Spanish Merino wools and the Nouvelles Draperies: an industrial transformation in the late-medieval Low Countries

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Spanish merino wools and the nouvelles draperies: an industrial transformation in the late medieval Low Countries

By JOHN MUNRO

I

The world’s finest quality wools have long been those produced by the descendants of the Spanish merinos, ‘the aristocracy of sheep throughout the world’. For many centuries, however, the English had stoutly maintained that their own wools were unrivalled in fineness and quality. In his Wealth of nations (1776), Adam Smith caustically rejected such opinions, still common in his day, in particular the common belief ‘that fine cloth could not be made without’ English wools. Quite the opposite was true, he asserted, for ‘fine cloth is made altogether of Spanish wool’ and, furthermore, ‘English wool cannot be even so mixed with Spanish wool as to enter into the composition without spoiling and degrading, in some degree, the fabric of the cloth’.

Nevertheless, up to the sixteenth century, English assertions of producing Europe’s finest wools were no patriotic conceit. As Van Uytven has noted, ‘the superiority of English wool was a commonplace in medieval literature’. Furthermore, recent archaeological evidence from late-medieval woollen fabrics discovered in Novgorod substantiates those literary claims. Not only were these English wools by far the finest found there, but they were so fine

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1 I am grateful to the Social Sciences and Humanities Research Council of Canada for supporting the research for this article in the Belgian archives through its research grants programme, with four SSHRC grants from 1993 to 2003; and I am also very grateful to the three very perceptive and helpful referees of this article, which has had a long gestation. Its first version was a paper delivered to the Mid-West Medieval Conference, in Madison, Wisconsin, in November 1973, which, unfortunately, I never sought to publish, since it lacked much of the research now contained in this published version. It was revised for Session 16 of the XIIIth International Economic History Congress, in Buenos Aires, July 2002 (and also not published); and it has been revised several times since then.

2 Lopez, ‘The origin of the merino sheep’, p. 151. Cf. Ryder, Sheep & man, p. 425: that merino sheep were ‘the leading producer of clothing wool of the modern world’.

3 Smith, Wealth of nations, pp. 5–16. Much of this passage was plagiarized from Smith, Chronicon rusticum-commercialia, II, pp. 499, 542. Ryder, Sheep & man, p. 426, notes that c.1700 England was importing 2 million lb. of Spanish merino wools to make ‘superfine’ woollens. See also Hartwell, ‘Destiny of British wool’, pp. 320–38.

4 Van Uytven, ‘Cloth in medieval literature’, p. 177.

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(17 to 24 microns) that they ‘were comparable only to the present-day wool of the merino sheep’.6

Lastly, evidence can be cited from the records of their chief customers, the cloth manufacturing industries in the medieval Low Countries. For example, a keure or ordinance of the Bruges drapery, dated 1282, stipulated that the drapers were to distinguish the various grades of their woollens by the following insignia on their lead seals: for those made from English wools, with three crosses; for those made from Scottish wools, with two crosses; those from Irish wools, with one cross; and those from domestic Flemish wools, a half-cross—and Spanish wools are conspicuous by their absence.7 Numerous other ordinances from this period leave no doubt that English wools were by far the most highly prized, though far from being the only ones used in the Low Countries’ cloth industries of the twelfth, thirteenth, and early fourteenth centuries.8 The best English wools were then by far the most expensive, as were the textiles made from them; and such high market prices presumably do reflect their superior quality.9

II

As the 1282 Bruges ordinance indicates, the thirteenth-century Flemish cloth industry had not confined itself just to the production of very costly fabrics woven from fine English wools. Indeed, in a seminal article published in 1987, Patrick Chorley had challenged the long-held traditional views about this industry’s luxury orientation during the twelfth and thirteenth centuries by contending that the majority of its textile exports were in the form of relatively cheap, light, low-grade textiles. Amongst the most prominent were both very coarse woollens, and especially worsted-type fabrics: saies (says), serges (saergen), stanfortes, biffes, fauderts, burels, doucken.10 Only for the sayetteries does the documentation permit us to assert they were never woven from English wools, but rather from those produced domestically, in

7 Espinas and Pirenne, Recueil de documents, I, no. 140: 67, p. 396. ‘Sealed’ cloths are those to which the guild and city inspectors had fixed certain lead seals to certify that they had been inspected for quality controls in wool contents, weaving, fulling, and finishing, etc. See Endrei and Egan, ‘Sealing of cloth’, pp. 47–76.
8 Espinas and Pirenne, Recueil de documents, I, no. 77, 196 (Arras: c.1280); no. 651, p. 234 (Saint-Omer: c.1270); no. 141bis, pp. 443–46 (Bruges: 1288); III, no. 765, p. 501 (Ypres: c.1300); Espinas, Douai au moyen âge, III, no. 287, pp. 232–334 (Douai: c.1250); and no. 408 (Douai: 1261). For the use of domestic Flemish wools, see Verhulst, ‘De inlandse wol’, pp. 6–18; Verhulst, ‘La laine indigène’, pp. 281–327; Van Uytven, ‘Hierlandsche wol’, pp. 5–16. For the variety of wools used in the Leuven drapery in 1298, see Prims, ‘Lakenrijverheid’, doc. no. 8, pp. 147–8.
9 Munro, ‘Wool price schedules’, pp. 118–69; Munro, ‘1357 Wool-price schedule’; and Munro, ‘Medieval scarlet’.
SPANISH MERINO WOOLS AND THE NOUVELLES DRAPERIES

Flanders and Brabant, and from Artois, Lorraine, Pomerania, as well as from other parts of the British Isles, especially Ireland. Yet, in all likelihood, most of the other cheap fabrics were also produced from non-English or very cheap, and thus grossly inferior, English wools (since the quality and thus the price range of medieval English wools were certainly very wide).

The type and grade of wool selected was the prime determinant of not only the quality, and thus the price of textiles manufactured in medieval Europe, but also of their very form: in terms of weight, texture, and appearance. During this era, the Flemish themselves divided wool-based cloth manufacturing into two major categories: the ‘wet’ or ‘greased’ drapery (draperie ointe, gesmoutte draperie) and the ‘dry’ or ‘light’ drapery (draperies sèches or draperies légères; drooge draperie or lichte draperie). This division roughly corresponds to the more modern English distinction between woollens and worsteds (or: Old Draperies and New Draperies). The distinction, and a basic knowledge of the technology of cloth-manufacturing, is absolutely fundamental in understanding why the finer English medieval wools and then the early modern Spanish merino wools were used only in manufacturing the former group of textiles, while the earlier medieval, pre-merino Spanish wools had been restricted to just the very lower grades of the latter, though in fact banned from the production of most wool-based textiles. Such indisputable evidence is itself proof that wool production in medieval and early modern Spain underwent an astonishing transformation in both physical properties and thus in quality and price, one not well understood in the current literature.

Genuine woollens were woven from very fine, very short, and curly-fibred wools, which were heavily greased in butter or oil for three related reasons: to restore the natural oils or lanolin lost in extensive wool-scouring; to facilitate the combing (warps), carding (wefts), spinning, and weaving processes; and thus to protect these very delicate fibres from entanglements or damage in these processes. After their removal from the loom, the woollen cloths were subjected to extensive fulling. In the traditional process of foot-fulling, virtually the exclusive method used in the Low Countries from the early-fourteenth to early-sixteenth centuries, the fullers placed the woven cloth in a large, long vat, containing a mixture of hot water, fuller’s earth (floridin, with hydrous aluminium silicates, usually kaolinite), and urine. A pair of journeymen then trod upon the cloth, in this noxious emulsion, for three days (or more for very luxurious cloths). Their objectives were

12 See Munro, ‘Wool price schedules’; and nn. 48, 65, 67, and 88 below.
14 In my view, this is the chief weakness in Carla Rahn and William Phillips fine monograph: Spain’s golden fleece (1997).
achieved through a combination of intense pressure, heat, and the reaction of the chemicals: to scour and cleanse the cloth and thus to remove all the grease; and to force these short, scaly, and curly fibres to interlace, interlock, felt, and then shrink, so that the fulled cloth would acquire its necessary cohesion, strength, and tenacity. The very heavy weight of these woollens was itself largely the product of such shrinkage, which reduced the surface area by more than 50 per cent. Fulled in this fashion, these heavy woollens were virtually indestructible, lasting several lifetimes.15

The fulled woollens were then tautly stretched, by hooks, on a tentering frame, to remove any wrinkles, and to ensure even dimensions throughout (thus restoring some of the lost surface area). The cloth was then handed over to the cloth-finishers, who subjected it to repeated ‘raising’ or ‘napping’ (with thistle-like teasels), in order to raise the loose fibres of the ‘nap’, which were then shorn with long, sharp shears. The end result of both fulling and finishing was the complete obliteration of the weave, and a very soft texture, rivalling that of some silks.

In sharp contrast, the fabrics produced by the ‘dry’ or worsted-type draperies were made from much stronger and longer-stapled, straight-fibred wools, which required neither initial scouring nor any greasing—and hence the term ‘dry drapery’. Fully combed, rather than carded, the resultant yarns, for both warps and wefts, when properly twisted in the spinning processes, had sufficient strength and cohesion so that, when woven, they were in essence fully manufactured, as reasonably durable cloths, though far less durable than fulled woollens. Thus, they did not require any real fulling, beyond a brief and simple cleansing; nor were they tentered, ‘napped’ (teaselled), or shorn. Consequently, they were much lighter—and coarser—cloths, whose weave was perfectly visible, thereby providing an element of the cloth’s design or fashion, especially with diamond or lozenge weaves. Included in these draperies sèches were hybrid fabrics, including the famous Hondschoote saies, which were composed of ‘dry’ long-stapled warps (combed) and shorter-stapled greased wefts (carded); and these were generally given a cursory fulling, though usually left unshorn. While the purely worsted fabrics generally had only 25 per cent of the weight of the true and extensively fulled woollens, the hybrid fabrics had about 40 per cent of their weight, as is indicated in table 1.16

The products of both branches of cloth making, the draperies ointes and the draperies sèches or légères, had a very wide-ranging continuum of values, from the extremely expensive scarlets (whose purchase would have cost a


Table 1. *The composition and weights of selected woollens and worsteds in Flanders and England, during the 15th and 16th centuries*

<table>
<thead>
<tr>
<th>Type of textile industry</th>
<th>Flanders: Ghent</th>
<th>Flanders: Armentières</th>
<th>Flanders: Hondschoote</th>
<th>England: Suffolk</th>
<th>England: Essex: Colchester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of cloth</td>
<td>Dickenden: 5 seal woollen broadcloth</td>
<td>Oultreffin woollen broadcloth</td>
<td>Sayetterie: semi-worsted</td>
<td>Old Drapery: woollen broadcloth</td>
<td>New Drapery: semi-worsted Single bays</td>
</tr>
<tr>
<td>Dates of ordinance</td>
<td>1461; 1546</td>
<td>1510–12; 1546</td>
<td>1571; 1586</td>
<td>1552</td>
<td>1579</td>
</tr>
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<td>Wools used</td>
<td>English: Cotswolds, Middle March, Berkshire</td>
<td>Spanish: 67%; Flemish, Scottish, Frisian, Kempen, Pomeranian: worsted warp and woollen weft</td>
<td>English: 33%; Flemish, Scottish, Frisian, Kempen, Pomeranian: worsted warp and woollen weft</td>
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Notes: a 1 Flemish ell = 0.700 metre = 27.599 inches.

medieval master mason several years’ income) to the relatively cheaper biffes and some says.17 Generally speaking, the more expensive fabrics were products of the draperie ointe and the cheaper fabrics were products of the draperies sèches or légères; but there were some woollens that were as cheap as (or even cheaper than) the better semi-worsted products of the latter branch. The term ‘relatively cheap’ does not mean, however, that the lower strata of thirteenth-century Mediterranean society, let alone the truly poor, could afford to buy such textiles from the northern draperies légères, especially not after transport costs and taxes were added into the sales price. Such people were much more likely to have worn homespun or domestically made fabrics.18

III

Of the very wide variety of wools used in the manufacture of these various cloths in north-western Europe during the thirteenth and early-fourteenth centuries, surprisingly those from Spain were used only rarely—despite the thirteenth-century formation and subsequent prominence of the ‘Mesta Real’ organization of Castilian sheep-herders.19 Thus, the keurboeken or guild regulations of the Flemish and Artesian textile towns of this era permitted the use of ‘Spanish’ wools only for the very lowest quality saergen or similar products of the lowest strata of the draperies légères, and possibly only for domestic consumption.20 Otherwise, in this era, these Franco-Flemish draperies contemptuously rejected Spanish wools, classing them with other forbidden wools (forbidden at least for ‘sealed’ cloth production), such as: *watertulle*, *hoedewulle*, *peeltulle*, *plootwulle*, *vlocken*, and similar *faux lanages*.21 In the great Artesian drapery of Arras, that ban on the use of

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17 Munro, ‘Medieval scarlet’; and Munro, ‘Textiles as articles of consumption’.
18 For evidence that the ‘cheaper-line’ textiles sold in the Mediterranean basin were still too costly for the average peasant or craftsmen, in the early fourteenth century, see Munro, ‘Origins of the English “New Draperies”’, tab. 5, p. 55; tab. 7, p. 88; Fryde von Stromer, ‘Stamford cloth’, pp. 8–13; and especially Epstein, *Freedom and growth*, p. 106, which offers some perfectly valid criticisms of my earlier published views, concerning these cloth values. See also sources cited in n. 10; and see also below, pp. 440–2 and nn. 38–40.
21 See Espinas and Pirenne, *Recueil de documents*, I, no. 142:22, pp. 456–7: ‘so wie die watertulle, jof spaensche wulle minghede met andre wulle, jof hoedwulle, jof spaensch garen met anderen gaerne, jof vlocken met wulle’ was to be exiled from Flanders for three years (Bruges drapery keure of c.1290).

