, not retail | 1,037,635 | (0.14) | - | 1,187,258 | 711,827 | 25,499 | 90,406 | - | - | - | 2,014,989 |
| 880240 Fixed wing aircraft, unladen weight > 15,000 kg | 1,000,000 | - | 3,011,728 | 782,623,933 | 10,996,102 | 389,631,677 | 17,878,456 | 526,522 | 41,423,519 | 180,171,408 | 1,384,839,826 |
| 070200 Tomatoes, fresh or chilled | 963,028 | - | 8,038,656 | 58,534,805 | 108,171,862 | 38,401,362 | 232,038 | 11,684 | 138,933 | 4,000 | 213,394,406 |
| 851531 Automatic electric plasma, other arc welding equipmen | 934,317 | - | 231,078 | 2,340,103 | 523,356 | 6,331,328 | 26,529 | 33,075 | 2,704,730 | 4,340,422 | 13,825,890 |
| SUB-TOTAL | 23,378,646 | | 62,259,499 | 2,667,216,244 | 206,739,182 | 824,304,682 | 62,170,521 | 39,649,448 | 193,529,539 | 304,477,097 | 4,166,816,674 |
| | | | | | | | | | | | |
| | | Turkmenistan Exports | | Imports of Central and South Asia | | | | | | | |
| Commodity Description | AVG 2010-13 | 2004-13% | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan | TOTAL |
| EMERGING EXPORTS (\$500,000 < x < \$900,000) | | | | | | | | | | | |
| 410110 Bovine skins, whole, raw | 887,440 | - | 16,945 | 1,746,147 | 207,638 | 10,075 | 1,079,041 | 11,860 | - | - | 3,071,706 |
| 180690 Chocolate/cocoa food preparations nes | 877,325 | 0.07 | 5,701,933 | 33,260,044 | 1,413,364 | 126,470,748 | 38,672,391 | 32,447,184 | 33,620,934 | 9,621,823 | 247,587,486 |
| 850423 Liquid dielectric transformers > 10,000 KVA | 849,915 | (0.10) | 2,926,690 | 164,524,834 | 21,647,261 | 76,656,272 | 16,812,484 | 6,412,731 | 15,394,927 | 7,103,752 | 296,084,023 |
| 846229 Machine tools to bend, fold, shear or press metal, ne | 842,999 | 2.14 | 1,246,409 | 9,665,359 | 1,278,260 | 8,359,991 | 294,650 | 123,060 | 869,527 | 1,366,865 | 22,334,234 |
| 842952 Shovels and excavators with revolving superstructure | 839,100 | (0.30) | 2,515,621 | 45,058,509 | 432,197 | 151,355,913 | 22,962,036 | 14,928,182 | 23,382,358 | 91,962,056 | 329,214,513 |
| 500200 Raw silk (not thrown) | 837,365 | 0.58 | 58,167 | 694,052 | 1,235,105 | - | - | - | - | - | 1,987,324 |
| 580219 Terry towelling etc of cotton nes, width > 30cm | 831,213 | 0.60 | 9,321 | 2,664,770 | 271,535 | 782,195 | 373,161 | - | 4,080 | 290 | 4,101,270 |
| 151919 Industrial monocarboxylic fatty acids, nes, acid oils | 803,750 | - | 54,521 | 65,310,734 | 20,167,068 | 1,202,725 | 245,044 | 1,893 | 4,021 | 110,926 | 87,092,911 |
| 410429 Bovine and equine leather, tanned or retanned, nes | 796,365 | 0.35 | 447,622 | 2,635,634 | 2,372,091 | 115,453 | 320,979 | - | - | - | 5,891,778 |
| 520521 Cotton yarn >85% single combed >714dtex, not retail | 779,988 | - | - | 165,536,602 | 866,902 | 9,208 | 115,535 | - | - | - | 166,528,247 |
| 870590 Special purpose motor vehicles nes | 778,153 | 2.23 | 442,325,857 | 22,778,009 | 55,317,289 | 90,903,767 | 6,993,380 | 7,829,930 | 49,544,032 | 15,370,371 | 641,518,602 |
| 620292 Womens, girls anoraks etc of cotton, not knit | 778,113 | - | 73,377 | 1,062,219 | 7,099 | 1,664,141 | 280,393 | 658,585 | 192,720 | 333,193 | 4,079,005 |
| 151221 Cotton-seed oil crude | 734,522 | 2.53 | 90,050 | - | - | 4,258 | 4,730,269 | 2,346,536 | 33,994 | 10,009,110 | 17,180,222 |
| 870510 Mobile cranes | 722,169 | 3.72 | 3,718,893 | 1,910,145 | 3,139,490 | 75,601,750 | 3,150,026 | 2,770,135 | 32,385,454 | 10,593,410 | 100,883,848 |
| 970600 Antiques older than one hundred years | 692,176 | 1.83 | - | 2,959,214 | 36,035,249 | 28,030 | - | 19,198 | 2,485 | - | 39,041,692 |
| 860610 Railway tank cars | 683,573 | - | 198,250 | 5,742,438 | 27,140,460 | 217,411,486 | 3,864 | 215,292 | 16,240,000 | 2,710,861 | 253,422,651 |
| 151800 Processed animal, vegetable oils, industrial preps ne | 635,510 | 0.02 | 21,230 | 14,045,935 | 1,862,850 | 164,226 | 11,988 | 77,998 | 180,486 | 130,067 | 16,314,294 |
| 520525 Cotton yarn >85% single combed <125 dtex, not retail | 590,687 | 0.18 | - | 145,475,527 | 23,901,514 | 14,783 | 69,000 | - | - | 6,719 | 169,467,543 |
| 151920 Acid oils from refining | 579,186 | 0.13 | 1,830 | 149,813,973 | 865,887 | 1,048 | - | 310 | 52,248 | 132,088 | 150,815,136 |
| 151229 Cotton-seed or fractions simply refined | 570,348 | - | - | 142,411 | 1,863 | 131,821 | 321,026 | 551,322 | - | 996,899 | 2,145,341 |
| 520852 Plain weave cotton, >85% 100-200g/m2, printed | 554,002 | 3.59 | 907,322 | 167,841,673 | 1,799,287 | 1,481,579 | 42,158 | 54,018 | - | 42,697 | 172,168,734 |
| 152200 Degras, residues from treatment animal & veg waxes | 551,497 | 1.42 | 129,612 | 872,276 | 9,090,627 | 71,197 | 41,313 | 29,323 | - | 163,456 | 10,397,804 |
| 902610 Equipment to measure or check liquid flow or level | 539,765 | 3.94 | 1,444,039 | 38,762,826 | 1,189,623 | 36,796,002 | 1,058,592 | 363,280 | 6,481,177 | 3,537,747 | 83,152,110 |
| 843390 Parts of agricultural machinery | 536,850 | (0.38) | 123,865 | 9,283,677 | 338,734 | 10,661,012 | 367,099 | 98,939 | 6,405,226 | 9,695,469 | 30,568,794 |
| 520911 Plain weave cotton, >85% >200g/m2, unbleached | 535,165 | (0.02) | 18,164 | 39,461,878 | 18,273 | 265,054 | 16,430 | - | 81,588 | 60,000 | 39,839,797 |
| 621142 Womens, girls garments nes, of cotton, not knit | 531,897 | - | 410,150 | 172,681,337 | 1,675 | 977,359 | 239,573 | 55,733 | 27,635 | 383,900 | 174,749,726 |
| 710239 Diamonds (jewellery) worked but not mounted or set | 511,113 | 2.70 | 4,970 | 25,186,606,090 | 332,773 | 48,267 | 141,183 | - | - | - | 25,187,133,283 |
| 901420 Instruments nes for aeronautical/space navigation | 504,080 | 3.43 | 826,175 | 1,095,865 | 93,740 | 2,576,645 | 93,642 | 117,298 | 448,605 | 3,848,871 | 8,652,236 |
| 610462 Womens, girls trousers & shorts, of cotton, knit | 502,025 | (0.28) | 54,073 | 114,697,296 | 84,387 | 3,153,807 | 400,558 | 13,348,849 | 419,955 | 1,732,616 | 133,471,587 |
| SUB-TOTAL | 19,876,289 | | 463,324,722 | 26,566,329,473 | 211,112,238 | 806,918,813 | 98,835,812 | 82,461,654 | 185,771,452 | 169,913,185 | 28,398,895,896 |

Table A.19: Exports of Uzbekistan by Size of Exports (HS 6-digit category and U.S. dollars)

| Uzbekistan Exports | | | | | | | | | | | | Imports of Central and South Asia | | | | | | | | | | | | | |
|---|--|----------------|----------|---------------|-----------------|----------------|---------------|---------------|---------------|---------------|---------------|-----------------------------------|-----------------------|--|-------------|----------|-------------|-------------|-------------|-------------|------------|------------|--------------|------------|-------------|
| Commodity Description | | AVG 2010-13 | 2004-13% | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan | TOTAL | Commodity Description | | AVG 2010-13 | 2004-13% | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan | TOTAL |
| TOTAL | | 11,666,155,833 | | 5,041,328,637 | 185,184,451,094 | 25,153,848,769 | 8,330,604,564 | 2,872,285,118 | 1,475,298,562 | 1,750,451,244 | 2,055,278,038 | 231,863,546,026 | | | | | | | | | | | | | |
| LARGE-SIZE EXPORTS (> \$40 MILLION) | | | | | | | | | | | | | | | | | | | | | | | | | |
| 520100 | Cotton, not carded or combed | 856,954,012 | 0.04 | 1,092,369 | 3,630,615,645 | 715,678,311 | 4,011,272 | 271,057 | 83,723 | 23,387 | 782,996 | 4,352,558,758 | 080910 | Apricots, fresh | 36,833,111 | 0.61 | 815 | 43,605 | 3,145,645 | 22,292,787 | 1,229,773 | - | 10,623 | 12,481 | 26,735,729 |
| 271121 | Natural gas in gaseous state | 619,983,059 | 0.72 | - | 5,129,862 | 11,669 | 360,728,868 | 67,236,551 | - | - | 12,458 | 433,119,408 | 390120 | Polyethylene - specific gravity >0.94 in primary form | 36,435,464 | 0.58 | 2,001,115 | 201,234,337 | 199,915,390 | 176,164,155 | 1,426,341 | 2,000,239 | 1,748,779 | 5,717,999 | 590,208,353 |
| 271000 | Oils petroleum, bituminous, distillates, except crude | 480,135,201 | 0.54 | 1,329,822,185 | 52,772,861,114 | 9,398,675,314 | 1,219,891,358 | 929,421,199 | 283,335,662 | 45,941,852 | 327,960,777 | 66,307,909,461 | 070990 | Vegetables, fresh or chilled nes | 31,231,895 | 0.39 | 27,193,089 | 75,761,529 | 3,221,320 | 10,636,736 | 12,016 | 5,711 | 51,248 | 7,580 | 116,889,229 |
| 740311 | Copper cathodes and sections of cathodes unwrought | 475,704,738 | 0.19 | 25,723 | 2,821,383,962 | 71,318,896 | 252,800 | 5,402 | - | 40,422 | - | 2,893,027,204 | 711290 | Waste/scrap, precious metals except pure gold/platinum | 30,692,172 | 0.58 | - | 394,364,496 | 422 | 101,835 | 467,659 | - | - | 22,891 | 394,957,302 |
| 284410 | Natural uranium, its compounds, mixtures | 419,951,836 | 0.39 | - | 58,261 | 4,484 | 4,111,046 | - | - | - | - | 4,173,791 | 080920 | Cherries, fresh | 29,626,205 | 3.84 | 673,362 | 29,356 | 59 | 15,250,498 | 1,051,759 | 16,524 | 339,689 | - | 17,361,246 |
| 870322 | Automobiles, spark ignition engine of 1000-1500 cc | 295,557,693 | 0.36 | 13,005,626 | 2,617,206,066 | 319,701,327 | 75,800,824 | 13,267,675 | 2,808,791 | 1,533,035 | 2,626,444 | 3,045,949,787 | 080620 | Grapes, dried | 29,026,636 | 0.21 | 95,052 | 28,552,186 | 139,549 | 7,187,931 | 43,512 | 113,446 | 45,047 | 47,192 | 36,223,913 |
| 870321 | Automobiles, spark ignition engine of <1000 cc | 201,592,243 | 0.43 | 4,727,462 | 1,388,258,732 | 253,384,507 | 16,145,083 | 7,568,128 | 1,182,949 | 504,681 | 818,221 | 1,672,589,763 | 080930 | Peaches, nectarines, fresh | 28,121,088 | 0.47 | 212,613 | 56 | 534 | 23,854,166 | 808,878 | 5,833 | 402,426 | 1,557 | 25,286,061 |
| 710812 | Gold in unwrought forms non-monetary | 171,040,538 | 0.33 | - | 755,238,236 | 245,810,350 | 328,470 | 16,990,471 | - | 37,188,449 | 14,595 | 1,055,570,570 | 310559 | Fertilizers with nitrogen and phosphorus nes, <=10kg | 26,539,574 | | 4,105,856 | 103,396 | 3,237,777 | 1,369,099 | 804,170 | 792,403 | 36,201 | 10,865 | 10,459,767 |
| 520512 | Cotton yarn >85% single uncombed 714-232 dtex,not ret | 158,836,714 | 0.17 | - | 329,165,047 | 4,644,908 | 671,993 | 355,632 | - | 857 | 52,554 | 334,890,990 | 310420 | Potassium chloride, in packs >10 kg | 26,475,997 | | 99,816 | 7,424,977 | 5,550,100 | 4,338,202 | 18,247 | 288,582 | 4,746,334 | 368,551 | 22,834,808 |
| 870323 | Automobiles, spark ignition engine of 1500-3000 cc | 138,566,425 | | 24,986,746 | 295,521,213 | 144,565,162 | 727,227,158 | 148,278,139 | 53,482,867 | 40,751,518 | 159,712,719 | 1,594,525,522 | 520523 | Cotton yarn >85% single combed 232-192 dtex,not retail | 24,214,840 | 0.01 | 110,951 | 909,785,885 | 2,924,729 | 10,572 | 125,714 | - | - | - | 912,957,851 |
| 790112 | Zinc, not alloyed, unwrought, <99% pure | 106,162,667 | 0.41 | 1,369,862 | 23,909,249 | 9,872,595 | 76,403 | 55 | - | 4,922 | 47,633 | 35,280,717 | 252329 | Portland cement, other than white cement | 23,917,824 | 0.52 | 282,371,857 | 132,582,484 | 1,155,730 | 113,102,067 | 3,262,219 | 24,986,188 | 33,131,466 | 1,520,172 | 592,112,181 |
| 999999 | Commodities not specified according to kind | 102,795,206 | 0.18 | 653,122,385 | 6,408,966,321 | 47,590,683 | 81,859,269 | 24,566,233 | 78,283,525 | 353,657,564 | 226,445,078 | 7,874,491,059 | 843049 | Boring or sinking machinery nes, not self-propelled | 23,640,759 | 1.33 | 227,796 | 42,934,871 | 46,276,753 | 63,361,965 | 3,749,463 | 1,829,744 | 15,062,178 | 12,394,801 | 185,837,571 |
| 080610 | Grapes, fresh | 92,452,819 | 0.27 | 226,963 | 126,246,572 | 15,259,770 | 51,238,714 | 723,589 | 46,714 | 25,306 | 35,664 | 193,803,290 | 520532 | Cotton yarn >85% multiple uncomb 714-232 dtex,not ret | 23,460,679 | 0.12 | 135,093 | 44,250,874 | 118,360 | 191,371 | 19,949 | - | - | 1,699 | 44,717,346 |
| 610910 | T-shirts, singlets and other vests, of cotton, knit | 78,258,347 | 0.45 | 2,809,929 | 1,693,212,457 | 2,315,021 | 21,828,818 | 1,471,693 | 2,028,664 | 1,518,205 | 1,731,441 | 1,726,916,227 | 520522 | Cotton yarn >85% single combed 714-232 dtex,not retail | 22,548,631 | 0.20 | 32,569 | 316,211,696 | 5,963,500 | 1,531,131 | 51,647 | - | 6,054 | - | 323,796,597 |
| 740819 | Wire of refined copper < 6mm wide | 75,143,508 | | 500,811 | 41,455,962 | 1,588,221 | 914,813 | 230,884 | 60,661 | 103,596 | 183,033 | 45,037,981 | 080940 | Plums, sloes, fresh | 19,988,579 | 0.54 | 19,411 | 140,615 | 6,660 | 18,180,436 | 60,223 | 616 | 107,179 | 11 | 18,515,150 |
| 310230 | Ammonium nitrate, including solution, in pack >10 kg | 67,730,640 | 0.52 | 224,300 | 6,774,124 | 2,771,585 | 63,173,309 | 38,896,165 | 1,297,223 | 1,864,431 | 2,540,799 | 117,541,935 | 611020 | Pullovers, cardigans etc of cotton, knit | 19,888,059 | 0.42 | 293,824 | 124,093,843 | 231,652 | 19,112,277 | 8,303,331 | 311,666 | 571,293 | 2,407,780 | 155,325,665 |
| 310210 | Urea, including aqueous solution in packs >10 kg | 61,180,884 | 0.39 | 437,438 | 9,076,490 | 411,739,753 | 5,663,043 | 4,535,941 | 1,802,801 | 4,269,874 | 1,902 | 437,527,241 | 070490 | Edible brassicas nes, fresh or chilled | 19,592,983 | 0.59 | 539,573 | 1,542,954 | 663,571 | 13,502,630 | 56,262 | 9,013 | 780,510 | - | 17,094,512 |
| 520513 | Cotton yarn >85% single uncombed 232-192 dtex,not ret | 60,236,755 | 0.16 | 34,890 | 120,141,834 | 1,837,749 | 80,170 | 127,936 | - | 1,594 | 8,035 | 122,232,208 | 240110 | Tobacco, unmanufactured, not stemmed or stripped | 19,529,803 | 0.12 | 16,254 | 85,319,916 | 80,940 | 7,000,907 | 1,547,520 | 21,845 | - | 652,256 | 94,639,638 |
| 740811 | Wire of refined copper > 6mm wide | 57,608,909 | 0.56 | 267,000 | 162,692,679 | 654,379 | 1,293,128 | 21,319 | 260,134 | 116,048 | 147,070 | 165,451,757 | 520812 | Plain weave cotton, >85% 100-200g/m2, unbleached | 19,394,632 | 0.01 | 482,133 | 42,554,215 | 318,370 | 282,245 | 14,007 | 5,963,048 | 590,138 | 5,704,656 | 55,908,812 |
| 081090 | Fruits, fresh nes | 55,075,075 | 0.41 | 6,701,169 | 49,537,790 | 3,433,218 | 38,457,755 | 110,716 | 107,134 | 956,244 | 330,712 | 99,634,737 | 520524 | Cotton yarn >85% single combed 192-125 dtex, not ret. | 19,380,455 | 0.28 | 69,206 | 624,762,492 | 2,002,891 | 391,609 | - | - | - | - | 627,226,198 |
| 854459 | Electric conductors, 80-1,000 volts, no connectors | 50,128,234 | 0.41 | 34,825,635 | 46,133,555 | 39,092,316 | 185,171,933 | 10,536,497 | 7,934,122 | 104,179,147 | 12,555,287 | 440,428,493 | 271290 | Mineral waxes nes | 18,789,869 | 0.45 | 60,601 | 8,809,831 | 3,302,103 | 191,224 | 57,104 | 23,684 | 33,614 | 1,822,230 | 14,300,390 |
| 070200 | Tomatoes, fresh or chilled | 43,885,392 | 0.26 | 8,038,656 | 58,534,805 | 108,171,862 | 38,401,362 | 232,038 | 11,684 | 138,933 | 4,000 | 213,533,339 | 711220 | Waste/scrap containing platinum as sole precious metal | 18,290,737 | 0.90 | - | 4,828,597 | - | 1,353 | - | - | - | - | 4,829,950 |
| 520514 | Cotton yarn >85% single uncombed 192-125 dtex,not ret | 43,766,515 | 0.97 | 199,105 | 213,493,501 | 233,018 | 44,015 | 27,638 | - | - | - | 213,997,277 | 570242 | Carpets of manmade yarn, woven pile, made up, nes | 17,999,700 | 1.75 | 18,015,410 | 31,462,967 | 3,716,703 | 37,105,149 | 3,366,488 | 27,556,725 | 19,061,706 | 1,784,368 | 142,069,516 |
| 080710 | Melons (including watermelons), fresh | 41,380,165 | 0.22 | 2,051,928 | 4,715,439 | 1,606,684 | 15,103,900 | 16,945 | - | 80,013 | 8,222 | 23,583,130 | 070700 | Cucumbers and gherkins, fresh or chilled | 17,283,346 | 0.90 | 1,735,020 | 183,497 | 48,771 | 19,327,600 | 119,836 | 3,136 | 170,444 | 463 | 21,588,765 |
| SUB-TOTAL | | 4,754,127,572 | | 2,084,470,180 | 73,580,328,913 | 11,799,961,781 | 2,912,475,501 | 1,264,891,900 | 432,726,653 | 592,900,074 | 736,019,640 | 93,403,774,643 | | | | | | | | | | | | | |
| Commodity Description | | AVG 2010-13 | 2004-13% | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan | TOTAL | | | | | | | | | | | | | |
| MEDIUM-SIZE EXPORTS (\$15 MILLION < x < \$40 MILLION) | | | | | | | | | | | | | | | | | | | | | | | | | |
| 080910 | Apricots, fresh | 36,833,111 | 0.61 | 815 | 43,605 | 3,145,645 | 22,292,787 | 1,229,773 | - | 10,623 | 12,481 | 26,735,729 | 390120 | Polyethylene - specific gravity >0.94 in primary form | 36,435,464 | 0.58 | 2,001,115 | 201,234,337 | 199,915,390 | 176,164,155 | 1,426,341 | 2,000,239 | 1,748,779 | 5,717,999 | 590,208,353 |
| 390120 | Polyethylene - specific gravity >0.94 in primary form | 36,435,464 | 0.58 | 2,001,115 | 201,234,337 | 199,915,390 | 176,164,155 | 1,426,341 | 2,000,239 | 1,748,779 | 5,717,999 | 590,208,353 | 070990 | Vegetables, fresh or chilled nes | 31,231,895 | 0.39 | 27,193,089 | 75,761,529 | 3,221,320 | 10,636,736 | 12,016 | 5,711 | 51,248 | 7,580 | 116,889,229 |
| 070990 | Vegetables, fresh or chilled nes | 31,231,895 | 0.39 | 27,193,089 | 75,761,529 | 3,221,320 | 10,636,736 | 12,016 | 5,711 | 51,248 | 7,580 | 116,889,229 | 711290 | Waste/scrap, precious metals except pure gold/platinum | 30,692,172 | 0.58 | - | 394,364,496 | 422 | 101,835 | 467,659 | - | - | 22,891 | 394,957,302 |
| 711290 | Waste/scrap, precious metals except pure gold/platinum | 30,692,172 | 0.58 | - | 394,364,496 | 422 | 101,835 | 467,659 | - | - | 22,891 | 394,957,302 | 080920 | Cherries, fresh | 29,626,205 | 3.84 | 673,362 | 29,356 | 59 | 15,250,498 | 1,051,759 | 16,524 | 339,689 | - | 17,361,246 |
| 080920 | Cherries, fresh | 29,626,205 | 3.84 | 673,362 | 29,356 | 59 | 15,250,498 | 1,051,759 | 16,524 | 339,689 | - | 17,361,246 | 080620 | Grapes, dried | 29,026,636 | 0.21 | 95,052 | 28,552,186 | 139,549 | 7,187,931 | 43,512 | 113,446 | 45,047 | 47,192 | 36,223,913 |
| 080620 | Grapes, dried | 29,026,636 | 0.21 | 95,052 | 28,552,186 | 139,549 | 7,187,931 | 43,512 | 113,446 | 45,047 | 47,192 | 36,223,913 | 080930 | Peaches, nectarines, fresh | 28,121,088 | 0.47 | 212,613 | 56 | 534 | 23,854,166 | 808,878 | 5,833 | 402,426 | 1,557 | 25,286,061 |
| 080930 | Peaches, nectarines, fresh | 28,121,088 | 0.47 | 212,613 | 56 | 534 | 23,854,166 | 808,878 | 5,833 | 402,426 | 1,557 | 25,286,061 | 310559 | Fertilizers with nitrogen and phosphorus nes, <=10kg | 26,539,574 | | 4,105,856 | 103,396 | 3,237,777 | 1,369,099 | 804,170 | 792,403 | 36,201 | 10,865 | 10,459,767 |
| 310559 | Fertilizers with nitrogen and phosphorus nes, <=10kg | 26,539,574 | | 4,105,856 | 103,396 | 3,237,777 | 1,369,099 | 804,170 | 792,403 | 36,201 | 10,865 | 10,459,767 | 310420 | Potassium chloride, in packs >10 kg | 26,475,997 | | 99,816 | 7,424,977 | 5,550,100 | 4,338,202 | 18,247 | 288,582 | 4,746,334 | 368,551 | 22,834,808 |
| 310420 | Potassium chloride, in packs >10 kg | 26,475,997 | | 99,816 | 7,424,977 | 5,550,100 | 4,338,202 | 18,247 | 288,582 | 4,746,334 | 368,551 | 22,834,808 | 520523 | Cotton yarn >85% single combed 232-192 dtex,not retail | 24,214,840 | 0.01 | 110,951 | 909,785,885 | 2,924,729 | 10,572 | 125,714 | - | - | - | 912,957,851 |
| 520523 | Cotton yarn >85% single combed 232-192 dtex,not retail | 24,214,840 | 0.01 | 110,951 | 909,785,885 | 2,924,729 | 10,572 | 125,714 | - | - | - | 912,957,851 | 252329 | Portland cement, other than white cement | 23,917,824 | 0.52 | 282,371,857 | 132,582,484 | 1,155,730 | 113,102,067 | 3,262,219 | 24,986,188 | 33,131,466 | 1,520,172 | 592,112,181 |
| 843049 | Boring or sinking machinery nes, not self-propelled | 23,640,759 | 1.33 | 227,796 | 42,934,871 | 46,276,753 | 63,361,965 | 3,749,463 | 1,829,744 | 15,062,178 | 12,394,801 | 185,837,571 | | | | | | | | | | | | | |

(Continued)

Table A.19: Exports of Uzbekistan by Size of Exports (HS 6-digit category and U.S. dollars) – Continued

| Commodity Description | Uzbekistan Exports | | Imports of Central and South Asia | | | | | | | | |
|---|--------------------|----------|-----------------------------------|-----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-----------------------|
| | AVG 2010-13 | 2004-13% | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan | TOTAL |
| SMALL-SIZE EXPORTS (\$8 MILLION < x < \$15 MILLION) | | | | | | | | | | | |
| 081350 Mixtures of edible nuts, dried and preserved fruits | 14,764,260 | 0.41 | 131,290 | 450,661 | 1,164,425 | 21,159,957 | 19,508 | 18,587 | 1,429 | 119 | 22,945,976 |
| 071331 Urd,mung,black or green gram beans dried shelled | 14,392,842 | 0.55 | 84,558 | 1,199,588 | 707,665 | 22,360 | 445 | - | - | - | 2,014,615 |
| 600292 Knit or crochet fabric of cotton, nes | 13,982,830 | 0.16 | 13,893 | 133,741,251 | 108,467 | 350,386 | 72,137 | 617,244 | 142,907 | 590,984 | 135,637,269 |
| 310540 Monoammonium phosphate & mix with diammonium, <=10 | 13,880,338 | 0.87 | - | 770,904 | 16,458,203 | 99,221 | 2,798 | 2,226 | 57 | 67,299 | 17,400,707 |
| 390110 Polyethylene - specific gravity <0.94 in primary form | 12,665,004 | 0.54 | 449,954 | 46,648,013 | 221,461,187 | 32,171,009 | 3,236,217 | 684,633 | 1,243,298 | 7,116,363 | 313,010,674 |
| 711319 Jewellery and parts of precious metal except silver | 12,436,343 | 1.51 | 427,594 | 11,996,505,824 | 33,929,271 | 65,067,293 | 3,094,902 | 17,155,961 | 7,362,594 | 24,218,293 | 12,147,761,731 |
| 284420 Uranium (enriched U235), plutonium compounds, alloys | 11,811,462 | 1.77 | - | 10,635 | - | 77,833,638 | - | - | - | - | 77,844,273 |
| 200970 Apple juice not fermented or spirited | 11,358,818 | 0.32 | 2,381,633 | 173,578 | 4,165,396 | 16,487,526 | 1,909,668 | 257,458 | 929,297 | 98,800 | 26,403,356 |
| 560300 Nonwovens textiles except felt | 11,314,141 | 0.24 | 156,530 | 61,641,159 | 29,676,739 | 20,787,116 | 1,246,152 | 154,112 | 3,204,475 | 5,649,677 | 122,515,959 |
| 520210 Cotton yarn waste (including thread waste) | 11,222,040 | 0.16 | 34,513 | 21,531,173 | 249,029 | 72,207 | 27,440 | - | 6,070 | - | 21,920,433 |
| 410429 Bovine and equine leather, tanned or retanned, nes | 10,892,472 | 1.12 | 447,622 | 2,635,634 | 2,372,091 | 115,453 | 320,979 | - | - | - | 5,891,778 |
| 121190 Plants & parts, pharmacy, perfume, insecticide use ne | 10,883,696 | 3.98 | 344,146 | 175,626,980 | 6,196,609 | 13,288,012 | 60,492 | 1,968 | 32,692 | 557,329 | 184,148,227 |
| 610831 Womens, girls nightdress or pyjamas, of cotton, knit | 10,655,448 | 2.74 | 45,299 | 207,440,327 | 9,052 | 3,153,468 | 428,061 | 28,995 | 37,356 | 118,116 | 211,260,674 |
| 140420 Cotton linters | 10,489,209 | (0.04) | 567 | 38,919,271 | - | 30,955 | 116,833 | - | - | - | 39,067,625 |
| 100110 Durum wheat | 10,434,968 | - | 11,368,708 | 251,463,802 | 58,520,622 | 175,547 | 350,430 | 1,376,810 | 146,363 | 565,187 | 323,967,468 |
| 270112 Bituminous coal, not agglomerated | 10,369,961 | - | 5,812 | 817,698 | 1,264,143 | 265,889 | 1,169,146 | 151,249 | 13,519 | 3,780 | 3,691,236 |
| 100190 Wheat except durum wheat, and meslin | 10,288,359 | 0.81 | 28,139,464 | 437,382,335 | 5,756,427 | 1,877,949 | 76,439,065 | 122,514,224 | 512,908 | 86,051,618 | 758,673,989 |
| 520912 Twill weave cotton, >85% >200g/m2, unbleached | 9,835,973 | 0.02 | - | 19,028,245 | 90,056 | 207,029 | 101,636 | - | - | - | 19,426,965 |
| 080232 Walnuts, fresh or dried, shelled | 9,668,715 | 0.21 | 30,546 | 44,333,791 | 1,643 | 3,032,848 | - | 7,515 | 12,390 | 336 | 47,419,068 |
| 611120 Babies garments, accessories of cotton, knit | 9,527,293 | 1.76 | 753,903 | 446,189,598 | 774,640 | 3,905,306 | 784,915 | 200,454 | 70,327 | 423,404 | 453,102,547 |
| 840734 Engines, spark-ignition reciprocating, over 1000 cc | 8,873,825 | - | 8,807,480 | 50,274,513 | 1,042,722 | 25,823,402 | 1,159,834 | 107,099 | 889,703 | 110,204,766 | 198,309,520 |
| 252210 Quicklime | 8,707,718 | 1.78 | 22,504 | 1,448,504 | 2,596 | 8,866,615 | 1,746,406 | 41,492 | 17,433 | 6,562 | 12,152,111 |
| 710090 Glass containers nes for packing or conveyance goods | 8,513,764 | 0.42 | 141,418 | 140,473,292 | 7,671,315 | 131,569,963 | 10,877,646 | 921,992 | 6,655,704 | 4,847,388 | 303,158,718 |
| 560121 Wadding, products, of cotton, except sanitary article | 8,341,208 | 0.10 | 19,012 | 25,912,166 | 76,937 | 6,726,210 | 842,179 | 85,242 | 126,858 | 268,849 | 34,057,453 |
| 470610 Cotton linters pulp | 8,167,265 | 0.45 | - | 432,286 | - | 77,098 | - | - | - | - | 509,384 |
| SUB-TOTAL | 273,477,951 | | 53,806,445 | 14,105,051,227 | 391,699,235 | 421,206,454 | 104,006,886 | 144,327,260 | 21,405,379 | 240,788,869 | 15,482,291,754 |
| Commodity Description | Uzbekistan Exports | | Imports of Central and South Asia | | | | | | | | |
| | AVG 2010-13 | 2004-13% | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan | TOTAL |
| EMERGING EXPORTS (\$5 MILLION < x < \$8 MILLION) | | | | | | | | | | | |
| 760421 Profiles, hollow, aluminium, alloyed | 7,951,549 | 1.70 | 967,723 | 4,801,386 | 121,792 | 9,251,700 | 1,734,771 | 3,381,275 | 8,884,104 | 722,456 | 29,865,207 |
| 271312 Petroleum coke, calcined | 7,893,918 | 1.01 | - | 135,167,460 | 232,756 | 3,378,801 | - | 7,647,371 | 16,231 | - | 146,442,618 |
| 610711 Mens, boys underpants or briefs, of cotton, knit | 7,851,289 | 1.10 | 292,325 | 166,110,532 | 99,572 | 2,908,412 | 269,031 | 206,763 | 300,264 | 100,379 | 170,287,278 |
| 680911 Plaster board etc not ornamental, paper reinforced | 7,599,864 | 2.85 | 522,471 | 138,169 | 368,424 | 12,243,516 | 6,854,263 | 5,532,059 | 2,234,935 | 320,751 | 28,214,587 |
| 081340 Fruits, dried nes | 7,507,299 | 0.62 | 685,146 | 17,876,445 | 4,902,220 | 6,509,199 | 3,333 | 1,806 | 46,928 | 5,525 | 30,030,600 |
| 293890 Glycosides and salts, ethers, esters, derivs nes, bul | 7,493,620 | 1.59 | 55,901 | 13,505,008 | 1,089,248 | 17,595 | 410 | - | 717 | 30,780 | 14,699,658 |
| 500200 Raw silk (not thrown) | 7,424,349 | 0.21 | 58,167 | 694,052 | 1,235,105 | - | - | - | - | - | 1,987,324 |
| 610342 Mens, boys trousers & shorts, of cotton, knit | 7,255,314 | 0.88 | 125,947 | 74,473,885 | 142,156 | 3,769,830 | 595,080 | 26,797,802 | 352,098 | 1,362,079 | 107,618,877 |
| 120220 Ground-nuts shelled, not roasted or cooked | 6,930,982 | 0.12 | 75,224 | 672,342,310 | 4,650,416 | 7,174,164 | 693 | - | 94,487 | - | 684,337,293 |
| 810299 Molybdenum, articles thereof nes | 6,832,129 | - | 392,681 | 1,309 | 56,062 | 1,385 | - | - | - | - | 451,436 |
| 081310 Apricots, dried | 6,817,394 | 0.18 | 3,999 | 28,779 | 38,636 | 13,935,683 | 4,962 | 31,315 | 363,682 | 1,700 | 14,408,754 |
| 960310 Brooms/brushes of vegetable material | 6,524,378 | 0.25 | 32,900 | 2,310,650 | 311,579 | 3,265,123 | 112,327 | 865 | 8,460 | 2,665 | 6,044,568 |
| 070610 Carrots and turnips, fresh or chilled | 6,413,336 | 2.58 | 66,872 | 139,684 | 59,610 | 12,231,082 | 13,183 | 6,553 | 265,343 | 126 | 12,782,453 |
| 071333 Kidney beans and white pea beans dried shelled | 6,346,795 | 0.38 | 53,051 | 41,204 | 47,571,317 | 2,068,406 | 5,675 | 6,423 | 80,728 | 1,446 | 49,828,249 |
| 070960 Peppers (Capsicum, Pimenta) fresh or chilled | 6,255,899 | 0.20 | 517,148 | 19,581,417 | 4,010,983 | 10,753,861 | 245,003 | 774 | 133,921 | 693 | 35,243,800 |
| 610462 Womens, girls trousers & shorts, of cotton, knit | 6,100,985 | 0.22 | 54,073 | 114,697,296 | 84,387 | 3,153,807 | 400,558 | 13,348,849 | 419,955 | 1,732,616 | 133,891,542 |
| 600191 Pile knit or crochet fabric, of cotton, nes | 6,091,237 | 2.40 | 11,814 | 9,745,593 | 654,603 | 32,293 | 95,691 | - | 471 | 30,070 | 10,570,535 |
| 810291 Molybdenum, unwrought, bars/rods simply sintered,scre | 5,824,476 | 1.88 | - | 143,364 | 54,258 | 2,341,965 | 2,318 | - | - | - | 2,541,906 |
| 870870 Wheels including parts/accessories for motor vehicles | 5,806,683 | 0.05 | 5,713,345 | 81,986,454 | 2,418,281 | 33,723,892 | 3,021,954 | 782,171 | 2,764,595 | 5,357,490 | 135,768,180 |
| 721420 Bar/rod, iron or non-alloy steel, indented or twisted, nes | 5,707,472 | 0.29 | 30,219,776 | 9,513,235 | 6,170,729 | 105,391,248 | 24,477,682 | 24,566,350 | 160,791,455 | 3,342,673 | 364,473,146 |
| 611592 Hosiery nes, of cotton, knit | 5,632,729 | 0.45 | 1,031,646 | 9,175,411 | 1,077,988 | 16,065,626 | 641,527 | 12,921,690 | 701,212 | 349,212 | 41,964,312 |
| 600230 Knit or crochet fabric, width > 30 cm, >5% elastomer | 5,569,578 | 0.94 | 381,347 | 11,025,999 | 1,928,949 | 199,348 | 833,494 | 166,304 | 56,716 | 1,694,882 | 16,287,039 |
| 090420 Capsicum or Pimenta, dried, crushed or ground | 5,413,052 | 0.21 | 96,498 | 431,351,629 | 6,825,555 | 898,366 | 21,765 | 2,571 | 93,077 | 15,410 | 439,304,870 |
| 071190 Vegetables nes and mixtures provisionally preserved | 5,003,335 | - | 15,681 | 6,704,141 | 23,484 | 712,008 | 2,366 | 58,699 | 353 | 247,886 | 7,764,616 |
| SUB-TOTAL | 158,247,659 | | 40,981,051 | 1,781,946,781 | 84,073,358 | 250,081,985 | 39,337,469 | 95,459,638 | 177,609,729 | 15,318,838 | 2,484,808,847 |