Similar bans in Ibid., I, no. 139–54, p. 377 (Bruges, 1282); no. 141:25, p. 400 (Bruges, 1284); no. 20, p. 49 (Aardenburg, c.1350); no. 63, p. 159 (Arras, 1367); and in III, no. 758:14 (Ypres drapery heure of c.1290): ‘a savoir ke le fileit ke on claime waterwullin est tenus pour faus et fileit de Yspaingne . . .’. The term *watertulle* meant wools damaged by moisture; *hoedewulle* were refuse wools or clippings, discarded in various cloth-making processes, that were used in making felt hats and hoods; *vlocken, flocons*, *bourres* were also refuse or waste wools produced by fulling, napping, and shearing. See De Poerck, *La draperie médiévale*, II: *Glossaire français* and III: *Glossaire flamand*, especially in nn. 85, 115 below. See also note 7 above (for cloth seals).
Spanish wools lasted until as late as 1377, and certainly no Flemish or other drapery in this region permitted the use of Spanish wools in this era.  

Surprisingly, no Spanish wools are mentioned in the Venetian wool tariff of c.1300, nor in the Veronese drapery regulations of 1319, even though the Italian cloth industries of this era were also manufacturing a wide variety of relatively cheap and light fabrics. No Spanish wools are mentioned, in fact, until the late fourteenth century. Furthermore, the textile industries within thirteenth-century Spain itself (Castile, Catalonia-Aragon) were evidently devoted almost exclusively to the production of relatively cheap, light, and coarse fabrics.

Finally, in late-thirteenth and early-fourteenth century England, the few surviving ‘Particulars’ customs accounts indicate that small but sometimes significant quantities of Spanish wools were being imported, with a peak import in 1308–9. During this period, English cloth exports were then even more oriented to the cheaper, lighter fabrics than were the Flemish or Italian. Nevertheless, in 1262, the weavers of Andover (north-west of Winchester, in Hampshire) had prohibited the use of any Spanish wools in making cheap kerseys (cersegis). More accommodating were the London burellers’ guild, whose ordinances, reconfirmed in 1299–1300 (28 Edward I) and 1321, indicate that their craft was principally devoted to the production of relatively cheap, coarse, and light fabrics, far lighter than broadcloths, with the following specified weights for cloths, all having a width of six-quarter ells (1.5 yards): cloths woven from Spanish wools, 11.0 lb. (5.0 kg); menuet and andley, 9.0 lb., ‘coming from the weaver’; bissets, 9.5 lb.; rayed cloths (reies), porreis, and hawes, 10.0 lb. in weight—very low

22 Espinas and Pirenne, Recueil de documents, I, no. 66:5, p. 168 (1377): ‘Qu’il ne soit aucuns ne aucune qui . . . mette ou face mettre es dis draps faulx lanage, si comme boure, flocon, lanceuse, laneton, gratuse, pomele, file d’Espaigne, file de Bonnival, ne aultres faulx lanages quelconques’. The contention in Stabel, De kleine stad, pp. 131–2, that Kortrijk’s drapery keure of April 1378 permitted the use of Spanish wools is not justified by the text: concerning ‘alle sudersche wulle die commen sal binnen der stede van Curtrike’; for sudersche cannot be translated as Spanish, nor even as ‘southern’ (i.e. zuidelijk) but perhaps as scour’d (cleansed, from suveren), or possibly Kampen wools from the Zuider Zee region; as in n. 95 below. For the Kortrijk keure, see Espinas and Pirenne, Recueil de documents, I, no. 205, p. 667; and also the ordinance of Dec. 1901 (which does not mention these wools, and certainly not Spanish), in ibid., no. 207, pp. 670–5.

23 Rossini and Mazzaoui, ‘Società e tecnica nel medioevo’, pp. 22–23. The Venetian tariff includes seven varieties of wool (but none from Iberia); the Veronese regulations mention only North African and English wools.


25 For details on Spanish wool imports, see Childs, Anglo-Castilian trade, pp. 73–5. The peak imports of 1308–9 amounted to 268 sacks plus 298 bales (of unknown weight), worth about £400–500 sterling (citing National Archives [P.R.O.], E.122/136/8). For several examples of Spanish wool imports into Sandwich (taxed by the 1303 New Custom), for Mich. 1304–Mich. 1305, See Gras, Early English customs system, pp. 312–24, doc. no. 34: e.g., Philip Furner, for £28 6s 0d worth of ‘lane Hispanie’. See Munro, ‘Industrial crisis’, pp. 102.13; Chorley, ‘English cloth exports’, pp. 1–10; Childs, ‘English export trade in cloth’, pp. 121–47; Childs, Anglo-Castilian trade, pp. 70–5.

26 Gross, Gild merchant, II, p. 4: ‘de ills qui ponun lanam de Ispania in pannis tersegis . . . et promittant etiam quod nullum pannum facient, nisi dicant ballius’.

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weights compared to those for later-medieval English broadcloths, which were generally about 64 lb. or 29.03 kg. (see table 1).

These ordinances, however, similarly forbade the intermixture of Spanish wools with any English wools, and permitted the Spanish wools alone to be dyed ‘in blecche’ (black dye).

IV

Such wools were quite clearly not the Spanish merino wools of subsequent fame, and indeed very different from them in all respects. If the Romans had, according to some reports, produced some good quality wools when they governed Iberia, such wools had evidently disappeared during the subsequent Visigothic era, so that over the many ensuing centuries this region produced some of the very worst wools in all of western Europe. No resolution of the vexing problem of when and how the radical transformation took place to allow this region to breed those famed merino sheep can be found in Carla Rahn Phillips’ and William Phillips’ recent authoritative and excellent monograph on the Spanish wool trade; for they admit that ‘much of the discussion about the Merino will remain speculative’. Many years earlier, however, Robert Lopez had offered a still compelling hypothesis on the origins of the true merinos: as the result of the fourteenth-century crossbreeding North African ‘Barbary’ sheep with indigenous Spanish sheep. As other historians have also suggested, the name merino is probably derived from the Berber tribe, the Banu Marin, better known

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28 See the Ordinationes Telariorum (28 Edwardi I), in Riley, Munimenta Gildhallae Londoniensis, II.i, pp. 121–6 (articles 18–23); and II.ii, pp. 544–50; and also: Woodger, ‘Eclipse of the burel weaver’, pp. 59–76. The dimensions of these cloths were not specified, but they were probably at least 25 to 30 yards. The London burels of this era were said to be 40 yards long; and other English burels were described as products of the grant ustil, which was undoubtedly the horizontal broad loom, designed to weave very long as well as broad cloths.

29 Riley, Munimenta Gildhallae Londoniensis, II.i, 125: art. xviii: ‘qe nul ne face medle de filetz d’Engleterre et d’Espayne, mes lun enterement par sei.’; art. xix: ‘Et qe nule leyne d’Engleterre ne soit teynte en blecche, fors taunsoulement leyne d’Espayne; et qe drap de leyne d’Espayne soit fait soulement par soy, saunz medlure et doit peiser au meyns xi livres quant il vendra de teler’. According to Riley, Ibid., II.ii, 701: ‘bleeche: probably a peculiar shade of black (from the A.S. blaec); and perhaps prepared from woad’.


31 Phillips and Phillips, Spain’s golden fleece, pp. 40–1. See Klein, Mesta, pp. 8, 12–15, 17–21, 28–30, 320, 607, 708; Ryder, Sheep & man, pp. 249–51, 425–36, repeating Klein’s view that the name may come from the Berber tribe of ‘Beni Merines’, ‘who settled in southern Spain . . . towards the end of the thirteenth century’; but Ryder (p. 425) seems to give greater weight to the view that merino comes from the Latin manornus, a local government official, in particular royal inspectors of sheep-walks.

as the Marinids (or Merinids) of Morocco, who invaded Spain in 1275, and almost succeeded in restoring the former Berber Almohad Empire (1130–1269). Possibly, with their reconquest of Andalusia, the Marinids introduced some of their sheep. But, in Lopez’s view, that introduction was more likely achieved through Spanish imports, and probably only after the final Castilian victory over the Marinid invaders, at the Battle of Rio Salado in 1340, which finally brought some peace to Christian Spain. Shortly thereafter, according to royal records, Pedro IV of Aragon (1337–87) imported some Barbary rams for his domains. As Lopez also suggested, some considerable time would have been required for experimentations to result in a crossbreeding that would produce higher quality wools, those especially with the very short staples of under 5 cm (2 in); and even more time would have been required for the Castilians to increase their flocks of merino sheep to produce sufficient quantities of wool for export.

Evidently those sheep that did become known as merino were very different from not only the indigenous Spanish flocks but also from the imported Barbary rams, perhaps because of genetic interactions of recessive genes in the two breeds of sheep. Possibly the shorter and finer wool-fibres were also, as in medieval England, partly the product of various environmental factors and flock management. One such factor may have been the nature of, or changes in, Spain’s famed transhumance: the annual migrations or itinerant pasturage, from the high northern plateaux of Leon and Segovia some 725 km to the southern plains of Extremadura and Andalusia. These migrations also involved sparse feeding in mountainous regions with often-chilly climates, both of which evidently promoted an improved fineness. Indeed, a seventeenth-century English observer later commented that ‘there is nothing of this Nature wherein the Spaniards are more curious, than in the manner of feeding their Sheep, which contributeth much to the well growth and fineness of their Fleece’. Phillips and Phillips, however, assert that ‘there is little question that breeding is the most important determinant of fleece quality’, and they also cite some later Spanish authorities who denied


35 Sir William Godolphin, Secretary to the English Embassy in Spain (December 1667), cited in Carter, *His Majesty’s Spanish flock*, p 6, n. 469; and pp. 9, 420–21; also cited in Ryder, *Sheep & man*, p. 430.

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that transhumance played any significant role in improving wool quality. Nevertheless, they conclude that: ‘nutrition, climate, and other factors play roles as well’; and they further state that ‘seasonal migration contributed to wool quality in a variety of ways’, in particular by providing ‘a healthful and fairly consistent combination of temperature, light, humidity, and nutrition for the sheep, within the extreme conditions of the Iberian ecology’.36

The first significant Spanish wool exports, while taking place only several decades after the initial establishment of *merino* flocks, were certainly not those of the fully evolved fine, short-stapled fleece of later renown. Thus, in the earliest Italian records of their commercial use, during the later 1380s and 1390s, the Spanish wools, under the name of *lane di San Mateo*, variously ranked a poor fourth or fifth in value in the Italian draperies of Verona, Prato, Florence, and Genoa: after English, Minorcan, Majorcan, and French wools. In Florence and Prato, in 1396–98, the best Spanish wools, priced at 14.50 florins per 100 lb., were worth only 41.2 per cent of the Cotswolds wools, which sold there for 35.17 florins per 100 lb. Another Prato wool-price schedule of the 1390s similarly priced Spanish wools (£21 0s. 06. *affiorino*) at just 41 per cent of the value of the English wools listed here. At Genoa, in March 1395, Spanish wools cost 10 *lire* per *cantaro*, compared to 26–30 *lire* for English wools (including Cotswolds, at 26–28 *lire*) per *contaro*.37 How and why subsequently, in the early to mid-fifteenth century, possibly improved Spanish *merino* wools were introduced into some of the woollen cloth industries in the southern Low Countries can be answered only by examining the radical changes in international commerce, especially in the textile trades, during the late thirteenth and early to mid-fourteenth centuries.

V

As I have argued elsewhere, a spreading stain of almost continuous, widespread, and very disruptive wars from the 1290s, throughout the Mediterranean basin and western Europe, sharply raised both the transportation and general transaction costs in long-distance international trade to often prohibitive levels for commerce in relatively low-valued commodities, especially the cheaper-line textiles.38 Those rising costs, especially when

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36 Phillips and Phillips, *Spain’s golden fleece*, p. 99. See also Ryder, *Sheep & man*, pp. 427–36, for the importance that he ascribes to Spanish transhumance, noting (p. 428) that *transhumantes merinos* are ‘larger, more slender and long-legged, with finer wools’, than those in more sedentary flocks.


combined with often-severe regional depopulation in major cloth markets, undermined the commercial economies of scale requisite for a sustained international commerce in such cheap commodities. Obviously the producers of these cheaper-line textiles that were most affected were those in the Low Countries, northern France, and England, because most of their exports had been directed to far-distant Mediterranean markets. As I have sought to demonstrate in these publications, the proof for this virtual extinction of the northern sayetteries and other draperies légères—at least as export-producers—can be found not just from the sudden disappearance of their guild records and marketing activities, but also the virtual disappearance of their products in Mediterranean markets, from the 1330s. Of those sayetteries that had once been so predominant, only two significant centres managed to survive, and just barely, into the fifteenth century: those of Arras and Hondschoote, which maintained some Hanseatic markets. But, only shadows of their former selves, they did not achieve a sustained recovery before the end of that century.39

Consequently, most of the cloth industries in northwestern Europe chose to re-orient their export-oriented production to the manufacture of high-priced luxury woollen textiles, i.e. to the upper ranges of the draperies ointes. Such a re-orientation, a veritable industrial transformation, had two related objectives that would have better ensured the survival of cloth-manufacturing, commerce, and some prosperity in this region, albeit for a smaller number of producers and merchants. First, the value to weight ratios for these luxury cloths meant that they could far better sustain the rise in transport and transaction costs than could commerce in cheap textiles. Second, such production involved a far higher degree of product differentiation—especially in those techniques designed to convince consumers of superior quality over competitors’ products. Thus these draperies, at least collectively in terms of the drapers’ guilds in each town, rather than in terms of individual producers, became ‘price-makers’ engaged in monopolistic competition, designed to make the demand for their individual products much less elastic. That demand structure allowed them to raise prices, to some reasonable degree, to meet any rising costs without necessarily losing too many customers.40

39 For Hondschoote, see below, nn. 186–95; Coornaert, Hondschoote, pp. 10–43; Munro, ‘Origins of the English “New Draperies”’, tab. 6, p. 63, and pp. 83–93. Regulations on fulling saies can be found in the drapery keure for the very small town of Aires, dated 1358–9: in Espinas and Pirenne, Recueil de documents, I, no. 10, p. 29. An undated textile tariff for Aalst, in Ibid, I, no. 19, pp. 43–44, probably drafted sometime in the fourteenth century, does refer to say-like serges: ‘die van binnen Aelst moghen saergen binnen doen weven’; but there is no justification in these texts for the recent assertion, in Stabel, De kleine stad, pp. 126–7, that these saergen were woven from Spanish (or Scottish) wools.