Table A.20: Afghanistan's Total Bilateral Trade (Exports plus Imports) in Central and South Asia, by HS Section (U.S. dollars)

| HS Section | | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan | Trade with Central and South Asia |
|--------------|------------------------|-------------|----------------------|------------------------|----------------------|---------------------|---------------------|----------------------|----------------------|-----------------------------------|
| 1+2 | Animal and vegetable | | 74,749,400.9 | 327,422,844.6 | 45,738,802.7 | 81,090.0 | 5,682,546.5 | 238,529.5 | 7,691,252.5 | 461,604,466.7 |
| 3.0 | Fats and oils | | 25,424.0 | 160,500,280.3 | 809,337.5 | 1.0 | 1.0 | 1.0 | 1.0 | 161,335,045.8 |
| 4.0 | Prepared foods | | 8,153,361.5 | 144,357,054.0 | 3,069,702.2 | 118,380.5 | 1,557,303.0 | 890,134.5 | 751,936.5 | 158,897,872.2 |
| 5.0 | Mineral products | | 944,174.5 | 311,472,142.9 | 51,050,022.9 | 13,776,010.0 | 4,679,651.5 | 223,675,465.5 | 679,632,038.0 | 1,285,229,505.3 |
| 6.0 | Chemical products | | 45,860,174.6 | 66,036,880.5 | 1,418,838.8 | 164,402.3 | 46,275.0 | 64,831.0 | 108,977.0 | 113,700,379.3 |
| 7.0 | Plastics and rubber | | 15,567,979.1 | 57,557,507.1 | 3,278,917.6 | 38,033.0 | 123,453.5 | 2,592.0 | 16,545.5 | 76,585,027.8 |
| 8.0 | Leather & its products | | 625,244.0 | 3,522,783.1 | 1,997.5 | 316,304.3 | 1.0 | 1.0 | 1.0 | 4,466,331.9 |
| 9.0 | Wood & its products | | 184,029.9 | 36,607,682.8 | 691,115.3 | 37,681.5 | 1.0 | 1.0 | 1.0 | 37,520,512.5 |
| 10.0 | Pulp and paper | | 1,794,232.8 | 4,905,936.3 | 1,834,923.5 | 12,718.0 | 3,945.0 | 1.0 | 1.0 | 8,551,757.6 |
| 11.0 | Textiles | | 119,476,623.3 | 20,097,800.3 | 63,628.5 | 861,198.0 | 1,447,125.5 | 97,728.0 | 1.0 | 142,044,104.5 |
| 12.0 | Footwear | | 1,127,393.2 | 2,253,347.3 | 17.0 | 45.0 | 2,299,771.0 | 196.0 | 476,916.0 | 6,157,685.5 |
| 13.0 | Cement & similar prod. | | 1,468,743.6 | 9,445,468.2 | 128,141.5 | 120,109.0 | 559,524.0 | 1.0 | 1.0 | 11,721,988.3 |
| 14.0 | Semi-precious stones | | 29,794,472.3 | 246,023.0 | 148.0 | 1.0 | 1.0 | 1.0 | 1.0 | 30,040,647.3 |
| 15.0 | Base metals | | 14,722,960.8 | 198,960,482.0 | 8,410,120.1 | 501,513.0 | 2,123,811.5 | 3,772.0 | 1,928,941.0 | 226,651,600.3 |
| 16.0 | Machinery & equip. | | 33,572,157.1 | 31,959,536.9 | 2,728,930.6 | 546,157.7 | 70,617.5 | 28,838.0 | 199,614.0 | 69,105,851.8 |
| 17.0 | Transport equipment | | 6,865,074.9 | 2,798,080.2 | 2,297,785.3 | 1,338,600.0 | 1,660.0 | 1.0 | 1.0 | 13,301,202.4 |
| 18.0 | Measuring instruments | | 2,821,202.2 | 256,403.8 | 259,721.9 | 87,380.5 | 318,122.0 | 2,111.0 | 381,020.5 | 4,125,961.9 |
| 19.0 | Arms & ammunition | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 7.0 |
| 20.0 | Misc manufactures | | 816,427.4 | 5,323,582.7 | 50,377.8 | 331,044.5 | 1.0 | 1.0 | 1.0 | 6,521,435.4 |
| 21.0 | Work of Art | | 37,169.7 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 37,175.7 |
| TOTAL | | | 358,606,246.6 | 1,383,723,837.8 | 121,832,530.8 | 18,330,671.3 | 18,913,813.0 | 225,004,207.5 | 691,187,252.0 | 2,817,598,559.0 |

Table A.21: India's Total Bilateral Trade (Exports plus Imports) in Central and South Asia, by HS Section (U.S. dollars)

| HS Section | | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan | Trade with Central and South Asia |
|--------------|------------------------|--------------------|-------|----------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-----------------------------------|
| 1+2 | Animal and vegetable | 74,749,401 | | 207,119,531 | 45,927,539 | 2,170,417 | 7,576,509 | 4,469,100 | 9,765,809 | 351,778,305 |
| 3 | Fats and oils | 25,424 | | 2,940,648 | 214,515 | 11,444 | 1 | 1 | 1 | 3,192,034 |
| 4 | Prepared foods | 8,153,362 | | 226,946,815 | 2,198,415 | 1,579,983 | 271,328 | 171,957 | 269,755 | 239,591,614 |
| 5 | Mineral products | 944,175 | | 48,844,919 | 41,703,205 | 96,868 | 220,203 | 94,387 | 1,347,122 | 93,250,879 |
| 6 | Chemical products | 45,860,175 | | 331,196,753 | 30,216,637 | 14,203,330 | 9,846,844 | 3,339,547 | 27,598,039 | 462,261,325 |
| 7 | Plastics and rubber | 15,567,979 | | 43,100,855 | 5,527,526 | 194,380 | 30,902 | 1,235,562 | 2,946,307 | 68,603,511 |
| 8 | Leather & its products | 625,244 | | 12,735,651 | 1,851,513 | 319,182 | 288,770 | 15,875 | 586,052 | 16,422,286 |
| 9 | Wood & its products | 184,030 | | 293,936 | 259,442 | 11,752 | 9,848 | 154,896 | 64,896 | 978,799 |
| 10 | Pulp and paper | 1,794,233 | | 3,180,361 | 633,196 | 45,444 | 89,549 | 74,325 | 231,528 | 6,048,635 |
| 11 | Textiles | 119,476,623 | | 325,269,130 | 14,315,005 | 2,114,897 | 8,425,404 | 2,136,917 | 7,095,236 | 478,833,211 |
| 12 | Footwear | 1,127,393 | | 336,389 | 2,034,035 | 34,170 | 30,067 | 58,522 | 399,034 | 4,019,610 |
| 13 | Cement & similar prod. | 1,468,744 | | 6,422,826 | 6,217,641 | 165,884 | 393,289 | 1,409,179 | 423,176 | 16,500,739 |
| 14 | Semi-precious stones | 29,794,472 | | 42,488,654 | 5,446,400 | 307,781 | 389 | 1 | 1 | 78,037,698 |
| 15 | Base metals | 14,722,961 | | 76,849,283 | 44,740,104 | 700,441 | 434,778 | 2,894,971 | 4,032,413 | 144,374,951 |
| 16 | Machinery & equip. | 33,572,157 | | 32,712,043 | 28,664,585 | 4,888,953 | 2,996,265 | 10,216,047 | 13,000,240 | 126,050,290 |
| 17 | Transport equipment | 6,865,075 | | 18,101,523 | 2,461,206 | 281,757 | 166,710 | 81,049 | 17,587,099 | 45,544,419 |
| 18 | Measuring instruments | 2,821,202 | | 3,254,237 | 2,709,576 | 209,207 | 229,163 | 460,720 | 4,202,223 | 13,886,328 |
| 19 | Arms & ammunition | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 7 |
| 20 | Misc manufactures | 816,427 | | 3,612,959 | 1,675,367 | 162,985 | 36,081 | 211,095 | 410,898 | 6,925,812 |
| 21 | Work of Art | 37,170 | | 19,133 | 9,195 | 1 | 1 | 1 | 1 | 65,501 |
| TOTAL | | 358,606,247 | | 1,385,425,646 | 236,805,102 | 27,498,876 | 31,046,101 | 27,024,151 | 89,959,828 | 2,156,365,951 |

Table A.22: Pakistan's Total Bilateral Trade (Exports plus Imports) in Central and South Asia, by HS Section (U.S. dollars)

| HS Section | | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan | Trade with Central and South Asia |
|--------------|------------------------|----------------------|----------------------|----------|-------------------|------------------|------------------|------------------|-------------------|-----------------------------------|
| 1+2 | Animal and vegetable | 327,422,845 | 207,119,531 | | 5,697,346 | 283,128 | 902,476 | 423,336 | 430,468 | 542,279,130 |
| 3 | Fats and oils | 160,500,280 | 2,940,648 | | 151 | 14,002 | 1 | 1 | 1 | 163,455,084 |
| 4 | Prepared foods | 144,357,054 | 226,946,815 | | 291,852 | 91,233 | 887,627 | 15,972 | 19,709 | 372,610,261 |
| 5 | Mineral products | 311,472,143 | 48,844,919 | | 289 | 69,219 | 811,683 | 37,981 | 400,751 | 361,636,984 |
| 6 | Chemical products | 66,036,881 | 331,196,753 | | 5,608,778 | 1,912,099 | 594,964 | 1,098,700 | 1,951,253 | 408,399,426 |
| 7 | Plastics and rubber | 57,557,507 | 43,100,855 | | 33,372 | 14,093 | 18,787 | 5,586 | 169,292 | 100,899,492 |
| 8 | Leather & its products | 3,522,783 | 12,735,651 | | 118,309 | 29,905 | 1,716 | 104,134 | 107,150 | 16,619,646 |
| 9 | Wood & its products | 36,607,683 | 293,936 | | 3,338 | 9,144 | 1 | 953 | 277 | 36,915,332 |
| 10 | Pulp and paper | 4,905,936 | 3,180,361 | | 13,167 | 25,661 | 6,381 | 7,410 | 63,354 | 8,202,269 |
| 11 | Textiles | 20,097,800 | 325,269,130 | | 1,270,437 | 244,505 | 661,212 | 3,772,062 | 7,175,713 | 358,490,861 |
| 12 | Footwear | 2,253,347 | 336,389 | | 181,643 | 9,467 | 23,264 | 559 | 10,794 | 2,815,462 |
| 13 | Cement & similar prod. | 9,445,468 | 6,422,826 | | 42,379 | 82,206 | 1 | 10,763 | 1 | 16,003,644 |
| 14 | Semi-precious stones | 246,023 | 42,488,654 | | 1,801 | 111 | 1 | 1 | 1 | 42,736,592 |
| 15 | Base metals | 198,960,482 | 76,849,283 | | 10,258,414 | 39,031 | 93,160 | 19,762 | 840,284 | 287,060,415 |
| 16 | Machinery & equip. | 31,959,537 | 32,712,043 | | 474,404 | 176,154 | 58,973 | 142,903 | 168,420 | 65,692,433 |
| 17 | Transport equipment | 2,798,080 | 18,101,523 | | 20,171 | 24,203 | 948 | 15,495 | 1 | 20,960,422 |
| 18 | Measuring instruments | 256,404 | 3,254,237 | | 381,065 | 8,488 | 9,235 | 1,444 | 288,378 | 4,199,251 |
| 19 | Arms & ammunition | 1 | 1 | | 1 | 1 | 1,588 | 1 | 1 | 1,594 |
| 20 | Misc manufactures | 5,323,583 | 3,612,959 | | 148,792 | 68,033 | 9,778 | 120,789 | 22,473 | 9,306,406 |
| 21 | Work of Art | 1 | 19,133 | | 12 | 1 | 1 | 1 | 1 | 19,149 |
| TOTAL | | 1,383,723,838 | 1,385,425,646 | | 24,545,719 | 3,100,683 | 4,081,795 | 5,777,851 | 11,648,320 | 2,818,303,852 |

Table A.23: Kazakhstan's Total Bilateral Trade (Exports plus Imports) in Central and South Asia, by HS Section (U.S. dollars)

| HS Section | | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan | Trade with Central and South Asia |
|--------------|------------------------|--------------------|--------------------|-------------------|------------|--------------------|--------------------|--------------------|--------------------|-----------------------------------|
| 1+2 | Animal and vegetable | 45,738,803 | 45,927,539 | 5,697,346 | | 45,296,750 | 140,260,187 | 13,178,500 | 212,983,626 | 509,082,750 |
| 3 | Fats and oils | 809,338 | 214,515 | 151 | | 12,353,603 | 2,787,465 | 52,262 | 12,781,943 | 28,999,276 |
| 4 | Prepared foods | 3,069,702 | 2,198,415 | 291,852 | | 22,513,581 | 13,680,418 | 21,258,679 | 34,187,462 | 97,200,109 |
| 5 | Mineral products | 51,050,023 | 41,703,205 | 289 | | 84,859,190 | 28,391,672 | 167,770,450 | 156,124,910 | 529,899,739 |
| 6 | Chemical products | 1,418,839 | 30,216,637 | 5,608,778 | | 24,135,840 | 9,708,698 | 2,883,437 | 21,583,603 | 95,555,832 |
| 7 | Plastics and rubber | 3,278,918 | 5,527,526 | 33,372 | | 8,419,054 | 1,150,396 | 2,795,755 | 8,715,105 | 29,920,125 |
| 8 | Leather & its products | 1,998 | 1,851,513 | 118,309 | | 2,348,533 | 8,047 | 9,668 | 256,051 | 4,594,117 |
| 9 | Wood & its products | 691,115 | 259,442 | 3,338 | | 525,710 | 19,019 | 154,334 | 1,015,371 | 2,668,329 |
| 10 | Pulp and paper | 1,834,924 | 633,196 | 13,167 | | 8,529,433 | 8,259,048 | 65,966 | 3,349,656 | 22,685,390 |
| 11 | Textiles | 63,629 | 14,315,005 | 1,270,437 | | 29,107,212 | 5,121,959 | 606,333 | 15,689,214 | 66,173,789 |
| 12 | Footwear | 17 | 2,034,035 | 181,643 | | 1,066,563 | 95,643 | 46,407 | 1,381,589 | 4,805,896 |
| 13 | Cement & similar prod. | 128,142 | 6,217,641 | 42,379 | | 18,659,551 | 5,972,997 | 537,818 | 12,146,342 | 43,704,869 |
| 14 | Semi-precious stones | 148 | 5,446,400 | 1,801 | | 2,389,400 | 56 | 3,545 | 1 | 7,841,350 |
| 15 | Base metals | 8,410,120 | 44,740,104 | 10,258,414 | | 28,821,070 | 5,986,599 | 11,642,154 | 97,210,806 | 207,069,267 |
| 16 | Machinery & equip. | 2,728,931 | 28,664,585 | 474,404 | | 15,683,276 | 6,293,043 | 16,701,094 | 23,466,520 | 94,011,853 |
| 17 | Transport equipment | 2,297,785 | 2,461,206 | 20,171 | | 3,393,183 | 565,003 | 22,307,325 | 63,499,047 | 94,543,720 |
| 18 | Measuring instruments | 259,722 | 2,709,576 | 381,065 | | 325,633 | 1,337,193 | 3,172,943 | 1,086,762 | 9,272,894 |
| 19 | Arms & ammunition | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 7 |
| 20 | Misc manufactures | 50,378 | 1,675,367 | 148,792 | | 914,140 | 92,097 | 1,968,161 | 4,458,701 | 9,307,636 |
| 21 | Work of Art | 1 | 9,195 | 12 | | 2,712 | 1 | 1 | 14,796 | 26,717 |
| TOTAL | | 121,832,531 | 236,805,102 | 24,545,719 | | 309,344,435 | 229,729,541 | 265,154,832 | 669,951,505 | 1,857,363,665 |

Table A.24: Kyrgyzstan's Total Bilateral Trade (Exports plus Imports) in Central and South Asia, by HS Section (U.S. dollars)

| | HS Section | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan | Trade with Central and South Asia |
|-----|------------------------|-------------------|-------------------|------------------|--------------------|------------|-------------------|------------------|--------------------|-----------------------------------|
| 1+2 | Animal and vegetable | 81,090 | 2,170,417 | 283,128 | 45,296,750 | | 2,741,729 | 1,320,542 | 5,840,185 | 57,733,840 |
| 3 | Fats and oils | 1 | 11,444 | 14,002 | 12,353,603 | | 23,748 | 791,870 | 527 | 13,195,193 |
| 4 | Prepared foods | 118,381 | 1,579,983 | 91,233 | 22,513,581 | | 5,651,870 | 887,304 | 2,695,351 | 33,537,702 |
| 5 | Mineral products | 13,776,010 | 96,868 | 69,219 | 84,859,190 | | 22,321,001 | 54,279 | 21,813,979 | 142,990,545 |
| 6 | Chemical products | 164,402 | 14,203,330 | 1,912,099 | 24,135,840 | | 508,904 | 200,212 | 11,995,511 | 53,120,298 |
| 7 | Plastics and rubber | 38,033 | 194,380 | 14,093 | 8,419,054 | | 1,771,559 | 1,569,370 | 14,209,828 | 26,216,316 |
| 8 | Leather & its products | 316,304 | 319,182 | 29,905 | 2,348,533 | | 95,555 | 11,558 | 47,844 | 3,168,881 |
| 9 | Wood & its products | 37,682 | 11,752 | 9,144 | 525,710 | | 15,329 | 2,820 | 242,889 | 845,325 |
| 10 | Pulp and paper | 12,718 | 45,444 | 25,661 | 8,529,433 | | 515,243 | 1,495 | 215,049 | 9,345,044 |
| 11 | Textiles | 861,198 | 2,114,897 | 244,505 | 29,107,212 | | 1,317,408 | 62,201 | 3,326,729 | 37,034,151 |
| 12 | Footwear | 45 | 34,170 | 9,467 | 1,066,563 | | 101,611 | 34 | 249,037 | 1,460,926 |
| 13 | Cement & similar prod. | 120,109 | 165,884 | 82,206 | 18,659,551 | | 362,949 | 1 | 3,042,224 | 22,432,925 |
| 14 | Semi-precious stones | 1 | 307,781 | 111 | 2,389,400 | | 1 | 1 | 1 | 2,697,296 |
| 15 | Base metals | 501,513 | 700,441 | 39,031 | 28,821,070 | | 752,899 | 360,266 | 19,620,087 | 50,795,308 |
| 16 | Machinery & equip. | 546,158 | 4,888,953 | 176,154 | 15,683,276 | | 2,402,506 | 2,676,880 | 12,510,751 | 38,884,678 |
| 17 | Transport equipment | 1,338,600 | 281,757 | 24,203 | 3,393,183 | | 1,809,866 | 648,374 | 37,333,052 | 44,829,035 |
| 18 | Measuring instruments | 87,381 | 209,207 | 8,488 | 325,633 | | 124,189 | 74 | 240,465 | 995,437 |
| 19 | Arms & ammunition | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 7 |
| 20 | Misc manufactures | 331,045 | 162,985 | 68,033 | 914,140 | | 119,991 | 365 | 855,285 | 2,451,843 |
| 21 | Work of Art | 1 | 1 | 1 | 2,712 | | 1 | 1 | 1 | 2,718 |
| | TOTAL | 18,330,671 | 27,498,876 | 3,100,683 | 309,344,435 | | 40,636,360 | 8,587,646 | 134,238,796 | 541,737,467 |

Table A.25: Tajikistan's Total Bilateral Trade (Exports plus Imports) in Central and South Asia, by HS Section (U.S. dollars)

| | HS Section | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan | Trade with Central and South Asia |
|-----|------------------------|-------------------|-------------------|------------------|--------------------|-------------------|------------|--------------|------------|-----------------------------------|
| 1+2 | Animal and vegetable | 5,682,547 | 7,576,509 | 902,476 | 140,260,187 | 2,741,729 | | - | - | 157,163,447 |
| 3 | Fats and oils | 1 | 1 | 1 | 2,787,465 | 23,748 | | - | - | 2,811,215 |
| 4 | Prepared foods | 1,557,303 | 271,328 | 887,627 | 13,680,418 | 5,651,870 | | - | - | 22,048,545 |
| 5 | Mineral products | 4,679,652 | 220,203 | 811,683 | 28,391,672 | 22,321,001 | | - | - | 56,424,210 |
| 6 | Chemical products | 46,275 | 9,846,844 | 594,964 | 9,708,698 | 508,904 | | - | - | 20,705,684 |
| 7 | Plastics and rubber | 123,454 | 30,902 | 18,787 | 1,150,396 | 1,771,559 | | - | - | 3,095,097 |
| 8 | Leather & its products | 1 | 288,770 | 1,716 | 8,047 | 95,555 | | - | - | 394,088 |
| 9 | Wood & its products | 1 | 9,848 | 1 | 19,019 | 15,329 | | - | - | 44,198 |
| 10 | Pulp and paper | 3,945 | 89,549 | 6,381 | 8,259,048 | 515,243 | | - | - | 8,874,166 |
| 11 | Textiles | 1,447,126 | 8,425,404 | 661,212 | 5,121,959 | 1,317,408 | | - | - | 16,973,109 |
| 12 | Footwear | 2,299,771 | 30,067 | 23,264 | 95,643 | 101,611 | | - | - | 2,550,356 |
| 13 | Cement & similar prod. | 559,524 | 393,289 | 1 | 5,972,997 | 362,949 | | - | - | 7,288,760 |
| 14 | Semi-precious stones | 1 | 389 | 1 | 56 | 1 | | - | - | 448 |
| 15 | Base metals | 2,123,812 | 434,778 | 93,160 | 5,986,599 | 752,899 | | - | - | 9,391,248 |
| 16 | Machinery & equip. | 70,618 | 2,996,265 | 58,973 | 6,293,043 | 2,402,506 | | - | - | 11,821,404 |
| 17 | Transport equipment | 1,660 | 166,710 | 948 | 565,003 | 1,809,866 | | - | - | 2,544,187 |
| 18 | Measuring instruments | 318,122 | 229,163 | 9,235 | 1,337,193 | 124,189 | | - | - | 2,017,902 |
| 19 | Arms & ammunition | 1 | 1 | 1,588 | 1 | 1 | | - | - | 1,592 |
| 20 | Misc manufactures | 1 | 36,081 | 9,778 | 92,097 | 119,991 | | - | - | 257,948 |
| 21 | Work of Art | 1 | 1 | 1 | 1 | 1 | | - | - | 5 |
| | TOTAL | 18,913,813 | 31,046,101 | 4,081,795 | 229,729,541 | 40,636,360 | | - | - | 324,407,610 |

Table A.26: Turkmenistan's Total Bilateral Trade (Exports plus Imports) in Central and South Asia, by HS Section (U.S. dollars)

| HS Section | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan | Trade with Central and South Asia |
|---------------------------|--------------------|-------------------|------------------|--------------------|------------------|------------|--------------|------------|-----------------------------------|
| 1+2 Animal and vegetable | 238,530 | 4,469,100 | 423,336 | 13,178,500 | 1,320,542 | - | | - | 19,630,006 |
| 3 Fats and oils | 1 | 1 | 1 | 52,262 | 791,870 | - | | - | 844,135 |
| 4 Prepared foods | 890,135 | 171,957 | 15,972 | 21,258,679 | 887,304 | - | | - | 23,224,045 |
| 5 Mineral products | 223,675,466 | 94,387 | 37,981 | 167,770,450 | 54,279 | - | | - | 391,632,563 |
| 6 Chemical products | 64,831 | 3,339,547 | 1,098,700 | 2,883,437 | 200,212 | - | | - | 7,586,727 |
| 7 Plastics and rubber | 2,592 | 1,235,562 | 5,586 | 2,795,755 | 1,569,370 | - | | - | 5,608,864 |
| 8 Leather & its products | 1 | 15,875 | 104,134 | 9,668 | 11,558 | - | | - | 141,235 |
| 9 Wood & its products | 1 | 154,896 | 953 | 154,334 | 2,820 | - | | - | 313,003 |
| 10 Pulp and paper | 1 | 74,325 | 7,410 | 65,966 | 1,495 | - | | - | 149,197 |
| 11 Textiles | 97,728 | 2,136,917 | 3,772,062 | 606,333 | 62,201 | - | | - | 6,675,241 |
| 12 Footwear | 196 | 58,522 | 559 | 46,407 | 34 | - | | - | 105,718 |
| 13 Cement & similar prod. | 1 | 1,409,179 | 10,763 | 537,818 | 1 | - | | - | 1,957,762 |
| 14 Semi-precious stones | 1 | 1 | 1 | 3,545 | 1 | - | | - | 3,549 |
| 15 Base metals | 3,772 | 2,894,971 | 19,762 | 11,642,154 | 360,266 | - | | - | 14,920,926 |
| 16 Machinery & equip. | 28,838 | 10,216,047 | 142,903 | 16,701,094 | 2,676,880 | - | | - | 29,765,762 |
| 17 Transport equipment | 1 | 81,049 | 15,495 | 22,307,325 | 648,374 | - | | - | 23,052,243 |
| 18 Measuring instruments | 2,111 | 460,720 | 1,444 | 3,172,943 | 74 | - | | - | 3,637,292 |
| 19 Arms & ammunition | 1 | 1 | 1 | 1 | 1 | - | | - | 5 |
| 20 Misc manufactures | 1 | 211,095 | 120,789 | 1,968,161 | 365 | - | | - | 2,300,410 |
| 21 Work of Art | 1 | 1 | 1 | 1 | 1 | - | | - | 5 |
| TOTAL | 225,004,208 | 27,024,151 | 5,777,851 | 265,154,832 | 8,587,646 | | | | 531,548,688 |

Table A.27: Uzbekistan's Total Bilateral Trade (Exports plus Imports) in Central and South Asia, by HS Section (U.S. dollars)

| HS Section | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan | Trade with Central and South Asia |
|---------------------------|--------------------|-------------------|-------------------|--------------------|--------------------|------------|--------------|------------|-----------------------------------|
| 1+2 Animal and vegetable | 7,691,253 | 9,765,809 | 430,468 | 212,983,626 | 5,840,185 | - | - | | 236,711,341 |
| 3 Fats and oils | 1 | 1 | 1 | 12,781,943 | 527 | - | - | | 12,782,474 |
| 4 Prepared foods | 751,937 | 269,755 | 19,709 | 34,187,462 | 2,695,351 | - | - | | 37,924,213 |
| 5 Mineral products | 679,632,038 | 1,347,122 | 400,751 | 156,124,910 | 21,813,979 | - | - | | 859,318,799 |
| 6 Chemical products | 108,977 | 27,598,039 | 1,951,253 | 21,583,603 | 11,995,511 | - | - | | 63,237,382 |
| 7 Plastics and rubber | 16,546 | 2,946,307 | 169,292 | 8,715,105 | 14,209,828 | - | - | | 26,057,078 |
| 8 Leather & its products | 1 | 586,052 | 107,150 | 256,051 | 47,844 | - | - | | 997,097 |
| 9 Wood & its products | 1 | 64,896 | 277 | 1,015,371 | 242,889 | - | - | | 1,323,434 |
| 10 Pulp and paper | 1 | 231,528 | 63,354 | 3,349,656 | 215,049 | - | - | | 3,859,588 |
| 11 Textiles | 1 | 7,095,236 | 7,175,713 | 15,689,214 | 3,326,729 | - | - | | 33,286,893 |
| 12 Footwear | 476,916 | 399,034 | 10,794 | 1,381,589 | 249,037 | - | - | | 2,517,368 |
| 13 Cement & similar prod. | 1 | 423,176 | 1 | 12,146,342 | 3,042,224 | - | - | | 15,611,744 |
| 14 Semi-precious stones | 1 | 1 | 1 | 1 | 1 | - | - | | 5 |
| 15 Base metals | 1,928,941 | 4,032,413 | 840,284 | 97,210,806 | 19,620,087 | - | - | | 123,632,531 |
| 16 Machinery & equip. | 199,614 | 13,000,240 | 168,420 | 23,466,520 | 12,510,751 | - | - | | 49,345,545 |
| 17 Transport equipment | 1 | 17,587,099 | 1 | 63,499,047 | 37,333,052 | - | - | | 118,419,200 |
| 18 Measuring instruments | 381,021 | 4,202,223 | 288,378 | 1,086,762 | 240,465 | - | - | | 6,198,849 |
| 19 Arms & ammunition | 1 | 1 | 1 | 1 | 1 | - | - | | 5 |
| 20 Misc manufactures | 1 | 410,898 | 22,473 | 4,458,701 | 855,285 | - | - | | 5,747,357 |
| 21 Work of Art | 1 | 1 | 1 | 14,796 | 1 | - | - | | 14,800 |
| TOTAL | 691,187,252 | 89,959,828 | 11,648,320 | 669,951,505 | 134,238,796 | | | | 1,596,985,702 |

Table A.28: Afghanistan Intra-Industry Trade Indices for Bilateral Trade in Central and South Asia

| | HS Section | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan |
|-----|-------------------------------|-------------|------------|------------|------------|------------|------------|--------------|------------|
| 1+2 | Animal and vegetable | | 0.2 | 2.9 | 0.1 | 0.1 | - | - | - |
| 3 | Fats and oils | | - | 0.1 | 11.5 | - | - | - | - |
| 4 | Prepared foods | | 0.8 | 0.1 | - | - | - | - | - |
| 5 | Mineral products | | 3.7 | 0.1 | 0.3 | 0.0 | - | - | - |
| 6 | Chemical products | | 0.1 | 0.3 | - | - | - | - | - |
| 7 | Plastics and rubber | | 0.6 | 0.1 | 0.0 | 6.8 | - | - | - |
| 8 | Leather & its products | | 2.3 | 0.1 | - | 13.2 | - | - | - |
| 9 | Wood & its products | | 0.7 | 0.2 | - | - | - | - | - |
| 10 | Pulp and paper | | 0.6 | 0.1 | 0.0 | - | - | - | - |
| 11 | Textiles | | 0.1 | 1.5 | 9.6 | 13.1 | - | - | - |
| 12 | Footwear | | 0.0 | - | - | - | - | - | - |
| 13 | Cement & similar prod. | | 0.1 | 0.4 | 0.1 | 0.0 | - | - | - |
| 14 | Semi-precious stones | | - | - | - | - | - | - | - |
| 15 | Base metals | | 0.2 | 0.0 | 0.3 | 5.3 | - | - | - |
| 16 | Machinery & equip. | | 3.4 | 1.9 | 0.9 | 2.5 | - | - | - |
| 17 | Transport equipment | | 0.8 | 6.3 | 0.7 | 6.5 | - | - | - |
| 18 | Measuring instruments | | 2.3 | 0.1 | 14.0 | 0.2 | - | - | - |
| 19 | Arms & ammunition | | - | - | - | - | - | - | - |
| 20 | Misc manufactures | | 1.6 | 0.5 | 1.8 | 4.6 | - | - | - |
| 21 | Work of Art | | 2.8 | - | - | - | - | - | - |
| | TRADE-WEIGHTED AVERAGE | | 0.5 | 0.8 | 0.3 | 1.6 | - | - | - |

Note: Based on 2010-2013 average trade values.

Table A.29: India Intra-Industry Trade Indices for Bilateral Trade in Central and South Asia

| | HS Section | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan |
|-----|-------------------------------|-------------|-------|------------|------------|------------|------------|--------------|------------|
| 1+2 | Animal and vegetable | 0.2 | | 4.1 | 0.3 | - | - | - | 0.0 |
| 3 | Fats and oils | - | | 0.0 | - | - | - | - | - |
| 4 | Prepared foods | 0.8 | | 1.3 | 0.0 | - | - | - | 0.3 |
| 5 | Mineral products | 3.7 | | 1.8 | 1.1 | - | - | 26.3 | 9.0 |
| 6 | Chemical products | 0.1 | | 1.0 | 1.1 | 0.0 | 0.0 | 0.2 | 0.6 |
| 7 | Plastics and rubber | 0.6 | | 7.9 | 2.2 | 1.4 | 3.5 | 0.0 | 5.0 |
| 8 | Leather & its products | 2.3 | | 2.1 | - | 0.6 | 0.0 | - | 0.3 |
| 9 | Wood & its products | 0.7 | | 7.7 | 0.3 | - | - | - | 1.5 |
| 10 | Pulp and paper | 0.6 | | 6.1 | 1.1 | 0.2 | 8.4 | - | 0.2 |
| 11 | Textiles | 0.1 | | 5.8 | 0.2 | - | - | - | 0.0 |
| 12 | Footwear | 0.0 | | 4.7 | 1.4 | 45.1 | 0.5 | - | - |
| 13 | Cement & similar prod. | 0.1 | | 3.9 | 0.1 | - | - | - | 0.1 |
| 14 | Semi-precious stones | - | | 1.3 | 0.0 | - | - | - | - |
| 15 | Base metals | 0.2 | | 3.4 | 0.4 | - | 0.1 | - | 0.2 |
| 16 | Machinery & equip. | 3.4 | | 6.6 | 1.5 | 0.7 | 1.1 | 0.2 | 9.3 |
| 17 | Transport equipment | 0.8 | | 0.4 | 0.2 | 0.2 | - | - | 0.1 |
| 18 | Measuring instruments | 2.3 | | 33.7 | 12.9 | - | - | - | 0.7 |
| 19 | Arms & ammunition | - | | - | - | - | - | - | - |
| 20 | Misc manufactures | 1.6 | | 8.3 | 1.0 | 3.3 | - | - | 0.0 |
| 21 | Work of Art | 2.8 | | 44.6 | - | - | - | - | - |
| | TRADE-WEIGHTED AVERAGE | 0.5 | | 3.3 | 0.9 | 0.2 | 0.1 | 0.2 | 1.9 |

Note: Based on 2010-2013 average trade values.

Table A.30: Pakistan Intra-Industry Trade Indices for Bilateral Trade in Central and South Asia

| HS Section | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan |
|-------------------------------|-------------|------------|----------|------------|------------|------------|--------------|------------|
| 1+2 Animal and vegetable | 2.9 | 4.1 | - | - | 0.1 | - | - | 0.2 |
| 3 Fats and oils | 0.1 | 0.0 | - | - | - | - | - | - |
| 4 Prepared foods | 0.1 | 1.3 | - | - | 4.6 | - | - | - |
| 5 Mineral products | 0.1 | 1.8 | - | - | - | - | - | - |
| 6 Chemical products | 0.3 | 1.0 | - | 0.0 | - | - | - | - |
| 7 Plastics and rubber | 0.1 | 7.9 | - | 1.3 | 4.9 | - | - | - |
| 8 Leather & its products | 0.1 | 2.1 | - | 0.1 | - | 2.2 | - | - |
| 9 Wood & its products | 0.2 | 7.7 | - | 3.5 | - | - | - | - |
| 10 Pulp and paper | 0.1 | 6.1 | - | 7.5 | - | - | - | - |
| 11 Textiles | 1.5 | 5.8 | - | 0.3 | 0.0 | - | - | - |
| 12 Footwear | - | 4.7 | - | 0.0 | - | - | - | - |
| 13 Cement & similar prod. | 0.4 | 3.9 | - | 2.5 | - | - | - | - |
| 14 Semi-precious stones | - | 1.3 | - | - | - | - | - | - |
| 15 Base metals | 0.0 | 3.4 | - | 0.0 | 0.1 | - | - | - |
| 16 Machinery & equip. | 1.9 | 6.6 | - | 0.1 | - | - | - | - |
| 17 Transport equipment | 6.3 | 0.4 | - | 1.0 | - | - | 3.8 | - |
| 18 Measuring instruments | 0.1 | 33.7 | - | 0.0 | - | - | - | - |
| 19 Arms & ammunition | - | - | - | - | - | - | - | - |
| 20 Misc manufactures | 0.5 | 8.3 | - | 2.7 | - | - | - | - |
| 21 Work of Art | - | 44.6 | - | - | - | - | - | - |
| TRADE-WEIGHTED AVERAGE | 0.8 | 3.3 | | 0.1 | 0.2 | 0.0 | 0.0 | - |

Note: Based on 2010-2013 average trade values.

Table A.31: Kazakhstan Intra-Industry Trade Indices for Bilateral Trade in Central and South Asia

| HS Section | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan |
|-------------------------------|-------------|------------|------------|------------|------------|------------|--------------|------------|
| 1+2 Animal and vegetable | 0.1 | 0.3 | - | - | 1.8 | 0.3 | 1.4 | 0.4 |
| 3 Fats and oils | 11.5 | - | - | - | 0.7 | 0.3 | - | 1.2 |
| 4 Prepared foods | - | 0.0 | - | - | 19.3 | 3.2 | 0.1 | 1.9 |
| 5 Mineral products | 0.3 | 1.1 | - | - | 0.4 | 0.0 | 0.0 | 0.6 |
| 6 Chemical products | - | 1.1 | 0.0 | - | 1.7 | 0.7 | 0.1 | 3.3 |
| 7 Plastics and rubber | 0.0 | 2.2 | 1.3 | - | 25.8 | 0.1 | 0.0 | 5.6 |
| 8 Leather & its products | - | - | 0.1 | - | 5.3 | - | 0.1 | 1.1 |
| 9 Wood & its products | - | 0.3 | 3.5 | - | 63.1 | - | 0.0 | 8.2 |
| 10 Pulp and paper | 0.0 | 1.1 | 7.5 | - | 6.0 | 0.7 | 0.7 | 5.9 |
| 11 Textiles | 9.6 | 0.2 | 0.3 | - | 1.4 | 0.4 | 1.6 | 2.3 |
| 12 Footwear | - | 1.4 | 0.0 | - | 8.0 | - | 0.3 | 1.4 |
| 13 Cement & similar prod. | 0.1 | 0.1 | 2.5 | - | 2.6 | 0.0 | 0.1 | 9.0 |
| 14 Semi-precious stones | - | 0.0 | - | - | 1.8 | - | - | - |
| 15 Base metals | 0.3 | 0.4 | 0.0 | - | 1.9 | 0.4 | 0.6 | 1.2 |
| 16 Machinery & equip. | 0.9 | 1.5 | 0.1 | - | 3.5 | 0.5 | 3.5 | 4.2 |
| 17 Transport equipment | 0.7 | 0.2 | 1.0 | - | 8.0 | 17.5 | 20.6 | 2.0 |
| 18 Measuring instruments | 14.0 | 12.9 | 0.0 | - | 19.3 | 49.4 | 18.9 | 62.3 |
| 19 Arms & ammunition | - | - | - | - | - | - | - | - |
| 20 Misc manufactures | 1.8 | 1.0 | 2.7 | - | 22.4 | 0.1 | 8.1 | 3.1 |
| 21 Work of Art | - | - | - | - | - | - | - | - |
| TRADE-WEIGHTED AVERAGE | 0.3 | 0.9 | 0.1 | | 3.8 | 0.8 | 2.4 | 1.5 |

Note: Based on 2010-2013 average trade values.

Table A.32: Kyrgyzstan Intra-Industry Trade Indices for Bilateral Trade in Central and South Asia

| | HS Section | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan |
|-------------------------------|------------------------|-------------|------------|------------|------------|------------|------------|--------------|------------|
| 1+2 | Animal and vegetable | 0.1 | - | 0.1 | 1.8 | | 1.5 | - | 10.0 |
| 3 | Fats and oils | - | - | - | 0.7 | | - | - | - |
| 4 | Prepared foods | - | - | 4.6 | 19.3 | | 2.3 | - | 6.1 |
| 5 | Mineral products | 0.0 | - | - | 0.4 | | 0.1 | 53.6 | 3.1 |
| 6 | Chemical products | - | 0.0 | - | 1.7 | | 9.1 | - | 31.2 |
| 7 | Plastics and rubber | 6.8 | 1.4 | 4.9 | 25.8 | | 0.7 | - | 0.8 |
| 8 | Leather & its products | 13.2 | 0.6 | - | 5.3 | | 0.6 | - | 25.8 |
| 9 | Wood & its products | - | - | - | 63.1 | | 12.2 | - | 9.0 |
| 10 | Pulp and paper | - | 0.2 | - | 6.0 | | 0.1 | - | 16.2 |
| 11 | Textiles | 13.1 | - | 0.0 | 1.4 | | 2.4 | - | 6.0 |
| 12 | Footwear | - | 45.1 | - | 8.0 | | 0.8 | - | 2.9 |
| 13 | Cement & similar prod. | 0.0 | - | - | 2.6 | | 2.5 | - | 5.4 |
| 14 | Semi-precious stones | - | - | - | 1.8 | | - | - | - |
| 15 | Base metals | 5.3 | - | 0.1 | 1.9 | | 1.0 | - | 0.8 |
| 16 | Machinery & equip. | 2.5 | 0.7 | - | 3.5 | | 0.5 | - | 2.4 |
| 17 | Transport equipment | 6.5 | 0.2 | - | 8.0 | | 2.8 | - | 2.7 |
| 18 | Measuring instruments | 0.2 | - | - | 19.3 | | 30.2 | - | - |
| 19 | Arms & ammunition | - | - | - | - | | - | - | - |
| 20 | Misc manufactures | 4.6 | 3.3 | - | 22.4 | | 4.6 | - | 3.7 |
| 21 | Work of Art | - | - | - | - | | - | - | - |
| TRADE-WEIGHTED AVERAGE | | 1.6 | 0.2 | 0.2 | 3.8 | | 1.0 | 0.3 | 5.4 |

Note: Based on 2010-2013 average trade values.

Table A.33: Tajikistan Intra-Industry Trade Indices for Bilateral Trade in Central and South Asia

| | HS Section | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan |
|-------------------------------|------------------------|-------------|------------|------------|------------|------------|------------|--------------|------------|
| 1+2 | Animal and vegetable | - | - | - | 0.3 | 1.5 | | - | - |
| 3 | Fats and oils | - | - | - | 0.3 | - | | - | - |
| 4 | Prepared foods | - | - | - | 3.2 | 2.3 | | - | - |
| 5 | Mineral products | - | - | - | 0.0 | 0.1 | | - | - |
| 6 | Chemical products | - | 0.0 | - | 0.7 | 9.1 | | - | - |
| 7 | Plastics and rubber | - | 3.5 | - | 0.1 | 0.7 | | - | - |
| 8 | Leather & its products | - | 0.0 | 2.2 | - | 0.6 | | - | - |
| 9 | Wood & its products | - | - | - | - | 12.2 | | - | - |
| 10 | Pulp and paper | - | 8.4 | - | 0.7 | 0.1 | | - | - |
| 11 | Textiles | - | - | - | 0.4 | 2.4 | | - | - |
| 12 | Footwear | - | 0.5 | - | - | 0.8 | | - | - |
| 13 | Cement & similar prod. | - | - | - | 0.0 | 2.5 | | - | - |
| 14 | Semi-precious stones | - | - | - | - | - | | - | - |
| 15 | Base metals | - | 0.1 | - | 0.4 | 1.0 | | - | - |
| 16 | Machinery & equip. | - | 1.1 | - | 0.5 | 0.5 | | - | - |
| 17 | Transport equipment | - | - | - | 17.5 | 2.8 | | - | - |
| 18 | Measuring instruments | - | - | - | 49.4 | 30.2 | | - | - |
| 19 | Arms & ammunition | - | - | - | - | - | | - | - |
| 20 | Misc manufactures | - | - | - | 0.1 | 4.6 | | - | - |
| 21 | Work of Art | - | - | - | - | - | | - | - |
| TRADE-WEIGHTED AVERAGE | | - | 0.1 | 0.0 | 0.8 | 1.0 | | - | - |

Note: Based on 2010-2013 average trade values.

Table A.34: Turkmenistan Intra-Industry Trade Indices for Bilateral Trade in Central and South Asia

| HS Section | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan |
|-------------------------------|-------------|------------|------------|------------|------------|------------|--------------|------------|
| 1+2 Animal and vegetable | - | - | - | 1.4 | - | - | - | - |
| 3 Fats and oils | - | - | - | - | - | - | - | - |
| 4 Prepared foods | - | - | - | 0.1 | - | - | - | - |
| 5 Mineral products | - | 26.3 | - | 0.0 | 53.6 | - | - | - |
| 6 Chemical products | - | 0.2 | - | 0.1 | - | - | - | - |
| 7 Plastics and rubber | - | 0.0 | - | 0.0 | - | - | - | - |
| 8 Leather & its products | - | - | - | 0.1 | - | - | - | - |
| 9 Wood & its products | - | - | - | 0.0 | - | - | - | - |
| 10 Pulp and paper | - | - | - | 0.7 | - | - | - | - |
| 11 Textiles | - | - | - | 1.6 | - | - | - | - |
| 12 Footwear | - | - | - | 0.3 | - | - | - | - |
| 13 Cement & similar prod. | - | - | - | 0.1 | - | - | - | - |
| 14 Semi-precious stones | - | - | - | - | - | - | - | - |
| 15 Base metals | - | - | - | 0.6 | - | - | - | - |
| 16 Machinery & equip. | - | 0.2 | - | 3.5 | - | - | - | - |
| 17 Transport equipment | - | - | 3.8 | 20.6 | - | - | - | - |
| 18 Measuring instruments | - | - | - | 18.9 | - | - | - | - |
| 19 Arms & ammunition | - | - | - | - | - | - | - | - |
| 20 Misc manufactures | - | - | - | 8.1 | - | - | - | - |
| 21 Work of Art | - | - | - | - | - | - | - | - |
| TRADE-WEIGHTED AVERAGE | - | 0.2 | 0.0 | 2.4 | 0.3 | - | - | - |

Note: Based on 2010-2013 average trade values.

Table A.35: Uzbekistan Intra-Industry Trade Indices for Bilateral Trade in Central and South Asia

| HS Section | Afghanistan | India | Pakistan | Kazakhstan | Kyrgyzstan | Tajikistan | Turkmenistan | Uzbekistan |
|-------------------------------|-------------|------------|------------|------------|------------|------------|--------------|------------|
| 1+2 Animal and vegetable | - | 0.0 | 0.2 | 0.4 | 10.0 | - | - | - |
| 3 Fats and oils | - | - | - | 1.2 | - | - | - | - |
| 4 Prepared foods | - | 0.3 | - | 1.9 | 6.1 | - | - | - |
| 5 Mineral products | - | 9.0 | - | 0.6 | 3.1 | - | - | - |
| 6 Chemical products | - | 0.6 | - | 3.3 | 31.2 | - | - | - |
| 7 Plastics and rubber | - | 5.0 | - | 5.6 | 0.8 | - | - | - |
| 8 Leather & its products | - | 0.3 | - | 1.1 | 25.8 | - | - | - |
| 9 Wood & its products | - | 1.5 | - | 8.2 | 9.0 | - | - | - |
| 10 Pulp and paper | - | 0.2 | - | 5.9 | 16.2 | - | - | - |
| 11 Textiles | - | 0.0 | - | 2.3 | 6.0 | - | - | - |
| 12 Footwear | - | - | - | 1.4 | 2.9 | - | - | - |
| 13 Cement & similar prod. | - | 0.1 | - | 9.0 | 5.4 | - | - | - |
| 14 Semi-precious stones | - | - | - | - | - | - | - | - |
| 15 Base metals | - | 0.2 | - | 1.2 | 0.8 | - | - | - |
| 16 Machinery & equip. | - | 9.3 | - | 4.2 | 2.4 | - | - | - |
| 17 Transport equipment | - | 0.1 | - | 2.0 | 2.7 | - | - | - |
| 18 Measuring instruments | - | 0.7 | - | 62.3 | - | - | - | - |
| 19 Arms & ammunition | - | - | - | - | - | - | - | - |
| 20 Misc manufactures | - | 0.0 | - | 3.1 | 3.7 | - | - | - |
| 21 Work of Art | - | - | - | - | - | - | - | - |
| TRADE-WEIGHTED AVERAGE | - | 1.9 | 0.0 | 1.5 | 5.4 | - | - | - |

Note: Based on 2010-2013 average trade values.

Table A.36: Real Effective Exchange Rates of Afghanistan, 1995-2013 (Indices, 2010 = 100)

| | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Afghanistan | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| India | 148.5 | 173.3 | 164.9 | 150.8 | 137.1 | 125.5 | 120.9 | 118.7 | 99.8 | 104.0 | 102.2 | 99.3 | 106.8 | 84.7 | 92.2 | 100.0 | 97.4 | 94.5 | 96.5 |
| Pakistan | 228.6 | 259.0 | 230.3 | 204.8 | 176.0 | 155.7 | 135.8 | 140.9 | 116.4 | 121.0 | 118.6 | 118.9 | 117.1 | 93.6 | 100.1 | 100.0 | 100.8 | 103.9 | 103.9 |
| South Asia | 193.0 | 220.7 | 204.1 | 183.3 | 163.6 | 147.9 | 132.9 | 135.8 | 111.8 | 116.1 | 116.0 | 116.1 | 115.4 | 91.8 | 97.8 | 100.0 | 100.1 | 101.8 | 102.2 |
| Kazakhstan | 138.7 | 204.6 | 195.0 | 184.7 | 118.8 | 103.9 | 106.4 | 104.4 | 88.4 | 101.4 | 102.5 | 110.4 | 116.0 | 106.7 | 101.9 | 100.0 | 99.4 | 104.4 | 109.4 |
| Kyrgyz Republic | 198.9 | 259.5 | 215.1 | 181.6 | 120.5 | 107.5 | 110.6 | 112.7 | 96.9 | 100.8 | 100.4 | 101.8 | 111.4 | 109.0 | 108.5 | 100.0 | 106.0 | 108.5 | 113.4 |
| Tajikistan | 434.8 | 297.4 | 374.7 | 255.7 | 189.3 | 166.6 | 160.0 | 152.2 | 121.4 | 129.1 | 121.0 | 121.0 | 128.2 | 110.8 | 105.2 | 100.0 | 94.8 | 99.8 | 104.0 |
| Turkmenistan | 572.1 | 249.0 | 327.3 | 297.1 | 312.7 | 310.5 | 338.1 | 356.2 | 292.0 | 301.8 | 306.7 | 312.0 | 305.8 | 330.2 | 104.6 | 100.0 | 96.1 | 102.9 | 111.0 |
| Uzbekistan | 711.1 | 950.2 | 893.0 | 740.9 | 657.6 | 397.7 | 276.7 | 187.2 | 141.7 | 130.9 | 118.9 | 116.2 | 116.1 | 96.3 | 108.1 | 100.0 | 95.7 | 99.1 | 99.9 |
| Central Asia | 242.0 | 247.1 | 278.9 | 252.2 | 244.5 | 158.6 | 195.2 | 178.4 | 172.3 | 173.5 | 161.8 | 161.7 | 160.8 | 143.9 | 103.3 | 100.0 | 98.0 | 103.5 | 109.7 |
| China, P.R. | 168.4 | 214.5 | 201.2 | 183.3 | 163.8 | 150.9 | 148.3 | 142.6 | 112.0 | 113.5 | 107.2 | 105.1 | 106.5 | 95.1 | 104.8 | 100.0 | 100.9 | 107.7 | 113.7 |
| Euro Area | 199.8 | 231.0 | 186.7 | 170.2 | 153.2 | 128.1 | 124.2 | 126.2 | 119.2 | 130.8 | 125.5 | 125.6 | 129.7 | 113.6 | 111.8 | 100.0 | 101.3 | 97.8 | 101.9 |
| Russian Federation | 118.1 | 181.8 | 168.0 | 117.3 | 77.9 | 75.7 | 86.5 | 90.2 | 81.3 | 93.7 | 98.8 | 106.0 | 113.3 | 102.5 | 97.9 | 100.0 | 102.3 | 104.1 | 108.7 |
| United States | 195.6 | 235.6 | 219.4 | 204.4 | 189.4 | 179.9 | 180.5 | 177.6 | 141.0 | 141.3 | 134.1 | 130.2 | 123.6 | 98.8 | 107.5 | 100.0 | 94.2 | 97.7 | 100.1 |
| Total | 204.1 | 226.6 | 205.8 | 184.0 | 175.7 | 150.3 | 143.9 | 144.7 | 125.0 | 131.9 | 128.1 | 128.8 | 127.7 | 111.2 | 103.7 | 100.0 | 98.3 | 101.2 | 103.8 |

Source: IMF, International Financial Statistics database; IMF, Direction of Trade Statistics database; IMF World Economic Outlook database.

Table A.37: Real Effective Exchange Rates of India, 1995-2013 (Indices, 2010 = 100)

| | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Afghanistan | 67.3 | 57.7 | 60.6 | 66.3 | 72.9 | 79.7 | 82.7 | 84.2 | 100.2 | 96.2 | 97.8 | 100.7 | 93.6 | 118.0 | 108.5 | 100.0 | 102.7 | 105.9 | 103.6 |
| India | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Pakistan | 153.9 | 149.4 | 139.7 | 135.9 | 128.4 | 124.1 | 112.3 | 118.7 | 116.6 | 116.4 | 116.0 | 119.7 | 109.6 | 110.5 | 108.5 | 100.0 | 103.5 | 110.0 | 107.6 |
| South Asia | 133.6 | 133.2 | 124.4 | 124.8 | 114.5 | 114.1 | 107.3 | 109.8 | 110.9 | 110.6 | 112.1 | 117.1 | 107.3 | 112.0 | 108.5 | 100.0 | 103.3 | 109.1 | 106.8 |
| Kazakhstan | 93.4 | 118.1 | 118.3 | 122.5 | 86.6 | 82.8 | 88.0 | 87.9 | 88.6 | 97.6 | 100.3 | 111.1 | 108.6 | 125.9 | 110.6 | 100.0 | 102.1 | 110.5 | 113.4 |
| Kyrgyz Republic | 134.0 | 149.8 | 130.4 | 120.4 | 87.9 | 85.6 | 91.4 | 95.0 | 97.1 | 97.0 | 98.2 | 102.5 | 104.3 | 128.6 | 117.6 | 100.0 | 108.8 | 114.9 | 117.5 |
| Tajikistan | 292.8 | 171.6 | 227.2 | 169.6 | 138.1 | 132.7 | 132.3 | 128.2 | 121.6 | 124.2 | 118.4 | 121.8 | 120.0 | 130.8 | 114.1 | 100.0 | 97.4 | 105.6 | 107.7 |
| Turkmenistan | 385.3 | 143.7 | 198.5 | 197.0 | 228.1 | 247.3 | 279.6 | 300.0 | 292.5 | 290.3 | 300.0 | 314.1 | 286.3 | 389.7 | 113.5 | 100.0 | 98.7 | 108.9 | 115.0 |
| Uzbekistan | 478.9 | 548.3 | 541.5 | 491.4 | 479.7 | 316.8 | 228.8 | 157.7 | 142.0 | 125.9 | 116.3 | 117.0 | 108.7 | 113.6 | 117.2 | 100.0 | 98.2 | 104.9 | 103.5 |
| Central Asia | 246.7 | 222.1 | 179.0 | 164.6 | 141.4 | 114.7 | 118.8 | 118.2 | 119.0 | 118.1 | 119.3 | 128.6 | 123.6 | 139.6 | 112.6 | 100.0 | 101.0 | 109.2 | 111.9 |
| China, P.R. | 113.4 | 123.7 | 122.0 | 121.6 | 119.5 | 120.2 | 122.6 | 120.1 | 112.2 | 109.2 | 104.9 | 105.8 | 99.7 | 112.2 | 113.7 | 100.0 | 103.6 | 114.0 | 117.8 |
| Euro Area | 134.6 | 133.3 | 113.2 | 112.9 | 111.8 | 102.1 | 102.7 | 106.3 | 119.4 | 125.8 | 122.8 | 126.5 | 121.4 | 134.1 | 121.2 | 100.0 | 104.0 | 103.5 | 105.6 |
| Russian Federation | 79.5 | 104.9 | 101.9 | 77.8 | 56.8 | 60.3 | 71.5 | 76.0 | 81.5 | 90.2 | 96.6 | 106.7 | 106.1 | 121.0 | 106.1 | 100.0 | 105.1 | 110.2 | 112.7 |
| United States | 131.7 | 136.0 | 133.1 | 135.6 | 138.1 | 143.3 | 149.2 | 149.6 | 141.2 | 135.9 | 131.2 | 131.1 | 115.7 | 116.7 | 116.6 | 100.0 | 96.7 | 103.4 | 103.7 |
| Total | 129.8 | 132.6 | 119.5 | 119.4 | 118.7 | 115.2 | 117.8 | 121.0 | 124.0 | 125.0 | 121.1 | 122.7 | 114.3 | 124.0 | 117.6 | 100.0 | 102.3 | 106.7 | 108.7 |

Source: IMF, International Financial Statistics database; IMF, Direction of Trade Statistics database; IMF World Economic Outlook database.

Table A.38: Real Effective Exchange Rates of Pakistan, 1995-2013 (Indices, 2010 = 100)

| | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|--------------|
| Afghanistan | 43.7 | 38.6 | 43.4 | 48.8 | 56.8 | 64.2 | 73.6 | 71.0 | 85.9 | 82.6 | 84.3 | 84.1 | 85.4 | 106.9 | 99.9 | 100.0 | 99.2 | 96.3 | 96.3 |
| India | 65.0 | 66.9 | 71.6 | 73.6 | 77.9 | 80.6 | 89.1 | 84.3 | 85.8 | 85.9 | 86.2 | 83.6 | 91.2 | 90.5 | 92.1 | 100.0 | 96.6 | 90.9 | 92.9 |
| Pakistan | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| South Asia | 59.4 | 62.0 | 63.9 | 69.0 | 69.7 | 73.5 | 83.3 | 76.8 | 85.9 | 84.4 | 85.2 | 83.8 | 88.7 | 97.7 | 96.2 | 100.0 | 97.8 | 93.4 | 94.4 |
| Kazakhstan | 60.7 | 79.0 | 84.7 | 90.2 | 67.5 | 66.7 | 78.3 | 74.1 | 76.0 | 83.8 | 86.5 | 92.8 | 99.1 | 114.0 | 101.9 | 100.0 | 98.6 | 100.5 | 105.4 |
| Kyrgyz Republic | 87.0 | 100.2 | 93.4 | 88.6 | 68.5 | 69.0 | 81.4 | 80.0 | 83.3 | 83.3 | 84.7 | 85.7 | 95.1 | 116.5 | 108.4 | 100.0 | 105.1 | 104.5 | 109.2 |
| Tajikistan | 190.2 | 114.8 | 162.7 | 124.8 | 107.5 | 106.9 | 117.8 | 108.1 | 104.3 | 106.7 | 102.0 | 101.8 | 109.5 | 118.4 | 105.1 | 100.0 | 94.0 | 96.0 | 100.1 |
| Turkmenistan | 250.3 | 96.2 | 142.1 | 145.0 | 177.7 | 199.3 | 249.0 | 252.9 | 250.9 | 249.4 | 258.6 | 262.5 | 261.2 | 352.8 | 104.6 | 100.0 | 95.3 | 99.0 | 106.9 |
| Uzbekistan | 311.1 | 366.9 | 387.7 | 361.7 | 373.7 | 255.3 | 203.8 | 132.9 | 121.8 | 108.2 | 100.3 | 97.8 | 99.2 | 102.9 | 108.0 | 100.0 | 94.9 | 95.4 | 96.2 |
| Central Asia | 218.9 | 190.0 | 200.0 | 196.5 | 282.7 | 139.8 | 146.2 | 117.5 | 96.0 | 120.8 | 123.6 | 134.0 | 128.7 | 152.6 | 104.7 | 100.0 | 96.5 | 98.6 | 103.0 |
| China, P.R. | 73.7 | 82.8 | 87.4 | 89.5 | 93.1 | 96.9 | 109.2 | 101.2 | 96.2 | 93.8 | 90.4 | 88.4 | 90.9 | 101.6 | 104.8 | 100.0 | 100.0 | 103.6 | 109.5 |
| Euro Area | 87.4 | 89.2 | 81.1 | 83.1 | 87.1 | 82.3 | 91.5 | 89.6 | 102.4 | 108.1 | 105.9 | 105.7 | 110.8 | 121.4 | 111.7 | 100.0 | 100.5 | 94.2 | 98.1 |
| Russian Federation | 51.7 | 70.2 | 73.0 | 57.3 | 44.2 | 48.6 | 63.7 | 64.1 | 69.9 | 77.5 | 83.3 | 89.2 | 96.8 | 109.5 | 97.8 | 100.0 | 101.5 | 100.2 | 104.7 |
| United States | 85.6 | 91.0 | 95.3 | 99.8 | 107.6 | 115.5 | 132.9 | 126.1 | 121.1 | 116.8 | 113.1 | 109.6 | 105.5 | 105.6 | 107.5 | 100.0 | 93.4 | 94.0 | 96.4 |
| Total | 86.0 | 89.5 | 87.1 | 89.7 | 95.8 | 94.8 | 106.3 | 102.2 | 106.3 | 106.9 | 103.1 | 99.8 | 101.1 | 109.8 | 107.1 | 100.0 | 98.7 | 97.8 | 102.1 |

Source: IMF, International Financial Statistics database; IMF, Direction of Trade Statistics database; IMF World Economic Outlook database.

Table A.39: Real Effective Exchange Rates of Kazakhstan, 1995-2013 (Indices, 2010 = 100)

| | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|
| Afghanistan | 72.1 | 48.9 | 51.3 | 54.2 | 84.2 | 96.3 | 94.0 | 95.8 | 113.1 | 98.6 | 97.5 | 90.6 | 86.2 | 93.7 | 98.1 | 100.0 | 100.6 | 95.8 | 91.4 |
| India | 107.1 | 84.7 | 84.6 | 81.6 | 115.4 | 120.8 | 113.7 | 113.7 | 112.9 | 102.5 | 99.7 | 90.0 | 92.1 | 79.4 | 90.4 | 100.0 | 97.9 | 90.5 | 88.2 |
| Pakistan | 164.8 | 126.6 | 118.1 | 110.9 | 148.2 | 149.9 | 127.6 | 134.9 | 131.6 | 119.3 | 115.7 | 107.7 | 100.9 | 87.7 | 98.2 | 100.0 | 101.4 | 99.5 | 94.9 |
| South Asia | 73.3 | 75.3 | 85.1 | 79.1 | 110.0 | 106.8 | 108.6 | 108.3 | 113.9 | 103.4 | 99.4 | 90.7 | 86.9 | 90.0 | 94.9 | 100.0 | 99.7 | 93.8 | 90.2 |
| Kazakhstan | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Kyrgyz Republic | 143.4 | 126.9 | 110.3 | 98.3 | 101.5 | 103.5 | 103.9 | 108.0 | 109.6 | 99.4 | 97.9 | 92.3 | 96.0 | 102.2 | 106.4 | 100.0 | 106.6 | 103.9 | 103.7 |
| Tajikistan | 313.5 | 145.3 | 192.1 | 138.5 | 159.4 | 160.3 | 150.4 | 145.8 | 137.3 | 127.3 | 118.0 | 109.6 | 110.5 | 103.9 | 103.2 | 100.0 | 95.4 | 95.6 | 95.0 |
| Turkmenistan | 412.4 | 121.7 | 167.8 | 160.9 | 263.3 | 298.8 | 317.8 | 341.2 | 330.3 | 297.6 | 299.1 | 282.7 | 263.6 | 309.5 | 102.7 | 100.0 | 96.7 | 98.5 | 101.4 |
| Uzbekistan | 512.7 | 464.4 | 457.9 | 401.2 | 553.7 | 382.8 | 260.1 | 179.4 | 160.3 | 129.1 | 116.0 | 105.3 | 100.0 | 90.2 | 106.0 | 100.0 | 96.2 | 94.9 | 91.3 |
| Central Asia | 226.4 | 207.4 | 240.0 | 196.0 | 215.0 | 239.1 | 163.6 | 126.0 | 112.5 | 107.7 | 108.4 | 102.4 | 100.8 | 96.8 | 102.3 | 100.0 | 98.4 | 98.3 | 97.1 |
| China, P.R. | 121.4 | 104.8 | 103.2 | 99.2 | 137.9 | 145.3 | 139.4 | 136.6 | 126.6 | 112.0 | 104.5 | 95.3 | 91.8 | 89.1 | 102.9 | 100.0 | 101.4 | 103.1 | 103.9 |
| Euro Area | 144.1 | 112.9 | 95.7 | 92.2 | 129.0 | 123.3 | 116.8 | 120.8 | 134.9 | 129.0 | 122.4 | 113.9 | 111.8 | 106.5 | 109.6 | 100.0 | 101.9 | 93.7 | 93.1 |
| Russian Federation | 85.1 | 88.8 | 86.2 | 63.5 | 65.6 | 72.8 | 81.3 | 86.4 | 92.0 | 92.4 | 96.3 | 96.1 | 97.7 | 96.1 | 96.0 | 100.0 | 102.9 | 99.7 | 99.4 |
| United States | 141.0 | 115.2 | 112.5 | 110.7 | 159.4 | 173.2 | 169.6 | 170.1 | 159.5 | 139.3 | 130.8 | 118.0 | 106.5 | 92.7 | 105.5 | 100.0 | 94.7 | 93.6 | 91.5 |
| Total | 193.7 | 182.5 | 180.5 | 131.6 | 164.0 | 167.1 | 137.7 | 123.1 | 115.0 | 107.1 | 107.0 | 100.7 | 99.0 | 96.9 | 101.9 | 100.0 | 101.2 | 100.9 | 100.9 |

Source: IMF, International Financial Statistics database; IMF, Direction of Trade Statistics database; IMF World Economic Outlook database.

Table A.40: Real Effective Exchange Rates of Kyrgyzstan, 1995-2013 (Indices, 2010 = 100)

| | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|--------------|-------------|-------------|-------------|
| Afghanistan | 50.3 | 38.5 | 46.5 | 55.1 | 83.0 | 93.0 | 90.4 | 88.7 | 103.2 | 99.2 | 99.6 | 98.2 | 89.8 | 91.7 | 92.2 | 100.0 | 94.4 | 92.1 | 88.2 |
| India | 74.6 | 66.8 | 76.7 | 83.0 | 113.8 | 116.8 | 109.4 | 105.3 | 103.0 | 103.1 | 101.8 | 97.5 | 95.9 | 77.7 | 85.0 | 100.0 | 91.9 | 87.0 | 85.1 |
| Pakistan | 114.9 | 99.8 | 107.1 | 112.8 | 146.0 | 144.9 | 122.8 | 124.9 | 120.1 | 120.0 | 118.1 | 116.7 | 105.1 | 85.9 | 92.3 | 100.0 | 95.2 | 95.7 | 91.6 |
| South Asia | 51.1 | 59.4 | 77.1 | 80.5 | 108.4 | 103.2 | 104.5 | 100.3 | 103.9 | 104.1 | 101.5 | 98.3 | 90.6 | 88.1 | 89.2 | 100.0 | 93.6 | 90.3 | 87.0 |
| Kazakhstan | 69.7 | 78.8 | 90.7 | 101.7 | 98.6 | 96.7 | 96.2 | 92.6 | 91.2 | 100.6 | 102.1 | 108.4 | 104.2 | 97.9 | 94.0 | 100.0 | 93.8 | 96.2 | 96.5 |
| Kyrgyz Republic | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Tajikistan | 218.5 | 114.6 | 174.2 | 140.8 | 157.1 | 155.0 | 144.7 | 135.0 | 125.2 | 128.1 | 120.5 | 118.8 | 115.1 | 101.7 | 97.0 | 100.0 | 89.5 | 91.9 | 91.7 |
| Turkmenistan | 287.5 | 95.9 | 152.2 | 163.6 | 259.5 | 288.8 | 305.8 | 315.9 | 301.3 | 299.4 | 305.4 | 306.4 | 274.6 | 302.9 | 96.5 | 100.0 | 90.7 | 94.8 | 97.9 |
| Uzbekistan | 357.4 | 366.1 | 415.2 | 408.0 | 545.8 | 370.0 | 250.3 | 166.1 | 146.2 | 129.9 | 118.4 | 114.1 | 104.2 | 88.3 | 99.6 | 100.0 | 90.3 | 91.3 | 88.1 |
| Central Asia | 157.9 | 163.5 | 217.6 | 199.3 | 211.9 | 231.1 | 157.4 | 116.7 | 102.7 | 108.4 | 110.7 | 110.9 | 105.0 | 94.8 | 96.2 | 100.0 | 92.4 | 94.6 | 93.7 |
| China, P.R. | 84.6 | 82.6 | 93.6 | 100.9 | 135.9 | 140.4 | 134.2 | 126.5 | 115.5 | 112.6 | 106.8 | 103.2 | 95.6 | 87.2 | 96.7 | 100.0 | 95.2 | 99.2 | 100.3 |
| Euro Area | 100.4 | 89.0 | 86.8 | 93.7 | 127.1 | 119.2 | 112.3 | 111.9 | 123.0 | 129.8 | 125.0 | 123.4 | 116.4 | 104.2 | 103.1 | 100.0 | 95.6 | 90.1 | 89.8 |
| Russian Federation | 59.4 | 70.0 | 78.1 | 64.6 | 64.6 | 70.4 | 78.2 | 80.0 | 83.9 | 93.0 | 98.4 | 104.1 | 101.7 | 94.1 | 90.2 | 100.0 | 96.6 | 95.9 | 95.9 |
| United States | 98.3 | 90.8 | 102.0 | 112.6 | 157.1 | 167.4 | 163.2 | 157.5 | 145.5 | 140.2 | 133.6 | 127.9 | 110.9 | 90.7 | 99.2 | 100.0 | 88.9 | 90.0 | 88.3 |
| Total | 135.0 | 143.9 | 163.6 | 133.9 | 161.7 | 161.5 | 132.5 | 114.0 | 104.9 | 107.7 | 109.2 | 109.1 | 103.1 | 94.8 | 95.8 | 100.0 | 94.9 | 97.0 | 97.4 |

Source: IMF, International Financial Statistics database; IMF, Direction of Trade Statistics database; IMF World Economic Outlook database.