40 That also explains why, during the later fourteenth and fifteenth centuries, the major Flemish and Brabantine draperies were able to continue selling their fine woollens for up to three times the prices of English broadcloths. See tab. 2, and sources cited in nn. 10–12 and 38 above; and also Munro, ‘Urban regulation’, pp. 41–52; Munro, ‘Symbiosis of towns and textiles’, tab. 2, pp. 50–1; and text, pp. 40–58; and Munro, ‘Medieval woollens: struggle for markets’, pp. 228–324.

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Perhaps the most dramatic and convincing evidence of this mid-fourteenth-century industrial transformation in the southern Low Countries was the rise of the so-called *nouvelles draperies*, some of whom subsequently survived, in the fifteenth century, only by resorting to that very new form of Spanish wools—the *merinos*. Often classed as ‘rural draperies’, these Flemish *nouvelles draperies* (*nieuwe draperie*) were in fact virtually all cloth producers in small towns (*smalle* or *kleine steden*). Most of them had earlier engaged in marketing those much cheaper and light fabrics of the *draperies sèches* or *légères*; and, following the path of the draperies in the three largest cities, known as the *drie steden* (Ghent, Bruges, Ypres), they also transformed their draperies in order to manufacture genuine heavyweight woollens of the *draperies ointes* (*ghesmoutte draperie*), indeed often in direct imitations of those produced by the *drie steden*. As table 1 shows, the composition, dimensions, and weights of their woollens were very similar to those luxury woollens manufactured in the Flemish *drie steden*. In this table also demonstrates why the Flemish *nouvelles draperies* must never be confused with the ‘New Draperies’ of later Tudor and Stuart England, which, in fact, were transplanted offshoots of the subsequently resurrected Flemish *sayetteries*.

From almost the very moment that the upstart Flemish *nouvelles draperies* had shed their own origins as members of *draperies légères* (including *sayetteries*) to engage in manufacturing heavyweight luxury-class woollens, they found themselves subjected to military attacks from the *drie steden*, who, as early as 1314, had obtained bans from the Flemish counts that severely restricted cloth making within their urban jurisdictions (18–30 km). Ypres proved to be the most relentless, because it was the most threatened by the most successful rivals, chiefly found in the nearby Leie (Lys) valley, above all: Poperinge, Wervik, Langemark, Comines (Komen), and Nieuwkerk (Neuve-Eglise). In complaining to the count’s officials, the Ypres magis-

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41 See also Munro, ‘Medieval woollens: struggle for markets’, pp. 249–62; tabs 5.7–5.8, pp. 312–16. From each of these woollen broadcloths, about three suits of adult-male clothing could be made.


43 Ghent had been the first Flemish city to receive a ban or privilege, in July 1314, from Count Robert de Béthune, severely restricting cloth making to cheap fabrics, with a limited number of looms and vats, within five comital miles (30 km) of city walls. In October 1322, his successor, Count Louis de Nevers granted both Bruges and Ypres similar comital bans, though restricting cloth making to within just 18 km of city walls. But already existing *franches villes* were excluded from the ban. During his reign, Louis granted or confirmed a number of charters to the following draperies: in particular, Hulst, Aalst, Warneton, Deinze, Lenteke, and Poperinge, most of whom sealed their woollens. See Espinas and Pirenne, *Recueil de documents*, III, no. 883, pp. 774–6; and no. 895, pp. 777–81; and Nicholas, *Towns and countryside*, pp. 76–116, and 203–21. For the lead seals, see n. 7 above.

44 When Ypres’ charter and ban were renewed in 1357, its aldermen (*schepenen*) complained ‘hoe dat men in vele steden ende doornen alomme drapiert gheleik ende contrefaite lakene van vouden, van lijsten, van langhen ende van breeden, ende naer dat men drapieret in onse voors[eiden] stede’. See Espinas and Pirenne, *Recueil de documents*, III, no. 895, pp. 777–81. In January 1373 (see the following note), Ypres complained that Poperinge was making cloths ‘up deseive langhe, breedde, ende lijsten van den lakene van Ypre, want bute lands men soude niet bekennen de lakene van Ypre onder de lakene van Poperinge’. See texts in De Pauw, *Ypre jeghen Poperinge*, pp. 101, and also pp. 86–90, 105–15, 157–60.
trates frequently charged them with ‘counterfeiting the cloths made in our
town, in the pleats, lists [selvages], length and breadth’, contending further,
that ‘in foreign lands, no one can tell the difference between the cloths of
Poperinge and those of Ypres’. When, in 1373, the Council of Flanders
summoned Poperinge to defend itself against such charges, and against
Ypres’ demand that Poperinge restrict its cloth making to the *gaernine ende
onghesmoutte draperie*, producing just plain ‘dry’ worsted fabrics, the
Poperinge drapers contended that if they were forced to do so, ‘not even
one person in ten could be employed in trying to sell cloths of the
*droge draperie* [i.e. *draperie sèche*].’ They noted furthermore that they were certainly
not the only ones in this predicament, listing a dozen other neighbouring
draperies that had also ‘completely abandoned the *droge draperie*’, and had
switched to the *ghesmoutte draperie*, producing heavyweight fulled woollens.
That list included all of the now prominent *nouvelles draperies*: Kortrijk,
Diksmuide, Roulers, Comines, Warneton, Menen, Linselles, Bousbecques,
Deinze, Dendermonde, and Oudenaarde (though it surprisingly omitted
Wervik, one of the current leaders).45

The evidence on later-medieval markets for textiles in Mediterranean and
Baltic (Polish) markets helps to explain why the Flemish *drie steden* became
so concerned about competition from the *nouvelles draperies*, for the latter
were selling their ‘counterfeit’ woollens for about half the prices of those
sold by the *drie steden* and the major Brabantine drapery towns.46 Neverthe-
less, most of the *nouvelles draperies’* woollens were generally more expensive
than English broadcloths sold in these markets; and most were indisputably
luxury products, as is clearly evident from a comparison of their relative
domestic values in Table 2; particularly in terms of the very considerable
number of days’ wages required for a master mason to purchase each type

45 The outcome of the trial is not provided, in the texts given in De Pauw,
*Ypre jeghen Poperinghe*, pp. 1–180; and a condensed version in Espinas and Pirenne,
*Recueil de documents*, III, no. 649, pp. 168–222. The Poperinge drapers, however, did not mention Wervik, Langemarck, Neuve-Eglise,
or Estaires amongst those that had switched from the *droge draperie* to the *ghesmoutte draperie*,
though much evidence indicates that they too had done so by this era. In 1397, Wervik forbade its
weavers to make any serge-type cloths: ‘dat gheen wever die vri wever es niet moet weven saergsen
noch siegsen anders danne Wervicshe lakene’. Text in De Sagher et al., *Recueil de documents*, III,
no. 554:104, p. 465. For evidence that Bergues-Saint-Winoc and Furnes had similarly switched their
cloth production by the early fourteenth century, see Coornaert, *Hondschoote*, pp. 30, 46–7. For
evidence that Estaires had produced only *sayes* and *cauches* in the thirteenth century, but genuine
woollens thereafter, see Espinas *La draperie dans la Flandre française*, II, p. 838. For Diksmuide,

46 See the various tables of cloth prices in: Munro, ‘Industrial Protectionism’, tabs 13.2–13.5,
pp. 256–67; Munro, ‘Medieval scarlet’, tabs 3.4–3.12, pp. 40–52; tab. 3.13, p. 62; tab. 3.14, pp. 67–9;
Munro, ‘Industrial transformations’, tab. 4.1, p. 142; Appendix 4.1, pp. 143–8; Munro, ‘Origins of the
English “New Draperies”’, tabs 1–2, pp. 39–40; tab. 3, pp. 42–4; tabs 7–8, pp. 88–9; Munro,
‘Symbiosis of towns and textiles’, tab. 2, pp. 50–1; Munro, ‘Medieval woollens: struggle for markets’,
tab. 5.10, pp. 318–24.
Table 2. Prices of English and Flemish woollen broadcloths, in pounds sterling English and pounds groot Flemish in quinquennial means, 1351–55 to 1516–20: with the number of days wages for a master mason to buy one woollen broadcloth (Cambridge, Ghent, Wervik, Nieuwerkerk), and the Flemish Composite Price Index (1451–75 = 100)

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<th>ENGLAND No. of days wages for SE English Master Mason to buy one 1st quality broadcloth: harmonic mean$^a$</th>
<th>ENGLAND Cambridge prices of 2nd quality broadcloths in £ sterling</th>
<th>ENGLAND No. of days wages for SE English Master Mason to buy one 2nd quality broadcloth: harmonic mean$^a$</th>
<th>ENGLAND Mean values of cloth exports from all English ports in £ sterling</th>
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### Part I: England ad.

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<td>Years (5-year means)</td>
<td>FLANDERS: Composite Price Index</td>
<td>GHENT: Price of first quality Ghent Dщидinnen broadcloths in £ groot Flemish</td>
<td>WERKIK: No. of days wages to buy one woollen: harmonic mean</td>
<td>NIEUWKERK NIEPKERK: Prices of first quality woollens in £ groot Flemish</td>
<td>NIEUWKERK NIEPKERK: No. of days wages to buy one woollen: harmonic mean</td>
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Table 2. Continued
### Part II: Flanders ctd.

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<tr>
<th>Years</th>
<th>FLANDERS: Composite Price Index</th>
<th>GHENT</th>
<th>WERKIK</th>
<th>NIEUWERK</th>
<th>NIEPKERK</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>basket of consumables</td>
<td>No. of days wages for Master Mason to buy one woollen: Prices of first quality woollens</td>
<td>No. of days wages to buy one woollen: Prices of first quality woollens</td>
<td>No. of days wages to buy one woollen: Prices of first quality woollens</td>
<td>No. of days wages to buy one woollen: Prices of first quality woollens</td>
</tr>
<tr>
<td></td>
<td>1451–75 = 100</td>
<td>156.853</td>
<td>10.998</td>
<td>237.068</td>
<td>156.853</td>
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<tr>
<td>1481–85</td>
<td>126.295d groot Flemish</td>
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<tr>
<td>1486–90</td>
<td>184.511</td>
<td>16.914</td>
<td>n.a.</td>
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<td>1497–02</td>
<td>n.a.</td>
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<td>1498–03</td>
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<td>1499–04</td>
<td>13.000</td>
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<td>1500–05</td>
<td>13.13</td>
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</table>

Notes: a the harmonic mean is the reciprocal of the arithmetic mean of the reciprocals of the individual numbers in a given series (here: five years). See Mills, Statistics, pp. 108–12, 401.

b Wervik: a Flemish nouvelle draperie that continued to rely on English wools until the 1460s.

c Nieuwkerk (Nieuw-Eghe) and Niepkreik: Flemish nouvelles draperies that adopted or switched to Spanish merino wools from the 1420s. Average prices for both woollens, each year, in the Bruges market.

of woollen broadcloth—sometimes almost a year’s annual wage income (for 210 days), for a Ghent dickedinnen.

But this table is somewhat deceptive in suggesting that the values of later-medieval English broadcloths (second or even first quality) sold in Cambridge and those of Wervik woollens sold in the Bruges market were roughly comparable, when expressed in the number of days’ wages required to buy each of them. For, in fact, real wages—the purchasing powers of the money wage (in silver coin)—in south-eastern England were then generally far below those in Flanders: fluctuating between a low of 45 per cent and a high of 68 per cent of that for a Bruges master mason in the later fourteenth and early fifteenth centuries; and between 53 per cent and 79 per cent of the Bruges mason’s real wage, from the 1420s to the 1480s (when individual wage data cease in the Bruges city accounts).47

VI

As far as this article is concerned, the chief result of this industrial re-orientation in the Low Countries’ textile production was an increasing dependency on the finer English wools, which were clearly the sine qua non requirement for luxury woollens. The economic consequences of that dependency, for both the nouvelles draperies and for the history of the Spanish wool trade, must now be examined and explained.