Table A.41: Real Effective Exchange Rates of Tajikistan, 1995-2013 (Indices, 2010 = 100)

| | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|--------------|--------------|-------------|--------------|-------------|--------------|--------------|--------------|--------------|
| Afghanistan | 23.0 | 33.6 | 26.7 | 39.1 | 52.8 | 60.0 | 62.5 | 65.7 | 82.4 | 77.5 | 82.6 | 82.7 | 78.0 | 90.2 | 95.0 | 100.0 | 105.5 | 100.2 | 96.2 |
| India | 34.2 | 58.3 | 44.0 | 59.0 | 72.4 | 75.4 | 75.6 | 78.0 | 82.3 | 80.5 | 84.5 | 82.1 | 83.3 | 76.5 | 87.6 | 100.0 | 102.7 | 94.7 | 92.8 |
| Pakistan | 52.6 | 87.1 | 61.5 | 80.1 | 93.0 | 93.5 | 84.9 | 92.5 | 95.9 | 93.7 | 98.0 | 98.2 | 91.3 | 84.5 | 95.1 | 100.0 | 106.4 | 104.1 | 99.9 |
| South Asia | 48.1 | 63.0 | 39.3 | 49.3 | 60.4 | 62.3 | 74.5 | 75.7 | 82.5 | 78.6 | 84.3 | 82.7 | 79.2 | 84.7 | 92.9 | 100.0 | 105.1 | 99.2 | 95.8 |
| Kazakhstan | 31.9 | 68.8 | 52.0 | 72.2 | 62.8 | 62.4 | 66.5 | 68.6 | 72.8 | 78.6 | 84.7 | 91.2 | 90.5 | 96.3 | 96.9 | 100.0 | 104.9 | 104.6 | 105.3 |
| Kyrgyz Republic | 45.8 | 87.3 | 57.4 | 71.0 | 63.7 | 64.5 | 69.1 | 74.1 | 79.9 | 78.1 | 83.0 | 84.2 | 86.9 | 98.4 | 103.1 | 100.0 | 111.8 | 108.8 | 109.1 |
| Tajikistan | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Turkmenistan | 131.6 | 83.7 | 87.3 | 116.2 | 165.2 | 186.4 | 211.3 | 234.0 | 240.6 | 233.8 | 253.5 | 257.9 | 238.6 | 297.9 | 99.5 | 100.0 | 101.4 | 103.1 | 106.8 |
| Uzbekistan | 163.6 | 319.6 | 238.3 | 289.8 | 347.5 | 238.7 | 173.0 | 123.0 | 116.8 | 101.4 | 98.3 | 96.1 | 90.6 | 86.9 | 102.7 | 100.0 | 100.9 | 99.4 | 96.1 |
| Central Asia | 140.1 | 222.7 | 184.0 | 215.4 | 254.9 | 170.5 | 142.0 | 118.8 | 106.2 | 99.0 | 102.2 | 103.8 | 95.3 | 105.2 | 99.4 | 100.0 | 104.0 | 104.0 | 104.5 |
| China, P.R. | 38.7 | 72.1 | 53.7 | 71.7 | 86.5 | 90.6 | 92.7 | 93.7 | 92.3 | 88.0 | 88.6 | 86.9 | 83.1 | 85.8 | 99.6 | 100.0 | 106.4 | 107.9 | 109.4 |
| Euro Area | 46.0 | 77.7 | 49.8 | 66.6 | 80.9 | 76.9 | 77.6 | 82.9 | 98.2 | 101.3 | 103.7 | 103.9 | 101.2 | 102.5 | 106.2 | 100.0 | 106.9 | 98.0 | 98.0 |
| Russian Federation | 27.2 | 61.1 | 44.8 | 45.9 | 41.1 | 45.4 | 54.0 | 59.3 | 67.0 | 72.6 | 81.6 | 87.6 | 88.4 | 92.5 | 93.0 | 100.0 | 107.9 | 104.3 | 104.6 |
| United States | 45.0 | 79.2 | 58.6 | 79.9 | 100.0 | 108.0 | 112.8 | 116.7 | 116.2 | 109.5 | 110.9 | 107.6 | 96.4 | 89.2 | 102.2 | 100.0 | 99.3 | 97.9 | 96.3 |
| Total | 78.5 | 157.7 | 122.4 | 147.3 | 178.0 | 110.2 | 102.8 | 92.3 | 96.3 | 96.2 | 99.8 | 100.4 | 94.3 | 98.1 | 97.9 | 100.0 | 106.0 | 105.2 | 105.9 |

Source: IMF, International Financial Statistics database; IMF, Direction of Trade Statistics database; IMF World Economic Outlook database.

Table A.42: Real Effective Exchange Rates of Turkmenistan, 1995-2013 (Indices, 2010 = 100)

| | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|---------------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|-------------|
| Afghanistan | 17.5 | 40.2 | 30.6 | 33.7 | 32.0 | 32.2 | 29.6 | 28.1 | 34.3 | 33.1 | 32.6 | 32.1 | 32.7 | 30.3 | 95.6 | 100.0 | 104.0 | 97.2 | 90.1 |
| India | 26.0 | 69.6 | 50.4 | 50.8 | 43.8 | 40.4 | 35.8 | 33.3 | 34.2 | 34.4 | 33.3 | 31.8 | 34.9 | 25.7 | 88.1 | 100.0 | 101.3 | 91.8 | 87.0 |
| Pakistan | 40.0 | 104.0 | 70.4 | 69.0 | 56.3 | 50.2 | 40.2 | 39.5 | 39.9 | 40.1 | 38.7 | 38.1 | 38.3 | 28.3 | 95.6 | 100.0 | 104.9 | 101.0 | 93.6 |
| South Asia | 31.4 | 69.4 | 35.9 | 38.2 | 36.7 | 34.4 | 31.6 | 30.5 | 34.4 | 33.8 | 33.1 | 32.4 | 33.4 | 29.4 | 94.0 | 100.0 | 103.6 | 96.2 | 89.6 |
| Kazakhstan | 24.2 | 82.2 | 59.6 | 62.2 | 38.0 | 33.5 | 31.5 | 29.3 | 30.3 | 33.6 | 33.4 | 35.4 | 37.9 | 32.3 | 97.4 | 100.0 | 103.4 | 101.5 | 98.6 |
| Kyrgyz Republic | 34.8 | 104.2 | 65.7 | 61.1 | 38.5 | 34.6 | 32.7 | 31.7 | 33.2 | 33.4 | 32.7 | 32.6 | 36.4 | 33.0 | 103.6 | 100.0 | 110.2 | 105.5 | 102.2 |
| Tajikistan | 76.0 | 119.4 | 114.5 | 86.1 | 60.5 | 53.7 | 47.3 | 42.7 | 41.6 | 42.8 | 39.5 | 38.8 | 41.9 | 33.6 | 100.5 | 100.0 | 98.6 | 97.0 | 93.7 |
| Turkmenistan | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Uzbekistan | 124.3 | 381.6 | 272.8 | 249.4 | 210.3 | 128.1 | 81.8 | 52.6 | 48.5 | 43.4 | 38.8 | 37.3 | 38.0 | 29.2 | 103.3 | 100.0 | 99.5 | 96.4 | 90.0 |
| Central Asia | 36.6 | 99.7 | 112.4 | 105.8 | 94.9 | 58.8 | 53.3 | 42.0 | 37.4 | 38.3 | 36.9 | 36.6 | 38.3 | 31.5 | 100.4 | 100.0 | 100.9 | 99.0 | 94.5 |
| China, P.R. | 29.4 | 86.1 | 61.5 | 61.7 | 52.4 | 48.6 | 43.9 | 40.0 | 38.3 | 37.6 | 35.0 | 33.7 | 34.8 | 28.8 | 100.2 | 100.0 | 104.9 | 104.7 | 102.5 |
| Euro Area | 34.9 | 92.8 | 57.0 | 57.3 | 49.0 | 41.3 | 36.7 | 35.4 | 40.8 | 43.3 | 40.9 | 40.3 | 42.4 | 34.4 | 106.8 | 100.0 | 105.4 | 95.1 | 91.8 |
| Russian Federation | 20.6 | 73.0 | 51.3 | 39.5 | 24.9 | 24.4 | 25.6 | 25.3 | 27.9 | 31.1 | 32.2 | 34.0 | 37.1 | 31.1 | 93.5 | 100.0 | 106.5 | 101.2 | 98.0 |
| United States | 34.2 | 94.6 | 67.0 | 68.8 | 60.6 | 57.9 | 53.4 | 49.9 | 48.3 | 46.8 | 43.7 | 41.7 | 40.4 | 29.9 | 102.8 | 100.0 | 98.0 | 95.0 | 90.2 |
| Total | 35.3 | 91.4 | 82.7 | 68.6 | 53.1 | 34.1 | 37.6 | 35.5 | 37.0 | 41.1 | 39.2 | 37.8 | 39.0 | 32.4 | 101.3 | 100.0 | 104.8 | 102.0 | 99.2 |

Source: IMF, International Financial Statistics database; IMF, Direction of Trade Statistics database; IMF World Economic Outlook database.

Table A.43: Real Effective Exchange Rates of Uzbekistan, 1995-2013 (Indices, 2010 = 100)

| | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|---------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|-------------|--------------|--------------|--------------|--------------|
| Afghanistan | 14.1 | 10.5 | 11.2 | 13.5 | 15.2 | 25.1 | 36.1 | 53.4 | 70.6 | 76.4 | 84.1 | 86.0 | 86.1 | 103.9 | 92.5 | 100.0 | 104.5 | 100.9 | 100.1 |
| India | 20.9 | 18.2 | 18.5 | 20.3 | 20.8 | 31.6 | 43.7 | 63.4 | 70.4 | 79.4 | 86.0 | 85.5 | 92.0 | 88.0 | 85.3 | 100.0 | 101.8 | 95.3 | 96.6 |
| Pakistan | 32.1 | 27.3 | 25.8 | 27.6 | 26.8 | 39.2 | 49.1 | 75.2 | 82.1 | 92.4 | 99.7 | 102.3 | 100.9 | 97.2 | 92.6 | 100.0 | 105.4 | 104.8 | 103.9 |
| South Asia | 28.5 | 25.1 | 23.4 | 25.2 | 25.3 | 34.8 | 45.4 | 67.0 | 71.7 | 81.4 | 88.6 | 88.7 | 94.1 | 89.5 | 85.6 | 100.0 | 101.9 | 95.6 | 96.8 |
| Kazakhstan | 19.5 | 21.5 | 21.8 | 24.9 | 18.1 | 26.1 | 38.4 | 55.8 | 62.4 | 77.5 | 86.2 | 94.9 | 100.0 | 110.8 | 94.3 | 100.0 | 104.0 | 105.3 | 109.5 |
| Kyrgyz Republic | 28.0 | 27.3 | 24.1 | 24.5 | 18.3 | 27.0 | 40.0 | 60.2 | 68.4 | 77.0 | 84.4 | 87.6 | 95.9 | 113.2 | 100.4 | 100.0 | 110.8 | 109.5 | 113.5 |
| Tajikistan | 61.1 | 31.3 | 42.0 | 34.5 | 28.8 | 41.9 | 57.8 | 81.3 | 85.6 | 98.6 | 101.8 | 104.1 | 110.4 | 115.1 | 97.4 | 100.0 | 99.1 | 100.7 | 104.0 |
| Turkmenistan | 80.4 | 26.2 | 36.7 | 40.1 | 47.5 | 78.1 | 122.2 | 190.2 | 206.0 | 230.5 | 257.9 | 268.4 | 263.4 | 343.0 | 96.8 | 100.0 | 100.5 | 103.8 | 111.1 |
| Uzbekistan | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Central Asia | 34.0 | 26.8 | 31.3 | 29.6 | 25.5 | 33.8 | 50.1 | 72.8 | 79.6 | 91.4 | 100.4 | 106.4 | 107.9 | 120.5 | 95.9 | 100.0 | 104.7 | 105.8 | 110.1 |
| China, P.R. | 23.7 | 22.6 | 22.5 | 24.7 | 24.9 | 38.0 | 53.6 | 76.1 | 79.0 | 86.7 | 90.1 | 90.4 | 91.7 | 98.8 | 97.0 | 100.0 | 105.4 | 108.6 | 113.8 |
| Euro Area | 28.1 | 24.3 | 20.9 | 23.0 | 23.3 | 32.2 | 44.9 | 67.4 | 84.1 | 99.9 | 105.6 | 108.1 | 111.7 | 118.0 | 103.4 | 100.0 | 105.9 | 98.7 | 102.0 |
| Russian Federation | 16.6 | 19.1 | 18.8 | 15.8 | 11.8 | 19.0 | 31.2 | 48.2 | 57.4 | 71.6 | 83.1 | 91.2 | 97.6 | 106.5 | 90.6 | 100.0 | 107.0 | 105.0 | 108.8 |
| United States | 27.5 | 24.8 | 24.6 | 27.6 | 28.8 | 45.2 | 65.2 | 94.8 | 99.5 | 107.9 | 112.8 | 112.0 | 106.4 | 102.7 | 99.5 | 100.0 | 98.5 | 98.5 | 100.2 |
| Total | 26.1 | 23.1 | 22.6 | 22.8 | 22.4 | 30.2 | 44.3 | 66.5 | 77.2 | 88.7 | 96.1 | 100.7 | 104.4 | 112.6 | 96.2 | 100.0 | 105.7 | 104.8 | 109.3 |

Source: IMF, International Financial Statistics database; IMF, Direction of Trade Statistics database; IMF World Economic Outlook database.

Table A.44: Real Effective Exchange Rates of Central Asia, 1995-2013 (Indices, 2010 = 100)

| | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|-------------|--------------|
| Afghanistan | 44.1 | 34.2 | 35.2 | 38.2 | 49.0 | 62.3 | 67.2 | 73.0 | 88.1 | 81.8 | 83.2 | 80.0 | 77.4 | 88.1 | 96.5 | 100.0 | 101.6 | 96.8 | 92.7 |
| India | 65.5 | 59.3 | 58.1 | 57.6 | 67.2 | 78.2 | 81.3 | 86.6 | 87.9 | 85.0 | 85.1 | 79.4 | 82.7 | 74.6 | 89.0 | 100.0 | 98.9 | 91.5 | 89.5 |
| Pakistan | 100.9 | 88.6 | 81.1 | 78.3 | 86.2 | 97.0 | 91.3 | 102.8 | 102.5 | 99.0 | 98.7 | 95.0 | 90.7 | 82.4 | 96.6 | 100.0 | 102.4 | 100.6 | 96.3 |
| South Asia | 67.3 | 66.8 | 58.2 | 58.1 | 68.0 | 72.3 | 78.3 | 83.2 | 88.5 | 84.1 | 84.8 | 80.5 | 80.1 | 82.8 | 93.7 | 100.0 | 100.6 | 94.3 | 91.1 |
| Kazakhstan | 61.2 | 70.0 | 68.7 | 70.6 | 58.2 | 64.7 | 71.5 | 76.2 | 77.9 | 82.9 | 85.3 | 88.3 | 89.8 | 93.9 | 98.4 | 100.0 | 101.0 | 101.1 | 101.5 |
| Kyrgyz Republic | 87.8 | 88.8 | 75.8 | 69.4 | 59.0 | 67.0 | 74.4 | 82.2 | 85.4 | 82.4 | 83.6 | 81.4 | 86.2 | 96.0 | 104.7 | 100.0 | 107.6 | 105.1 | 105.2 |
| Tajikistan | 191.9 | 101.7 | 132.0 | 97.7 | 92.7 | 103.8 | 107.6 | 111.1 | 106.9 | 105.6 | 100.7 | 96.7 | 99.2 | 97.6 | 101.6 | 100.0 | 96.3 | 96.6 | 96.4 |
| Turkmenistan | 252.5 | 85.2 | 115.3 | 113.5 | 153.2 | 193.4 | 227.4 | 259.8 | 257.1 | 246.8 | 255.2 | 249.5 | 236.8 | 290.7 | 101.0 | 100.0 | 97.6 | 99.6 | 102.9 |
| Uzbekistan | 313.9 | 325.1 | 314.6 | 283.1 | 322.2 | 247.8 | 186.1 | 136.6 | 124.8 | 107.1 | 99.0 | 93.0 | 89.9 | 84.8 | 104.3 | 100.0 | 97.2 | 96.0 | 92.6 |
| Central Asia | 161.7 | 130.1 | 144.1 | 128.6 | 133.5 | 125.7 | 121.6 | 113.3 | 105.1 | 100.6 | 98.7 | 97.8 | 96.0 | 100.7 | 101.6 | 100.0 | 100.1 | 99.7 | 99.1 |
| China, P.R. | 74.3 | 73.4 | 70.9 | 70.0 | 80.2 | 94.0 | 99.7 | 104.0 | 98.6 | 92.9 | 89.2 | 84.1 | 82.5 | 83.7 | 101.2 | 100.0 | 102.4 | 104.3 | 105.4 |
| Euro Area | 88.2 | 79.0 | 65.8 | 65.0 | 75.1 | 79.8 | 83.5 | 92.0 | 105.0 | 107.0 | 104.5 | 100.5 | 100.4 | 100.0 | 107.9 | 100.0 | 102.9 | 94.7 | 94.5 |
| Russian Federation | 52.1 | 62.2 | 59.2 | 44.8 | 38.1 | 47.1 | 58.1 | 65.8 | 71.6 | 76.7 | 82.2 | 84.8 | 87.7 | 90.3 | 94.5 | 100.0 | 103.9 | 100.8 | 100.8 |
| United States | 86.3 | 80.6 | 77.3 | 78.1 | 92.8 | 112.1 | 121.4 | 129.5 | 124.2 | 115.6 | 111.6 | 104.1 | 95.7 | 87.0 | 103.8 | 100.0 | 95.7 | 94.6 | 92.8 |
| Total | 92.9 | 85.7 | 81.1 | 72.4 | 80.9 | 76.6 | 83.0 | 89.8 | 93.9 | 96.0 | 96.5 | 94.1 | 93.6 | 94.8 | 102.5 | 100.0 | 102.4 | 98.8 | 100.0 |

Source: IMF, International Financial Statistics database; IMF, Direction of Trade Statistics database; IMF World Economic Outlook database.

Table A.45: Real Effective Exchange Rates of South Asia, 1995-2013 (Indices, 2010 = 100)

| | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Afghanistan | 63.5 | 54.8 | 58.2 | 63.9 | 70.9 | 77.6 | 81.6 | 82.6 | 98.4 | 94.5 | 96.2 | 98.6 | 92.8 | 116.5 | 107.5 | 100.0 | 102.3 | 104.8 | 102.8 |
| India | 94.3 | 95.1 | 96.0 | 96.3 | 97.2 | 97.4 | 98.7 | 98.1 | 98.2 | 98.2 | 98.3 | 97.9 | 99.1 | 98.7 | 99.1 | 100.0 | 99.6 | 99.0 | 99.2 |
| Pakistan | 145.2 | 142.0 | 134.1 | 130.8 | 124.7 | 120.9 | 110.8 | 116.4 | 114.5 | 114.4 | 114.0 | 117.2 | 108.6 | 109.1 | 107.5 | 100.0 | 103.2 | 108.8 | 106.7 |
| South Asia | 105.7 | 104.2 | 103.4 | 104.0 | 100.7 | 101.6 | 99.5 | 101.0 | 104.9 | 103.5 | 104.5 | 106.7 | 101.8 | 107.7 | 105.2 | 100.0 | 101.9 | 104.8 | 103.4 |
| Kazakhstan | 88.1 | 112.2 | 113.5 | 117.9 | 84.2 | 80.6 | 86.8 | 86.3 | 87.0 | 95.8 | 98.6 | 108.8 | 107.6 | 124.3 | 109.6 | 100.0 | 101.7 | 109.4 | 112.5 |
| Kyrgyz Republic | 126.3 | 142.3 | 125.2 | 115.9 | 85.4 | 83.4 | 90.2 | 93.2 | 95.3 | 95.3 | 96.6 | 100.4 | 103.3 | 127.0 | 116.6 | 100.0 | 108.4 | 113.7 | 116.6 |
| Tajikistan | 276.1 | 163.1 | 218.2 | 163.3 | 134.1 | 129.3 | 130.5 | 125.8 | 119.4 | 122.0 | 116.4 | 119.3 | 118.9 | 129.1 | 113.1 | 100.0 | 97.0 | 104.5 | 106.8 |
| Turkmenistan | 363.3 | 136.6 | 190.5 | 189.7 | 221.6 | 241.0 | 275.9 | 294.4 | 287.2 | 285.2 | 294.9 | 307.6 | 283.7 | 384.7 | 112.5 | 100.0 | 98.3 | 107.8 | 114.1 |
| Uzbekistan | 451.6 | 521.2 | 519.9 | 473.1 | 466.1 | 308.7 | 225.7 | 154.8 | 139.4 | 123.7 | 114.4 | 114.6 | 107.7 | 112.2 | 116.1 | 100.0 | 97.9 | 103.9 | 102.7 |
| Central Asia | 212.6 | 218.7 | 205.6 | 193.3 | 212.0 | 123.4 | 133.7 | 128.6 | 136.5 | 138.0 | 139.1 | 146.1 | 139.4 | 158.6 | 111.3 | 100.0 | 100.4 | 108.2 | 111.7 |
| China, P.R. | 107.0 | 117.6 | 117.1 | 117.0 | 116.1 | 117.1 | 121.0 | 117.8 | 110.1 | 107.3 | 103.1 | 103.7 | 98.8 | 110.8 | 112.7 | 100.0 | 103.2 | 112.8 | 116.9 |
| Euro Area | 126.9 | 126.7 | 108.7 | 108.7 | 108.6 | 99.5 | 101.3 | 104.3 | 117.3 | 123.6 | 120.7 | 123.9 | 120.3 | 132.4 | 120.1 | 100.0 | 103.7 | 102.5 | 104.7 |
| Russian Federation | 75.0 | 99.7 | 97.8 | 74.9 | 55.2 | 58.7 | 70.5 | 74.6 | 80.0 | 88.6 | 95.0 | 104.5 | 105.1 | 119.5 | 105.2 | 100.0 | 104.7 | 109.1 | 111.8 |
| United States | 124.2 | 129.2 | 127.7 | 130.5 | 134.2 | 139.6 | 147.2 | 146.8 | 138.7 | 133.5 | 129.0 | 128.4 | 114.6 | 115.2 | 115.6 | 100.0 | 96.4 | 102.3 | 102.9 |
| Total | 123.0 | 126.3 | 115.2 | 115.4 | 116.2 | 112.7 | 116.5 | 118.8 | 121.8 | 122.7 | 118.9 | 119.8 | 112.8 | 122.2 | 116.2 | 100.0 | 101.8 | 105.7 | 107.9 |

Source: IMF, International Financial Statistics database; IMF, Direction of Trade Statistics database; IMF World Economic Outlook database.

Table A.46: Afghanistan: Average of All Trading Costs (tij)

| | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|---|------|------|------|------|------|------|
| India | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | 147 | 164 | 196 | 216 | 202 | 220 |
| Manufacturing (D) | 264 | 269 | 217 | 265 | 212 | 204 |
| Total Goods (GTT) | 142 | 151 | 164 | 157 | 176 | 186 |
| Kazakhstan | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | n.a. | n.a. | 225 | 189 | 189 | 189 |
| Manufacturing (D) | 168 | 219 | 338 | 338 | 338 | 338 |
| Total Goods (GTT) | 182 | 245 | 189 | 177 | 177 | 177 |
| Kyrgyz Republic | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | 340 | n.a. | n.a. | n.a. | n.a. | n.a. |
| Total Goods (GTT) | 320 | n.a. | n.a. | n.a. | n.a. | n.a. |
| Pakistan | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | 117 | 115 | 126 | 115 | 133 | 139 |
| Manufacturing (D) | 76 | 81 | 87 | 87 | 91 | 96 |
| Total Goods (GTT) | 84 | 88 | 97 | 94 | 104 | 108 |
| Tajikistan | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | 217 | 380 | 364 | | | |
| Manufacturing (D) | 155 | 119 | 118 | 141 | 143 | 144 |
| Total Goods (GTT) | 170 | 141 | 140 | 169 | 172 | 175 |
| Uzbekistan | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | 264 | n.a. | n.a. | n.a. | n.a. | n.a. |
| Manufacturing (D) | 177 | n.a. | n.a. | n.a. | n.a. | n.a. |
| Total Goods (GTT) | 200 | n.a. | n.a. | n.a. | n.a. | n.a. |

Source: World Bank, Trade Costs Dataset. Online: <http://data.worldbank.org/data-catalog/trade-costs-dataset>, and UNESCAP, "ESCAP-World Bank Trade Cost Database.

Online: <http://artnet.unescap.org/databases.html#first>.

Table A.47: India: Average of All Trading Costs (tij)

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Afghanistan | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | 147 | 164 | 196 | 216 | 202 | 220 |
| Manufacturing (D) | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | 264 | 269 | 217 | 265 | 212 | 204 |
| Total Goods (GTT) | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | 142 | 151 | 164 | 157 | 176 | 186 |
| Kazakhstan | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | n.a. | n.a. | n.a. | n.a. | n.a. | 487 | 189 | 231 | 298 | 384 | 317 | 330 | 304 | 304 |
| Manufacturing (D) | 182 | 211 | 247 | 234 | 217 | 199 | 226 | 200 | 188 | 185 | 178 | 188 | 150 | 149 |
| Total Goods (GTT) | 188 | 217 | 261 | 244 | 225 | 209 | 194 | 206 | 199 | 198 | 188 | 207 | 168 | 167 |
| Kyrgyz Republic | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | 469 | 466 | 398 | 445 | 409 | 449 | 396 | 580 | 425 | 449 | 473 | 717 | 512 | 507 |
| Manufacturing (D) | 217 | 216 | 221 | 219 | 215 | 228 | 238 | 245 | 276 | 265 | 286 | 287 | 292 | 299 |
| Total Goods (GTT) | 248 | 249 | 254 | 253 | 248 | 264 | 273 | 287 | 310 | 301 | 318 | 332 | 332 | 334 |
| Pakistan | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | n.a. | n.a. | n.a. | 195 | 186 | 164 | 178 | 161 | 162 | 169 | 167 | 176 | 161 | 158 |
| Manufacturing (D) | n.a. | n.a. | n.a. | 194 | 148 | 142 | 126 | 136 | 135 | 144 | 137 | 143 | 144 | 141 |
| Total Goods (GTT) | n.a. | n.a. | n.a. | 184 | 158 | 148 | 140 | 145 | 143 | 153 | 147 | 155 | 151 | 148 |
| Tajikistan | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | 305 | 305 | 304 | 303 | 467 | 316 | 292 | 319 | 285 | 405 | 350 | 398 | 376 | 386 |
| Manufacturing (D) | 261 | 278 | 604 | 401 | 249 | 335 | 240 | 230 | 209 | 203 | 202 | 215 | 192 | 199 |
| Total Goods (GTT) | 265 | 296 | 635 | 260 | 247 | 247 | 239 | 246 | 225 | 221 | 222 | 246 | 222 | 231 |
| Turkmenistan | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | 632 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| Manufacturing (D) | 242 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| Total Goods (GTT) | 292 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| Uzbekistan | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | 381 | 307 | 324 | 298 | 374 | 368 | 335 | 850 | 297 | 361 | 359 | 349 | 375 | 408 |
| Manufacturing (D) | 296 | 252 | 209 | 194 | 186 | 178 | 190 | 219 | 193 | 217 | 225 | 184 | 195 | 194 |
| Total Goods (GTT) | 265 | 237 | 241 | 216 | 212 | 206 | 215 | 240 | 201 | 230 | 236 | 208 | 214 | 213 |

Source: World Bank, Trade Costs Dataset. Online: <http://data.worldbank.org/data-catalog/trade-costs-dataset>, and UNESCAP, "ESCAP-World Bank Trade Cost Database.

Online: <http://artnet.unescap.org/databases.html#first>.

Table A.48: Pakistan: Average of All Trading Costs (tij)

| | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|---|------|------|------|------|------|------|------|------|------|------|------|
| Afghanistan | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | n.a. | n.a. | n.a. | n.a. | n.a. | 117 | 115 | 126 | 115 | 133 | 139 |
| Manufacturing (D) | n.a. | n.a. | n.a. | n.a. | n.a. | 76 | 81 | 87 | 87 | 91 | 96 |
| Total Goods (GTT) | n.a. | n.a. | n.a. | n.a. | n.a. | 84 | 88 | 97 | 94 | 104 | 108 |
| India | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | 195 | 186 | 164 | 178 | 161 | 162 | 169 | 167 | 176 | 161 | 158 |
| Manufacturing (D) | 194 | 148 | 142 | 126 | 136 | 135 | 144 | 137 | 143 | 144 | 141 |
| Total Goods (GTT) | 184 | 158 | 148 | 140 | 145 | 143 | 153 | 147 | 155 | 151 | 148 |
| Kazakhstan | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | n.a. | n.a. | n.a. | n.a. | 302 | 323 | 396 | 468 | 487 | 507 | 528 |
| Manufacturing (D) | 241 | 258 | 238 | 252 | 246 | 258 | 222 | 226 | 286 | 239 | 240 |
| Total Goods (GTT) | 270 | 287 | 264 | 284 | 244 | 239 | 253 | 250 | 315 | 269 | 271 |
| Kyrgyz Republic | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | | | 823 | 759 | 674 | 590 | 726 | 863 | 852 | 740 | 647 |
| Manufacturing (D) | 303 | 307 | 312 | 341 | 299 | 342 | 372 | 298 | 304 | 386 | 307 |
| Total Goods (GTT) | 358 | 362 | 365 | 410 | 361 | 395 | 436 | 351 | 359 | 440 | 324 |
| Tajikistan | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | n.a. | n.a. | 278 | 330 | 338 | 346 | n.a. | n.a. | n.a. | n.a. | n.a. |
| Manufacturing (D) | n.a. | 320 | 269 | 305 | 398 | 383 | 274 | 294 | 409 | 314 | 321 |
| Total Goods (GTT) | 397 | 253 | 226 | 280 | 293 | 286 | 276 | 275 | 475 | 350 | 359 |
| Uzbekistan | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | 362 | 396 | 354 | 370 | 334 | 314 | 555 | 454 | 397 | 461 | 439 |
| Manufacturing (D) | 258 | 233 | 206 | 289 | 257 | 236 | 309 | 296 | 248 | 265 | 271 |
| Total Goods (GTT) | 268 | 238 | 238 | 237 | 235 | 255 | 348 | 258 | 280 | 294 | 301 |

Source: World Bank, Trade Costs Dataset. Online: <http://data.worldbank.org/data-catalog/trade-costs-dataset>, and UNESCAP, "ESCAP-World Bank Trade Cost Database.

Online: <http://artnet.unescap.org/databases.html#first>.

Table A.49: Kazakhstan: Average of All Trading Costs (tij)

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|
| Afghanistan | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | | | 225 | 189 | 189 | 189 |
| Manufacturing (D) | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | 168 | 219 | 338 | 338 | 338 | 338 |
| Total Goods (GTT) | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | 182 | 245 | 189 | 177 | 177 | 177 |
| India | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | n.a. | n.a. | n.a. | n.a. | n.a. | 487 | 189 | 231 | 298 | 384 | 317 | 330 | 304 | 304 |
| Manufacturing (D) | 182 | 211 | 247 | 234 | 217 | 199 | 226 | 200 | 188 | 185 | 178 | 188 | 150 | 149 |
| Total Goods (GTT) | 188 | 217 | 261 | 244 | 225 | 209 | 194 | 206 | 199 | 198 | 188 | 207 | 168 | 167 |
| Kyrgyz Republic | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | 122 | 140 | 137 | 143 | 133 | 138 | 133 | 121 | 128 | 163 | 97 | 95 | 75 | 73 |
| Manufacturing (D) | 79 | 72 | 64 | 59 | 53 | 55 | 51 | 52 | 58 | 64 | 63 | 64 | 53 | 51 |
| Total Goods (GTT) | 92 | 89 | 82 | 76 | 71 | 72 | 70 | 68 | 72 | 81 | 75 | 75 | 60 | 58 |
| Pakistan | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | 302 | 323 | 396 | 468 | 487 | 507 | 528 |
| Manufacturing (D) | n.a. | n.a. | n.a. | 241 | 258 | 238 | 252 | 246 | 258 | 222 | 226 | 286 | 239 | 240 |
| Total Goods (GTT) | n.a. | n.a. | n.a. | 270 | 287 | 264 | 284 | 244 | 239 | 253 | 250 | 315 | 269 | 271 |
| Tajikistan | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | 140 | 160 | 199 | 179 | 199 | 98 | 99 | 95 | 147 | 149 | 109 | 95 | 82 | 81 |
| Manufacturing (D) | 114 | 135 | 137 | 114 | 106 | 103 | 104 | 96 | 107 | 113 | 121 | 121 | 123 | 124 |
| Total Goods (GTT) | 110 | 136 | 141 | 123 | 117 | 95 | 93 | 92 | 118 | 123 | 111 | 96 | 87 | 86 |
| Turkmenistan | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | 221.5 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| Manufacturing (D) | 120.7 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| Total Goods (GTT) | 149.3 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| Uzbekistan | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | 167.4 | 171.0 | 196.6 | 244.6 | 169.6 | 144.0 | 126.8 | 118.5 | 148.7 | 166.4 | 113.3 | 87.1 | 84.6 | 81.5 |
| Manufacturing (D) | 104.7 | 93.7 | 86.2 | 83.4 | 72.5 | 70.2 | 71.7 | 58.7 | 57.3 | 79.1 | 69.0 | 72.8 | 67.7 | 65.9 |
| Total Goods (GTT) | 110.9 | 106.5 | 108.7 | 107.1 | 92.2 | 88.9 | 86.5 | 71.4 | 71.2 | 92.9 | 79.0 | 75.7 | 72.2 | 70.1 |

Source: World Bank, Trade Costs Dataset. Online: <http://data.worldbank.org/data-catalog/trade-costs-dataset>, and UNESCAP, "ESCAP-World Bank Trade Cost Database.

Online: <http://artnet.unescap.org/databases.html#first>.

Table A.50: Kyrgyzstan: Average of All Trading Costs (tij)

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Afghanistan | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | 340 | n.a. | n.a. | n.a. | n.a. | n.a. |
| Total Goods (GTT) | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | 320 | n.a. | n.a. | n.a. | n.a. | n.a. |
| India | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | 469 | 466 | 398 | 445 | 409 | 449 | 396 | 580 | 425 | 449 | 473 | 517 | 512 | 507 |
| Manufacturing (D) | 217 | 216 | 221 | 219 | 215 | 228 | 238 | 245 | 276 | 265 | 286 | 287 | 292 | 299 |
| Total Goods (GTT) | 248 | 249 | 254 | 253 | 248 | 264 | 273 | 287 | 310 | 301 | 318 | 332 | 332 | 334 |
| Kazakhstan | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | 122 | 140 | 137 | 143 | 133 | 138 | 133 | 121 | 128 | 163 | 97 | 95 | 75 | 73 |
| Manufacturing (D) | 79 | 72 | 64 | 59 | 53 | 55 | 51 | 52 | 58 | 64 | 63 | 64 | 53 | 51 |
| Total Goods (GTT) | 92 | 89 | 82 | 76 | 71 | 72 | 70 | 68 | 72 | 81 | 75 | 75 | 60 | 58 |
| Pakistan | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | n.a. | n.a. | n.a. | n.a. | n.a. | 823 | 759 | 674 | 590 | 726 | 863 | 852 | 740 | 647 |
| Manufacturing (D) | n.a. | n.a. | n.a. | 303 | 307 | 312 | 341 | 299 | 342 | 372 | 298 | 304 | 386 | 307 |
| Total Goods (GTT) | n.a. | n.a. | n.a. | 358 | 362 | 365 | 410 | 361 | 395 | 436 | 351 | 359 | 440 | 324 |
| Tajikistan | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | 251 | 224 | 240 | 230 | 366 | 309 | 345 | 381 | 307 | 341 | 274 | 230 | 184 | 184 |
| Manufacturing (D) | 144 | 139 | 116 | 110 | 108 | 112 | 114 | 123 | 122 | 124 | 130 | 132 | 129 | 129 |
| Total Goods (GTT) | 165 | 160 | 139 | 132 | 132 | 139 | 144 | 155 | 150 | 153 | 156 | 160 | 143 | 142 |
| Turkmenistan | | | | | | | | | | | | | | |
| Manufacturing (D) | 76 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| Total Goods (GTT) | 107 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| Uzbekistan | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | 225 | 323 | 328 | 390 | 228 | 185 | 211 | 216 | 235 | 314 | 243 | 310 | 262 | 274 |
| Manufacturing (D) | 73 | 80 | 92 | 99 | 87 | 84 | 92 | 88 | 90 | 93 | 107 | 109 | 112 | 117 |
| Total Goods (GTT) | 99 | 112 | 129 | 137 | 119 | 115 | 123 | 118 | 117 | 117 | 131 | 133 | 131 | 136 |

Source: World Bank, Trade Costs Dataset. Online: <http://data.worldbank.org/data-catalog/trade-costs-dataset>, and UNESCAP, "ESCAP-World Bank Trade Cost Database. Online: <http://artnet.unescap.org/databases.html#first>.

Table A.51: Tajikistan: Average of All Trading Costs (tij)

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Afghanistan | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | 217 | 380 | 364 | n.a. | n.a. | n.a. |
| Manufacturing (D) | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | 155 | 119 | 118 | 141 | 143 | 144 |
| Total Goods (GTT) | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | 170 | 141 | 140 | 169 | 172 | 175 |
| India | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | 305 | 305 | 304 | 303 | 467 | 316 | 292 | 319 | 285 | 405 | 350 | 398 | 657 | 386 |
| Manufacturing (D) | 261 | 278 | 604 | 401 | 249 | 335 | 240 | 230 | 209 | 203 | 202 | 215 | 192 | 199 |
| Total Goods (GTT) | 265 | 296 | 635 | 260 | 247 | 247 | 239 | 246 | 225 | 221 | 222 | 246 | 222 | 231 |
| Kazakhstan | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | 140 | 160 | 199 | 179 | 199 | 98 | 99 | 95 | 147 | 149 | 109 | 95 | 82 | 81 |
| Manufacturing (D) | 114 | 135 | 137 | 114 | 106 | 103 | 104 | 96 | 107 | 113 | 121 | 121 | 123 | 124 |
| Total Goods (GTT) | 110 | 136 | 141 | 123 | 117 | 95 | 93 | 92 | 118 | 123 | 111 | 96 | 87 | 86 |
| Kyrgyz Republic | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | 251 | 224 | 240 | 230 | 366 | 309 | 345 | 381 | 307 | 341 | 274 | 230 | 184 | 184 |
| Manufacturing (D) | 144 | 139 | 116 | 110 | 108 | 112 | 114 | 123 | 122 | 124 | 130 | 132 | 129 | 129 |
| Total Goods (GTT) | 165 | 160 | 139 | 132 | 132 | 139 | 144 | 155 | 150 | 153 | 156 | 160 | 143 | 142 |
| Pakistan | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | n.a. | n.a. | n.a. | n.a. | n.a. | 278 | 330 | 338 | 346 | n.a. | n.a. | n.a. | n.a. | n.a. |
| Manufacturing (D) | n.a. | n.a. | n.a. | n.a. | 320 | 269 | 305 | 398 | 383 | 274 | 294 | 409 | 314 | 321 |
| Total Goods (GTT) | n.a. | n.a. | n.a. | 397 | 253 | 226 | 280 | 293 | 286 | 276 | 275 | 475 | 350 | 359 |
| Turkmenistan | | | | | | | | | | | | | | |
| Manufacturing (D) | 70 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| Total Goods (GTT) | 94 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |

Source: World Bank, Trade Costs Dataset. Online: <http://data.worldbank.org/data-catalog/trade-costs-dataset>, and UNESCAP, "ESCAP-World Bank Trade Cost Database. Online: <http://artnet.unescap.org/databases.html#first>.

Table A.52: Turkmenistan: Average of All Trading Costs (tij)

| | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| India | | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | 413 | 632 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| Manufacturing (D) | 249 | 242 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| Total Goods (GTT) | 273 | 292 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| Kazakhstan | | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | n.a. | 221 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| Manufacturing (D) | n.a. | 121 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| Total Goods (GTT) | n.a. | 149 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| Kyrgyz Republic | | | | | | | | | | | | | | | |
| Manufacturing (D) | n.a. | 76 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| Total Goods (GTT) | n.a. | 107 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| Tajikistan | | | | | | | | | | | | | | | |
| Manufacturing (D) | 97 | 70 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| Total Goods (GTT) | 115 | 94 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| Uzbekistan | | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | 294 | 378 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| Manufacturing (D) | 105 | 84 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| Total Goods (GTT) | 131 | 122 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |

Source: World Bank, Trade Costs Dataset. Online: <http://data.worldbank.org/data-catalog/trade-costs-dataset>, and UNESCAP, "ESCAP-World Bank Trade Cost Database.

Online: <http://artnet.unescap.org/databases.html#first>.

Table A.53: Uzbekistan: Average of All Trading Costs (tij)

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Afghanistan | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | 264 | n.a. | n.a. | n.a. | n.a. | n.a. |
| Manufacturing (D) | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | 177 | n.a. | n.a. | n.a. | n.a. | n.a. |
| Total Goods (GTT) | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | 200 | n.a. | n.a. | n.a. | n.a. | n.a. |
| India | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | 381 | 307 | 324 | 298 | 374 | 368 | 335 | 850 | 297 | 361 | 359 | 349 | 375 | 408 |
| Manufacturing (D) | 296 | 252 | 209 | 194 | 186 | 178 | 190 | 219 | 193 | 217 | 225 | 184 | 195 | 194 |
| Total Goods (GTT) | 265 | 237 | 241 | 216 | 212 | 206 | 215 | 240 | 201 | 230 | 236 | 208 | 214 | 213 |
| Kazakhstan | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | 167 | 171 | 197 | 245 | 170 | 144 | 127 | 119 | 149 | 166 | 113 | 87 | 85 | 82 |
| Manufacturing (D) | 105 | 94 | 86 | 83 | 73 | 70 | 72 | 59 | 57 | 79 | 69 | 73 | 68 | 66 |
| Total Goods (GTT) | 111 | 106 | 109 | 107 | 92 | 89 | 86 | 71 | 71 | 93 | 79 | 76 | 72 | 70 |
| Kyrgyz Republic | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | 225 | 323 | 328 | 390 | 228 | 185 | 211 | 216 | 235 | 314 | 243 | 310 | 262 | 274 |
| Manufacturing (D) | 73 | 80 | 92 | 99 | 87 | 84 | 92 | 88 | 90 | 93 | 107 | 109 | 112 | 117 |
| Total Goods (GTT) | 99 | 112 | 129 | 137 | 119 | 115 | 123 | 118 | 117 | 117 | 131 | 133 | 131 | 136 |
| Pakistan | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | n.a. | n.a. | n.a. | 362 | 396 | 354 | 370 | 334 | 314 | 555 | 454 | 397 | 461 | 439 |
| Manufacturing (D) | n.a. | n.a. | n.a. | 258 | 233 | 206 | 289 | 257 | 236 | 309 | 296 | 248 | 365 | 271 |
| Total Goods (GTT) | n.a. | n.a. | n.a. | 268 | 238 | 238 | 237 | 235 | 255 | 348 | 258 | 280 | 294 | 301 |
| Turkmenistan | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | 378 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| Manufacturing (D) | 84 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| Total Goods (GTT) | 122 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |

Source: World Bank, Trade Costs Dataset. Online: <http://data.worldbank.org/data-catalog/trade-costs-dataset>, and UNESCAP, "ESCAP-World Bank Trade Cost Database.

Online: <http://artnet.unescap.org/databases.html#first>.

Table A.54: Afghanistan: Average of Nontariff Trade Costs

| | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|---|------|------|------|------|------|------|
| India | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | 118 | 133 | 161 | 178 | 166 | 182 |
| Manufacturing (D) | 227 | 232 | 185 | 228 | 180 | 173 |
| Total Goods (GTT) | 116 | 124 | 136 | 129 | 146 | 155 |
| Kazakhstan | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | n.a. | n.a. | 221 | 185 | 185 | 185 |
| Manufacturing (D) | 155 | 206 | 320 | 320 | 320 | 320 |
| Total Goods (GTT) | 171 | 234 | 180 | 168 | 168 | 168 |
| Kyrgyz Republic | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | 327 | n.a. | n.a. | n.a. | n.a. | n.a. |
| Total Goods (GTT) | 310 | n.a. | n.a. | n.a. | n.a. | n.a. |
| Pakistan | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | 103 | 99 | 109 | 99 | 116 | 121 |
| Manufacturing (D) | 59 | 64 | 69 | 69 | 73 | 77 |
| Total Goods (GTT) | 69 | 72 | 80 | 78 | 87 | 91 |

Source: World Bank, Trade Costs Dataset. Online: <http://data.worldbank.org/data-catalog/trade-costs-dataset>, and UNESCAP, "ESCAP-World Bank Trade Cost Database. Online: <http://artnet.unescap.org/databases.html#first>.

Table A.55: India: Average of Nontariff Trade Costs

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Afghanistan | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | 118 | 133 | 161 | 178 | 166 | 182 |
| Manufacturing (D) | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | 227 | 232 | 185 | 228 | 180 | 173 |
| Total Goods (GTT) | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | 116 | 124 | 136 | 129 | 146 | 155 |
| Kazakhstan | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | n.a. | n.a. | n.a. | n.a. | n.a. | 396 | 144 | 180 | 237 | 306 | 249 | 260 | 239 | 238 |
| Manufacturing (D) | 137 | 164 | 195 | 183 | 175 | 174 | 199 | 175 | 164 | 155 | 149 | 157 | 124 | 122 |
| Total Goods (GTT) | 139 | 169 | 207 | 192 | 180 | 183 | 169 | 180 | 174 | 166 | 157 | 174 | 139 | 139 |
| Kyrgyz Republic | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | n.a. | n.a. | 323 | 359 | 326 | 359 | 324 | 482 | 372 | 394 | 424 | 641 | 455 | 451 |
| Manufacturing (D) | 183 | 183 | 174 | 178 | 181 | 202 | 212 | 219 | 235 | 225 | 243 | 244 | 249 | 255 |
| Total Goods (GTT) | 211 | 213 | 203 | 208 | 209 | 232 | 243 | 256 | 268 | 259 | 274 | 286 | 287 | 289 |
| Pakistan | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | n.a. | n.a. | n.a. | 138 | 134 | 124 | 136 | 122 | 125 | 127 | 126 | 133 | 121 | 118 |
| Manufacturing (D) | n.a. | n.a. | n.a. | 148 | 105 | 108 | 95 | 104 | 113 | 121 | 115 | 120 | 122 | 118 |
| Total Goods (GTT) | n.a. | n.a. | n.a. | 138 | 113 | 113 | 106 | 111 | 119 | 128 | 123 | 130 | 127 | 124 |
| Tajikistan | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | n.a. | n.a. | 284 | 284 | 405 | 262 | 241 | 264 | 235 | 349 | 299 | 342 | 323 | 332 |
| Manufacturing (D) | n.a. | n.a. | 497 | 325 | 207 | 286 | 202 | 193 | 174 | 169 | 169 | 180 | 160 | 165 |
| Total Goods (GTT) | n.a. | n.a. | 526 | 207 | 207 | 207 | 200 | 206 | 187 | 185 | 186 | 207 | 186 | 194 |
| Turkmenistan | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | 566 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| Manufacturing (D) | 194 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| Total Goods (GTT) | 245 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| Uzbekistan | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | n.a. | 216 | 228 | 209 | 279 | 273 | 247 | 658 | 216 | 268 | 266 | 258 | 279 | 305 |
| Manufacturing (D) | n.a. | 196 | 160 | 148 | 130 | 141 | 152 | 177 | 155 | 176 | 183 | 147 | 157 | 156 |
| Total Goods (GTT) | n.a. | 179 | 182 | 162 | 153 | 162 | 170 | 192 | 158 | 184 | 188 | 165 | 170 | 169 |

Source: World Bank, Trade Costs Dataset. Online: <http://data.worldbank.org/data-catalog/trade-costs-dataset>, and UNESCAP, "ESCAP-World Bank Trade Cost Database. Online: <http://artnet.unescap.org/databases.html#first>.

Table A.56: Pakistan: Average of Nontariff Trade Costs

| | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|---|------|------|------|------|------|------|------|------|------|------|------|
| Afghanistan | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | n.a. | n.a. | n.a. | n.a. | n.a. | 103 | 99 | 109 | 99 | 116 | 121 |
| Manufacturing (D) | n.a. | n.a. | n.a. | n.a. | n.a. | 59 | 64 | 69 | 69 | 73 | 77 |
| Total Goods (GTT) | n.a. | n.a. | n.a. | n.a. | n.a. | 69 | 72 | 80 | 78 | 87 | 91 |
| India | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | 138 | 134 | 124 | 136 | 122 | 125 | 127 | 126 | 133 | 121 | 118 |
| Manufacturing (D) | 148 | 105 | 108 | 95 | 104 | 113 | 121 | 115 | 120 | 122 | 118 |
| Total Goods (GTT) | 138 | 113 | 113 | 106 | 111 | 119 | 128 | 123 | 130 | 127 | 124 |
| Kazakhstan | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | n.a. | n.a. | n.a. | n.a. | 274 | 307 | 361 | 428 | 447 | 465 | 485 |
| Manufacturing (D) | n.a. | 234 | 218 | 220 | 221 | 225 | 198 | 202 | 257 | 213 | 215 |
| Total Goods (GTT) | n.a. | 261 | 243 | 251 | 219 | 211 | 225 | 223 | 282 | 240 | 242 |
| Kyrgyz Republic | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | n.a. | n.a. | n.a. | n.a. | n.a. | 568 | 630 | 757 | 757 | 648 | 565 |
| Manufacturing (D) | 281 | 286 | 269 | 314 | 279 | 290 | 333 | 266 | 272 | 346 | 274 |
| Total Goods (GTT) | 334 | 327 | 318 | 379 | 338 | 344 | 377 | 303 | 310 | 382 | 278 |
| Tajikistan | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | n.a. | n.a. | 260 | 309 | 317 | 336 | n.a. | n.a. | n.a. | n.a. | n.a. |
| Manufacturing (D) | n.a. | n.a. | 231 | 268 | 348 | 329 | 242 | 261 | 367 | 279 | 286 |
| Total Goods (GTT) | n.a. | n.a. | 197 | 247 | 259 | 247 | 247 | 247 | 431 | 316 | 324 |
| Uzbekistan | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | n.a. | n.a. | 316 | 302 | 272 | 290 | 517 | 421 | 368 | 429 | 407 |
| Manufacturing (D) | n.a. | n.a. | 163 | 241 | 210 | 198 | 253 | 241 | 200 | 215 | 220 |
| Total Goods (GTT) | n.a. | n.a. | 194 | 196 | 194 | 216 | 290 | 212 | 231 | 243 | 249 |

Source: World Bank, Trade Costs Dataset. Online: <http://data.worldbank.org/data-catalog/trade-costs-dataset>, and UNESCAP, "ESCAP-World Bank Trade Cost Database.

Online: <http://artnet.unescap.org/databases.html#first>.

Table A.57: Kazakhstan: Average of Nontariff Trade Costs

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Afghanistan | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | 221 | 185 | 185 | 185 |
| Manufacturing (D) | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | 155 | 206 | 320 | 320 | 320 | 320 |
| Total Goods (GTT) | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | 171 | 234 | 180 | 168 | 168 | 168 |
| India | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | | | | | | 396 | 144 | 180 | 237 | 306 | 249 | 260 | 239 | 238 |
| Manufacturing (D) | 137 | 164 | 195 | 183 | 175 | 174 | 199 | 175 | 164 | 155 | 149 | 157 | 124 | 122 |
| Total Goods (GTT) | 139 | 169 | 207 | 192 | 180 | 183 | 169 | 180 | 174 | 166 | 157 | 174 | 139 | 139 |
| Kyrgyz Republic | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | 116 | 132 | 124 | 131 | 125 | 130 | 130 | 119 | 128 | 163 | 97 | 95 | 75 | 73 |
| Manufacturing (D) | 70 | 63 | 50 | 47 | 48 | 50 | 49 | 50 | 58 | 64 | 63 | 64 | 53 | 51 |
| Total Goods (GTT) | 83 | 79 | 66 | 64 | 65 | 67 | 68 | 66 | 72 | 81 | 75 | 75 | 60 | 58 |
| Pakistan | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | 274 | 307 | 361 | 428 | 447 | 465 | 485 |
| Manufacturing (D) | n.a. | n.a. | n.a. | n.a. | 234 | 218 | 220 | 221 | 225 | 198 | 202 | 257 | 213 | 215 |
| Total Goods (GTT) | n.a. | n.a. | n.a. | n.a. | 261 | 243 | 251 | 219 | 211 | 225 | 223 | 282 | 240 | 242 |
| Tajikistan | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | n.a. | n.a. | n.a. | n.a. | 184 | 96 | 97 | 92 | 145 | 149 | 109 | 95 | 82 | 81 |
| Manufacturing (D) | n.a. | n.a. | n.a. | n.a. | 96 | 100 | 101 | 94 | 104 | 113 | 121 | 121 | 123 | 124 |
| Total Goods (GTT) | n.a. | n.a. | n.a. | n.a. | 106 | 93 | 90 | 89 | 115 | 123 | 111 | 96 | 87 | 86 |
| Uzbekistan | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | n.a. | n.a. | n.a. | n.a. | 166 | 141 | 124 | 115 | 145 | 166 | 113 | 87 | 84 | 81 |
| Manufacturing (D) | n.a. | n.a. | n.a. | n.a. | 65 | 68 | 70 | 57 | 56 | 79 | 69 | 73 | 68 | 66 |
| Total Goods (GTT) | n.a. | n.a. | n.a. | n.a. | 84 | 87 | 84 | 69 | 69 | 93 | 79 | 76 | 72 | 70 |

Source: World Bank, Trade Costs Dataset. Online: <http://data.worldbank.org/data-catalog/trade-costs-dataset>, and UNESCAP, "ESCAP-World Bank Trade Cost Database. Online: <http://artnet.unescap.org/databases.html#first>.

Table A.58: Kyrgyzstan: Average of Nontariff Trade Costs

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Afghanistan | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | 327 | n.a. | n.a. | n.a. | n.a. | n.a. |
| Total Goods (GTT) | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | 310 | n.a. | n.a. | n.a. | n.a. | n.a. |
| India | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | n.a. | n.a. | 323 | 359 | 326 | 359 | 324 | 482 | 372 | 394 | 424 | 641 | 455 | 451 |
| Manufacturing (D) | 183 | 183 | 174 | 178 | 181 | 202 | 212 | 219 | 235 | 225 | 243 | 244 | 249 | 255 |
| Total Goods (GTT) | 211 | 213 | 203 | 208 | 209 | 232 | 243 | 256 | 268 | 259 | 274 | 286 | 287 | 289 |
| Kazakhstan | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | 116 | 132 | 124 | 131 | 125 | 130 | 130 | 119 | 128 | 163 | 97 | 95 | 75 | 73 |
| Manufacturing (D) | 70 | 63 | 50 | 47 | 48 | 50 | 49 | 50 | 58 | 64 | 63 | 64 | 53 | 51 |
| Total Goods (GTT) | 83 | 79 | 66 | 64 | 65 | 67 | 68 | 66 | 72 | 81 | 75 | 75 | 60 | 58 |
| Pakistan | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | 568 | 630 | 757 | 748 | 648 | 565 |
| Manufacturing (D) | n.a. | n.a. | n.a. | 281 | 286 | 269 | 314 | 279 | 290 | 333 | 266 | 272 | 346 | 274 |
| Total Goods (GTT) | n.a. | n.a. | n.a. | 334 | 327 | 318 | 379 | 338 | 344 | 377 | 303 | 310 | 382 | 278 |
| Tajikistan | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | n.a. | n.a. | 232 | 222 | 355 | 309 | 345 | 381 | 307 | 341 | 274 | 230 | 184 | 184 |
| Manufacturing (D) | n.a. | n.a. | 99 | 96 | 93 | 107 | 114 | 123 | 122 | 124 | 130 | 132 | 129 | 129 |
| Total Goods (GTT) | n.a. | n.a. | 120 | 116 | 116 | 133 | 144 | 155 | 150 | 153 | 156 | 160 | 143 | 142 |
| Turkmenistan | | | | | | | | | | | | | | |
| Manufacturing (D) | 74 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| Total Goods (GTT) | 104 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| Uzbekistan | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | n.a. | 301 | 285 | 352 | 203 | 177 | 211 | 216 | 235 | 314 | 243 | 310 | 262 | 274 |
| Manufacturing (D) | n.a. | 71 | 75 | 85 | 74 | 81 | 92 | 88 | 90 | 93 | 107 | 109 | 112 | 117 |
| Total Goods (GTT) | n.a. | 102 | 109 | 121 | 104 | 111 | 123 | 118 | 117 | 117 | 131 | 133 | 131 | 136 |

Source: World Bank, Trade Costs Dataset. Online: <http://data.worldbank.org/data-catalog/trade-costs-dataset>, and UNESCAP, "ESCAP-World Bank Trade Cost Database. Online: <http://artnet.unescap.org/databases.html#first>.

Table A.59: Tajikistan: Average of Nontariff Trade Costs

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Afghanistan | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| Manufacturing (D) | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| Total Goods (GTT) | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| India | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | n.a. | n.a. | 284 | 284 | 405 | 262 | 241 | 264 | 235 | 349 | 299 | 342 | 572 | 332 |
| Manufacturing (D) | n.a. | n.a. | 497 | 325 | 207 | 286 | 202 | 193 | 174 | 169 | 169 | 180 | 160 | 165 |
| Total Goods (GTT) | n.a. | n.a. | 526 | 207 | 207 | 207 | 200 | 206 | 187 | 185 | 186 | 207 | 186 | 194 |
| Kazakhstan | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | n.a. | n.a. | n.a. | n.a. | 184 | 96 | 97 | 92 | 145 | 149 | 109 | 95 | 82 | 81 |
| Manufacturing (D) | n.a. | n.a. | n.a. | n.a. | 96 | 100 | 101 | 94 | 104 | 113 | 121 | 121 | 123 | 124 |
| Total Goods (GTT) | n.a. | n.a. | n.a. | n.a. | 106 | 93 | 90 | 89 | 115 | 123 | 111 | 96 | 87 | 86 |
| Kyrgyz Republic | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | n.a. | n.a. | 232 | 222 | 355 | 309 | 345 | 381 | 307 | 341 | 274 | 230 | 184 | 184 |
| Manufacturing (D) | n.a. | n.a. | 99 | 96 | 93 | 107 | 114 | 123 | 122 | 124 | 130 | 132 | 129 | 129 |
| Total Goods (GTT) | n.a. | n.a. | 120 | 116 | 116 | 133 | 144 | 155 | 150 | 153 | 156 | 160 | 143 | 142 |
| Pakistan | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | n.a. | n.a. | n.a. | n.a. | n.a. | 260 | 309 | 317 | 336 | n.a. | n.a. | n.a. | n.a. | n.a. |
| Manufacturing (D) | n.a. | n.a. | n.a. | n.a. | n.a. | 231 | 268 | 348 | 329 | 242 | 261 | 367 | 279 | 286 |
| Total Goods (GTT) | n.a. | n.a. | n.a. | n.a. | n.a. | 197 | 247 | 259 | 247 | 247 | 247 | 431 | 316 | 324 |

Source: World Bank, Trade Costs Dataset. Online: <http://data.worldbank.org/data-catalog/trade-costs-dataset>, and UNESCAP, "ESCAP-World Bank Trade Cost Database.

Online: <http://artnet.unescap.org/databases.html#first>.

Table A.60: Turkmenistan: Average of Nontariff Trade Costs

| | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| India | | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | 389 | 566 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| Manufacturing (D) | 214 | 194 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| Total Goods (GTT) | 244 | 245 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| Kyrgyz Republic | | | | | | | | | | | | | | | |
| Manufacturing (D) | n.a. | 74 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| Total Goods (GTT) | n.a. | 104 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |

Source: World Bank, Trade Costs Dataset. Online: <http://data.worldbank.org/data-catalog/trade-costs-dataset>, and UNESCAP, "ESCAP-World Bank Trade Cost Database.

Online: <http://artnet.unescap.org/databases.html#first>.

Table A.61: Uzbekistan: Average of Nontariff Trade Costs

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| India | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | n.a. | 216 | 228 | 209 | 279 | 273 | 247 | 658 | 216 | 268 | 266 | 258 | 279 | 305 |
| Manufacturing (D) | n.a. | 196 | 160 | 148 | 130 | 141 | 152 | 177 | 155 | 176 | 183 | 147 | 157 | 156 |
| Total Goods (GTT) | n.a. | 179 | 182 | 162 | 153 | 162 | 170 | 192 | 158 | 184 | 188 | 165 | 170 | 169 |
| Kazakhstan | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | n.a. | n.a. | n.a. | n.a. | 166 | 141 | 124 | 115 | 145 | 166 | 113 | 87 | 84 | 81 |
| Manufacturing (D) | n.a. | n.a. | n.a. | n.a. | 65 | 68 | 70 | 57 | 56 | 79 | 69 | 73 | 68 | 66 |
| Total Goods (GTT) | n.a. | n.a. | n.a. | n.a. | 84 | 87 | 84 | 69 | 69 | 93 | 79 | 76 | 72 | 70 |
| Kyrgyz Republic | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | n.a. | 301 | 285 | 352 | 203 | 177 | 211 | 216 | 235 | 314 | 243 | 310 | 262 | 274 |
| Manufacturing (D) | n.a. | 71 | 75 | 85 | 74 | 81 | 92 | 88 | 90 | 93 | 107 | 109 | 112 | 117 |
| Total Goods (GTT) | n.a. | 102 | 109 | 121 | 104 | 111 | 123 | 118 | 117 | 117 | 131 | 133 | 131 | 136 |
| Pakistan | | | | | | | | | | | | | | |
| Agriculture, hunting, forestry; fishing (A+B) | n.a. | n.a. | n.a. | n.a. | n.a. | 316 | 302 | 272 | 290 | 517 | 421 | 368 | 429 | 407 |
| Manufacturing (D) | n.a. | n.a. | n.a. | n.a. | n.a. | 163 | 241 | 210 | 198 | 253 | 241 | 200 | 301 | 220 |
| Total Goods (GTT) | n.a. | n.a. | n.a. | n.a. | n.a. | 194 | 196 | 194 | 216 | 290 | 212 | 231 | 243 | 249 |

Source: World Bank, Trade Costs Dataset. Online: <http://data.worldbank.org/data-catalog/trade-costs-dataset>, and UNESCAP, "ESCAP-World Bank Trade Cost Database.

Online: <http://artnet.unescap.org/databases.html#first>.

Table A.61: Potential Regional Value Chains for Industry Products having Two or More Countries with RCAs>1

| HS 6-digit | Description | Ranking | RCAs Intra- and Inter-Regional Imports | | | | | | | |
|---|---|---------|--|-----|-----|-----|------|-----|-----|------|
| | | | AF | IN | PK | KZ | KG | TA | TK | UZ |
| High-technology industries | | | | | | | | | | |
| Pharmaceuticals (2423) | | | | | | | | | | |
| 293990 | Vegetable alkaloids, salts, ethers, esters in bulk | 688 | | 6.6 | 0.0 | 0.0 | | | | 5.4 |
| 300590 | Dressings & similar articles, coated or package for md use, | 851 | 0.0 | 0.8 | 1.2 | 0.0 | 0.0 | 0.0 | | 1.0 |
| 293890 | Glycosides & their salts, ethers, esters & other derivatives | 1,999 | 0.0 | 1.1 | 0.0 | 0.2 | 0.0 | 2.5 | | 23.3 |
| AIRCRAFT AND SPACECRAFT (353) | | | | | | | | | | |
| 840710 | Aircraft engines, spark-ignition reciprocating or rotary type | 258 | | 4.8 | 4.2 | 0.0 | 2.5 | | | |
| 880212 | Helicopters of an un-laden weight > 2,000 kg | 382 | | 0.3 | 0.0 | 0.5 | 4.0 | | | |
| 880510 | Aircraft launching and deck-arrestor gear and parts thereof | 1,952 | | 2.8 | 1.6 | 0.0 | 0.5 | | | 0.3 |
| 841122 | Turbo-propellers of a power exceeding 1100 KW | 2,113 | | 0.1 | | 0.1 | 0.3 | | 0.0 | 2.2 |
| Office, accounting and computing machinery (30) | | | | | | | | | | |
| 847310 | Parts and accessories of typewriters, word processors | 2,021 | 8.1 | 1.0 | 0.0 | 0.0 | | | | 0.0 |
| Radio, TV and communications equipment (32) | | | | | | | | | | |
| 903300 | Parts/accessories nes for optical/electric instrument | 156 | | 2.4 | 0.0 | 0.0 | 10.6 | | | 0.0 |
| Medium-high-technology industries | | | | | | | | | | |
| Electrical machinery and apparatus (31) | | | | | | | | | | |
| 850211 | Generating sets, diesel, output < 75 kVA | 413 | 2.6 | 1.9 | 0.2 | | 0.2 | | | |
| 850423 | Liquid dielectric transformers > 10,000 KVA | 185 | | 2.2 | | 0.1 | | | 0.3 | 2.1 |
| 850730 | Nickel-cadmium electric accumulators | 1,180 | 1.8 | 0.9 | | | 0.0 | 6.8 | 0.0 | 0.0 |
| 853521 | Automatic circuit breakers for voltage 1-72.5 kV | 891 | | 1.8 | 0.1 | | 0.1 | | | 7.8 |
| 854511 | Carbon and graphite furnace electrodes | 165 | | 5.6 | | | 0.2 | 1.6 | | |
| 850161 | AC generators, of an output < 75 kVA | 1,189 | 1.0 | 1.0 | | 0.1 | 0.1 | 0.0 | 0.1 | 1.2 |
| Motor vehicles, trailers and semi-trailers (34) | | | | | | | | | | |
| 870321 | Automobiles, spark ignition engine of <1000 cc | 22 | | 6.2 | | 0.0 | 0.0 | | | 33.7 |
| 870290 | Buses except diesel powered | 603 | | 0.3 | 0.2 | 0.0 | 0.0 | 0.1 | | 1.7 |
| 870891 | Radiators for motor vehicles | 784 | | 0.4 | 0.1 | 0.0 | 18.5 | 1.2 | 0.0 | 0.0 |
| 860900 | Cargo containers designed for carriage | 809 | | 0.4 | 0.1 | 0.1 | 1.3 | 0.1 | 0.0 | 0.1 |
| Chemicals excluding pharmaceuticals (24 exclude 2423) | | | | | | | | | | |
| 390210 | Polypropylene in primary forms | 24 | 0.5 | 2.5 | 0.0 | 0.3 | 0.0 | 0.0 | 5.4 | 0.0 |
| 380810 | Insecticides, packaged for retail sale or formulated | 58 | 2.8 | 6.1 | 0.2 | 0.0 | | | 0.0 | 0.1 |

| HS 6-digit | Description | Ranking | RCAs Intra- and Inter-Regional Imports | | | | | | | |
|---|---|---------|--|------|------|------|-----|------|-----|------|
| | | | AF | IN | PK | KZ | KG | TA | TK | UZ |
| 310230 | Ammonium nitrate, whether or not in aqueous sol in pack weight > 10 k | 493 | | 0.1 | | 1.4 | 4.4 | | | 43.7 |
| 280519 | Alkali metals nes | 645 | | 38.5 | 0.0 | | | 3.8 | | |
| 281511 | Sodium hydroxide (caustic soda) solid | 724 | | 3.6 | 2.8 | 0.0 | | 0.0 | | 0.3 |
| 390750 | Alkyd resins, in primary forms | 762 | | 3.9 | 0.7 | | | 12.2 | | |
| 350300 | Gelatin and gelatin; isinglass; glues of animal origin, nes | 866 | | 2.0 | 2.6 | | 2.3 | | | |
| 280610 | Hydrogen chloride (hydrochloric acid) | 2,016 | | 1.4 | 9.8 | 0.1 | 1.3 | | | 1.4 |
| | Fertilizers containing nitrogen & phosphorus, nes, in pack weight</=10k | 2,324 | | 0.0 | 0.0 | 3.1 | 1.0 | | | 34.8 |
| 284150 | Chromates, dichromate, nes | 3,636 | | 2.4 | | 14.4 | | 8.3 | | |
| 260120 | Roasted iron pyrites | 4,177 | | 0.0 | 72.7 | 4.7 | | | | |
| Railroad equipment and transport equipment (352+359) | | | | | | | | | | |
| 860610 | Railway tank cars | 220 | 4.9 | 0.3 | 0.8 | 1.6 | 0.5 | | 0.7 | 8.1 |
| 860210 | Rail locomotives, diesel-electric | 312 | | 1.1 | | 1.3 | 0.2 | | | |
| 860110 | Rail locomotives, externally electrically powered | 475 | | 1.0 | | 2.5 | 1.5 | | | |
| Machinery and equipment (29) | | | | | | | | | | |
| 870410 | Dump trucks designed for off-highway use | 95 | 0.6 | 2.3 | 0.0 | 0.1 | 2.3 | 0.0 | 0.0 | 0.3 |
| 844520 | Textile yarn spinning machines | 462 | | 3.1 | 0.5 | | 0.1 | | | 1.6 |
| 847432 | Machines for mixing mineral substances with bitumen | 999 | 0.6 | 1.2 | 0.1 | 0.1 | 7.9 | | | |
| 844820 | Parts/access, machines for preparing manmade textiles | 1,244 | 0.2 | 4.6 | 1.1 | | | | | |
| 847751 | Pneumatic tire molding and retreading machinery, etc. | 2,032 | | 1.8 | 0.0 | 0.3 | | 2.6 | | 0.0 |
| 844512 | Textile fiber combing machines | 2,603 | | 2.3 | 0.3 | | 3.3 | | | |
| 844842 | Reeds, herald-frames for weaving looms | 2,790 | | 1.6 | 1.6 | | 0.0 | | | |
| Medium-low-technology industries | | | | | | | | | | |
| Building and repairing of ships and boats (351) | | | | | | | | | | |
| 890520 | Floating, submersible drilling or production platform | 26 | | 6.8 | 0.6 | 0.0 | | | | |
| 890590 | Floating docks, special function vessels nes | 27 | | 21.7 | 0.7 | 1.3 | | | | |
| 890400 | Tugs and pusher craft | 39 | | 15.3 | 0.3 | 2.2 | | | 0.2 | |
| 890600 | Warships, lifeboats, hospital ships and vessels nes | 131 | | 5.8 | 0.1 | 1.6 | | | 0.8 | |
| 890510 | Dredgers | 214 | | 12.4 | 5.6 | 0.1 | | | | |
| Rubber and plastics products (25) | | | | | | | | | | |
| 391721 | Tube, pipe or hose, rigid, of polyethylene | 627 | 2.6 | 1.4 | 1.2 | 0.6 | 0.5 | 1.2 | | 1.7 |