As noted earlier, however, medieval England produced a wide variety of wools, from very fine to very coarse.48 In a classic study, Bowden contended that, because (in his view) medieval England had lacked distinctly defined sheep breeds, the very finest wools, with very short-stapled and curly fibres, were therefore essentially the consequence of environmental factors, chiefly a combination of a moist, chilly climate and sparse feeding to be found: first, in the Welsh Marches of Herefordshire (Leominster, especially) and Shropshire; and, for the second-best qualities, in the Cotswolds district of neighbouring Gloucestershire, Worcestershire, Oxfordshire, and Berkshire. The third-ranking wools, but still of high quality, were found in the Lindsey and Kesteven districts of Lincolnshire, in the north-eastern Midlands; and their fineness was evidently the product of sparse pastures in over-grazed open (common) fields.49 Indeed, sheep breeding would have been difficult to achieve in the open-field husbandry of the later-medieval Midlands, with the intermingling of peasant flocks on both pastures and the post-harvested fields of the arable. In the thirteenth

47 Munro, ‘Builders’ wages’, pp. 1041–66. The purchasing power of the mason’s wage in terms of textiles is expressed in quinquennial harmonic means: explained in tab. 2, n. (a).
48 See Munro, ‘Wool price schedules’, pp. 118–69; and above, nn. 11–12.
49 Bowden, ‘Wool supply’, pp. 44–58; Bowden, Wool trade, pp. 1–76. Bowden also stated that medieval sheep had at least two coats, containing wool staples of varying lengths and finenesses, so that these environmental factors would have given the short-stapled fibres predominance in the fleece. He also contended that the sheep that produced such wools were very small animals, with very light fleeces, far smaller and lighter-fleeced than those of the eighteenth century. For the current debate about the relative
century, good evidence indicates, however, that Cistercian estates were importing breeding rams for their demesne flocks, in their houses in the Welsh Marches (with the very highest priced wools), but also in Yorkshire, whose environmental conditions can not explain their very highly priced wools.\textsuperscript{50} Considerably inferior and thus much cheaper wools came from other parts of the Midlands, while those from the north (Cumberland, Northumberland, Westmorland, Durham, Yorkshire North Riding), from East Anglia, and the south-west (Devon and Cornwall) were far too inferior to be used in the production of fine woollens. Evidence to substantiate these rankings, in terms of wool prices, can be found in several medieval English wool-price schedules.\textsuperscript{51}

Evidence that the Flemish industrial reorientation from the 1330s had involved a strict reliance on the finer English wools alone also can be found in many guild documents from this period, some specifying only the very finest English wools. Thus a Bruges drapery \textit{keure} from about this period stipulated that ‘no one shall be permitted to make any Bruges cloth from any wools other than English wools, except for the production of \textit{smalle lakene}’ [i.e. the much cheaper small cloths].\textsuperscript{52} In 1456, Ghent, the second of the \textit{drie steden}, reconfirmed a \textit{keure} specifying that, its ‘fine cloths called \textit{dickedinnen}, and other cloths, that are woven and made within the city of Ghent’, were to contain only ‘Fine March and Middle March wools, fine Cotswolds, and Cotswolds-Berkshire wools and no others’.\textsuperscript{53} Similar if less explicit regulations can be found in the Flemish drapery \textit{keuren} of Ypres (c.1390) and Douai (May 1430).\textsuperscript{54}

\begin{footnotesize}
\begin{itemize}
\item \textsuperscript{50} Munro, ‘Wool price schedules’, pp. 211–19, and especially n. 9; Munro, ‘Medieval woollens: textiles’, pp. 186–91. See also Trow-Smith, \textit{British livestock husbandry}, pp. 142–4, 161–2; Hartwell, ‘Destiny of British wool’, pp. 328–9.
\item \textsuperscript{52} Delepierre and Willems, \textit{Keuren de tous les métiers de Bruges}, p. 42: ‘dat niemene en gheoorloft eenige Bruchsche lakene te reedene danne van Yngelscher wullen, ute ghedaen smalle laken’ [in the fullers’ and weavers’ \textit{keuren}, as reconfirmed in 1408].
\item \textsuperscript{53} Stadsarchief Gent, Reeks 93, reg. KK, fo. 103’ (which I have personally examined), reprinted, with different punctuation, in Boone, ‘Nieuwe teksten over de Gentse draperie’, pp. 1–61; ‘ap dmaecken ende drapieren van den finen lakene, gheehten dickedinnen, ende andere lakenen, die men drapiert ende maeckt binnen der stede van Ghent: eerst zal men maken de voorseide lakenen van fijnder maertse [Welsh Marches: Shropshire and Herefordshire] ende middelmaertse [Middle March] wulle, fijne cootswale [Cotswold], ende fine cootswale bartsiere [Cotswold-Berkshire], ende van gheender andere’. For the reissue of this same ordinance on 22 May 1546, see the texts in Lameere and Simont, \textit{Recueil des ordonnances}, V, pp. 272–83.
\item \textsuperscript{54} See Espinas and Pirenne, \textit{Recueil de documents}, III, no. 792, pp. 633–8 (Ypres); and II, no. 380, p. 322 (Douai).
\end{itemize}
\end{footnotesize}
In neighbouring Brabant, a fifteenth-century keure from the Leuven drapery similarly stipulated that, at least for the production of its sealed woollens, only the better-quality English wools be used, and none worth less than 11 marks (£7 6s. 8d. sterling) a sack, clearly in the upper price range. A Brussels drapery keure from this same period similarly required its drapers to make their traditional woollens (the so-called lakenen van de drie staten) only from 'March wools, or the best Cotswolds wools, or the best [Lincolnshire] Lindsey wools'. In the county of Holland, to the north, the young cloth industry at Leiden (founded c. 1360), imposed the same ordinance for the production of its sealed woollens, in 1396, though possibly this was a confirmation of an earlier ordinance. In 1418, the Leiden magistrates more specifically banned 'all Scottish, Newcastle, Flemish, and domestic woolfells or any wools whatsoever, that have not come from the English Staple', without mentioning any Spanish wools.

Similarly, most of the nouvelles draperies of the southern Low Countries, in imitating the finer cloths of the drie steden, necessarily also had to use at least some English wools to produce fabrics of convincing quality for European consumers, just as a medieval coin counterfeiter had to use some genuine gold or silver. Most of these nouvelles draperies had guild organizations and keurboeken containing drapery regulations, chiefly for quality controls, similar to those of the traditional urban draperies; and two of them, those for Wervik and Diksmuide, similarly had articles forbidding the use of any but good quality English wools. Two others, for whom complete drapery keuren are lacking, have also been recorded as using only English wools:


56 Stadsarchief Brussel [SAB], no. XVI: Het Wit Correctieboek, fo. 193° (22 June 1443, reissued 20 March 1444); van Maertscher [March] wollen, of vander bester Cudzewoutscher [Cotswold] wollen, of vander bester Linenzee [Lincolnshire Lindsey] wollen’. See also the keuren, for 27 January 1466, 16 November 1467, and 5 June 1497, in SAB, no. 1435, fos. 1°; 3°; and no. 1436, fo. 13°. Some of these texts have been partially published in ‘La “nouvelle draperie” à Bruxelles’, pp. 143–67; Favresse, ‘Actes relatifs à la draperie urbaine’, pp. 1–100. Similar keuren requiring the use of these very same English wools are to be found in the neighbouring Brabantine drapery of Lier (dated 23 March 1448), in Van der Wee, ‘Stadt Lier’, pp. 148–9.

57 Posthumus, Bronnen, I, doc. no. 12, pp. 20–1: ‘so en moet nyement binnen Leyden enigh wol drapenieren, dair men die laken af rekken sel, dan Enghelesche sacwol jof Enghelesche vacht wol [fleece wool]’. This may have been a reissue of an earlier ordinance.

58 Ibid., I, no. 74:17 (Boek VII), p. 74. The English wool staple is the one established at Calais in 1363. The term Casteelsche velle refers to Newcastle woolfells, in England, not to Castile. This drapery keure was reconfirmed in 1423, 1434, and several times thereafter, in ibid., I, no. 115, p. 132; no. 117, p. 133. In 1442, the Leiden drapery keuren also forbade the use of any wool cheaper than those from Lindsey (Lincolnshire): ‘lager in den prijs dan Lysa-Mersche wolle’. ibid., no. 1323, p. 147; no. 166, pp. 186–7. See also Munro, ‘Wool price schedules’, pp. 118–69; Munro, ‘1357 wool price schedule’, pp. 211–19.

wools in this era: Kortrijk and Langemark. Many others—for example Oudenaarde, Comines, Menen, and Estaires—while using good English wools for their best grade woollens, were also then using lower-quality English or Scottish wools or even, in some draperies, Flemish wools, for second- and third-grade woollens (possibly just for regional markets). Other factors that permitted them to sell their woollens for lower prices than those for the drrie steden’s woollens were possibly simplified weaving and finishing techniques, much cheaper dyes, and certainly lower labour costs. But the largest component of production costs nevertheless was the wool itself; and the ordinances do not indicate that they ever used a lesser quantity of wool (per square metre of finished cloth). Nevertheless, this reliance on fine English wools was chiefly confined to production for export markets. Most draperies in the Low Countries also used a wide variety of other wools—principally Scottish, Flemish, and subsequently also, some Spanish wools—in weaving much cheaper textiles for the domestic market: the so-called smalle lakenen, which were generally unregulated and thus unsealed.

VII

The English government had not been loath to exploit the Low Countries’ growing dependency on its country’s finer wools in its fiscal policies, whose evolution subsequently provided many Low Country draperies—especially the nouvelles draperies—with by far their strongest incentive to switch from English to Spanish wools.

The initial taxation of English wool exports had begun much earlier, with the Edward I’s Old Custom of 1275, which imposed a quite modest levy of 6s 8d per sack (364 lb. or 166.45 kg); then, by the New Custom of 1303, Edward increased the tax, but on alien exports only, to 10s 0d per sack. Subsequently, in September 1336, his grandson Edward III secured an additional ‘subsidy’ of 20s per sack, in order to finance his coming cam-

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61 See Espinas and Pirenne, Recueil de documents, I, no. 118, pp. 265–9 (Oudenaaerde drapery keure, of 1338, forbidding the use of lamwulle, but otherwise not specifying use of wools in the production of fine dickedinnen woollens); no. 121, pp. 294–7 (1387 Oudenaaerde drapery heure, specifying the use of bester inghelsche wulle, or scotscher wulle, or vlaemscher tidagher wulle, without mixing them, while forbidding anyone using other wools to make sealed raemlaken; ibid., II, no. 42, pp. 945–6 (Comines, 1390); De Sagher, Recueil de documents, II, no. 207, pp. 16–17 (Comines); vol. 2, no. 265, pp. 276–79 (Estaires); and III, no. 396, p. 37; no. 400, pp. 42–9 (Menen). See also Stabel, De kleine stad, pp. 124–41. The word tidagher, tidkegher, tidich, tidin, etc. means wool from the mature sheep (not lambs’ wool), shorn at the appropriate season. De Poerck, La draperie médiévale, III, nos. 738–9, p. 158.

62 See tab. 2; and Munro, ‘Medieval woollens: struggle for markets’, tabs 5.7–5.8, pp. 312–15. See also Coornaert, ‘Draperies rurales’, pp. 90–1. At Aalst, in the mid-fifteenth century, master building masons and carpenters earned only 6d. groot Flemish per day, compared to (summer) wages of 10d and then 12d per day for such building craftsmen in Bruges. Algemeen Rijksarchief België, Rekenkamer, registers 31,440–44 (Aalst), and 32,494–97 (Bruges).

63 See notes 7 (on seals), 8, 11 above and 83–9, below.

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paigns in France, those that began the Hundred Years War. Shortly after, in March 1338, the crown increased the export duties to 33s. 4d. per sack, and, in November 1341, to 40s. 0d. for a total burden of 46s. 8d. per sack (50s. 0d. a sack for aliens), a rate that was periodically reconfirmed by subsequent parliaments.64

Nevertheless, the chief tax burden was initially borne not by the overseas customers but by the English wool growers, in the form of lower prices.65 In March 1363, in evident response to the complaints of landowners and tenants-in-chief, who dominated Parliament, Edward III established the Company of the Staple in the recently conquered French port of Calais, and decreed that henceforth all English wool exports to northern Europe were to pass through this Staple, while empowering the new Company to manage the sale of all English wools there. The obvious intention of this Staple organization was to ensure that the tax incidence would be passed more fully on to the foreign buyers; but, as some studies have revealed, the Staplers took almost three decades to become fully united and sufficiently effective as a cartel in achieving those goals.66 In 1399, it should be noted, Parliament finally conceded that the very coarse and cheap northern wools could no longer be subjected to the high wool export taxes and the burdens of the Calais Staple requirements; and thus it permitted their export, on licence, directly from Berwick (and, subsequently also, from Newcastle), to Zealand and Flanders, and at the much lower export duty of 13s. 4d. per sack.67

By the mid-1390s, when the denizen export duties on those English wools subjected to the Calais Staple had risen to 50s. a sack, the crown's fiscal policies were having a very deleterious effect on both English wool exports and cloth production in the Low Countries, chiefly because of the impact of monetary contraction and a stark deflation on the structure of wool export duties. While wool prices and the English price level fell about

66 See Lloyd, *English wool trade*, pp. 193–256; Ormrod, ‘Crown and the English economy’, pp. 149–83; Munro, ‘Anglo-Flemish competition’, pp. 37–60. Up to the 1390s, the crown had undermined the Calais Staplers' ability to function as a cartel by allowing Italian and Spanish merchants to bypass the Staple in exporting wools directly by sea to the Mediterranean (1378); by granting other exemptions to ship wools directly to Middelburg and Dordrecht; by selling export licences; and by periodically removing the Staple from Calais (intermittently in 1369–76, in 1382–8, and 1390–2). From the 1390s, further steep increases in the alien export duty—up to 68s per sack by 1416—drastically reduced the aliens' share of wool exports—generally under 10 per cent in the early fifteenth century. See Munro, ‘Medieval woollens: struggle for markets’, tabs 5.1 and 5.3, pp. 299–301, 304–5.
67 *Rotuli Parliamentorum*, III, 429, no. 87; and *Statutes of the Realm*, II, 112 (1 Hen. IV, c.3). This statute also confirmed the Italian's exemption, dating from 1378, from the Calais Staple, indicating that the Berwick exemption may have dated from then as well. For evidence on crown licences to permit the export of Scottish wools, and those from Westmorland, Cumberland, Northumberland, and Durham directly from Berwick and/or Newcastle free of the Staple, directly to Zealand (Middelburg) or to Flanders, see Munro, *Wool, cloth and gold*, pp. 54–5, 57, 72, 85–6, 91, 94–6, 100, 107, 109, 110, 115, 120, 140, 147, 160. See also nn. 12, 51, above.
30 per cent from the early 1370s, the wool export duties remained fixed and specific (rather than ad valorem), and thus constituted an ever-higher proportion of the ‘real’ wool prices—indeed, 50 per cent by the mid-1390s. Consequently, these tax-burdened English wools were then responsible for as much as 70–75 per cent of the pre-finishing manufacturing costs of luxury woollen cloth production in the Low Countries.