| HS 6-digit | Description | Ranking | RCAs Intra- and Inter-Regional Imports | | | | | | | |
|---|---|---------|--|------|-----|-----|------|------|------|-------|
| | | | AF | IN | PK | KZ | KG | TA | TK | UZ |
| 391890 | Floor/wall/ceiling cover, roll/tile not vinyl chloride | 1,211 | | 2.2 | 5.3 | 0.0 | 0.0 | 1.4 | 0.0 | |
| 391722 | Tube, pipe or hose, rigid, of polypropylene | 1,354 | 3.2 | 0.1 | 9.3 | 0.1 | 0.1 | | 0.0 | 0.1 |
| 401390 | Inner tubes of rubber except bicycle or motor vehicle | 1,523 | 0.0 | 2.8 | 2.3 | 0.0 | 0.1 | | | |
| Coke, refined petroleum, manuf of gas, electricity | | | | | | | | | | |
| Crude oil and gas (10+11) | | | | | | | | | | |
| 271000 | Oils petroleum, bituminous, distillates, except crude | 1 | | 3.9 | 0.6 | 0.7 | 1.0 | 0.3 | 1.8 | 1.3 |
| 270119 | Coal nes, whether or not pulverized but not agglomerated | 80 | 24.4 | 0.3 | 0.0 | 4.7 | 0.5 | 0.0 | | 0.0 |
| 271121 | Natural gas in gaseous state | 120 | | 0.0 | | 1.8 | | 0.0 | 41.0 | 6.9 |
| 271312 | Petroleum coke | 394 | | 2.3 | 0.0 | 0.0 | | | 3.2 | 5.1 |
| 271210 | Petroleum jelly | 984 | 8.9 | 7.6 | 0.0 | 0.0 | | | | |
| 271290 | Mineral waxes nes and similar products obtained by synthesis etc. | 2,029 | 0.1 | 0.3 | 0.0 | 0.0 | | | 1.4 | 22.1 |
| 270500 | Coal gas, water gas, etc., o/than petroleum gases & gaseous hydrocarbon | 3,756 | | 3.5 | 0.2 | | | 21.8 | 1.1 | 158.8 |
| Petroleum and other energy manufactures (23+40) | | | | | | | | | | |
| 271119 | Petroleum gases and other gaseous hydrocarbons nes, liquefied | 259 | 1.2 | 1.1 | 0.0 | 3.2 | | | 0.0 | |
| 271220 | Paraffin wax containing by weight less than 0.75% of oil | 1,888 | 0.1 | 0.5 | 0.1 | 0.0 | | | | 0.2 |
| Other non-metallic mineral products (26) | | | | | | | | | | |
| 680221 | Cut or sawn slabs of marble, travertine or alabaster | 651 | 1.1 | 2.9 | 1.8 | 0.0 | 0.2 | | | 0.5 |
| 691090 | Ceramic bathroom kitchen sanitary items not porcelain | 714 | | 1.5 | 1.7 | 0.0 | 0.0 | 0.0 | | 0.0 |
| 700529 | Float glass etc. in sheets, non-wired, clear | 804 | | 0.0 | 1.1 | 0.0 | 26.8 | 0.3 | | 0.0 |
| 681190 | Articles nes, of asbestos or cellulose fiber cement | 961 | | 2.2 | 1.1 | 7.5 | 66.6 | 0.0 | | 6.2 |
| 690390 | Refractory ceramic articles nes | 1,349 | | 1.6 | 0.0 | 0.0 | 2.9 | | | |
| 680911 | Plaster board etc. not ornamental, paper reinforced | 1,412 | | 0.0 | 0.3 | 1.9 | 0.0 | | | 14.4 |
| 690710 | Unglazed ceramic mosaic tiles etc., <7cm wide | 1,686 | 1.2 | 4.7 | 2.1 | 0.0 | 0.2 | | 0.1 | |
| 690410 | Building bricks | 1,699 | | 0.0 | 0.8 | 0.0 | 6.0 | | | 22.1 |
| 680229 | Cut or sawn slabs of stone nes | 2,331 | 0.4 | 1.9 | 0.6 | 0.0 | 2.2 | | | 0.1 |
| 681270 | Compressed asbestos fiber jointing, in sheets, rolls | 2,349 | | 18.5 | 0.0 | 0.6 | 61.8 | | 0.1 | |
| 681410 | Mica plates, sheets and strips | 2,468 | 0.3 | 1.6 | | 3.8 | | 0.3 | | |
| 681490 | Worked mica and articles of mica except sheet mica | 2,981 | 29.5 | 4.1 | 0.0 | 0.0 | 0.0 | | | |
| 691190 | Household & toilet articles nes of porcelain or china | 3,165 | 0.0 | 0.6 | 1.8 | 0.0 | 2.5 | 0.0 | | 0.1 |
| 681260 | Asbestos paper, millboard and felt | 3,891 | | 5.0 | | | 48.1 | | | |
| Basic metals and fabricated metal products (27+28) | | | | | | | | | | |

| HS 6-digit | Description | Ranking | RCAs Intra- and Inter-Regional Imports | | | | | | | |
|------------|---|---------|--|------|------|-------|------|-------|-----|-------|
| | | | AF | IN | PK | KZ | KG | TA | TK | UZ |
| 721049 | Flat rolled iron or non-alloy steel, coated with zinc, width >600mm, ne | 33 | 0.1 | 2.2 | 0.1 | 2.9 | 0.1 | 0.0 | | |
| 720230 | Ferro-silicon-manganese | 50 | 0.1 | 14.8 | | 15.1 | | | | |
| 720241 | Ferro-chromium, >4% carbon | 57 | | 7.6 | | 63.1 | | | | |
| 760110 | Aluminum unwrought, not alloyed | 69 | | 1.6 | | 3.6 | | 198.5 | 0.3 | 0.0 |
| 720719 | Semi-finished product, iron or non-alloy steel <0.25%C, nes | 205 | | 6.0 | | 1.3 | | | | |
| 780110 | Lead refined unwrought | 339 | | 1.7 | 2.1 | 15.0 | 0.9 | 0.2 | | |
| 760120 | Aluminum unwrought, alloyed | 418 | 0.1 | 0.3 | | 0.1 | 0.5 | 20.6 | | 0.0 |
| 721650 | Sections, nes, iron or non-alloy steel, nfw hot-roll/drawn/extruded | 506 | | 0.5 | 0.1 | 0.1 | 4.6 | | | 2.1 |
| 721631 | Sections, U, iron or non-alloy steel, nfw hot-roll/drawn/extruded > 80m | 702 | | 0.2 | 0.1 | 0.0 | 5.4 | 10.0 | | 2.1 |
| 720720 | Semi-finished product, iron or non-alloy steel >0.25%C | 884 | | 0.1 | | 18.1 | 2.2 | | | |
| 821220 | Safety razor blades, including blanks in strips | 944 | 0.0 | 1.3 | 2.3 | 0.0 | | | | 0.0 |
| 741820 | Sanitary ware and parts thereof of copper | 1,039 | 0.1 | 4.8 | 7.2 | 0.0 | | | | |
| 820320 | Pliers, pincers, tweezers and similar tools | 1,177 | 0.1 | 1.1 | 1.3 | 0.0 | 2.6 | | | |
| 720990 | Cold rolled iron or non-alloy steel, flat, width >600mm, nes | 1,228 | 6.7 | 1.4 | | 1.5 | 0.0 | | | 0.0 |
| 790112 | Zinc, not alloyed, unwrought, <99% pure | 1,249 | | 0.6 | 0.2 | 2.7 | | | | 104.4 |
| 720299 | Ferro-alloys, nes | 1,383 | 79.2 | 2.4 | | 0.2 | 0.0 | | | |
| 780191 | Lead unwrought containing mostly antimony | 1,463 | | 2.3 | | 0.2 | | | | 1.9 |
| 741012 | Foil, copper alloy, not backed, t < 0.15mm | 2,099 | | 0.5 | | 0.7 | 4.4 | 0.2 | | 8.9 |
| 810199 | Tungsten (wolfram) and articles thereof nes | 2,223 | | 1.9 | | 0.0 | 0.1 | | | 11.5 |
| 820190 | Scythes, sickles etc. used in agriculture, etc. | 2,232 | | 1.8 | 0.6 | 0.0 | 19.3 | 0.1 | | |
| 810191 | Tungsten unwrought, bars/rods simply sintered, scrap | 2,361 | | 1.4 | | 2.5 | | | | 8.2 |
| 760320 | Powders/flakes, aluminum, of lamellar structure | 2,415 | | 3.6 | | 1.4 | | | | |
| 740322 | Copper-tin base alloys, unwrought | 2,639 | | 0.9 | 0.6 | 6.0 | | | | 1.2 |
| 740500 | Master alloys of copper | 2,735 | | 1.7 | 41.2 | 27.9 | 0.2 | | | |
| 720249 | Ferro-chromium, <4% carbon | 2,751 | | 0.2 | | 37.1 | 8.2 | 0.6 | | |
| 720250 | Ferro-silicon-chromium | 2,754 | | 2.0 | | 215.1 | | | | |
| 760529 | Wire, aluminum alloy, t < 7mm | 2,775 | | 1.0 | 0.0 | 0.0 | | 36.3 | | |
| 820510 | Drilling, threading or tapping tools | 2,814 | 0.3 | 1.4 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 741910 | Chain and parts thereof of copper | 3,104 | | 4.8 | 0.1 | 0.0 | | | | |
| 810291 | Molybdenum, unwrought, bars/rods simply sintered, scrap | 3,467 | | 0.0 | | 2.1 | | | | 47.0 |
| 780420 | Lead powders and flakes | 3,931 | | 2.0 | 0.0 | 1.7 | 6.9 | | | |

| HS 6-digit | Description | Ranking | RCAs Intra- and Inter-Regional Imports | | | | | | | |
|---|---|---------|--|-------|-------|------|------|-------|-----|------|
| | | | AF | IN | PK | KZ | KG | TA | TK | UZ |
| 810710 | Cadmium, unwrought, waste or scrap, powders | 4,637 | | 0.0 | | 12.4 | | | | 52.0 |
| Low-technology industries | | | | | | | | | | |
| Manufacturing i.e., of which: [NO] | | | | | | | | | | |
| Mineral (ISIC 12) | | | | | | | | | | |
| | Iron ores & concentrates, other than roasted iron pyrites, non-agglomerated | 9 | | 1.5 | 0.0 | 1.3 | 0.0 | | 0.0 | 0.0 |
| 261690 | Precious metal ores and concentrates nes | 332 | | 0.7 | 0.0 | 2.7 | 71.1 | 0.0 | | 0.0 |
| 260800 | Zinc ores and concentrates | 344 | | 0.7 | 0.0 | 4.8 | | 15.6 | | |
| 251110 | Natural barium sulfur | 365 | | 11.6 | 2.2 | 7.0 | 15.4 | 0.0 | 0.1 | |
| | Salt (include table salt & denatured salt) pure sodium chloride & sea | 559 | 2.5 | 1.5 | 1.8 | 0.2 | 0.0 | 0.1 | 0.0 | 0.1 |
| 261000 | Chromium ores and concentrates | 638 | 1.7 | 1.7 | 22.8 | 18.8 | | | | |
| 251690 | Monumental or building stone nes, porphyry and basalt | 746 | 0.5 | 26.1 | 0.0 | 0.0 | 64.2 | | | 0.2 |
| 252400 | Asbestos | 1,086 | | 0.0 | 0.0 | 19.7 | 5.0 | | | |
| | Limestone flux; limestone & other calcareous stone, for lime or cement | 1,108 | | 3.9 | 0.1 | 2.3 | 25.6 | 0.0 | | 0.1 |
| 260300 | Copper ores and concentrates | 1,123 | | 0.0 | 0.0 | 2.7 | 0.0 | 1.8 | | 0.0 |
| 251512 | Marble and travertine in blocks etc. | 1,149 | 3.6 | 1.3 | 12.8 | 0.0 | 1.6 | | | 0.1 |
| 710310 | Precious or semi-precious stones, unworked or partly worked | 1,166 | 46.7 | 2.9 | 2.9 | 0.2 | 0.7 | 0.0 | | 0.0 |
| 262100 | Slag and ash nes, including seaweed ash (kelp) | 1,326 | | 3.6 | 0.4 | 3.4 | 0.0 | 0.1 | | |
| 251400 | Slate | 1,579 | | 15.4 | 0.4 | 4.0 | 76.5 | 0.6 | | 0.0 |
| 252620 | Natural steatite, crushed or powdered | 1,789 | | 1.3 | 5.2 | 0.0 | | | | 0.0 |
| 252610 | Natural steatite, not crushed/powdered | 1,865 | 15.0 | 2.5 | 177.1 | | | | | |
| 252530 | Mica waste | 2,126 | | 281.5 | 7.7 | | | | | |
| | Diamonds industrial unworked or simply sawn, cleaved or brute | 2,350 | 1.5 | 2.3 | | | | | | |
| 250629 | Quartzite, slabs etc. | 2,379 | 0.4 | 2.8 | 0.1 | 69.4 | 0.3 | 0.1 | | 0.0 |
| 261710 | Antimony ores and concentrates | 2,780 | 9.4 | 0.0 | 0.6 | 2.9 | 0.8 | 107.3 | | |
| 252510 | Mica crude or rifted into sheets or splitting | 2,880 | 4.6 | 4.6 | 1.6 | | | | | |
| 252010 | Gypsum; anhydrite | 3,270 | 12.6 | 0.1 | 7.6 | 0.2 | 0.0 | 0.1 | | 0.2 |
| 261790 | ores and concentrates nes | 3,477 | | 0.5 | 0.3 | 10.8 | 11.3 | 0.2 | | 0.0 |
| 251511 | Marble and travertine, crude or roughly trimmed | 3,601 | 18.5 | 0.0 | 4.6 | 0.0 | 0.9 | | | 0.2 |
| 253010 | Vermiculite, perlite and chlorites, unexpanded | 3,822 | | 0.1 | 0.0 | 2.9 | | | | 1.7 |

| HS 6-digit | Description | Ranking | RCAs Intra- and Inter-Regional Imports | | | | | | | |
|---|---|---------|--|------|-------|-----|------|------|------|------|
| | | | AF | IN | PK | KZ | KG | TA | TK | UZ |
| 252921 | Fluorspar, containing by weight 97% or less of calcium fluoride | 3,914 | 0.1 | 0.0 | 3.8 | 1.8 | 0.7 | | | |
| 251520 | Ecaussine & other calcareous monumental or building stone; alabaster | 3,988 | 22.1 | 0.5 | 10.0 | 0.2 | 0.6 | | | |
| Processing and manufacturing (36-37) | | | | | | | | | | |
| 711319 | Jewelry and parts of precious metal except silver | 3 | 0.1 | 15.8 | 9.3 | 0.0 | 0.4 | 0.0 | 0.0 | 0.6 |
| 711419 | Gold/silversmith wares of/clad with precious metal ne | 44 | | 68.1 | 0.0 | 0.0 | 1.8 | | | |
| 711311 | Jewelry and parts, silver, including plated silver | 61 | 0.1 | 6.8 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 670300 | Worked human hair, wool or animal hair, for wig making | 224 | | 27.0 | 0.0 | | 0.1 | 1.1 | | 3.7 |
| 710391 | Rubies, sapphires and emeralds worked but not set | 257 | | 5.2 | 0.0 | 0.0 | | 2.6 | 0.1 | 0.0 |
| 630900 | Worn clothing and other worn articles | 266 | 0.6 | 1.5 | 2.2 | 0.0 | 0.2 | 0.2 | 0.0 | 0.1 |
| 710399 | Precious & semi-precious stones, nes, worked, not set | 304 | 0.8 | 4.7 | 0.1 | 0.0 | | 6.2 | 0.0 | 0.1 |
| 960200 | Worked vegetable, mineral carving material, articles | 707 | 0.3 | 5.0 | 7.5 | 0.0 | 0.0 | 0.0 | | 0.0 |
| 360500 | Matches | 799 | 0.0 | 14.1 | 67.5 | 0.0 | | 0.1 | | 0.2 |
| 940429 | Mattresses, stuffed, spring interior, etc. | 987 | 0.1 | 1.4 | 0.1 | 0.0 | 3.2 | 0.0 | 0.0 | 0.2 |
| 950662 | Inflatable balls | 1,379 | 0.0 | 1.5 | 81.2 | 0.0 | 0.0 | 0.5 | | 0.1 |
| 950669 | Balls nes | 1,453 | 0.0 | 3.7 | 21.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 711411 | Silver wares, silver ware plated with precious metal | 1,613 | 1.1 | 4.6 | 6.9 | 0.0 | | | | 2.4 |
| 420321 | Leather, composition sports gloves, mittens and mitts | 1,766 | 0.1 | 2.2 | 133.0 | 0.0 | 0.0 | | | |
| 631010 | Used or new rags textile material, sorted | 2,385 | 3.9 | 1.8 | 5.5 | 0.0 | 0.2 | | 0.2 | 1.0 |
| 960190 | Animal carving material, articles, nes | 2,426 | 0.0 | 5.0 | 9.2 | 0.0 | 0.0 | 0.0 | | 0.0 |
| 631090 | Used or new rags textile material, not sorted | 2,589 | 0.2 | 1.2 | 35.2 | 0.0 | 0.0 | 1.3 | 2.3 | 1.9 |
| 960310 | Brooms/brushes of vegetable material | 2,783 | 0.1 | 0.8 | 0.6 | 0.0 | 0.9 | 16.2 | | 88.0 |
| 960860 | Refills for ball point pens | 3,000 | | 1.4 | 0.0 | 0.0 | 14.9 | | | |
| 960850 | Sets of articles of mixed types of pens/pencils | 3,190 | 10.7 | 0.0 | | 0.0 | 5.3 | | | |
| 920992 | Parts and accessories for string musical instruments | 3,252 | 2.1 | 1.1 | 0.5 | 0.0 | | 0.0 | | |
| Wood, pulp, paper, paper products | | | | | | | | | | |
| Forest Products (02) | | | | | | | | | | |
| 130232 | Mucilages & thickeners derived from locust beans & seeds or guar seed | 15 | 0.2 | 67.7 | 23.8 | 0.0 | 0.0 | | | |
| | Natural gums, resins, gum-resins and balsam, except Arabic | | | | | | | | | |
| 130190 | gum | 460 | 160.2 | 16.1 | 0.6 | 0.2 | 0.3 | 11.9 | | 14.9 |
| 140490 | Vegetable products nes | 1,046 | 14.7 | 2.4 | 3.3 | 0.0 | 0.2 | 0.2 | 0.3 | 0.4 |
| 130211 | Opium sap | 1,751 | 1.4 | 36.4 | | | | | | |
| 130212 | Liquorice extract | 4,371 | 5.9 | 0.1 | 0.4 | 0.6 | 0.4 | 55.3 | 53.9 | 7.1 |

| HS 6-digit | Description | Ranking | RCAs Intra- and Inter-Regional Imports | | | | | | | |
|---|---|---------|--|------|------|-----|-------|------|------|------|
| | | | AF | IN | PK | KZ | KG | TA | TK | UZ |
| Wood Processing (20-22) | | | | | | | | | | |
| 482020 | School, etc., exercise books | 872 | 0.0 | 5.2 | 0.1 | 0.0 | 1.2 | | | |
| 482090 | Office supplies nes, of paper, book covers, blotters | 2,478 | 1.1 | 1.1 | 0.1 | 0.0 | 0.3 | 0.1 | | |
| Food products | | | | | | | | | | |
| Agricultural and Fishery Products (01+05) | | | | | | | | | | |
| 520100 | Cotton, not carded or combed | 8 | 73.9 | 10.9 | 8.5 | 0.9 | 10.7 | 68.4 | 15.2 | 96.8 |
| 120220 | Ground-nuts shelled, whether or not broken, not roasted or otherwise cooked | 75 | 0.8 | 18.4 | 0.0 | 0.0 | 0.2 | 7.6 | | 7.1 |
| 120740 | Sesame seeds, whether or not broken | 101 | 45.5 | 14.6 | 7.6 | 0.0 | | 0.4 | 0.0 | 1.1 |
| 70310 | Onions and shallots, fresh or chilled | 107 | 85.3 | 9.2 | 4.8 | 0.4 | 16.6 | 90.9 | 0.1 | 0.9 |
| 71320 | Chickpeas, dried, shelled | 154 | 2.7 | 14.4 | 0.0 | 0.2 | 0.0 | 0.9 | | 0.9 |
| 100110 | Durum wheat | 175 | | 1.5 | 10.1 | 1.0 | | | 0.0 | 2.4 |
| 70200 | Tomatoes, fresh or chilled | 282 | 4.7 | 0.4 | 0.4 | 0.0 | 2.0 | 0.2 | 0.2 | 11.5 |
| 80450 | Guavas, mangoes and mangosteen, fresh or dried | 299 | 0.0 | 6.7 | 14.2 | | | | | |
| 80610 | Grapes, fresh | 308 | 33.4 | 1.0 | 0.0 | 0.0 | 2.0 | 1.6 | 0.2 | 26.8 |
| 121190 | Plants & pts of plants(incl seed & fruit) used in pharm, perf, insect e | 322 | 86.5 | 4.9 | 3.5 | 0.8 | 2.8 | 2.8 | 3.8 | 11.4 |
| 90930 | Cumin seeds | 330 | 48.7 | 44.1 | 7.7 | 0.0 | | 0.1 | 0.0 | 0.0 |
| 91030 | Turmeric (curcuma) | 410 | 0.6 | 56.0 | 3.8 | | | | | 0.1 |
| 70190 | Potatoes, fresh or chilled except seed | 464 | 28.7 | 0.5 | 15.6 | 0.0 | 26.4 | 0.1 | 0.0 | 0.0 |
| 91099 | Spices nes | 481 | 0.7 | 12.1 | 10.2 | 0.1 | 0.0 | 0.3 | 0.0 | 0.1 |
| 70990 | Vegetables, fresh or chilled nes | 500 | 0.4 | 1.5 | 6.0 | 0.0 | 2.3 | 0.1 | 0.0 | 22.9 |
| 80810 | Apples, fresh | 560 | 14.9 | 0.1 | 0.0 | 0.0 | 9.0 | 0.1 | 0.1 | 1.1 |
| 81090 | Fruits, fresh nes | 566 | 18.4 | 0.6 | 0.9 | 0.0 | 3.3 | 3.9 | 0.0 | 24.5 |
| 71310 | Peas dried, shelled | 582 | 2.3 | 0.0 | 1.1 | 0.3 | 0.0 | 0.1 | | 0.1 |
| 240110 | Tobacco, unmanufactured, not stemmed or stripped | 594 | 1.9 | 2.1 | 1.9 | 0.3 | 46.8 | 3.0 | | 17.9 |
| 100610 | Rice in the husk (paddy or rough) | 634 | 1.3 | 2.9 | 0.7 | 0.0 | 0.1 | 0.3 | | 0.0 |
| 40900 | Honey, natural | 750 | 0.0 | 2.3 | 1.8 | 0.0 | 5.0 | 0.4 | | 0.3 |
| 70320 | Garlic, fresh or chilled | 934 | 0.0 | 0.3 | 0.1 | 0.0 | 3.5 | 0.5 | 0.0 | 1.5 |
| 71333 | Kidney beans and white pea beans dried shelled | 998 | 0.9 | 0.0 | | 0.0 | 225.6 | 5.4 | | 8.1 |
| 80232 | Walnuts, fresh or dried, shelled | 1,034 | 4.8 | 2.3 | 0.1 | 0.1 | 42.0 | 28.5 | | 18.4 |
| 90920 | Coriander seeds | 1,096 | 4.4 | 19.9 | 0.8 | 0.1 | 0.0 | 0.0 | | 0.1 |
| 91091 | Mixtures of spices | 1,129 | 1.1 | 7.0 | 51.0 | 0.0 | 0.0 | 0.1 | | 0.1 |
| 71390 | Leguminous vegetables dried, shelled | 1,143 | 29.1 | 0.3 | 0.8 | 0.0 | | 0.3 | | 4.4 |

| HS 6-digit | Description | Ranking | RCAs Intra- and Inter-Regional Imports | | | | | | | |
|------------|---|---------|--|------|-------|------|-------|------|-----|-------|
| | | | AF | IN | PK | KZ | KG | TA | TK | UZ |
| 100820 | Millet | 1,206 | 11.6 | 12.9 | 0.2 | 0.2 | 0.4 | | | 0.0 |
| 120999 | Seeds, fruit and spores for sowing, nes | 1,419 | 48.7 | 2.2 | 0.5 | 0.0 | 0.2 | 7.1 | | 0.0 |
| 30624 | Crabs, not frozen | 1,422 | 0.1 | 2.4 | 10.6 | | | | | |
| 80910 | Apricots, fresh | 1,452 | 129.5 | 0.0 | 0.4 | 0.0 | 126.8 | 23.9 | 0.1 | 178.6 |
| 120799 | oil seeds and oleaginous fruits, nes, whether or not broken | 1,459 | 34.5 | 2.1 | 1.3 | 0.4 | 0.1 | 0.5 | | 0.0 |
| 30219 | Salmonidae, not trout or salmon, fresh or chilled whole | 1,476 | | 7.2 | 6.6 | | | | | |
| 80930 | Peaches, nectarines, fresh | 1,498 | 0.1 | 0.0 | 0.1 | 0.0 | 11.7 | 0.1 | | 27.3 |
| 70700 | Cucumbers and gherkins, fresh or chilled | 1,623 | 0.0 | 0.0 | 0.0 | 0.1 | 4.0 | 0.2 | 0.2 | 17.3 |
| 90950 | Fennel seeds, juniper berries | 1,708 | 2.9 | 35.7 | 21.8 | | | | | 0.1 |
| 80940 | Plums, sloes, fresh | 1,760 | 0.4 | 0.0 | 0.1 | 0.0 | 21.6 | 7.4 | | 50.9 |
| 80410 | Dates, fresh or dried | 1,796 | 36.9 | 0.2 | 50.6 | 0.1 | 0.0 | 0.2 | 0.0 | 0.0 |
| 80920 | Cherries, fresh | 1,829 | 0.2 | 0.0 | 0.0 | 0.0 | 24.9 | 4.5 | | 44.2 |
| 70490 | Edible brassicas nes, fresh or chilled | 1,845 | 0.0 | 0.1 | 0.1 | 0.2 | 17.7 | 3.0 | 0.1 | 31.7 |
| 71339 | Beans dried, shelled, nes | 1,853 | 258.1 | 0.1 | 0.3 | 0.0 | 3.5 | 3.4 | | 17.0 |
| 70690 | Beetroot, salsify, celeriac, radishes etc. fresh, chilled | 1,944 | 1.9 | 0.1 | 0.2 | 0.0 | 4.2 | 10.0 | 0.3 | 64.1 |
| 10290 | Bovine animals, live, except pure-bred breeding | 2,034 | 3.2 | 0.0 | 0.7 | 0.0 | 3.8 | 1.6 | | 0.0 |
| 80590 | Citrus fruits, fresh or dried, nes | 2,038 | 0.0 | 1.9 | 113.8 | 0.0 | 1.2 | | 0.0 | |
| 120210 | Ground-nuts in shell not roasted or otherwise cooked | 2,064 | 2.3 | 1.2 | 0.8 | 0.1 | 0.1 | 24.4 | | 18.9 |
| 80820 | Pears and quinces, fresh | 2,072 | 0.2 | 0.0 | 0.1 | 0.0 | 7.6 | 0.1 | | 2.0 |
| 70610 | Carrots and turnips, fresh or chilled | 2,145 | 2.0 | 0.0 | 0.0 | 0.0 | 51.2 | 10.7 | 0.0 | 12.5 |
| 10420 | Goats, live | 2,369 | 0.2 | 2.6 | 1.8 | 0.0 | 9.4 | | | |
| 410390 | Raw hide/skins except bovine/equine/sheep/goat/reptile | 2,410 | 9.5 | 0.1 | 0.1 | 0.1 | 5.7 | 3.5 | 2.1 | 0.0 |
| 90910 | Anise or badian seeds | 2,417 | 345.8 | 4.5 | 5.1 | | 0.7 | 1.6 | | 0.0 |
| 60220 | Trees, edible fruit or nut, shrubs and bushes | 2,418 | 0.1 | 0.0 | 0.0 | 0.0 | 1.6 | | | 5.4 |
| 120921 | Seeds, lucerne (alfalfa), for sowing | 2,642 | 13.2 | 1.0 | 2.9 | 0.1 | 11.5 | | | 0.1 |
| 70930 | Aubergines(egg-plants), fresh or chilled | 2,820 | 0.0 | 0.0 | 0.0 | 0.0 | 1.9 | 0.0 | 0.2 | 19.5 |
| 120760 | Safflower seeds, whether or not broken | 2,902 | | 25.1 | | 61.5 | | | | |
| 60240 | Roses | 3,160 | | 0.9 | 0.1 | 0.3 | 1.6 | | | 27.0 |
| 10600 | Animals, live, except farm animals | 3,320 | 2.0 | 0.0 | 0.7 | 0.0 | 0.6 | 1.2 | 0.0 | 6.8 |
| 71331 | Urd, mung, black or green gram beans dried shelled | 3,603 | 85.7 | 0.1 | 0.2 | 0.0 | 0.4 | 2.7 | 0.1 | 34.8 |
| 90940 | Caraway seeds | 3,629 | 199.9 | 3.6 | 10.0 | | 19.4 | 2.3 | | 0.9 |
| 121299 | Vegetable products nes used primarily for human consumption | 3,712 | 69.6 | 0.1 | 0.1 | 0.0 | 0.3 | 13.1 | | 3.2 |
| 80231 | Walnuts in shell, fresh or dried | 3,918 | 1.9 | 0.0 | 0.2 | 0.0 | 7.7 | 3.8 | | 13.2 |
| 70890 | Legumes except peas & beans, fresh or chilled | 4,049 | 0.7 | 0.3 | 6.6 | 0.1 | | | | 1.1 |

| HS 6-digit | Description | Ranking | RCAs Intra- and Inter-Regional Imports | | | | | | | |
|--------------------------------|--|---------|--|------|------|------|-----|-------|------|-------|
| | | | AF | IN | PK | KZ | KG | TA | TK | UZ |
| 70390 | Leeks & other alliaceous vegetables, fresh or chilled | 4,118 | 0.1 | 0.0 | 0.4 | 0.0 | 1.1 | | 0.1 | 5.7 |
| 530110 | Flax fiber, raw or retted | 4,223 | | 2.9 | | 2.7 | | | | |
| 510220 | Coarse animal hair, not carded or combed | 4,267 | 830.5 | 0.6 | 4.9 | 0.6 | 5.5 | 51.8 | 93.4 | 116.7 |
| 121010 | Hop cones, not ground, powdered or pelleted | 4,374 | 28.3 | 0.0 | 9.2 | | | | | |
| 71332 | Beans, small red (Adzuki) dried, shelled | 4,389 | 4.8 | 0.0 | | | 4.4 | 2.8 | | 21.8 |
| 510210 | Fine animal hair, not carded or combed | 4,411 | 150.3 | 0.0 | 0.6 | 0.0 | 1.5 | 0.0 | 0.3 | |
| 500100 | Silk-worm cocoons suitable for reeling | 4,592 | 67.2 | 0.3 | 7.1 | 0.5 | | 101.4 | 26.9 | 62.8 |
| 121110 | Liquorice roots used primly in pharm, perf, insecticide, fungicide/sim | 4,680 | 53.4 | | | | | | | 203.1 |
| Food Processing (15-16) | | | | | | | | | | |
| 100630 | Rice, semi-milled or wholly milled | 7 | 0.2 | 21.2 | 75.9 | 0.2 | 0.3 | 1.0 | 0.0 | 0.0 |
| 30613 | Shrimps and prawns, frozen | 20 | 0.0 | 7.9 | 1.9 | | | 0.1 | 0.0 | |
| 170199 | Refined sugar, in solid form, nes | 31 | 0.1 | 4.4 | 10.5 | 0.1 | 0.0 | 0.4 | | 0.0 |
| 110100 | Wheat or meslin flour | 52 | 0.0 | 1.2 | 36.3 | 34.0 | 0.1 | 17.9 | 0.2 | 1.9 |
| 30379 | Fish nes, frozen, whole | 103 | 0.2 | 4.4 | 1.8 | 0.2 | | 0.0 | | 0.6 |
| 230640 | Rape/colza seed oil-cake & other solid residues, whether/not ground/pell | 180 | | 6.5 | 3.5 | 0.5 | | | 0.5 | 0.4 |
| 151620 | Veg fats & oils & fractions hydrogenated, inter/re-esterified, etc., ref | 182 | 1.7 | 1.3 | 29.4 | 0.1 | 0.0 | 0.0 | | 1.1 |
| 40210 | Milk powder < 1.5% fat | 187 | 0.3 | 1.3 | 0.2 | 0.0 | 4.9 | 0.1 | 0.0 | 0.0 |
| 30749 | Cuttle fish, squid, frozen, dried, salted or in brine | 191 | 2.6 | 5.7 | 0.2 | | | | | |
| 100640 | Rice, broken | 277 | | 5.4 | 71.0 | 0.6 | 0.1 | | | 0.0 |
| 240399 | Tobacco extracts and essences | 389 | 3.7 | 6.7 | 0.5 | 0.0 | 0.1 | | | 0.0 |
| 220710 | Un-denatured ethyl alcohol of an alcohol strength by volume of 80% volume/high | 479 | 0.0 | 1.1 | 14.8 | 0.0 | | | | |
| 90230 | Tea, black (fermented or partly) in packages < 3 kg | 491 | 4.2 | 2.9 | 1.0 | 0.3 | 3.7 | 0.0 | | 0.2 |
| 200110 | Cucumbers and gherkins, prepared or preserved by vinegar or acetic ac | 509 | 0.1 | 11.4 | 0.0 | 0.1 | 1.4 | 2.8 | | 7.5 |
| 200799 | Jams, fruit jellies, fruit/nut purée & paste, Prepared, sugared, sweet | 531 | 0.0 | 2.7 | 0.7 | 0.0 | 1.2 | 0.9 | | 3.3 |
| 230690 | Vegetable oil-cake and other solid residues nes | 579 | | 17.7 | 3.9 | 2.2 | | | | 0.0 |
| 30490 | Fish meat & mince, except liver, roe & fillets, froze | 617 | | 2.2 | 1.5 | 0.0 | | 2.1 | | |
| 220210 | Waters incl mineral & aerated, contain sugar o sweetening matter or flavor | 674 | 0.1 | 0.0 | 1.1 | 0.7 | 4.4 | 0.1 | 0.0 | 0.2 |

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|------------|---|---------|--|------|------|-------|------|-------|------|-------|
| | | | AF | IN | PK | KZ | KG | TA | TK | UZ |
| 40120 | Milk not concentrated nor sweetened 1-6% fat | 696 | 0.0 | 0.1 | 4.6 | 0.2 | 15.7 | | | |
| 71220 | Onions, dried, not further prepared | 711 | 0.4 | 12.7 | 7.1 | 0.0 | 0.0 | 1.1 | | 3.8 |
| 170230 | Maple sugar and maple syrup | 725 | 0.8 | 1.5 | 4.8 | 0.1 | 0.5 | | | 0.0 |
| 40390 | Buttermilk, curdled milk, cream, kephir, etc. | 776 | 0.0 | 0.0 | 4.4 | 0.1 | 10.4 | | | 0.1 |
| 30374 | Mackerel, frozen, whole | 792 | 3.6 | 1.7 | 1.7 | 0.0 | | | | |
| 20629 | Bovine edible offal, frozen except livers and tongues | 836 | 0.4 | 2.3 | 2.0 | | 0.0 | | | 0.0 |
| 160420 | Fish prepared or preserved, except whole or in pieces | 901 | | 1.5 | 5.5 | 0.0 | | | | |
| 110812 | Maize (corn) starch | 929 | 0.0 | 3.4 | 4.6 | 0.1 | | | | |
| 170310 | Cane molasses | 933 | | 4.3 | 17.6 | | | | | 1.0 |
| 200190 | Veg, fruit, nut & edible parts of plants nes, prep/preserved by vinegar | 988 | 0.0 | 2.0 | 2.8 | 0.0 | 0.1 | 0.2 | | 1.6 |
| 20421 | Sheep carcasses and half carcasses, fresh or chilled | 1,090 | 9.0 | 11.3 | 67.8 | 0.7 | 45.0 | | | |
| 71140 | Cucumbers and gherkins provisionally preserved | 1,146 | | 24.2 | | | 1.1 | | | |
| 140420 | Cotton linters | 1,163 | | 12.0 | 5.6 | 2.1 | 0.1 | 5.1 | 96.1 | 121.1 |
| 80620 | Grapes, dried | 1,215 | 446.9 | 1.0 | 0.0 | 0.0 | 0.9 | 9.0 | | 37.3 |
| 410210 | Sheep or lamb skins, raw, wool on, except Persian etc. | 1,265 | 57.1 | 0.0 | 0.2 | 0.1 | 7.9 | 1.0 | 1.5 | 0.1 |
| 170410 | Chewing gum containing sugar, except medicinal | 1,274 | 0.0 | 0.5 | 17.0 | 0.0 | 0.0 | 0.1 | | 3.5 |
| 81340 | Fruits, dried nes | 1,370 | 29.8 | 1.9 | 40.3 | 0.2 | 12.2 | 48.2 | | 30.2 |
| 200980 | Fruit & veg juice nes (excluding mx) un-ferment un-spirited | 1,384 | 0.5 | 0.2 | 2.6 | 0.0 | 0.1 | 2.3 | | 1.5 |
| 81350 | Mixtures of edible nuts, dried and preserved fruits | 1,576 | 72.2 | 0.1 | 0.9 | 2.2 | 3.1 | 718.3 | | 119.5 |
| 90210 | Tea, green (unfermented) in packages < 3 kg | 1,593 | 0.0 | 1.4 | 0.2 | 0.1 | 3.1 | 0.0 | 0.0 | 0.1 |
| 110630 | Flour, meal, powder of fruit/nut, citrus or melon pee | 1,809 | 2.1 | 5.3 | 0.0 | 0.1 | | 0.1 | | 0.3 |
| 151221 | Cotton-seed oil crude, whether or not gossypol has been removed | 1,837 | | | | 248.2 | 0.0 | 2.6 | 76.5 | |
| 30333 | Sole, frozen, whole | 1,895 | | 12.3 | 3.4 | | | | | |
| 30371 | Sardines, brisling, sprats, frozen, whole | 1,960 | | 1.2 | 0.3 | | | 18.9 | | |
| 110313 | Maize (corn) groats or meal | 1,980 | 2.1 | 1.7 | 0.5 | 0.0 | | | | |
| 150890 | Ground-nut oil and its fractions refined but not chemically modified | 2,001 | 2.0 | 8.8 | 0.1 | | | | | 0.7 |
| 71230 | Mushrooms and truffles, dried, not further prepared | 2,003 | | 1.4 | 3.2 | 0.0 | 1.8 | 0.0 | | 0.0 |
| 81310 | Apricots, dried | 2,015 | 346.8 | 0.0 | 1.8 | 1.3 | 4.4 | 584.9 | 0.0 | 35.7 |
| 110290 | Cereal flour except wheat, meslin, rye, maize, rice | 2,054 | 0.0 | 1.8 | 4.3 | 0.1 | | | 0.0 | |
| 30329 | Salmonidae, nes, frozen, whole | 2,067 | | 6.4 | 70.7 | 0.0 | | | | |

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|------------|--|---------|--|------|-------|------|-------|------|-------|------|
| | | | AF | IN | PK | KZ | KG | TA | TK | UZ |
| 151550 | Sesame oil & its fractions whether/not refined, but not chemically mod | 2,275 | 5.3 | 3.5 | 0.0 | | 0.2 | | | 0.1 |
| 230500 | Ground-nut oil-cake & other solid residues, whether or not ground | 2,311 | | 12.4 | 1.7 | | | | | |
| 152200 | Degrease & residues from fatty substances or animal or vegetable waxes | 2,330 | | 0.4 | | 0.4 | | | 5.9 | 1.1 |
| 110610 | Flour or meal of dried legumes | 2,371 | 19.1 | 11.8 | 4.3 | | | | | |
| 30339 | Flatfish except halibut, plaice or sole, frozen, whole | 2,456 | | 1.1 | 200.4 | 0.0 | | | | |
| 410121 | Bovine hides, whole, fresh or wet-salted | 2,493 | 7.6 | 0.0 | 0.1 | 0.1 | 3.1 | 4.8 | 1.0 | 0.0 |
| 110319 | Cereal groats or meal except wheat, maize, rice, oats | 2,542 | | 0.2 | 4.0 | 3.9 | 13.4 | 0.1 | | |
| 230610 | Cotton seed oil-cake & other solid residues, whether or not ground | 2,566 | | 3.6 | 5.9 | 14.9 | | | 164.6 | |
| 71190 | Vegetables nes and mixtures provisionally preserved | 2,580 | 0.0 | 0.9 | 1.1 | 0.1 | 20.0 | | 0.1 | 25.7 |
| 30376 | Eels, frozen, whole | 2,864 | | 7.9 | 2.7 | | | | | |
| 170112 | Raw sugar, beet | 2,928 | 0.3 | 0.3 | 5.3 | 0.0 | 1.2 | 0.0 | | |
| 81320 | Prunes, dried | 3,050 | 8.1 | 0.1 | 0.0 | 0.2 | 2.0 | 55.9 | | 18.3 |
| 200510 | Homogenized vegetables prep/preserved, by vinegar/acetic acid | 3,095 | | 2.4 | 0.1 | 0.0 | 2.3 | | | 0.4 |
| 510119 | Greasy wool (other than shorn) not carded or combed | 3,116 | 2.5 | 0.1 | 1.9 | 0.4 | 13.1 | 2.2 | 2.2 | 0.2 |
| 410221 | Sheep or lamb skins, pickled, without wool | 3,227 | 9.6 | 0.0 | | | 0.8 | 4.7 | 0.3 | |
| 410110 | Bovine skins, whole, raw | 3,329 | 7.8 | 0.2 | 0.0 | 0.3 | 15.4 | 10.2 | 2.2 | |
| 200950 | Tomato juice unfermented & not spirited, whether or not sugared or sweetened | 3,340 | | 0.0 | 0.1 | 0.3 | 0.7 | 11.1 | | 1.7 |
| 20680 | Sheep, goat, ass, mule, hinnies offal, fresh or chilled | 3,453 | | 1.1 | 170.5 | | | | | |
| 81290 | Fruits and nuts, provisionally preserved nes | 3,550 | 5.7 | 1.4 | 0.0 | 0.0 | 0.1 | 2.9 | | |
| 151229 | Cotton-seed and its fractions refined but not chemically modified | 3,569 | | 0.1 | 0.1 | 1.9 | | 2.1 | 8.0 | |
| 20441 | Sheep carcasses and half carcasses, frozen | 3,630 | | 0.7 | 0.1 | 1.1 | 14.2 | | | |
| 170390 | Molasses nes | 3,638 | | 0.1 | 0.6 | 1.8 | 12.6 | | | |
| 410229 | Sheep or lamb skins, raw, except pickled, no wool | 3,696 | 35.7 | 0.1 | 0.0 | 0.0 | 183.4 | 36.4 | | |
| 110220 | Maize (corn) flour | 3,951 | 44.8 | 0.2 | 2.2 | | 0.0 | 1.2 | 0.0 | |
| 81330 | Apples, dried | 4,070 | 4.3 | 0.0 | 0.0 | 0.2 | 12.5 | 60.4 | | 4.2 |
| 200850 | Apricots nes, o/w prep o presvd whether or not sugared, sweetened | 4,083 | 1.1 | 0.0 | 0.2 | 0.0 | 1.1 | 3.3 | | 4.3 |
| 30510 | Flours, meals & pellets of fish for human consumption | 4,086 | | 1.4 | 98.4 | | | | | |

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|--|--|---------|--|------|-------|-----|------|------|------|-------|
| | | | AF | IN | PK | KZ | KG | TA | TK | UZ |
| 240290 | Cigars, cheroots, cigarillos and cigarettes, tobacco substitutes | 4,104 | | 0.3 | 1.1 | | 1.1 | | | |
| 410130 | Bovine hides, raw, nes | 4,195 | 0.6 | 0.1 | 0.0 | 0.0 | 1.1 | 1.3 | 1.0 | 0.4 |
| 81210 | Cherries provisionally preserved | 4,532 | | 0.0 | 0.1 | 0.0 | 12.8 | 5.1 | | |
| Textiles and textile products (17-18) | | | | | | | | | | |
| 610910 | T-shirts, singlet and other vests, of cotton, knit | 19 | 0.0 | 4.2 | 5.9 | 0.0 | 0.1 | 0.0 | 0.2 | 7.3 |
| 520523 | Cotton yarn >85% single combed 232-192 dtex, not retail | 46 | | 41.4 | 27.2 | 0.1 | | 16.4 | 3.5 | 41.3 |
| 630260 | Toilet or kitchen linen, of cotton terry toweling | 65 | 0.1 | 7.6 | 81.0 | 0.0 | 0.5 | 0.0 | 5.1 | 1.9 |
| 540710 | Woven hi-ten filament, nylon, polyamide or polyester | 70 | 0.0 | 26.1 | 1.0 | 0.0 | 0.3 | 0.2 | | 0.0 |
| 630419 | Bedspreads, textile material, nes, not knit or crochet | 79 | 0.4 | 94.3 | 46.7 | 0.0 | 0.6 | 0.0 | 0.0 | 0.1 |
| 630492 | Furnishing articles nes, of cotton, not knit, crochet | 85 | 1.0 | 58.3 | 7.5 | 0.0 | | 0.0 | 0.1 | 0.0 |
| 520524 | Cotton yarn >85% single combed 192-125 dtex, not ret. | 86 | 7.4 | 28.5 | 17.2 | 0.1 | | 7.4 | 1.3 | 33.1 |
| 420310 | Articles of apparel of leather or composition leather | 99 | 0.0 | 8.8 | 57.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 620342 | Men's, boys trousers & shorts, of cotton, not knit | 105 | 0.0 | 1.2 | 15.6 | 0.0 | 0.1 | 7.5 | 0.5 | 0.1 |
| 611120 | Babies garments, accessories of cotton, knit | 113 | 0.0 | 4.5 | 2.2 | 0.0 | 0.1 | 0.0 | 0.0 | 3.6 |
| 610990 | T-shirts, singlet etc., of material nes, knit | 117 | 0.5 | 2.6 | 3.1 | 0.0 | 0.0 | 0.1 | 0.0 | 0.1 |
| 621490 | Shawls, scarves, etc., of material nes, not knit | 121 | 0.1 | 40.3 | 7.7 | 0.0 | 0.1 | 0.0 | | 0.0 |
| 620640 | Women's, girls blouses, shirts, manmade fiber, not knit | 141 | 0.0 | 4.5 | 0.0 | 0.0 | 33.1 | 1.5 | 0.0 | 0.0 |
| 610510 | Men's, boys shirts, of cotton, knit | 151 | 0.0 | 3.5 | 30.0 | 0.0 | 0.1 | 0.0 | 0.0 | 1.7 |
| 620443 | Women's, girls dresses, synthetic fibers, not knit | 162 | 0.0 | 3.7 | 0.1 | 0.0 | 27.1 | 0.0 | 0.0 | 0.0 |
| 520512 | Cotton yarn >85% single uncombed 714-232 dtex, not ret | 168 | 0.0 | 6.3 | 194.8 | 0.1 | 1.5 | 17.9 | 61.7 | 114.5 |
| 570500 | Carpets and textile floor coverings, nes | 176 | 1.7 | 16.3 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.2 |
| 520522 | Cotton yarn >85% single combed 714-232 dtex, not retail | 177 | | 15.4 | 82.7 | 0.0 | | 7.4 | 2.4 | 41.2 |
| 551511 | Woven fabric polyester + viscose rayon, nes | 179 | | 16.4 | 0.6 | 0.1 | 2.4 | 0.3 | | |
| 630790 | Made up articles (textile) nes, textile dress pattern | 201 | 0.0 | 1.8 | 1.7 | 0.0 | 0.7 | 0.0 | 0.0 | 0.0 |
| 630539 | Sacks & bags, packing, of other manmade yarn | 208 | 0.0 | 7.9 | 5.0 | 0.0 | 0.2 | 0.1 | | 0.0 |
| 570110 | Carpets of wool or fine animal hair, knotted | 209 | 189.6 | 19.6 | 83.9 | 0.0 | 0.0 | 0.0 | 0.5 | 0.1 |
| 610520 | Men's, boys shirts, of manmade fibers, knit | 226 | 0.0 | 8.3 | 5.7 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 |
| 630231 | Bed linen, of cotton, nes | 238 | 0.0 | 3.9 | 106.8 | 0.0 | 1.2 | 0.0 | 5.5 | 0.0 |
| 520511 | Cotton yarn >85% single uncombed >714 dtex, not retail | 255 | | 14.3 | 112.0 | 0.0 | | | 19.1 | 9.5 |
| 420329 | Leather, composition gloves & mittens except sports | 264 | 0.0 | 7.5 | 49.9 | 0.0 | 0.4 | 0.0 | | |
| 520942 | Denim cotton >85% >200g/m2 | 265 | | 4.4 | 75.8 | 0.0 | 0.0 | 0.2 | 9.6 | |
| 610610 | Women's, girls blouses & shirts, of cotton, knit | 270 | 0.0 | 3.9 | 5.9 | 0.0 | 0.2 | 0.0 | 0.0 | 1.2 |
| 520514 | Cotton yarn >85% single uncombed 192-125 dtex, not ret | 280 | 0.8 | 20.7 | 17.6 | 0.1 | 0.0 | 6.4 | 0.6 | 159.0 |
| 610831 | Women's, girls nightdress or pajamas, of cotton, knit | 290 | 0.0 | 6.9 | 4.5 | 0.0 | 0.7 | 0.0 | 0.1 | 13.3 |

| HS 6-digit | Description | Ranking | RCAs Intra- and Inter-Regional Imports | | | | | | | |
|------------|--|---------|--|------|-------|-----|------|-----|------|-------|
| | | | AF | IN | PK | KZ | KG | TA | TK | UZ |
| 540752 | Woven fabric >85% textured polyester, dyed, nes | 295 | | 4.1 | 2.0 | 0.0 | 0.2 | | 0.0 | |
| 570310 | Carpets of wool or fine animal hair, tufted | 297 | 2.6 | 18.4 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| 940490 | Articles of bedding nes | 306 | 0.0 | 1.3 | 6.2 | 0.0 | 0.9 | 0.0 | 0.0 | 0.0 |
| 620452 | Women's, girls skirts, of cotton, not knit | 311 | 0.0 | 5.8 | 8.4 | 0.0 | 0.2 | 0.3 | 0.2 | 0.1 |
| 520811 | Plain weave cotton, >85% <100 g/m2, unbleached | 320 | | 20.3 | 62.9 | | 0.0 | 7.8 | 0.0 | 11.7 |
| 550951 | Yarn of polyester & artificial staple fibers, not retail | 324 | 1.9 | 18.6 | 1.2 | | 0.0 | | | |
| 550953 | Yarn of polyester & cotton, not retail, nes | 329 | | 14.1 | 15.6 | | 0.0 | | 2.0 | 0.9 |
| 611420 | Garments nes, of cotton, knit | 333 | 0.0 | 6.8 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |
| 621142 | Women's, girls garments nes, of cotton, not knit | 340 | 0.0 | 7.0 | 3.0 | 0.0 | 0.0 | 4.6 | 0.5 | 0.0 |
| 520852 | Plain weave cotton, >85% 100-200g/m2, printed | 345 | 0.2 | 10.4 | 27.8 | 0.0 | | | 0.8 | 2.7 |
| 610711 | Men's, boys underpants or briefs, of cotton, knit | 347 | 0.0 | 3.0 | 5.3 | 0.0 | 2.9 | 0.0 | 0.0 | 5.3 |
| 520521 | Cotton yarn >85% single combed >714dtex, not retail | 354 | | 23.3 | 8.0 | | | | 2.5 | 4.5 |
| 621143 | Women's, girls garments nes, manmade fibers, not knit | 356 | 0.0 | 3.5 | 0.3 | 0.0 | 1.4 | 0.0 | 0.0 | 0.0 |
| 620920 | Babies garments, accessories of cotton, not knit | 366 | 0.0 | 4.6 | 1.6 | 0.0 | 0.3 | 0.2 | 0.0 | 0.1 |
| 630510 | Sacks & bags, packing, of jute or other fibers | 393 | 0.2 | 25.6 | 16.5 | | 0.2 | | | |
| 570242 | Carpets of manmade yarn, woven pile, made up, nes | 404 | 0.0 | 1.3 | 0.1 | 0.0 | 2.1 | 1.6 | 0.0 | 27.6 |
| 540772 | Woven fabric >85% synthetic filament, dyed, nes | 406 | 0.0 | 3.5 | 2.3 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| 610821 | Women's, girls briefs or panties, of cotton, knit | 421 | 0.0 | 2.8 | 3.3 | 0.0 | 1.0 | 0.0 | 0.0 | 3.8 |
| 600292 | Knit or crochet fabric of cotton, nes | 428 | 0.0 | 1.8 | 4.1 | 0.0 | | 0.9 | 1.1 | 7.1 |
| 610462 | Women's, girls trousers & shorts, of cotton, knit | 438 | 0.0 | 1.3 | 5.4 | 0.0 | 0.0 | 0.0 | 0.1 | 2.7 |
| 520851 | Plain weave cotton, >85% <100 g/m2, printed | 444 | | 26.1 | 102.5 | | 0.0 | | 0.1 | 4.6 |
| 551512 | Woven fabric polyester + manmade filament, nes | 447 | | 13.9 | 0.2 | 0.0 | 1.3 | 0.0 | | 0.0 |
| 621430 | Shawls, scarves, etc., synthetic fibers, not knit | 448 | 0.0 | 5.8 | 1.2 | 0.0 | 0.1 | 0.0 | | 0.0 |
| 570190 | Carpets of materials nes, knotted | 466 | 11.4 | 25.3 | 3.9 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 |
| 520513 | Cotton yarn >85% single uncombed 232-192 dtex, not ret | 470 | | 13.9 | 76.6 | 0.0 | 3.8 | 9.2 | 19.1 | 261.2 |
| 551011 | Yarn >85% artificial staple fibers, single, not retail | 473 | | 6.4 | 1.4 | 0.0 | | | | |
| 610721 | Men's, boys nightshirts or pajamas, of cotton, knit | 497 | 0.1 | 10.1 | 5.1 | 0.0 | 0.2 | 0.0 | 0.1 | 3.1 |
| 620349 | Men's, boys trousers & shorts, material nes, not knit | 511 | 0.0 | 7.1 | 65.3 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 |
| 610442 | Women's, girls dresses, of cotton, knit | 522 | 0.0 | 2.8 | 0.7 | 0.0 | 0.2 | 0.2 | 0.0 | 2.5 |
| 630710 | Floor & dish cloths, dusters, etc., textile material | 524 | 0.0 | 3.6 | 119.4 | 0.0 | 0.0 | 0.0 | | 0.1 |
| 610342 | Men's, boys trousers & shorts, of cotton, knit | 539 | 0.1 | 3.0 | 16.3 | 0.0 | 0.1 | 0.1 | 0.2 | 11.0 |
| 531010 | Woven fabric of jute/bast fibers, unbleached/bleached | 550 | | 41.0 | 2.1 | 0.0 | 12.3 | | | |
| 630391 | Curtains drapes blinds valances, cotton, not knit | 570 | 0.2 | 9.0 | 41.9 | 0.0 | 0.0 | 0.0 | | 0.0 |
| 630221 | Bed linen, of cotton, printed, not knit | 575 | 0.0 | 1.9 | 9.1 | 0.0 | 0.7 | 0.1 | 4.2 | 1.6 |

| HS 6-digit | Description | Ranking | RCAs Intra- and Inter-Regional Imports | | | | | | | |
|------------|---|---------|--|------|-------|-----|------|------|------|------|
| | | | AF | IN | PK | KZ | KG | TA | TK | UZ |
| 620319 | Men's, boys suits, of material nes, not knit | 614 | 0.1 | 14.4 | 21.4 | 0.0 | 2.1 | 0.0 | 0.1 | 0.2 |
| 520831 | Plain weave cotton, >85% <100 g/m2, dyed | 615 | | 13.3 | 72.8 | 0.0 | 0.1 | 0.2 | | 0.1 |
| 620413 | Women's, girls suits, synthetic fibers, not knit | 619 | 0.0 | 18.8 | 3.1 | 0.0 | 54.1 | | | 1.0 |
| 540754 | Woven fabric >85% textured polyester, printed, nes | 637 | 0.1 | 7.5 | 1.8 | | | 0.4 | | 0.0 |
| 620343 | Men's, boys trousers shorts, synthetic fiber, not knit | 648 | 0.0 | 0.8 | 2.7 | 0.0 | 12.0 | 0.1 | 0.0 | 0.0 |
| 570231 | Carpets of wool or hair, woven pile, not made up, nes | 650 | 1.6 | 18.6 | 1.0 | 0.0 | 0.2 | 0.0 | | 0.1 |
| 620590 | Men's, boys shirts, of material nes, not knit | 654 | 0.0 | 6.1 | 3.2 | 0.0 | 0.2 | 0.0 | 0.0 | 0.1 |
| 620449 | Women's, girls dresses, of material nes, not knit | 661 | 0.0 | 2.2 | 0.5 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 |
| 620412 | Women's, girls suits, of cotton, not knit | 668 | 0.0 | 42.4 | 57.2 | 0.0 | 1.3 | | 0.0 | 0.1 |
| 620419 | Women's, girls suits, of material nes, not knit | 682 | 0.1 | 19.4 | 13.7 | 0.0 | 1.1 | | 0.0 | |
| 551219 | Woven fabric >85% polyester staple fibers, nes | 722 | 0.2 | 1.2 | 7.7 | 0.0 | 6.9 | | 0.0 | 0.0 |
| 630210 | Bed linen, of textile knit or crochet materials | 729 | 0.0 | 4.6 | 353.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 |
| 620453 | Women's, girls skirts, synthetic fibers, not knit | 760 | 0.0 | 2.7 | 0.1 | 0.0 | 39.0 | 0.0 | 0.0 | 0.0 |
| 420330 | Belts and bandoliers of leather or composition leather | 764 | 0.0 | 1.6 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 630130 | Blankets (non-electric) and travelling rugs, of cotton | 773 | 0.3 | 6.2 | 22.8 | 0.0 | 0.1 | | 0.3 | 0.0 |
| 620690 | Women's, girls blouses & shirts, material nes, not knit | 781 | 0.0 | 3.8 | 2.7 | 0.0 | 3.0 | 0.0 | 0.0 | 0.0 |
| 610590 | Men's, boys shirts, of materials nes, knit | 785 | 0.0 | 16.8 | 594.3 | 0.0 | 0.0 | 0.1 | 0.0 | 0.1 |
| 621132 | Men's, boys garments nes, of cotton, not knit | 789 | 1.0 | 3.8 | 6.6 | 0.0 | 0.1 | 9.5 | 0.0 | 0.6 |
| 520932 | Twill weave cotton, >85% >200g/m2, dyed | 806 | 0.2 | 4.1 | 95.2 | | | | 0.0 | 0.2 |
| 610423 | Women's, girls ensembles, synthetic fibers, knit | 817 | | 4.4 | 1.1 | 0.0 | 0.4 | 0.1 | | |
| 620530 | Men's, boys shirts, of manmade fibers, not knit | 821 | 0.0 | 2.2 | 0.6 | 0.0 | 5.0 | 0.0 | 0.0 | 0.0 |
| 611490 | Garments nes, of materials nes, knit | 829 | 0.4 | 5.5 | 12.7 | 0.0 | 0.5 | 0.1 | | 0.0 |
| 520821 | Plain weave cotton, >85% <100 g/m2, bleached | 854 | | 14.0 | 88.4 | 0.0 | 0.4 | 4.4 | 0.0 | 6.6 |
| 620821 | Women's, girls nightdress, pajamas, of cotton, not knit | 873 | 0.0 | 6.6 | 5.5 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 |
| 520832 | Plain weave cotton, >85% 100-200g/m2, dyed | 881 | | 3.8 | 15.7 | 0.0 | | 0.2 | 0.2 | 1.0 |
| 620469 | Women's, girls trousers, shorts, material nes, not knit | 885 | 0.0 | 1.3 | 11.5 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 |
| 611190 | Babies garments, accessories of material nes, knit | 905 | 0.0 | 17.9 | 25.8 | 0.0 | 0.7 | 5.7 | 0.0 | |
| 530720 | Yarn of jute, textile bast fiber nes, multiple, cable | 912 | 1.8 | 12.7 | 0.0 | 0.0 | | | | |
| 520812 | Plain weave cotton, >85% 100-200g/m2, unbleached | 915 | | 2.1 | 75.4 | 1.7 | 5.1 | 23.6 | 40.3 | 36.1 |
| 630190 | Blankets (except electric) & travel rugs, material ne | 922 | 0.7 | 9.5 | 18.5 | 0.0 | 0.4 | 0.2 | 0.0 | 0.0 |
| 510529 | Wool tops & other combed wool, except combed fragment | 952 | 0.1 | 1.9 | 0.0 | | 0.7 | 2.3 | | |
| 520544 | Cotton yarn >85% multiple combed 192-125 dtex, not ret | 972 | | 9.0 | 34.3 | | | 20.7 | | 0.6 |
| 521213 | Woven cotton fabric, > 200g/m2, dyed, nes | 981 | | 12.9 | 44.5 | 0.0 | 3.3 | 0.7 | | |
| 620332 | Men's, boys jackets & blazers, of cotton, not knit | 985 | 0.0 | 2.4 | 7.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |

| HS 6-digit | Description | Ranking | RCAs Intra- and Inter-Regional Imports | | | | | | | |
|------------|--|---------|--|------|-------|-----|------|------|-----|-------|
| | | | AF | IN | PK | KZ | KG | TA | TK | UZ |
| 630499 | Furnishing goods nes, material nes, not knit, crochet | 1,019 | 0.2 | 8.7 | 17.8 | 0.0 | 0.0 | 0.0 | | 0.0 |
| 621133 | Men's, boys garments nes, of manmade fibers, not knit | 1,022 | 0.1 | 1.1 | 0.8 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 |
| 611090 | Pullovers, cardigans etc. of material nes knit | 1,023 | 0.0 | 1.0 | 21.0 | 0.0 | 0.3 | 0.0 | 0.0 | 0.0 |
| 620463 | Women's, girls trousers, shorts, synth fibers, not knit | 1,032 | 0.0 | 0.5 | 3.1 | 0.0 | 25.7 | 0.0 | 0.0 | 0.0 |
| 620432 | Women's, girls jackets & blazers, of cotton, not knit | 1,049 | 0.0 | 1.6 | 2.5 | 0.0 | 0.3 | 0.0 | 0.0 | 0.0 |
| 610323 | Men's, boys ensembles, synthetic fibers, knit | 1,063 | | 19.1 | 5.9 | 0.0 | 2.7 | | | |
| 520532 | Cotton yarn >85% multiple uncombed 714-232 dtex, not ret | 1,068 | | 7.1 | 370.8 | 0.1 | 2.2 | 31.0 | 0.3 | 141.0 |
| 611593 | Hosiery nes, synthetic fibers, knit | 1,081 | 0.0 | 0.1 | 1.8 | 0.0 | 1.2 | 0.0 | 0.0 | 0.1 |
| 630299 | Toilet or kitchen linen, of material nes | 1,083 | | 23.4 | 143.2 | 0.0 | 0.2 | 0.0 | | 0.0 |
| 610690 | Women's, girls blouses & shirts, of material nes, knit | 1,088 | 0.0 | 6.1 | 51.1 | 0.0 | 0.4 | 0.0 | 0.0 | 0.1 |
| 630399 | Curtains drapes blinds valances, material nes, woven | 1,105 | 0.1 | 6.9 | 70.1 | 0.0 | 1.1 | 0.0 | | 0.0 |
| 611592 | Hosiery nes, of cotton, knit | 1,106 | 0.0 | 0.1 | 12.5 | 0.0 | 12.6 | 0.1 | 0.1 | 2.6 |
| 500790 | Woven fabric of silk, nes | 1,121 | | 8.7 | 1.0 | 0.0 | 0.6 | | 0.0 | 0.1 |
| 621710 | Clothing accessories nes, textile material, not knit | 1,130 | 0.1 | 1.5 | 1.6 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 |
| 540751 | Woven fabric >85% textured polyester unbl/bleached, ne | 1,131 | | 3.3 | 1.6 | 0.0 | | 0.9 | | |
| 521019 | Woven cotton nes <85% +manmade fiber <200g, unbleached | 1,132 | | 1.5 | 74.1 | | | | 0.0 | 0.0 |
| 610422 | Women's, girls ensembles, of cotton, knit | 1,134 | 0.1 | 13.5 | 13.8 | 0.0 | 0.1 | 0.0 | 0.0 | 12.5 |
| 520911 | Plain weave cotton, >85% >200g/m2, unbleached | 1,140 | | 6.4 | 260.7 | 0.1 | | 1.0 | 2.0 | 16.9 |
| 630291 | Toilet or kitchen linen, of cotton, nes | 1,155 | 0.0 | 3.2 | 15.7 | 0.0 | 0.2 | | 0.2 | 0.1 |
| 610449 | Women's, girls dresses, of material nes, knit | 1,207 | 0.0 | 4.8 | 4.4 | 0.0 | 0.2 | 0.2 | 0.0 | |
| 521215 | Woven cotton fabric, > 200g/m2, printed, nes | 1,210 | | 34.3 | 313.8 | | | | | |
| 620339 | Men's, boys jackets & blazers, material nes, not knit | 1,225 | 0.0 | 3.7 | 32.5 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 |
| 620422 | Women's, girls ensembles, of cotton, not knit | 1,235 | 0.2 | 16.3 | 35.9 | 0.0 | 1.4 | 3.3 | 0.0 | 0.2 |
| 540774 | Woven fabric >85% synthetic filament, printed, nes | 1,237 | | 22.8 | 34.5 | | 0.2 | | | 1.6 |
| 620333 | Men's, boys jackets, blazers, synthetic fiber, not knit | 1,240 | 0.0 | 1.2 | 4.2 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| 620990 | Babies garments, accessories of material nes, not knit | 1,250 | 0.1 | 5.1 | 2.7 | 0.0 | 0.5 | 0.7 | | 0.0 |
| 521142 | Denim cotton nes, <85% +manmade fiber, >200g/m2 | 1,254 | | 2.1 | 48.5 | | | | 0.1 | |
| 560121 | Wadding, products, of cotton, except sanitary article | 1,277 | 0.0 | 2.6 | 4.7 | 0.0 | 0.1 | 0.1 | 2.5 | 31.2 |
| 611599 | Hosiery nes, of materials nes, knit | 1,278 | 0.0 | 4.4 | 65.2 | 0.0 | 25.8 | 0.0 | 0.3 | 0.0 |
| 551519 | Woven fabric polyester staple fibers, nes | 1,288 | 0.0 | 2.8 | 0.0 | 0.0 | 1.2 | 0.3 | | 0.0 |
| 570232 | Carpets of manmade yarn, woven pile, not made up, nes | 1,316 | 1.8 | 8.4 | 0.5 | 0.0 | | 0.4 | | 0.0 |
| 540782 | Woven fabric synthetic filament <85% +cotton, dyed ne | 1,319 | | 5.5 | 1.3 | 0.1 | | | 0.0 | |
| 611710 | Shawls, scarves, veils etc., textile material, knit | 1,330 | 0.3 | 1.2 | 8.1 | 0.0 | 0.1 | 0.0 | | 1.7 |
| 621149 | Women's, girls garments nes, material nes, not knit | 1,344 | 0.0 | 2.4 | 5.8 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |

| HS 6-digit | Description | Ranking | RCAs Intra- and Inter-Regional Imports | | | | | | | |
|------------|---|---------|--|------|-------|-----|------|------|-----|------|
| | | | AF | IN | PK | KZ | KG | TA | TK | UZ |
| 520931 | Plain weave cotton, >85% >200g/m2, dyed | 1,347 | 0.0 | 4.8 | 10.4 | | 0.0 | 0.0 | 0.0 | 4.4 |
| 620459 | Women's, girls skirts, of material nes, not knit | 1,351 | 0.0 | 2.1 | 6.1 | 0.0 | 0.7 | 0.0 | 0.0 | 0.0 |
| 610333 | Men's, boys jackets & blazers, synthetic fibers, knit | 1,382 | | 1.1 | 9.5 | 0.0 | 0.1 | | | 0.1 |
| 610332 | Men's, boys jackets & blazers, cotton, knit | 1,401 | 0.0 | 4.6 | 82.8 | 0.0 | 0.2 | | 0.0 | 0.4 |
| 630251 | Table linen, of cotton, not knit | 1,408 | 0.4 | 2.5 | 17.5 | 0.0 | 0.0 | | 0.0 | 0.3 |
| 620891 | Women's, girls panties, bathrobes etc., cotton, not knit | 1,414 | 0.2 | 2.8 | 7.6 | 0.1 | 4.1 | 0.0 | 0.7 | 0.5 |
| 620461 | Women's, girls trousers, shorts, wool or hair, not knit | 1,421 | 0.0 | 4.2 | 6.4 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| 551329 | Woven fabric>85% synthetic nes + cotton, <170g/m2 dye | 1,432 | | 5.9 | 8.2 | | | | | |
| 630222 | Bed linen, of manmade fibers, printed, not knit | 1,438 | 0.0 | 1.6 | 7.6 | 0.0 | 0.2 | 0.0 | 0.1 | 0.0 |
| 610432 | Women's, girls jackets & blazers, of cotton, knit | 1,440 | | 2.3 | 9.9 | 0.0 | 0.1 | 0.0 | 0.0 | 0.4 |
| 540792 | Woven fabric synthetic filament, dyed, nes | 1,442 | | 3.9 | 0.2 | 0.0 | 2.9 | | | 0.0 |
| 570241 | Carpets of wool or hair, woven pile, made up, nes | 1,443 | 6.2 | 6.2 | 0.1 | 0.0 | 0.2 | | 0.0 | 0.1 |
| 610469 | Women's, girls trousers & shorts, material nes, knit | 1,445 | 0.1 | 2.2 | 21.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |
| 520859 | Woven cotton nes, >85% <200g/m2, printed | 1,479 | 0.0 | 2.3 | 14.7 | 0.1 | 0.1 | | 0.1 | 0.0 |
| 520822 | Plain weave cotton, >85% 100-200g/m2, bleached | 1,484 | | 3.9 | 28.3 | 0.0 | | 2.4 | 0.4 | 3.4 |
| 520533 | Cotton yarn >85% multiple uncombed 232-192 dtex, not ret | 1,495 | | 16.4 | 65.9 | 0.0 | | 36.6 | | 78.4 |
| 630520 | Sacks & bags, packing, of cotton | 1,507 | 2.8 | 14.7 | 75.5 | 0.0 | 0.2 | 0.0 | 0.0 | 4.3 |
| 610349 | Men's, boys trousers & shorts, of material nes, knit | 1,518 | 0.0 | 6.0 | 259.4 | 0.0 | 2.0 | 0.9 | | |
| 630239 | Bed linen, of material nes, nes | 1,527 | 0.0 | 5.6 | 105.9 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 |
| 570299 | Carpets of yarn nes, woven, made up, nes | 1,546 | 1.0 | 3.1 | 1.7 | 0.0 | | 0.0 | 0.0 | 0.0 |
| 551229 | Woven fabric >85% acrylic staple fibers, nes | 1,557 | 0.6 | 4.2 | 2.8 | | 0.2 | | | |
| 610319 | Men's, boys suits, of materials nes, knit | 1,563 | 0.1 | 10.6 | 31.7 | 0.0 | 0.1 | | | 0.1 |
| 620312 | Men's, boys suits, synthetic fibers, not knit | 1,594 | | 1.3 | 2.2 | 0.0 | 29.1 | 0.0 | | 1.1 |
| 620822 | Women/girl nightdress, pajama, manmade fiber, not knit | 1,606 | | 4.2 | 3.4 | 0.0 | 1.5 | 0.0 | | 0.1 |
| 520829 | Woven cotton nes, >85% <200g/m2, bleached | 1,608 | | 3.9 | 31.7 | 0.0 | | 0.1 | 0.5 | 6.5 |
| 570210 | Handmade rugs including Kelem, Schumacks, Karamanie, etc. | 1,611 | 90.4 | 8.3 | 4.4 | 0.0 | 0.5 | | 0.3 | 0.2 |
| 540793 | Woven fabric synthetic filament, yarn dyed, nes | 1,614 | | 1.6 | 0.1 | 0.0 | 3.8 | | | |
| 630493 | Furnishing articles nes, synth fiber, not knit, crochet | 1,617 | 0.0 | 1.5 | 0.4 | 0.0 | 1.9 | 0.0 | | 0.0 |
| 520543 | Cotton yarn >85% multiple combed 232-192 dtex, not ret | 1,620 | | 9.6 | 24.3 | 0.0 | | | 0.0 | 4.0 |
| 610719 | Men's, boys underpants or briefs, material nes, knit | 1,632 | 0.3 | 9.5 | 36.5 | 0.1 | 14.6 | 1.0 | | 0.5 |
| 610419 | Women's, girls suits, of material nes, knit | 1,640 | 2.4 | 12.4 | 30.3 | 0.0 | 0.2 | | | 1.9 |
| 550952 | Yarn of polyester & wool or hair, not retail, nes | 1,654 | | 13.2 | 1.1 | | | | 0.1 | |
| 610339 | Men's, boys jackets & blazers, material nes, knit | 1,691 | 2.2 | 9.5 | 799.8 | 0.0 | 0.6 | 1.1 | | |
| 551030 | Yarn of artificial staple fibers & cotton, not retail | 1,692 | | 10.2 | 7.9 | | | | | |