An even more harmful consequence of English fiscal policies was to provide a very substantial, if quite unintended, advantage to English woollen broadcloth exports, because of the large gulf that developed between the ‘real’ export taxes on wool and those on broadcloths (made from the same fine wools, purchased domestically tax free). English cloth exports were first subjected to taxation in 1303, by the Carta Mercatoria and New Custom; but the tax, at 12d per standard broadcloth ‘without grain’ (kermes dye), applied only to aliens. Denizen exports were not taxed until Edward III’s imposition of the Cloth Custom, in 1347, at 14d per standard broadcloth. Hanseatic merchants, citing the Carta Mercatoria, refused to pay anything beyond the 1303 New Custom, but other aliens accepted an increase that raised their export tax to 33d per broadcloth. That higher rate thus allowed English and Hanseatic merchants to garner the lion’s share of the cloth export trade—from 75 to 85 per cent of the total over the next half century.

In the later fourteenth and early fifteenth centuries, the tax burden on denizen and Hanseatic cloth exports was only about 2.5 per cent, when the average export value was just £2.00 to £2.50 per cloth. That difference in export taxes gave the English cloth trade a cost advantage of about 25 to 30 per cent over those continental rivals who continued to use English wools exclusively.

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68 Mean English wool prices fell from £7.894 per sack in 1371–5 to £4.954 per sack in 1391–5, a drop of 37.2 per cent; the English composite price index (base 100.00, 1451–75) declined from a mean of 146.64 in 1361–5 to 106.33 in 1391–5, a drop of 27.5 per cent. The Flemish composite price index (base 100, 1451–75) fell from a mean of 115.22 in 1371–5 to 88.51 in 1391–5, a drop of 23.2 per cent. See Munro, ‘Medieval woollens: struggle for markets’, Tables 5.1, pp. 299–301; Munro, ‘Bullion flows’, pp. 97–126; Munro, ‘Wage stickiness’, pp. 213–26, tabs 4–5, pp. 236–42, tab. 8, pp. 249–50.

69 Another consequence of the tax structure was to encourage or force their draperies to re-orient even further to ultra-luxury production by purchasing only the most expensive Staple wools, for which the specific tax burden was thus a proportionately smaller burden. See Munro, ‘Industrial protectionism’, pp. 229–67, especially tab. 13.2, p. 256 (Leuven, 1434: 76.2 per cent of pre-finishing costs); Munro, ‘Medieval scarlet’, tab. 3.12, p. 52 (Ypres, 1501: 51.9 per cent of total costs, 64.2 per cent of pre-finishing costs). See also Lloyd, English wool trade, p. 12.

70 The Carta Mercatoria levied a rate of 2s. 0d. on each ‘scarlet’ (cloths dyed wholly in grain) and 1s. 6d. on each cloth partly dyed in grain; but very few of these very costly cloths were ever exported. The 1347 Cloth Custom, which also raised the export taxes on full- and half-grain dyed broadcloths, added 1s. 9d. to the existing 1s. 0d. tax on alien exports, to total 2s. 9d.. From 1347 to 1373, a further cloth-export duty, known as the ‘subsidy of poundage’, at 6d per pound value (2.5 per cent), was periodically levied; and in 1373 it was raised to 12d per pound (5.0 per cent). In 1410–11 it was abolished for Hansard and denizen merchants, and thereafter paid only by ‘other aliens’. See Gras, Early English customs system, pp. 66–85; Carus-Wilson and Coleman, England’s export trade, pp. 194–8. For grain-dyed cloth exports, see; Munro, ‘Medieval scarlet’, pp. 13–70; Munro, ‘Industrial crisis’, pp. 103–41.

71 See Munro, ‘Medieval woollens: struggle for markets’, tab. 5.4, pp. 306–7.

72 See nn. 65–9, and calculations in Munro, ‘Anglo-Flemish Competition’, pp. 37–60; Munro, ‘Symbiosis of towns and textiles’, pp. 38–9; 52–3.
The impact of the English fiscal policies on English exports and Flemish cloth production can be seen in the following statistics, for the period 1361–65 to 1396–1400. Quinquennial mean wool exports fell by 44 per cent—from 30,129.2 to 16,889.6 sacks—while mean broadcloth exports more than tripled, from 11,757 cloths to 38,775 cloths. For the Flemish and Brabantine draperies of Ghent, Leuven, and Mechelen, we possess only the very imprecise indicators of the annual drapery tax farm sales, which undoubtedly exaggerate the fall, if the tax rates also fell. For this same period, the quinquennial mean value of the Ghent tax farm sales fell by 84.1 per cent; those for Leuven, by 73.8 per cent by one measure (in the silver-based pond oude groot, to 1391–95); 69.6 per cent by another (in Rhenish gold florins, from 1371–75 to 1396–1400). For the Mechelen drapery, these tax-farm indices fell by 40.0 per cent, but partly because the tax rates were evidently raised. Part of this decline, but not all, reflects the consequences of plague and war-induced depopulation and other economic disruptions of the late fourteenth-century economy.

The initial Flemish response to this growing English threat, from as early as the 1350s, had been to ban all imports of English woollens (though not serges or worsteds). Perhaps a more rational response would have been to seek out an alternative source of fine wools. Evidently, however, no satisfactory alternatives to English wool were then available. The complex problem, therefore, is to ascertain precisely when Spanish merino wools did become available to the Low Countries as a substitute for English wools.


Munro, ‘Medieval woollens: struggle for markets’, tabs 5.5–5.6, pp. 308–11; Munro, ‘Symbiosis of towns and textiles’, tabs 1–2, pp. 42–3, 50–1.

From the Black Death era, the combined total of English woolsack and broadcloth exports (at 4.333 cloths per sack) fell by 27.9 per cent: from the equivalent of 120,349.12 cloths in 1346–50 to 111,963.31 cloths in 1396–1400. Munro, ‘Medieval woollens: struggle for markets’, tabs 5.3–5.6, pp. 304–11.

On this Flemish cloth ban, see Munro, ‘Bruges and the abortive Staple’, pp. 1138–59; Munro, ‘Industrial Protectionism’, pp. 7–9; and for the temporary bans issued in Holland and Brabant, in 1428, see pp. 68–9, and 94. For an alternative interpretation (in my view unconvincing), see Bruze, ‘Engels laken in Vlaanderen’, pp. 10–20. In June 1359, after the Hanseatic League launched a strong protest, the Flemish granted the League the exclusive right to re-export English cloths via Sluis on the Zwin (outport of Bruges), provided that such cloths ‘remain bound within the bales that they were packed in . . . and that they be re-exported from the Zwin, even though this be greatly harmful to the drapery of Bruges’. See Höhlbaum, Hansische Urkundenbuch, III, no. 430, p. 201.

These statistics indicate that, contrary to the implicit expectations of the English crown, the demand for English wools was not so inelastic, certainly not as inelastic as the demand for salt in the French gabelle; but that does not indicate the availability of substitute wools. The demand for wool is derived from the demand for the finished product, i.e. woollen broadcloths; and for that product the English broadcloth trade was obviously providing an effective substitute for some but not all: not for those who still prized the superiority of Flemish and Brabantine woollens, and were willing to pay the price differential.
In the Low Countries, the first documented use of Spanish merino wools was about thirty years after the first recorded sales in Italy; and possibly this prolonged delay reflects a deep, long-held historic prejudice in northern Europe against the earlier non-merino Spanish wools, and indeed may explain why only cheaper, poorer-quality Spanish wools were initially employed in the early fifteenth-century Low Countries. Certainly the reason for the delay does not lie in any lack of commercial relations with Iberia, which, despite ongoing piracy, grew strongly during the fourteenth century. By the 1330s, the Catalan merchants had become so numerous at Bruges that they were able to form a consulate there, one of the oldest; but they were not involved in any wool trade.\footnote{See above, pp. 436–8 and nn. 20–9.} In 1343, the Drie Leden ['Members'] of Flanders granted Castilian merchants a charter of privileges, which was expanded into a full treaty in November 1348, and subsequently reconfirmed in April 1367 and June 1389. The only commodities specifically listed in these charters and treaties are wines, leather, and iron; and thus no Spanish wools were mentioned in any of the treaties.\footnote{Biscayans can be found at Bruges from c.1230; and Catalans, from c.1250. See Mariéchal, ‘Colonie espagnole de Bruges’, p. 5; Verlinden, ‘Rise of Spanish trade’, pp. 54–6; and also Phillips, ‘Merchants of the Fleece’, pp. 75–86; but this admirable essay has virtually no information on Flemish-Castilian trade in the fourteenth century.} In fact, not before the famous charter of commercial privileges that Duke Philip the Good of Burgundy (1419–67), as count of Flanders, granted the Castilian merchants at Bruges, on 11 October 1428 were Spanish wools finally mentioned; but by this time they had become a very prominent aspect of Spanish (Castilian-Basque) trade.\footnote{Gilliiodts-Van Severen, Ancien consulat d’Espagne, I, pp. 8–13; Gilliiodts-Van Severen, Archives de Bruges, II, no. 564, pp. 130–1; Finot, Relations commerciales, pp. 97–9, 126–7, 147–8; and Verlinden, ‘Politique économique’, p. 700.} In this era, Spanish wools were exported in a very wide variety; and most of those first used in the Low Countries were, as just indicated, of very low quality. Thus, the earliest recorded use of Spanish wools in this region is a drapery keure for relatively coarse and cheap woollens, dated July 1407, in the neighbouring French bishopric of Tournai;\footnote{Gilliiodts-Van Severen, Archives de Bruges, IV, no. 970, pp. 496–8. See also Finot, Relations commerciales, pp. 159–60; and Verlinden, ‘Politique économique’, pp. 694–700.} but shortly after, in 1410, the Tournai magistrates banned the use of such wools in tapestry weaving (a luxury product).\footnote{For ‘draps appelés vacques’, an inferior woollen cloth with a weft ‘composée des grosses laines d’Espaigne et d’Alemaigne’, but later, the 1437 keure provides an indication of higher quality wools: ‘sauqs de laynne d’Engleterre, du sacq d’Escoche, de chacun balle de laynne d’Espagne’. Texts in Dubois, ‘Draperie de Tournai’, pp. 144–65, 219–35, especially no. 175, p. 160; no. 248, p. 221.} The second regional reference is found in the Oudenaarde Toll registers for 1413–16. Their data, recently published by Verroken, indicate that over 33 months Ghent shippers transported 101 sacks (or bales) of Spanish wool, along with 99 sacks 2 pokes of Scottish wools for the drapery keure for relatively coarse and cheap woollens, dated July 1407, in the neighbouring French bishopric of Tournai;\footnote{Verroken, ‘Een Oudenaards tolregister’, p. 101, citing Soil, ‘Tapisseries de Tournai’, p. 369.} but shortly after, in 1410, the Tournai magistrates banned the use of such wools in tapestry weaving (a luxury product).\footnote{Verroken, ‘Een Oudenaards tolregister’, p. 101, citing Soil, ‘Tapisseries de Tournai’, p. 369.} The second regional reference is found in the Oudenaarde Toll registers for 1413–16. Their data, recently published by Verroken, indicate that over 33 months Ghent shippers transported 101 sacks (or bales) of Spanish wool, along with 99 sacks 2 pokes of Scottish...
wools, 16 sacks of schoorling, 2 sacks (or packs) of drommen, 73 sacks of hoedwol, and 41 sacks 3 pokes of other unnamed wools, up the Scheldt river, for delivery to Oudenaarde or Tournai (or so Verroken contends). The latter three commodities in this list were all waste and other grossly inferior wools, whose use, as noted earlier, was always forbidden in the regulated draperies for manufacturing sealed woollens, but permitted in the production of unregulated, unsealed smalle takenen. Thus, while Bruges had for so long resolutely ensured that only the finest English wools were used in producing its sealed woollens, certainly until 1533, a civic ordinance dated 1434 permitted the use of Flemish, Scottish, and Spanish wools in the manufacture of the town’s unregulated, unsealed smalle takenen (narrow and short). Similarly, while the Ghent drapery had also long stipulated that its dickedinnen and other fine sealed woollens be woven exclusively from the finest English wools (March, Cotswold, Berkshire), ‘and no others’, a civic ordinance of February 1462 also authorized the production of smalle takenen from plootwulle, hoedwulle, and also lambs’ wool (lameulle). Verroken has also found records in Ghent of purchases of Spanish wools in 1410–12, 1434, and 1467–68. But those buying them were also, variously, purchasers of hoedwulle, making caps and hats, or purchasers of very cheap English wools from Zealand (i.e. those exempted from the Calais Staple), or carpet weavers and linen weavers—but none documented as members of the regulated drapery. Furthermore, the actual tariffs or tolls levied stipulated in the Oudenaarde Toll Registers for 1413–16 and c.1430–50 specify both English wool (16d per sack) and Scottish wool (8d per sack), but not Spanish wools per se.

84 Verroken, ‘Een Oudenaards tolregister’, pp. 73–5, 86–9, 100–6; and tab. 4., p. 103. In 1411–15, an annual average of 12,633 sacks of English wool were shipped to Calais: Munro, ‘Medieval woollens: struggle for markets’, tab. 5.3, p. 304. Verroken (pp. 120–21) cites a reference from the Oudenaarde stadskrekenningen of 1408–9 concerning cloth woven from ‘inghelsche end van vlaemscher wullen also van scotschen wulle’, but Spanish wools are not mentioned.

85 See nn. 21 (for hoedwulle) and 61, 92, 108, 115 (for lameulle, pemewulle, etc.). Verroken defines drommen as afwol (waste wools). See De Poerck, Draperie: Glossaire flamand, p. 34, no. 140 (‘van drommen, van waterwulle, van vlocken, van scoorlyngen van tierteyne, verbuert’); p. 56, no. 247 (‘sowie die Spaensche wulle tapt, jof hoedewulle’: wool for making hats and caps); p. 131, no. 610 (schoorlinc, schuerlinc: waste-wools (déchets) from the fulling, shearing, and other finishing processes.

86 Vermaut, ‘Bruges’, pp. 189–90, 200 (citing ‘Renouvellement de la loi’, register 1422–42, in Stadsarchief Brugge). For ordinances requiring the exclusive use of English wool in the Bruges drapery’s regulated, sealed woollens, uye ghedaen smalle taken, see n. 52 above (fourteenth century heurc renewed in 1408; and for the 1533 stipulation that only English wools be used in sealed woollens, see n. 170 below.

87 Boone, ‘Nieuwe teksten’, p. 42: ‘anders de wardere ende ordonnantie van den smalle takenen, die men maecchen mach van plootwulle, lamwulle, ende schuerlinc, naer tinhouden van der lester ordonnantie’. For the 1456 ordinance on the manufacture of dickedinne and other sealed woollens, see p. 449 and n. 53, above; and nn. 110–11 below.

88 Verroken, ‘Oudenaards Tolregister’, pp. 108–11. On such very cheap English wools, exempted from the Calais Staple, see nn. 12 and 67 above. For hoedwulle, see nn. 83 and 21 above; n. 92, below.

89 Ibid., pp. 87–8 and App. 2B, pp. 142–3 Verroken (p. 102) deduces that the tariff of 2d. pariss for elche bale wullen refers to Spanish wool, because that is the rate at which those shippers handling such wools were taxed. But if so, such evidence indicates how cheap and inferior was their quality.
The important question to be resolved, therefore, is when true and much higher quality Spanish merino wools were first used in the Low Countries' export-oriented and thus, regulated, draperies, for the production of fine sealed woollens: in place of or mixed with fine English wools. Of far less importance for this article is their initial use in the manufacture of cheap, unregulated smalle takenen for local and regional markets, even if such production may have exceeded in volume (if not value) that destined for export markets. Quite possibly, some Spanish merino wools may have been employed in some other Flemish draperies, in some fashion, around this time. For in 1420—just after Duke Philip of Burgundy and Henry V had contracted a formal anti-French alliance—a petitioner in the English Parliament had complained that the Flemish were violating a long-standing 'agreement' not to permit the use of Spanish wools so long as England did not contest the Flemish ban on English cloth imports; and it seems unlikely that the petitioner would have made such a claim without some factual foundation on the use of these wools. Ninove may have been one of the first of the Flemish nouvelle draperies to use them, in some form, according to a brief reference in the town’s stadsrekeningen of 1419. The contention, however, that Spanish wools were being used, around this time, in the Aalst drapery, for manufacturing sealed woollens is unfounded.

The first extant drapery keure from a nouvelle draperie that explicitly permitted the use of Spanish wools in regulated, sealed woollens was issued by the small nouvelle draperie of Estaires, in the Leie (Lys) valley, in September 1428, and thus shortly after the aforementioned Flemish–Castilian trade treaty in which Spanish wools figured so prominently. While reserving and specifically requiring only 'les meilleures laines d'Engleterre' for the best woollens, drapers were free to choose either 'la second laine d'Engleterre, ou de la meilleur d'Escoce, d'Espagne, ou de pays [Flanders]' for their other woollens.

The next specific evidence for the use of Spanish wools comes very shortly after: for the Leie valley nouvelle draperie of Comines (Komen), in August 1430, when Hanseatic merchants informed its drapers that 'they would not buy any of their cloths made from Spanish wools'. This dispute may have

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90 *Rot. Parl.*, IV, no. 16, p. 126 (8 Hen. V); and no. 29, pp. 146–67 (9 Hen. V). The aim clearly was to force a revocation of the Flemish ban on English cloth. See n. 76, above. In reply, the bewildered king promised to 'serche' for such an agreement, one that was never produced.

91 Stabel, *De kleine stad*, p. 127, n. 33, but citing only Vangassen, Ninove, I, p. 143.

92 Stabel, *De kleine stad*, pp. 126–7, citing an undated but evidently early fifteenth-century drapery keure: ‘dat men in de raemlakenen vander hoochster prijse doen sal gheen Spaensche wulle, lamswulle, Scotsche wulle, noch peelwulle’ (cited from De Potter and Broeckhart, *Geschiedenis van Aalst*, II, p. 424). That all these named wools were forbidden in the manufacture of Aalst’s finest sealed woollens does not mean that they were used in other sealed woollens, for export—for no keure is cited as proof, and, as noted earlier, lamswulle and peelwulle were forbidden in all sealed woollens in medieval Flanders; but, as at Bruges and Ghent, they may have been used in the manufacture of unregulated smalle lakenen. For peelwulle, also known as *phootwulle*, see De Poerck, *Draperie: Glossaire flamand*, pp. 104–5, no. 489: *pelade*: wool shed from the fleece, sometimes from disease (e.g. alopecia). See nn. 83–8 above.

concerned Hanseatic demands for exclusive rights in marketing such woollen in their Baltic zone, rather than any complaints about the quality of the cloth; and, if so, that would indicate Comines’ current dependence on Spanish wools. Subsequently, in February 1451, the Comines drapery issued a new set of industrial keuren, which stipulated, as had earlier ones, that its first-linen woollens were to be made exclusively from ‘fine English wools, and no other’; but the keure now added a series of second-grade woollens, named breede Scotsche lakenen, ‘which we have just newly begun to make at Comines . . . from diverse kinds of wools, such as English, Scottish, Flemish, Spanish, and Zuider Zee [i.e. Kampen] wools’, and in that order.

Coincidentally, shortly before Duke Philip the Good had ratified the Flemish–Castilian trade treaty, he had also bestowed upon the now declining Flemish drapery town of Ypres a seemingly signal victory against the upstart nouvelles draperies in its castellany in this very same region, along or near the Leie valley. For, in March 1428, he once again prohibited Nieuwerkerk (Neuve-Église) and a dozen nearby villages from any form of cloth making, except for the production of cheap douken, from local wools. Despite some subsequent fines, however, this decree proved impossible to enforce. From this very era, the draperies of Ypres, Ghent, and Bruges suffered an even more rapid decline, while many of the nouvelles draperies commenced a more rapid phase of expansion, specifically because they, and they alone, did resort to Spanish wools.

Certainly one of the most prominent was the very same Nieuwerkerk drapery, which, since the 1428 ducal ban on its cloth making, had been

94 De Sagher, Recueil de documents, II, no. 235:4, p. 62: ‘dat zy gheen lakenen coopen souden van Spaenscher wulle ghemaect’; and ‘eenen bode van den Oosterlinghen . . . van dat men ghene Spaensche wulle drapieren zoude’. This threat was repeated in 1438: Ibid., II, no. 235:10, p. 64. For subsequent Hanseatic policy in commissioning production of cloths woven from Spanish wools for their exclusive use, see below pp. 459–60 and nn. 105–9.

95 Ibid., II, no. 220, pp. 30–32: for the first line woollens, ‘Inghelsche lakenen, breede ende smaele, sal men moeten [maken] van goede, fyné Inghelsche wulle ende van gheen andre wulle’; but, for second line woollens, see the keure ‘van anderen lakenen die men machen mach van diversche manieren van wullen, als Inghelsche, Scotsche, Vlaemsche, Spaensche, ende Zuudersche [Zuider Zee]’.

96 Ibid., I, no. 1, p. 107 (10 March 1428); and II, no. 213, pp. 23–24. The ban was specifically directed against: Nieuwerkerk, Niekerk, Zuidberkin, Eek, Godeswaersvelde, Caestre, Hondegem, Steenvoorde, Steenwerk, Meteren, Boescepe, and Flêtres.

97 Ypres continued, in vain, to have the decree enforced, even as late as the 1540s. See Diegerick, Ypres, III, pp. 138–9 (1429), 141 (1429), 144 (1431), 192 (1446); IV, pp. 61–72 (1483), 75 (1484), 101–09 (1485); V, p. 607 (1501), 8–13 (1502), 30–32 (1506); 36–37 (1507); 51 (1509); 96 (1515); 250 (1541); and De Sagher et al., Recueil de documents, I, pp. 7–24 (1428–31, 1443, 1446), 29–54 (1483–3); 63–4 (1485), 71–5 (1485), 75–7 (1501), 97–8 (1545); III, pp. 102 (1455), 93–4 (1541), 141–2 (1545). Note that the Ypres archives were completely destroyed during the First World War.

98 For a comprehensive overview of cloth production and marketing by the small-town nouvelles draperies from the 1420s to the 1490s, see Stabel, Kleine stad, pp. 89–100; and for estimates of cloth production from both traditional and the newer draperies, see ibid., p. 168, table 1; and Stabel, ‘Décadence ou survie?’, pp. 63–84; and Stabel, ‘Éen kwantitatief benadering’, pp. 113–53. Verroken, ‘Oudenaarde tolregister’, p. 115 (tab. 9) has documented the recovery of Oudenaarde’s cloth production: from 2,985 woollens in 1435–40 to 3,705 woollens in 1450–2, when it had resorted to Spanish merino wools.
steadily increasing its cloth sales in the Bruges market. In 1449 a decree of the Parlement de Paris observed that its woollens, as well as those of Nieppe (Niepkerk) and Eecke, were ‘pannos ex lanis de Yspania, de Scotia, et de patria Flandrie’.

Other records, concerning Flanders’ foreign trade, indicate the steadily growing importance of Spanish wool by the mid-fifteenth century. In 1441, the Castilian merchants, led by Burgos, established their own separate consulate at Bruges; and in August 1452, the Biscayan merchants followed suit. A few months earlier, in March, the Bruges magistrates had complained that the ducal toll-farmers were now demanding a higher tax on Spanish wool imports. In the following November (1452), the Spanish merchants at Bruges forwarded a petition to the Hanseatic Diet at Lübeck to request an end its current embargo on Flemish trade, because that embargo had already caused serious injury to their own commerce. When the Hanseatic merchants did restore their Flemish trade at the Bruges kontor, in August 1457, they were eager to buy as many Flemish cloths woven from Spanish wools as possible.

For records of such cloth sales at Bruges, from 1426, see the Bruges stadsrekeningen, in Algemeen Rijksarchief België, Rekenkamer, register no. 32,480. The town itself purchased such cloths to garb the civic musicians (‘trompers ende pipers’).

De Sagher et al., Recueil de documents, III, no. 593, p. 600 (1449). See also the drapery keure for Nieuwkerk, dated 18 November 1462, in ibid., III, no. 420, pp. 112–20.

For Spanish trade in this period, see also Phillips, ‘Merchants of the fleece’, pp. 77–8.

For the embargo of 1451–57, see also Daenell, Deutsche Hanse, I, pp. 401–06, 419–24; Dollinger, German Hansa, pp. 300–02.

Gilliots-Van Severen, Consultat d’Espagne, pp. 50–2. This decree contains what is evidently the first recognition of the Castilian consulate, though its establishment was explicitly permitted in the 1428 treaty (see n. 81).

For other references to Poperinge cloths, see no. 1, p. 73; no. 9, p. 88; and also De Sager et al., Recueil de documents, III, pp. 257–9.

Cited in Amman, ‘Deutschland und die Tuchindustrie’, pp. 50–7. Many of them were being purchased by the court of the Grand Duke of Moscow.
were to be made solely from good, mature Spanish wools. Various other documents from this era, or even earlier, indicate that Hanseatic merchants had made similar contracts ‘to drape the said Spanish wools into cloths solely for the Oosterlings’ with various other nouvelles draperies (i.e. besides Poperinge and Oudenaarde): Comines, Warneton, Dendermonde, Aalst, Kortrijk, Wervik, Menen, Geraardsbergen, Baileul, Ninove, and Tourcoign.

From the mid to later fifteenth century, the use of Spanish wools has also been documented for the following Flemish nouvelles draperies, chiefly in the south-west (Leie valley region): Armentières, Niepppe (Niepkerk), Meteren, Godewaersvelde, Eecke, Flêtre, Eeklo, Dranoûter, Kemmel, Wulvergem, and Tournai. A Ghent tax register of 1467–68 indicates that its merchants were selling Spanish wools, along with English and Scottish wools in its castellany, evidently to nearby nouvelles draperies as well as (possibly) to those making unsealed smalle lakenen, caps, hoods, carpets, etc., within the city, but there is no evidence that Ghent’s regulated drapery itself was then using Spanish (or Scottish) wools for the production of sealed woollens.

Otherwise, in the Burgundian Low Countries, during the entire fifteenth century, the use of Spanish wools was authorized in only two of the major traditional drapery towns, both in Brabant. In June 1443, the magistrates of Brussels issued the keuren van der nuwer draperie (‘regulations for the new drapery’), which authorized drapers to make an entirely new type of woolen, called bellaerts, to be woven from ‘domestic, English, Spanish, Scottish, and other good wools’. But this ‘new drapery’ was to be kept strictly apart from the traditional drapery, manufacturing in particular those lakenen van

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108 Höhlbaum, Hansische Urkundenbuch, X, no. 1050, p. 639; De Sagher, Recueil de documents, III, p. 257. Verroken has also published the text of the contract contained in the Stadsarchief Oudenaarde: ‘Oudenaards tolregister’, Appendix 3, pp. 145–50: ‘men de raemlakenen niet drappieren en mach dan van goeder Spaenscher tijtwulle’, reiterating as well the ban on using any lamwulle or plootwulle (p. 146). For the term tijtwulle, see nn. 61, 85, 92, above.