| HS 6-digit | Description | Ranking | RCAs Intra- and Inter-Regional Imports | | | | | | | |
|------------|--|---------|--|------|-------|-----|------|------|-----|------|
| | | | AF | IN | PK | KZ | KG | TA | TK | UZ |
| 620423 | Women's, girls ensembles, synthetic fibers, not knit | 1,710 | 0.1 | 4.0 | 1.9 | 0.0 | 6.9 | 0.5 | 0.0 | |
| 520912 | Twill weave cotton, >85% >200g/m2, unbleached | 1,715 | | 2.8 | 182.6 | | | 4.1 | 0.2 | 53.6 |
| 611519 | Panty hose etc. of materials nes, knit | 1,743 | 0.0 | 1.0 | 0.1 | 0.1 | 12.4 | | 0.1 | 1.1 |
| 610429 | Women's, girls ensembles, of material nes, knit | 1,744 | 0.0 | 7.3 | 8.2 | 1.1 | 0.2 | 0.1 | | |
| 520819 | Woven cotton nes, >85% <200g/m2, unbleached | 1,748 | | 0.8 | 65.3 | 0.1 | 0.0 | 0.3 | 2.4 | 2.4 |
| 520534 | Cotton yarn >85% multiple uncombed 192-125 dtex, not ret | 1,773 | | 11.7 | 87.8 | | 7.4 | 23.9 | | 21.3 |
| 610452 | Women's, girls skirts, of cotton, knit | 1,780 | 0.0 | 2.3 | 2.4 | 0.0 | 0.3 | 0.0 | 0.0 | 2.6 |
| 540784 | Woven fabric synthetic filament, <85% +cotton, printed | 1,802 | 0.0 | 14.3 | 1.7 | | | | 0.0 | |
| 520542 | Cotton yarn >85% multiple combed 714-232 dtex, not ret | 1,817 | | 1.9 | 19.8 | | | 3.5 | 0.3 | 2.7 |
| 610839 | Women's, girls nightdress, pajamas, material nes, knit | 1,823 | | 15.2 | 45.0 | 0.0 | 0.2 | | | |
| 550959 | Yarn of polyester staple fibers, not retail, nes | 1,826 | 1.1 | 4.5 | 1.0 | 0.0 | | | | |
| 620322 | Men's, boys ensembles, of cotton, not knit | 1,836 | 0.4 | 4.6 | 323.7 | 0.3 | 2.8 | 17.4 | 0.1 | 14.9 |
| 621112 | Women's, girls swimwear, not knit | 1,840 | 0.0 | 4.7 | 7.4 | 0.0 | 0.3 | | | |
| 620439 | Women's, girls jackets & blazers, material nes, not knit | 1,856 | 0.0 | 0.9 | 2.3 | 0.0 | 2.7 | 0.0 | 0.0 | 0.0 |
| 611693 | Gloves, mittens or mitts, nes, synthetic fibers, knit | 1,857 | 0.0 | 0.5 | 3.7 | 0.1 | 1.7 | | | 0.1 |
| 630229 | Bed linen, of material nes, printed, not knit | 1,875 | 0.3 | 10.9 | 172.1 | 0.0 | 13.2 | 0.1 | 0.1 | 0.3 |
| 610819 | Women's, girls slips or petticoats, material nes knit | 1,878 | 0.1 | 20.3 | 13.1 | 0.0 | 0.0 | | | 0.2 |
| 620329 | Men's, boys ensembles, of material nes, not knit | 1,899 | 0.0 | 2.8 | 40.1 | 0.1 | 0.0 | 0.0 | | 0.5 |
| 620791 | Men's, boys dressing gowns, etc. cotton, not knit | 1,946 | | 3.0 | 64.8 | 0.0 | 0.1 | 0.1 | 1.9 | 2.2 |
| 550969 | Yarn of acrylic staple fibers, not retail, nes | 1,953 | | 2.0 | 1.0 | 0.0 | | | | |
| 521059 | Woven cotton nes, <85% +manmade fiber, <200g/m2 print | 1,968 | 10.0 | 0.1 | 51.6 | | 0.0 | | | |
| 610322 | Men's, boys ensembles, of cotton, knit | 1,977 | | 7.6 | 25.9 | 0.0 | 0.7 | 1.0 | 0.0 | 14.0 |
| 520531 | Cotton yarn >85% multiple uncombed >714 dtex, not ret | 1,989 | | 5.9 | 261.2 | | | | 0.5 | 3.0 |
| 620199 | Men's, boys anoraks etc., of material nes, not knit | 1,997 | 0.1 | 0.6 | 2.6 | 0.7 | 4.0 | 0.0 | 0.1 | 0.1 |
| 610329 | Men's, boys ensembles, of material nes, knit | 2,004 | 0.0 | 13.5 | 47.6 | 1.7 | 1.2 | 0.4 | | |
| 610439 | Women's, girls jackets & blazers, material nes, knit | 2,012 | 0.0 | 2.6 | 45.2 | 0.0 | 6.5 | 0.0 | | 0.0 |
| 560500 | Metallized yarn | 2,014 | 8.4 | 2.1 | 0.3 | 0.0 | | | | |
| 420340 | Clothing accessories nes, of leather or composition | 2,045 | 0.3 | 4.0 | 12.6 | 0.0 | 0.0 | | 0.0 | |
| 611610 | Gloves impregnated or coated with plastic, rubber, knit | 2,076 | 0.0 | 0.2 | 8.9 | 0.0 | 3.9 | | | 3.1 |
| 570249 | Carpets of yarn nes, woven pile, made up, nes | 2,090 | 0.1 | 2.6 | 0.3 | 0.0 | 0.9 | | 0.0 | 20.3 |
| 620323 | Men's, boys ensembles, synthetic fibers, not knit | 2,092 | 0.0 | 2.4 | 4.3 | 0.0 | 9.6 | 1.3 | 0.0 | 1.2 |
| 630240 | Table linen, of textile knit or crochet materials | 2,116 | 0.1 | 22.2 | 69.9 | | | 0.3 | | 2.3 |
| 551411 | Woven plain >85% polyester cotton, >170g/m2 unbl/blch | 2,125 | | 10.2 | 93.5 | 0.0 | | | | |
| 520623 | Cotton yarn <85% single combed 232-192 dtex, not retail | 2,149 | | 1.6 | 2.2 | 0.1 | | | | |

| HS 6-digit | Description | Ranking | RCAs Intra- and Inter-Regional Imports | | | | | | | |
|------------|---|---------|--|------|-------|-----|-------|------|------|------|
| | | | AF | IN | PK | KZ | KG | TA | TK | UZ |
| 520411 | Cotton sewing thread >85% cotton, not retail | 2,150 | 0.0 | 9.0 | 46.9 | | | | 0.4 | |
| 620892 | Women/girl panties bathrobe etc. manmade fiber not knit | 2,152 | 0.3 | 1.9 | 1.7 | 0.0 | 35.9 | 0.0 | | 0.1 |
| 520919 | Woven cotton nes, >85% >200g/m2, unbleached, nes | 2,168 | | 1.5 | 78.4 | 0.5 | | | 12.0 | 1.0 |
| 500390 | Silk waste, carded or combed | 2,178 | | 12.1 | 0.9 | | | 22.5 | 5.3 | 38.5 |
| 540781 | Woven fabric synthetic filament, <85% +cotton, nes | 2,188 | | 7.1 | 2.6 | 0.1 | 2.0 | | | |
| 520535 | Cotton yarn >85% multiple uncombed <125 dtex, not ret | 2,198 | | 8.0 | 18.9 | | | | 11.7 | 9.6 |
| 610829 | Women's, girls briefs or panties, material nes, knit | 2,215 | | 4.1 | 3.7 | 0.0 | 0.4 | | 0.0 | 0.1 |
| 551299 | Woven fabric >85% synthetic staple fiber nes | 2,244 | | 0.8 | 1.1 | 0.0 | 1.0 | | | |
| 611692 | Gloves, mittens or mitts, nes, of cotton, knit | 2,246 | | 0.8 | 82.5 | 0.0 | 9.1 | 0.0 | | 2.9 |
| 520790 | Cotton yarn (except sewing thread) <85% cotton, retail | 2,258 | 1.1 | 8.3 | 9.3 | | 0.1 | 0.5 | 0.9 | 0.0 |
| 621139 | Men's, boys garments nes, of material nes, not knit | 2,266 | 0.3 | 1.8 | 16.8 | 0.0 | 0.3 | 1.9 | | 0.3 |
| 620721 | Men's, boys nightshirts or pajamas, cotton, not knit | 2,267 | 0.0 | 2.4 | 5.9 | 0.0 | | 0.0 | 0.4 | 0.0 |
| 611212 | Track suits, synthetic fibers, knit | 2,271 | 0.0 | 0.2 | 7.9 | 0.0 | 5.5 | 0.2 | 0.0 | |
| 611211 | Track suits, of cotton, knit | 2,309 | | 1.5 | 19.3 | 0.0 | 0.0 | 0.2 | 0.0 | 4.0 |
| 500500 | Yarn spun from silk waste, not retail | 2,315 | | 1.6 | 0.0 | | | | | 2.4 |
| 600191 | Pile knit or crochet fabric, of cotton, nes | 2,316 | | 2.0 | 0.1 | | | | 0.0 | 45.8 |
| 520849 | Woven cotton nes, >85% <200g/m2, yarn dyed | 2,319 | | 1.1 | 1.4 | | 0.0 | | 0.0 | 0.0 |
| 610413 | Women's, girls suits, synthetic fibers, knit | 2,328 | | 10.1 | 8.1 | 0.1 | 10.6 | | | 0.0 |
| 630120 | Blankets (non-electric) & travelling rug, wool | 2,333 | 1.0 | 3.0 | 0.8 | 0.0 | 3.1 | 0.1 | 0.0 | 0.1 |
| 521223 | Woven cotton fabric, > 200g/m2, dyed, nes | 2,336 | | 4.6 | 187.4 | 0.0 | | | 0.0 | 0.0 |
| 521031 | Plain weave cotton, <85% +manmade fiber, <200g/m2 dye | 2,355 | | 1.8 | 157.4 | 0.0 | | | | |
| 520833 | Twill weave cotton, >85% <200g/m2, dyed | 2,356 | | 2.1 | 10.4 | 0.0 | | | | 0.1 |
| 560729 | Twine nes, cordage, ropes and cables, of sisal | 2,359 | | 10.4 | 4.1 | | | | | |
| 510540 | Coarse animal hair, carded or combed | 2,360 | 394.9 | 0.0 | | | 145.5 | 86.3 | | |
| 560890 | Knotted netting, nets, of natural materials | 2,362 | | 3.5 | 12.7 | 0.0 | 0.0 | | | 0.1 |
| 551323 | Woven fabric nes>85% polyester + cotton,<170g/m2 dyed | 2,387 | | 2.6 | 26.8 | | | | | |
| 560790 | Twine, cordage, ropes and cables, of other materials | 2,395 | 0.1 | 1.6 | 5.5 | 0.0 | 0.1 | 0.1 | | 4.2 |
| 520921 | Plain weave cotton, >85% >200g/m2, bleached | 2,400 | | 7.1 | 16.8 | 0.0 | | | 0.0 | 0.7 |
| 551412 | Woven twill >85% polyester cotton, >170g/m2 unbl/blch | 2,401 | | 2.5 | 60.3 | | | | | |
| 620429 | Women's, girls ensembles, material nes, not knit | 2,435 | 0.3 | 1.9 | 1.6 | 0.0 | 0.0 | | 0.0 | 0.0 |
| 600121 | Looped pile knit or crochet fabric, of cotton | 2,441 | 0.9 | 4.2 | 0.7 | 0.0 | | 16.5 | 0.1 | 4.4 |
| 520843 | Twill weave cotton, >85% <200g/m2, yarn dyed | 2,442 | | 2.7 | 1.2 | | | 3.5 | | |
| 521011 | Plain weave cotton <85% +manmade fiber <200g unbleached | 2,450 | | 1.1 | 288.4 | | | | | |
| 610729 | Men's, boys nightshirts or pajamas, material nes, knit | 2,487 | | 29.6 | 125.1 | 0.0 | | 0.1 | | 0.0 |

| HS 6-digit | Description | Ranking | RCAs Intra- and Inter-Regional Imports | | | | | | | |
|------------|---|---------|--|------|-------|-----|------|-----|-----|------|
| | | | AF | IN | PK | KZ | KG | TA | TK | UZ |
| 630619 | Tarpaulins, awnings and sunblind, of material nes | 2,491 | 27.2 | 1.5 | 27.2 | 0.0 | 5.0 | 0.3 | | 0.6 |
| 520710 | Cotton yarn (except sewing thread) >85% cotton, retail | 2,511 | 0.0 | 1.5 | 1.5 | | 0.3 | | 0.2 | 0.4 |
| 620899 | Women's, girls panties, bathrobes, etc., nes not knit | 2,517 | 0.0 | 2.0 | 5.2 | 0.0 | 1.2 | | 0.0 | 0.0 |
| 521211 | Woven cotton fabric, > 200g/m2, unbleached, nes | 2,531 | | 7.7 | 634.3 | | | | | |
| 510610 | Yarn of carded wool, >85% wool, not retail | 2,533 | 2.7 | 0.8 | 0.0 | 0.0 | | 1.4 | | |
| 540834 | Woven fabric of artificial filament, printed, nes | 2,545 | | 3.6 | | 0.2 | | 1.4 | | |
| 551211 | Woven fabric >85% polyester staple fiber unbl/bleached | 2,561 | 0.0 | 1.1 | 6.7 | 0.0 | | | | |
| 620829 | Women's girls nightdress, pajama, material nes not knit | 2,573 | 0.0 | 3.9 | 10.1 | 0.0 | 2.0 | 0.3 | 0.0 | 0.0 |
| 580190 | Woven pile, chenille fabric of yarn nes, except terry | 2,600 | 0.5 | 1.8 | 0.0 | 0.0 | 16.9 | | | 0.3 |
| 500710 | Woven fabric of noil silk | 2,609 | | 9.4 | 3.0 | | | | | 0.1 |
| 551321 | Woven plain >85% polyester + cotton, <170g/m2 dyed | 2,610 | | 0.5 | 75.8 | 0.0 | | 1.1 | | 0.1 |
| 611219 | Track suits, of materials nes, knit | 2,611 | 0.1 | 2.1 | 34.8 | 0.0 | 1.1 | 0.4 | | |
| 551090 | Yarn of artificial staple fibers, not retail, nes | 2,613 | | 2.0 | 2.1 | 0.0 | | | | |
| 620819 | Women's, girls slips etc., of material nes, not knit | 2,627 | 0.0 | 2.9 | 1.5 | 0.0 | | | 0.1 | 0.0 |
| 520922 | Twill weave cotton, >85% >200g/m2, bleached | 2,635 | | 2.7 | 35.8 | 0.0 | | | 0.3 | 0.0 |
| 521159 | Woven cotton nes, <85% +manmade fiber, >200g, printed | 2,641 | | 1.8 | 15.0 | 0.0 | 4.9 | | 0.0 | 0.0 |
| 650700 | Parts for hats and headgear | 2,643 | 1.1 | 1.9 | 0.1 | 0.0 | 0.0 | | | |
| 520841 | Plain weave cotton, >85% <100 g/m2, yarn dyed | 2,658 | | 2.6 | 20.3 | 0.0 | | | | |
| 620219 | Women's, girls overcoats of material nes, not knit | 2,672 | 0.0 | 0.5 | 5.2 | 0.0 | 1.0 | 0.0 | | 0.0 |
| 551591 | Woven fabric synthetic staple fiber with manmade, nes | 2,689 | | 5.6 | 0.0 | 0.7 | 27.8 | 0.0 | | |
| 551349 | Woven fabric>85% synth nes + cotton, <170g/m2 printed | 2,720 | 0.1 | 2.3 | 8.4 | 0.0 | 0.5 | | | |
| 610891 | Women's, girls bathrobe, dressing gowns, of knit cotton | 2,732 | | 0.6 | 4.3 | 0.0 | 0.9 | 0.0 | 0.0 | 4.6 |
| 630590 | Sacks & bags, packing, of materials nes | 2,736 | 0.2 | 2.7 | 12.3 | 0.0 | 0.1 | 0.0 | | |
| 590110 | Gum or amylaceous covered textiles for book covers et | 2,740 | 60.0 | 2.2 | 0.3 | | | | | |
| 621320 | Handkerchiefs, of cotton, not knit | 2,744 | 0.0 | 1.9 | 0.6 | 0.0 | 6.1 | 0.0 | | 0.7 |
| 520420 | Cotton sewing thread, retail | 2,745 | | 4.5 | 9.4 | 0.0 | 0.2 | | | 0.5 |
| 650699 | Headgear nes, of other materials | 2,763 | 0.1 | 0.3 | 1.6 | 0.0 | 4.5 | 0.2 | | 0.0 |
| 520813 | Twill weave cotton, >85% <200g/m2, unbleached | 2,782 | | 1.5 | 328.6 | | | | | 49.9 |
| 551110 | Yarn >85% synthetic staple fibers, retail, not sewing | 2,804 | 0.0 | 0.9 | 1.1 | 0.0 | 0.1 | 1.0 | | 1.3 |
| 610120 | Men's, boys overcoats, etc., of cotton, knit | 2,816 | 0.0 | 0.2 | 3.9 | 0.0 | 0.1 | 0.0 | 0.1 | 1.8 |
| 611699 | Gloves, mittens or mitts, nes, material nes knit | 2,839 | 2.9 | 2.0 | 115.7 | 0.3 | 0.1 | | | 0.0 |
| 610459 | Women's, girls skirts, of material nes, knit | 2,840 | 1.9 | 1.0 | 1.2 | 0.1 | 0.2 | 0.0 | 0.0 | 0.0 |
| 520541 | Cotton yarn >85% multiple combed >714 dtex, not retail | 2,843 | | 10.4 | 4.1 | | | | 1.5 | 45.6 |
| 570239 | Carpets of yarn nes, woven pile, not made up, nes | 2,868 | 1.2 | 7.3 | 0.0 | 0.0 | | | | 0.0 |

| HS 6-digit | Description | Ranking | RCAs Intra- and Inter-Regional Imports | | | | | | | |
|------------|---|---------|--|-----|-------|-----|------|-----|------|------|
| | | | AF | IN | PK | KZ | KG | TA | TK | UZ |
| 560221 | Felt not needleloom, wool/hair, not impregnated/coated | 2,876 | | 4.8 | 0.0 | 0.1 | 3.3 | | | 1.4 |
| 630319 | Curtains drapes blinds valances, material nes, knit | 2,884 | 0.0 | 3.5 | 168.0 | 0.1 | 0.0 | | | |
| 521212 | Woven cotton fabric, > 200g/m2, bleached, nes | 2,896 | | 5.6 | 273.0 | | | | | |
| 510310 | Coils of wool or of fine animal hair | 2,910 | | 3.5 | 3.2 | 0.2 | 2.1 | | | |
| 520624 | Cotton yarn <85% single combed 192-125 dtex, not retail | 2,915 | | 1.9 | 6.1 | | | | | |
| 610791 | Men's, boys bathrobes, dressing gowns etc. cotton, knit | 2,918 | 0.1 | 1.7 | 15.9 | 0.0 | 7.9 | 0.0 | 0.1 | 19.0 |
| 610190 | Men's, boys overcoats, etc., of material nes, knit | 2,926 | 0.0 | 0.9 | 29.2 | 0.0 | 15.0 | | 0.1 | |
| 590800 | Textile wicks, gas mantles | 2,968 | | 5.7 | 1.6 | 0.0 | | | | |
| 620620 | Women's, girls blouses & shirts, wool or hair, not knit | 2,985 | | 5.3 | 0.7 | 0.0 | 13.4 | | | |
| 520622 | Cotton yarn <85% single combed 714-232 dtex, not retail | 2,997 | | 1.4 | 18.5 | 0.0 | | | 1.6 | |
| 520929 | Woven cotton nes, >85% >200g/m2, bleached, nes | 3,002 | 0.0 | 1.1 | 17.6 | 0.0 | | | 0.0 | 0.3 |
| 620799 | Men's, boys dressing gowns, material nes, not knit | 3,061 | 0.0 | 1.8 | 114.1 | 0.0 | 0.3 | | 0.0 | 0.0 |
| 520611 | Cotton yarn <85% single uncombed >714dtex, not retail | 3,074 | | 1.1 | 25.0 | | | | | 0.9 |
| 580219 | Terry toweling etc. of cotton nes, width > 30cm | 3,113 | 0.0 | 1.6 | 36.1 | 0.1 | | | 11.2 | 4.7 |
| 620719 | Men's, boys underpants, briefs, material nes, not knit | 3,114 | 0.0 | 1.9 | 1.3 | | 4.9 | 0.0 | | |
| 521111 | Plain weave cotton, <85% +manmade fiber, >200g/m2 unb | 3,124 | | 3.9 | 58.2 | | | | | |
| 550630 | Staple fibers of acrylic, mod acrylic, carded or combed | 3,133 | | 1.3 | 0.0 | | | | | 2.2 |
| 610290 | Women's, girls overcoats, etc., material nes, knit | 3,135 | | 1.1 | 15.1 | 0.1 | 1.9 | 1.3 | 0.1 | |
| 540744 | Woven fabric >85% nylon, polyamide, printed, nes | 3,137 | | 1.6 | 4.9 | | | | | 0.0 |
| 540771 | Woven fabric >85% synthetic filament, nes | 3,147 | | 1.3 | 16.7 | | | 0.0 | | |
| 620811 | Women's, girls slips etc., of manmade fibers, not knit | 3,171 | | 5.5 | 4.4 | 0.0 | | | | |
| 580900 | Woven fabric incorporating metal threads, nes | 3,180 | | 4.2 | 0.1 | 0.2 | 39.3 | | | |
| 521131 | Plain weave cotton, <85% +manmade fiber, >200g, dyed | 3,192 | | 1.8 | 9.0 | | | | | |
| 610811 | Women's, girls slips or petticoats, manmade fiber knit | 3,195 | | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | | 0.0 |
| 590190 | Tracing cloth, painting canvas, stiffened textile nes | 3,200 | 24.3 | 0.1 | 1.9 | 0.0 | | | | |
| 630259 | Table linen, of material nes, not knit | 3,221 | 0.6 | 1.5 | 41.2 | 0.0 | 0.0 | | | 0.0 |
| 560129 | Wadding, products, material nes, not sanitary article | 3,239 | | 1.5 | 41.7 | 0.0 | 0.0 | | | 0.0 |
| 521214 | Woven cotton fabric, < 200g/m2, yarns mixed colors | 3,322 | | 2.1 | 1.5 | | 0.6 | 3.7 | | 0.1 |
| 520951 | Plain weave cotton, >85% >200g/m2, printed | 3,323 | 4.9 | 1.4 | 21.1 | 0.2 | | | 0.6 | |
| 600220 | Knit, crochet textile fabric, of a width < 30 cm, nes | 3,334 | | 0.5 | 0.8 | 0.0 | 1.3 | 3.8 | | |
| 621390 | Handkerchiefs, of material nes, not knit | 3,353 | 0.0 | 1.6 | 0.9 | 0.1 | 10.5 | 4.6 | | 0.1 |
| 521151 | Plain weave cotton, <85% +manmade fiber, >200g, prin | 3,365 | | 7.3 | 85.1 | | | | | |
| 521225 | Woven cotton fabric, > 200g/m2, printed, nes | 3,373 | | 2.5 | 84.1 | 0.0 | 0.3 | 0.3 | 0.1 | 0.8 |
| 620722 | Men's/boys nightshirts, pajama, manmade fiber, not knit | 3,404 | 1.3 | 2.5 | 0.9 | 0.0 | 0.4 | 0.0 | | |

| HS 6-digit | Description | Ranking | RCAs Intra- and Inter-Regional Imports | | | | | | | |
|------------|--|---------|--|-----|-------|-----|------|------|------|------|
| | | | AF | IN | PK | KZ | KG | TA | TK | UZ |
| 521051 | Plain weave cotton, <85% +manmade fiber, <200g print | 3,409 | | 1.5 | 112.0 | 0.0 | | | | |
| 521029 | Woven cotton nes, <85% +manmade fiber, <200g bleached | 3,417 | | 1.7 | 75.4 | | | | | |
| 620119 | Men's, boys overcoats of material nes, not knit | 3,422 | 0.0 | 0.4 | 7.5 | 0.0 | 2.6 | | 0.2 | 0.0 |
| 580390 | Gauze, except cotton, > 30 cm wide | 3,455 | | 1.6 | 4.3 | 0.0 | | 3.3 | | |
| 580430 | Hand-made lace, in the piece, in strips or in motifs | 3,464 | | 8.8 | 47.9 | | | | | |
| 630411 | Bedspreads, textile material, nes, knit or crochet | 3,472 | 1.0 | 3.5 | 20.5 | 0.0 | 0.4 | | | 0.2 |
| 570291 | Carpets of wool or fine hair, woven, made up, nes | 3,505 | 4.4 | 1.7 | 0.0 | 0.0 | 0.3 | 0.3 | | 0.0 |
| 531090 | Woven fabric of jute/bast fiber, not unbleached/bleached | 3,516 | | 4.2 | 65.0 | 0.0 | | | | |
| 520823 | Twill weave cotton, >85% <200g/m2, bleached | 3,562 | | 2.8 | 28.3 | | | | | 0.3 |
| 521224 | Woven cotton fabric, > 200g/m2, yarns mixed colors | 3,563 | | 2.3 | 3.0 | | 6.7 | | | 0.0 |
| 580126 | Chenille cotton fabric, width > 30 cm | 3,564 | | 3.5 | 1.7 | | | | | |
| 520941 | Plain weave cotton, >85% >200g/m2, yarn dyed | 3,583 | 1.0 | 1.2 | 0.8 | | 1.4 | | 4.2 | |
| 610461 | Women's, girls trousers & shorts, of wool hair, knit | 3,584 | | 1.9 | 1.0 | 0.0 | 3.3 | | 0.1 | |
| 520515 | Cotton yarn >85% single uncombed <125 dtex, not retail | 3,602 | | 1.5 | 22.8 | | | | 29.5 | |
| 611249 | Women's, girls swimwear, of material nes, knit | 3,613 | 6.8 | 1.6 | 4.4 | 0.0 | 0.2 | | | |
| 500200 | Raw silk (not thrown) | 3,615 | 13.4 | 0.1 | 0.0 | | | 9.5 | 2.5 | 36.4 |
| 430219 | Tanned, dressed whole furs except lamb/mink/rabbit/har | 3,633 | 2.5 | 0.0 | 0.3 | 0.0 | 0.9 | 0.2 | | 4.6 |
| 510129 | Degreased wool nes, not carded, combed or carbonized | 3,641 | 12.3 | 0.3 | 13.9 | 2.5 | 8.9 | | 2.6 | 0.6 |
| 551439 | Woven fabric>85% synth nes + cotton,>170g/m2 yarn dye | 3,683 | 3.1 | 1.0 | 1.2 | 0.1 | 2.2 | | | |
| 610899 | Women's, girls bathrobe, dressing gowns, nes, knit | 3,699 | 0.0 | 1.3 | 23.5 | 0.0 | 0.7 | | 0.0 | |
| 550992 | Yarn of other synth staple fibers + cotton not retail | 3,700 | | 1.9 | 1.6 | | | | | |
| 521221 | Woven cotton fabric, > 200g/m2, unbleached, nes | 3,708 | | 1.3 | 117.7 | 0.3 | | | | |
| 510510 | Carded wool | 3,716 | 11.1 | 0.1 | 7.4 | 6.9 | | | | |
| 521021 | Plain weave cotton <85% +manmade fiber, <200g bleached | 3,717 | | 1.1 | 738.4 | 0.0 | | | | |
| 611691 | Gloves, mittens or mitts, nes, of wool or hair, knit | 3,763 | 0.1 | 0.1 | 0.2 | 0.8 | 47.0 | 9.3 | | |
| 551130 | Yarn of artificial fibers except sewing thread, retail | 3,768 | | 2.9 | 16.9 | 0.0 | 2.1 | | | 0.1 |
| 551642 | Woven fabric <85% artificial staple cotton, dyed | 3,774 | | 1.5 | 8.5 | | | | | |
| 611591 | Hosiery nes, of wool or fine animal hair, knit | 3,804 | 0.3 | 0.2 | 0.0 | 0.0 | 29.5 | 5.2 | 0.0 | 0.1 |
| 520300 | Cotton, carded or combed | 3,807 | 3.0 | 0.2 | 45.3 | 8.7 | 0.9 | 13.0 | 1.4 | 8.4 |
| 521112 | Twill weave cotton, <85% +manmade fiber, >200g/m2 unb | 3,809 | | 1.5 | 80.6 | | 0.1 | | | |
| 520952 | Twill weave cotton, >85% >200g/m2, printed | 3,827 | | 1.1 | 31.7 | | | | 0.3 | |
| 580220 | Terry toweling etc., other than cotton, width > 30 cm | 3,833 | | 2.1 | 23.1 | 0.3 | 0.0 | | 0.3 | |
| 600242 | Warp knit fabric of cotton, nes | 3,834 | | 0.2 | 3.6 | | | | 5.6 | 32.3 |
| 630691 | Camping goods nes, of cotton | 3,842 | | 2.7 | 5.2 | 0.0 | | | | |

| HS 6-digit | Description | Ranking | RCAs Intra- and Inter-Regional Imports | | | | | | | |
|---|--|---------|--|------|-------|------|------|------|-------|------|
| | | | AF | IN | PK | KZ | KG | TA | TK | UZ |
| 520613 | Cotton yarn <85% single uncombed 232-192 dtex, not ret | 3,850 | | 1.3 | 24.0 | 0.1 | | | | 0.1 |
| 521222 | Woven cotton fabric, > 200g/m2, bleached, nes | 3,900 | | 8.7 | 119.9 | 0.2 | | | | |
| 510121 | Degreased shorn wool, not carded, combed or carbonize | 3,922 | 0.3 | | 0.6 | 0.3 | 1.6 | 0.6 | 7.7 | 8.5 |
| 520614 | Cotton yarn <85% single uncombed 192-125 dtex, not ret | 3,924 | | 2.0 | 9.2 | 0.8 | | | | |
| 580500 | Hand-woven and needle-worked tapestries, kit sets | 4,010 | 2.6 | 1.8 | 0.1 | 0.0 | | | | 1.8 |
| 500600 | Silk yarn retail, silk worm gut | 4,048 | | 2.9 | | 0.0 | | | | 20.0 |
| 520621 | Cotton yarn <85% single combed >714 dtex, not retail | 4,053 | | 1.1 | 1.8 | | | | | |
| 520419 | Cotton sewing thread, <85% cotton, not retail | 4,099 | 1.3 | 0.2 | 17.3 | 0.0 | | | | |
| 620729 | Men's, boys nightshirt, pajamas, material nes, not knit | 4,107 | | 1.1 | 114.1 | 0.2 | 0.1 | | | |
| 520645 | Cotton yarn <85% multiple combed <125 dtex, not retail | 4,185 | | 2.1 | 4.9 | | | | 6.0 | |
| 611239 | Men's, boys swimwear, of material nes, knit | 4,204 | | 1.2 | 2.9 | 0.0 | | | | |
| 520625 | Cotton yarn <85% single combed <125 dtex, not retail | 4,232 | | 2.1 | 7.6 | | | | | |
| 551291 | Woven fabric >85% synth staple fiber nes unbl/bleached | 4,318 | | 0.1 | 2.4 | | | 12.3 | | |
| 580640 | Fabric having warp, no weft, assembled using adhesive | 4,321 | | 0.1 | 8.1 | | | 1.4 | | 0.0 |
| 520631 | Cotton yarn <85% multiple uncombed >714, not ret., ne | 4,347 | | 0.0 | 1.2 | | | 8.0 | | |
| 520633 | Cotton yarn <85% multiple uncombed 232-192 dtex, not ret | 4,442 | | 1.2 | 56.8 | | | | | |
| 520634 | Cotton yarn <85% multiple uncombed 192-125 dtex, not ret | 4,467 | | 1.9 | 44.3 | 11.2 | | | | |
| 510521 | Combed wool in fragments | 4,471 | | 0.1 | 0.1 | 10.0 | 0.0 | | | 17.4 |
| 580211 | Terry toweling etc. of cotton, not narrow fabric, unb | 4,492 | | 0.2 | 10.7 | 2.0 | | | 205.4 | |
| Leather and Footwear Products (19) | | | | | | | | | | |
| 410439 | Bovine and equine leather, nes | 108 | 0.2 | 7.8 | 13.4 | 0.0 | 0.4 | 0.0 | | 0.1 |
| 410620 | Goat or kid skin leather, nes | 183 | 0.4 | 15.9 | 69.1 | 0.0 | 0.1 | | | 0.0 |
| 640320 | Footwear, soles/uppers leather, strap instep & big to | 495 | 0.0 | 36.8 | 35.4 | 0.0 | 0.0 | 68.4 | 0.1 | 5.8 |
| 420100 | Saddlery and harness, of any material | 517 | 0.1 | 5.4 | 3.6 | 0.0 | 0.0 | | 0.0 | 0.0 |
| 410520 | Sheep or lamb skin leather, nes | 525 | 0.1 | 5.3 | 26.2 | 0.0 | 0.0 | 0.4 | | 0.1 |
| 640319 | Sports footwear, except ski, uppers of leather | 561 | 0.0 | 3.0 | 1.8 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 |
| 420500 | Articles of leather and composition leather, nes | 853 | 0.2 | 1.8 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 410519 | Sheep or lamb skin leather, tanned or retanned, nes | 1,542 | 14.9 | 0.0 | 0.2 | 1.6 | 19.2 | 10.5 | 0.6 | 18.3 |
| 420229 | Handbags, of vulcanized fiber or paperboard | 1,750 | 0.0 | 1.0 | 1.6 | 0.1 | 0.6 | 0.0 | 0.0 | |
| 640199 | Waterproof footwear(Wellington) no toe cap, nes | 1,942 | 0.0 | 0.5 | 1.9 | 0.0 | 0.3 | 0.0 | 0.0 | 37.1 |
| 410790 | Leather, of animals nes | 2,109 | | 2.2 | 107.3 | 0.0 | 0.0 | | | 1.0 |
| 410619 | Goat or kid skin leather, tanned or retanned, nes | 2,634 | 9.2 | 0.1 | 0.3 | 0.1 | 2.9 | 8.5 | 1.4 | 17.1 |
| 410429 | Bovine and equine leather, tanned or retanned, nes | 2,805 | 2.6 | 0.0 | 0.2 | 1.3 | 5.2 | 15.7 | 0.3 | 6.0 |

Table A.62: Gravity Model Variable Descriptions and Sources

| Variable Name | Label | Unit | Detailed Description | Data Source |
|----------------|--|--------------|---|--|
| X | Exports, current US\$ | US\$ million | Value of bilateral export | IMF DOTS: http://www.imfstatistics.org/dot/ |
| Y_i | GDP of reporter (million), current US\$ | US\$ million | GDP of reporter country | WDI: World Development Indicator |
| Y_j | GDP of partner (million), current US\$ | US\$ million | GDP of partner country | WDI: World Development Indicator |
| D | Bilateral distance | km | Distance between trading partners | CEPII: http://www.cepii.fr |
| R | Real bilateral exchange rate (2000=100) | 2000=100 | Real bilateral exchange rate index. See Ch. for definition | Statistical Appendix of this report |
| C | bilateral trade costs | Percent | Bilateral trade costs computed by Inverse Gravity Framework | http://data.worldbank.org/data-catalog/trade-costs-dataset |
| W | Time to export (days) | Days | Time necessary to comply with all procedures required to export goods. | www.doingbusiness.org |
| D ₁ | Two countries are contiguous | Binary | Binary variable. Value of 1 if two countries contiguous and "0" otherwise | CEPII: http://www.cepii.fr and http://artnet.unescap.org/databases.html |
| D ₂ | Two countries share official language | Binary | Binary variable. Value of 1 if two countries share official language; 0 otherwise | CEPII: http://www.cepii.fr and http://artnet.unescap.org/databases.html |
| D ₃ | Two countries share common language based on the fact that at least 9% of each of the country speaks | Binary | Binary variable. Value of 1 if two countries share ethno-common language; 0 otherwise | CEPII: http://www.cepii.fr and http://artnet.unescap.org/databases.html |
| D ₄ | Two countries have ever had a colonial link | Binary | Binary variable. Value of 1 if two countries have had a colonial link; 0 otherwise | CEPII: http://www.cepii.fr and http://artnet.unescap.org/databases.html |
| D ₅ | Two countries have had a common colonizer after 1945 | Binary | Binary variable. Value of 1 if two countries have had a common colonizer; 0 otherwise | CEPII: http://www.cepii.fr and http://artnet.unescap.org/databases.html |

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