109 Documents in Ropp, Hanserecesse, 1431–1476, IV, no. 444–4, p. 312 (assigned a ‘probable’ date of 1495); Gilliodts-Van Severen, ‘Relations de la Hanse teutonique’, no. 15, p. 216; no. 18 (dated 1512, but referring to the previous century); De Sagher, Recueil de documents, III, pp. 257–9.

110 Stadsarchief Gent, reeks 93, register KK, fos. 93r–103v, written in the distinctive sixteenth-century script, and bound in a cartulary produced in the mid 1540s, I believe that it is instead the well-known drapery keure of 1546, published in Lameere and Simont, Recueil des ordonnances, V, 272–83. I have provided a lengthy rebuttal of Boone’s views and a defence of my dating in Munro, ‘Origins of the English “New Draperies”’, n. 33, on pp. 97–8. See also nn. 87–8 above.
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de drie staten, which, as noted earlier, were to be woven exclusively from the very best English wools. In Leuven, Brabant’s other major and traditional drapery town, no indications for the use of Spanish wools can be found before 1481, at the earliest, and conclusive proof is not available until 1513. Then Spanish wools were to be used on terms of equality with the English for all woollens, except for the very finest raemlaken.

IX

These fifteenth-century industrial changes in the use of wools for cloth manufacturing raise two interesting questions. First, why did so many of the nouvelles draperies decide to switch, in whole or just in part, to Spanish and Scottish wools, so suddenly, from the 1420s? And conversely, why did the major traditional urban draperies—with the partial exception of the Brabantine—not follow suit?

The available and abundant documentary evidence strongly indicates that radical innovations in English monetary and fiscal policies provided the catalyst for this change in the Low Countries’ wool usages, in the form of the Calais Staple Partition and Bullion Ordinances of 1429. The Bullion Ordinances themselves were in response to recent Burgundian monetary-fiscal policies, in the form of drastic coinage debasements of both the gold and silver Flemish coinages to finance Duke Philip the Good’s various wars. Unquestionably these policies had been very successful, by the late 1420s, in attracting much bullion to Burgundian mints, producing very large volumes of both gold and silver coins, just when the English mint outputs began to fall, and especially at Calais. A further provocation came from Burgundian counterfeit imitations of the prized English gold noble coins. Thus, to remedy this perceived loss of bullion, indeed a shortage at the Calais mint to provide sufficient coinage for the garrison’s wages, the 1429 parliamentary statute imposed three changes in the Staple’s payment regulations: first, to raise wool prices (reputably, by one third); second, to sell all wools only for ‘ready cash in hand’, in English coinage, forbidding any

114 See p. 450 and n. 56 above.
115 Stedelijke Archief Leuven [SAL], no. 722 (heeren from 1481 to 1528, not all of which are properly dated), fo. 47–48’ (lakenen van V loyen); no. 2712 (1513), fo. 57; fo. 223’ (1556). Much earlier in the fifteenth century, however, in May 1415, the Leuven magistrates had officially authorized the establishment of a ‘new drapery’, using domestic and French wools, as well as English wools; but no mention is made of any Spanish wools. SAL, no. 1524, fo. 287’–9’.' And then, in June 1442, the Leuven magistrates had authorized the establishment of yet another new drapery, a serge-type lichte drapperie, using a greased carded weft and a dry combed warp: ‘in view of the fact that the wool-working industry is on the verge of perishing’. SAL, no. 1528, fo. 86: ‘datmen van alle wollen, uitgenomen noppen, scoedeling, vlocken ende afscoeten, d’wevel [weft] dair kaerden sal mogen ende droech werpe [warp] te scheryen’. See also Van Uytven, Stadsfinanciën, pp. 361–9.
sales on credit; and third, to provide the Calais mint with one-third of the payment in gold bullion.\footnote{117}

Several times in the past, from the foundation of the Staple in 1363, the crown had imposed various measures to extort bullion for the mint from wool sales; but they had all failed with opposition from the Flemish and the Staplers themselves.\footnote{118} This time, to ensure full cooperation from the leading and most powerful Staplers, the statute imposed as well the complementary Partition Ordinances, which required that all sales receipts be ‘partitioned’ amongst the Staplers, not in accordance with their sales, but with their wool inventories. Obviously the wealthiest Staplers, or those with the most capital, benefited the most, while many lesser merchants, who had depended on rapid turnovers of their small stocks to furnish the funds to buy new wools, were sooner or later forced out of business.\footnote{119} According to subsequent Dutch charges, the entire Calais wool trade fell into the hands of a monopolistic clique of just twenty or thirty Staplers, thus producing a more cohesive cartel that was better able to raise prices, and to enforce the draconian payment regulations. The same Dutch reports also indicate that some of these regulations had been imposed on the Staple a few years earlier, and thus before formal enactment of the official statute.\footnote{120}

For the draperies of the Low Countries, the Calais Ordinances were a disastrous and most untimely blow. The sharp increases in wool prices were onerous enough, even if the customs duties were not increased.\footnote{121} But far more onerous, surely, were the bullionist payment regulations. For, in the past, drapers or wool-brokers from the Low Countries had been able to purchase wools at Calais with a down payment of just one-third in cash, usually with Flemish gold and silver coins; and they would arrange payment for the remainder over a year or so, with letters obligatory or bills of exchange (usually two bills, six months apart), usually redeemable in Flemish currency at the various fairs in the Low Countries. Very often, the Calais Stapler merchants sold their bills, for sterling, to London-based Mercers and Merchants Adventurer, who, in frequenting these fairs, redeemed or collected the bills and then used the Flemish receipts to buy goods there for import into England (thereby reducing bullion imports, to the consternation of the crown).\footnote{122}
If these drapers now had to pay the full price in coin at the time of purchase, they would have had to borrow the required English coinage and bullion from Italian, Hansard, or Flemish merchant bankers, at onerous rates of interest, while continuing to sell their cloths on credit. Whether or not the thirteenth-century Flemish industry had actually been dominated by merchant-capitalist drapers, the fifteenth-century draperies were operated by petty weaver-drapers who lacked capital resources or ready access to such funds, and were already overly dependent on foreign merchants at Bruges, though also on Flemish merchant-bankers. The one exception seems to have been the Leiden cloth industry, dominated by wealthier merchants who were actively engaged in the cloth export trade; and perhaps that is one reason why the Leiden industry survived this crisis more successfully than did the Flemish and Brabantian urban draperies.

The duke’s own monetary policy, furthermore, compounded the problem for his subject drapers. After having extensively debased both the gold and silver coinages from 1425, thereby reducing cloth prices in terms of foreign currencies, Duke Philip decided, in October 1433, to unify the various coinages of the Burgundian Low Countries; and, in doing so, to impose a monetary reform that strengthened the silver coinage by 29.7 per cent and the gold, even more, by 38.8 per cent. He retained this austere ‘strong money’ policy until May 1466. The immediate result of this renforcement was to raise the exchange rates and thus the prices paid for his subjects’ woollens in foreign markets.

Since all such coinage renforcements necessarily contract the money supply, by reminting the current stock into fewer but stronger coins, the longer-term result, according to Keynesian economic theory, would have also been a rise in interest rates. Indeed, they did rise in the 1430s and early 1440s, though perhaps more because of warfare during these years. Furthermore, as Raymond de Roover has cogently argued, such a monetary contraction would have also produced a sharp reduction in both the cash reserves and credit resources of deposit-bankers (money-changers) in Bruges and Antwerp. Even worse, as an evident measure to forestall opposition to the monetary reform from such bankers, the ordinance that initi-

125 Munro, Wool, cloth, and gold, pp. 87–103, Table C, pp. 198–9, Tables F–G, pp. 202–4; Munro, ‘Bullion flows’, pp. 112–26, and Table 10, pp. 148–53, Spufford, Monetary problems, pp. 2–8, 151–6.
126 On the Bruges money market, rates for short-term loans, already high, rose from a mean of 18.5 per cent in 1426–30 to 20.5 per cent in 1431–5; and were 20.25 in 1436–40 (during the Anglo-Burgundian war and the Dutch-Wendish war). See: Van der Wee, Antwerp market, I, Appendix 45/2, pp. 526, and for the coinage changes for Brabant, see also Table XV, pp. 127–8. The rise in exchange rates might also have discouraged exports, encouraged more imports, which would have led to an outflow of specie; and more specie might have been exported to foreign mints that continued to debase coins, thereby offering a higher mint price. See Munro, Wool, cloth and gold, pp. 11–41.
ated that reform, in October 1433, also forbade any ‘money-changer or anyone else to operate a bank to make payments’, on penalty of three years’ banishment.127

For the traditional, luxury-oriented urban draperies in the Low Countries, those in Flanders and Brabant especially, the Calais Ordinances and the Burgundian monetary reform were indeed poisonous pills to swallow. For in the early fifteenth century they had enjoyed, albeit to a limited degree, a recovery and brief Indian Summer of renewed prosperity, especially after the Prussians had forced English cloth merchants to withdraw from much of the Baltic.128 Hektor Amman, in his analyses of German cloth markets of this era found that Flemish woolens, especially those of the drie stede, had regained their former pre-eminence, followed by the Brabantine and then Dutch woolens, while the much cheaper English broadcloths then ranked a distant fourth.129

Now, from the late 1420s, the Low Countries’ draperies (or most) faced disaster, which indeed was to prove all too real. After the English Parliament had both strengthened and then indefinitely renewed the Calais Bullion and Staple Ordinances, in July 1433,130 and after several subsequent diplomatic missions to Westminster had failed, Duke Philip the Good’s only response, though a forceful one, was to extend the existing and now long-traditional Flemish ban against English cloths to all of his domains in the Burgundian Low Countries. His ordinance of 19 June 1434 made it perfectly clear that its objective was to force the English to abolish the hated Calais Ordinances, though undoubtedly protection of the Low Countries’ draperies in facing this dire threat also provided a powerful motive.131 That cloth ban did not, however achieve either of these goals, and instead fuelled an ongoing conflict that led Duke Philip, in 1435, to ally with the French king Charles VII. That volte face in turn led to the Anglo–Burgundian war of 1436, which also included a futile Burgundian assault on Calais itself.132

127 De Roover, Money, banking, and credit, pp. 236–46, 339–41. The original text of the ordinance of 12 October 1433, in the Stadsarchief Gent, Chartes et documents, no. 561, article 11, reads: ‘Item que aucune personne, changeur ne autre, ne puisse tenir en la ville de Bruges, ne ailleurs, table de banc pour recevoir l’argent des marchans et faire leurs paiements sur peine de ban de trois ans’. On the virtual disappearance of deposit-banking in the fifteenth-century Burgundian Low Countries, because of such measures, see Van der Wee, ‘European banking’, pp. 87–90.
129 Ammann, ‘Deutschland und die Tuchindustrie’, pp. 1–63; see also Abraham-Thisse, ‘Le commerce des draps’, pp. 167–206. She found, though for more selected periods, somewhat later, a rather similar picture in these German markets, though with a wider array of medium-priced Flemish and Artesian textiles.
131 Munro, Wool, cloth, and gold, pp. 94–108; Munro, ‘Industrial protectionism’, pp. 238–50. The full text is in Piot, Chartes de Léau, no. 8, pp. 26–8: in particular, ‘die coipman ende luyde van den selve conickricke [England], die haer Wolfe plegen te vercoepen ende te setten tot redenlyken prise . . . hebben die selve zeere verhoecht ende geset tot meerdere weerdende prises ende daer toe en willen sy die selven wolfe onsen onderseten niet vercoepen, ten sy by biloen van goud of van silvere, sonder te willen ontfangen gancbair munte’.
132 For details, see Munro, ‘Anglo-Burgundian alliance’, pp. 225–44; Munro, Wool, cloth, and gold, pp. 93–126.
Finally, on 29 September 1439, the Burgundians concluded a truce and a new commercial treaty with England, restoring the English cloth trade to all Burgundian lands, except Flanders; but not until 1442 did the English finally suspend the Calais Ordinances. Subsequently, the English surreptitiously restored the Calais Ordinances, in turn provoking a second Burgundian ban on English cloths, from 1447 to 1452. After an apparent stalemate, a new Anglo-Burgundian accord was signed, in 1459, by which Duke Philip promised to exclude all non-Staple wools from the Low Countries in return for England’s revocation of the Calais Ordinances. But then, in 1463, the new Yorkist monarchy of Edward IV enacted a new version of the Calais bullion laws. That, in turn, provoked a third Burgundian ban on English cloth imports, from 1464 to 1467. But subsequently, after Edward IV had been briefly deposed, he received financial assistance from the new duke of Burgundy, Charles the Rash, to regain his throne. In return, Parliament agreed, in 1473, to revoke and abolish forever the hated Calais Ordinances.

For most of the traditional urban draperies of the southern Low Countries, however, that seeming victory had come far too late; for the damages inflicted by English fiscal and bullionist policies, if not yet mortal, were certainly punitive. By this time, too many markets had been lost to the English cloth trade—and to the nouvelles draperies. Too much capital and labour had deserted the luxury woollen draperies; and undoubtedly some nouvelles draperies benefited from receiving such welcome resources. To be sure, literary evidence may be untrustworthy; and undoubtedly the Hanseatic members of the Bruges kontor had greatly exaggerated in stating, as early as October 1433, that because of ‘the greatly severe Calais Ordinance’, and ‘because of the costliness of wool, more than half of the [traditional Flemish] drapery industry has perished’. That ‘costliness’ is clearly reflected in the behaviour of the Flemish cloth prices presented in Table 2. Note first that, during the period of the Calais Bullion Ordinances (1429–73), the prices of Ghent’s first-quality dickedinne broadcloths rose by 44.91 per cent: from a mean of £5.997 groot in 1421–25 to one of £8.690 groot in 1471–75. The extent of the real rise in those

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133 Statutes of the Realm, II, pp. 392–94 (3 Edwardi IV c.1). It was somewhat milder, in requiring that only half of the wool payment be made at the time of sale in English coin and/or bullion.
136 Von der Ropp, Hanserecesse, I, no. 192, p. 136; and earlier (p. 135): ‘so hebben de Engelschen langhe tijt hewaeret to Callis grote zwaer ordinancien up de Englesche wulle upgesat und gemacht, und bezwaert de wulle van tyden to tyden also zeere, dat se nymand van daer krygen und mach, daer lakene af te makende . . . daerute dat de neringhe van der dраМerize zer medde to nichte gheet’.

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prices is all the greater when compared to the movements of the Flemish Consumer Price Index, which, having peaked at 140.17 in 1436–40 then fell precipitously by 36.7 per cent, in the ensuing era of depression and general deflation, to reach a nadir of 88.71 in 1461–65. Equally significant is the fact that the prices for woollens from the Flemish *nouvelles draperies* did not experience any comparable price rise. Note also how much cheaper were the woollens from Nieuwkerk and Niepkerk, both of which had resorted to Spanish *merino* wools from the 1420s.

Furthermore, a considerable amount of other statistical evidence presents a very grim picture of decline for the traditional draperies, especially in Flanders. By far the worst production indices are those for the Ypres drapery, the one most threatened by both the English cloth trade and the *nouvelles draperies*. Thus, from 1416–20 to 1481–85 (i.e. before the French war and the second Flemish revolt), the mean number of stalls rented in its cloth halls fell 95.5 per cent, from 550.9 to just 24.9 stalls; and the mean value of the drapery excise-tax farms fell by 74.0 per cent; in Ghent, over the same period, the mean value of the drapery excise-tax farms fell by 78.7 per cent (81.2 per cent from 1426–30).

The production indices for the Mechelen drapery (Brabant), however, show a lesser degree of decline: a maximum of 61.8 per cent, from £357.12 *oude groot* in 1421–25 to £136.15 *oude groot* in 1456–60; but then the tax farm sales achieved a partial recovery to £235.75 *oude groot* in 1481–5. During this period, the Mechelen drapery benefited from the now rapid expansion of the revived overland continental trade routes from Italy via South Germany and the Rhineland to the Brabant Fairs (Antwerp and Bergen-op-Zoom), from the South German silver-copper mining boom, and from the dramatic growth of the Antwerp market.

The Dutch drapery in Leiden evidently fared the best of all, although we have no usable data before 1446–50; but from then until 1481–5, its quinquennial mean imports of English wools rose 2.35 fold: from the

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138 See nn. 96–8, above.


140 For the statistics, see Munro, ‘Medieval woollens: struggle for markets’, tabs 5.5–5.6, pp. 308–11; Munro, ‘Industrial protectionism’, tab. 13.4, pp. 264–5. For further evidence of industrial decline, see Munro, ‘Economic depression’, pp. 95–161; and Munro, ‘Symbiosis of towns and textiles’, pp. 1–74. The first Flemish revolt against the Habsburg prince Maximilian (husband of the late duchess Marie) was brief, from 1483–5, followed by war with France, in 1486–9, during which the far more serious revolt took place, from 1488 to 1493.

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equivalent of 714.14 sacks to one of 1,678.53 sacks. Outputs of Leiden’s quality halvelakenen rose from a mean of 14,745 pieces in 1466–70, when production statistics are first available, to one of 25,148 pieces in 1501–05: a rise of 70.6 per cent. Apart from the reasons given above, the prime explanation for its success in surviving the English threat so well were the Dutch victories in gaining virtual mastery over the Baltic trades from the Hanse, after their victory in the Dutch–Wendish war (1436–9), but especially during the Hanseatic embargo of Flanders (1451–7).

Nevertheless the bitter fruits of the English fiscal-monetary policies and the threat posed by the expansion of the English cloth trade were very harmful, as revealed by the statistics on English wool and cloth exports. From 1416–20 to 1481–85, woolsack exports fell 50.1 per cent, from a mean of 13,355.4 sacks to one of 6,669.6 sacks; and cloth exports, despite encountering a slump during the mid-century depression, virtually doubled during this period, from a mean of 27,977 broadcloths in 1416–20 to one of 54,198 broadcloths in 1481–85. By the early 1480s, they were enjoying the beginning of a 60-year export boom, which would reach a quinquennial mean peak of 118,056 cloths in 1541–5. But, even in the 1480s, a German observer in the Low Countries had compared the current influx of English woollens to an ‘immense inundation of the sea’.

Nevertheless, as the earlier evidence on the quite radical changes in wool usages would suggest, many if not all the Flemish nouvelles draperies were able to circumvent the Calais Ordinances and thus avoid, or at least postpone, the fate of the traditional urban draperies, by resorting to the use of Spanish merino wools. As early as 1436, when the Duke Philip was enlisting support from the Flemish urban militias for his attack on Calais, Collard de Comines, the Sovereign Bailiff of Flanders, contended that ‘the wools of Spain and Scotland are beginning to be adopted in conformance with English wools, and these said wools are now being used to almost the same extent as the English wools used to be’. Two years later, in May 1438, the Dutch and Burgundian ambassadors sent to negotiate a truce at

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142 See Munro, ‘Medieval woollens: struggle for markets’, tab. 5.6, pp. 310–11.
146 Morand, Chronique, II, p. 378: also recording Commines’ complaints about the severe costs imposed on the Flemish cloth industry by the Calais Bullion ordinances: ‘que la laine d’Angleterre est mise si hault que les marchans n’y peuvent prouffiter, et que, plus estre, il fault payer ung tiers de buillon et baillier deux Philippes pour ung noble’ [i.e. purchase English gold nobles with Burgundian gold Philippus at an adverse exchange rate].
Westminster, also pointed out to King Henry VI’s councillors that, as a direct result of the Calais Ordinances, English wool sales had fallen by over one half and that merchants from Spain and Scotland, ‘have succeeded in selling three times more [of their] wool in our towns, which used to buy large amounts of English wool’. As a final example to be cited, during the 1467 treaty negotiations, to end the third Burgundian cloth ban, Duke Philip’s ambassadors once more warned the English that, if they did not revoke the Calais Ordinances, the draperies in the Low Countries ‘would be forced either to give up cloth-making entirely, or else find their wools elsewhere, which would mean giving up entirely the said English wools’.148

As the English undoubtedly surmised, the traditional urban draperies would not—not yet—dare to forsake the very essence of their ultra-luxury woollens, and thus would not risk losing more customers. But perhaps, at this time, neither fully appreciated the growing threat posed by the Flemish nouvelles draperies, many of whom now had a much greater willingness to acquire Spanish and Scottish wools. The difference in industrial attitudes is not that difficult to understand. For, if the nouvelles draperies were, by their very nature, cost-cutting ‘counterfeiters’, they would have been much less reluctant to accept yet another compromise in standards by resorting to these wools, Spanish especially—certainly not if doing so ensured a greater likelihood of survival, with such steeply rising costs for English wool.

Of course, there is no adequate method of measuring that degree of compromise involved, in terms of the relative qualities of these two short-fibred, fine wools. That Spanish merino wools were, in the 1430s, still much inferior to the English was not to be disputed, according to the anonymous author of the Libelle of Englyshe Polycye, who asserted that ‘the wolfe of Spayne . . . is of lytell value, trust unto me’, unless it was mixed with English wool.149 Such views were not just mere English prejudice. Many of the fifteenth-century industrial keuren of the Flemish nouvelles draperies certainly do rank Spanish wools well below the second-grade English wools, and sometimes even below Scottish wools.150

Furthermore, by no means all of the nouvelles draperies were so willing to experiment with Spanish wools, despite the rising costs of English wools. Many of the older ones, especially this group’s leaders in the later fourteenth century, were now manifesting attitudes about quality production more akin to those of the Flemish drie steden. In Wervik for example, its urban magistrates required all drapers, in 1447, ‘to swear a holy oath yearly upon the

147 Smit, Bronnen, II, no. 1126, p. 698.
149 Warner, Libelle of Englyshe polycye, p. 6: ‘Wyth Englysshe wolle but if it menged be’. He also stated: ‘But ye Fflemmynges, yf ye be not wrothe, the grete substaunce of youre cloothe at the fulle Ye wot ye make hit of oure English wolle’ (p. 5).
cross to use none but English wools’. But twelve years later, in 1458, a group of Wervik drapers petitioned Duke Philip’s officials to revoke this regulation. A lengthy investigation was then held at the ducal Chambre de Comptes in Lille. In finally issuing their report in 1463, the Burgundian officials agreed, on the one hand, that the high cost of English wools, and especially the requirement that they ‘must be paid for fully in ready money’, did indeed justify the substitution of Spanish and Scottish for English wools. On the other hand, they reported staunch opposition to such usage, on the grounds that ‘if cloths were to be made from all manner of wools, then merchants would no longer wish to come here, so that the said town would become scandalized and outcast’. With the Brussels nouvelle draperie (of 1443) serving as a possible model, they decided to authorize the use of Spanish, Scottish, and domestic wools at Wervik for sealed woollens, but only for those drapers who swore to make only petits draps, bearing a distinctly different seal, and swore not to use any English wools. About this same time, another ‘old’ nouvelle draperie, Kortrijk, also belatedly adopted Spanish wools; but not the old stalwarts Diksmuide and Langelmark. Indeed, none of these draperies fared all that well during the mid to later fifteenth century.

XII

Certainly, those newer nouvelles draperies that did survive and then expand were those that did make the switch, in whole or in part, to Spanish wools; and by the early sixteenth century, that switch may have been further justified by an improvement in the quality of merino wools. In 1527 the leaders of the Calais Staple contended that ‘Spanish woolls increase as well in fynes as in quantitie, and bine brought into Flaundres in greate aboundance more in one yeare now then hath bine heeretofore in three’; and the reason why the Flemish ‘practise themselves more and more in the drapery of the said Spanish woolles’ is ‘because they have a better pennyworth theirof, then [sic] the staplers can afforde them of English woolles’. Even if the Staplers had thereby correctly pointed out the major factor responsible for their declining wool sales, a fall of 47 per cent from the later 1490s, their plea for royal assistance—that ‘his Grace will have pittie and compas-------

151 De Sagher et al., Recueil de documents, III, no. 586:195, p. 564: ‘Ende zullen eic drapier ende drapierghe jaerlicx eed doen ten heleghen up een cruus gheen andre wulle dan Inghelsche te drapierne’.
152 Ibid., III, no. 577, pp. 520–1.
153 Ibid., III, nos. 581–82, pp. 527–8: on English wools, ‘veu qu’elles se sont tres chieres et qu’il les fault paier d’argent comptant’.
155 Ibid., III, nos. 583, pp. 530–1 (16 Nov. 1463).
156 Ibid., III, no. 581, p. 527. On these draperies, see in particular, Stabel, ‘Décadence ou survie’, pp. 63–84; Stabel, Kleine stad in Vlaanderen, pp. 100–47; Stabel, Dwarfs among giants, pp. 127–73; and see n. 182 below.
sion upon them, that stand nowe in the state of utter decaye and destruc-
tion)—may undermine one’s full confidence in all their assertions. 157

Possibly closer to the mark were the contemporary observations of an
English merchant named Clement Armstrong, in his Treatise Concerning the
Staple and the Commodities of this Realme (c.1519–35). He voiced the current
opinion that ‘Spaynysh woll is almost as good as English woll, which may
well be soo, by that Spayn hath housbondid ther wolle frome wurse to
better, and England from better to wurse’. Armstrong, however, had his
own axe to grind, since his treatise was partly an assault on the current
Tudor enclosures, whose richer feeding of sheep flocks he held responsible
for a supposed deterioration in the fineness of English wools. Armstrong
also contended, as had the author of the Libelle a century earlier (c.1436),
that Spanish wools had to be mixed with English wools to produce cloths
that had any ‘durable weryng’, because ‘English wolle hath staple and
Spaynysh woole hath no staple’.158 In all likelihood, Spanish merino wools
probably did not surpass the finest English wools until the late sixteenth or
early seventeenth century.159

The best evidence to support both of these views, and the importance of
Spanish wools, is to be found in the keure for what had now become the
most aggressive leader of the ‘new’ nouvelles draperies, the famed Armen-
tières drapery (see table 1). For the manufacture of its best draps outtreffins,

157 Text in Tawney and Power, Tudor economic documents, II, Section I:9, pp. 24–31; and Schanz,
Englische Handelspolitik, II, pp. 565–9. For the Staple’s commercial-financial difficulties in the 1520s,
see Rich, Ordinance book, pp. 7–20. Denizen wool-exports, chiefly to Calais, had fallen from a mean
of 8,678.80 sacks in 1496–1500 to one of 4,598.60 in 1521–5—and to as low as 2,235.20 sacks in

Armstrong stated that ‘because the erthe is now putt to idulnes to bryng forth rank, foggye, wild gresse’,
it was thereby irreparably impairing the quality of English wools, producing indeed ‘wild heyry wolle’
and thus ‘so is the gift of fyne wolle yerly lost’ (quotations on pp. 101–2). See also Bowden, Wool trade,
pp. 4–6, 26–7, and his ‘Wool supply and the woollen industry’, pp. 44–51, Mann, Cloth industry,
pp. 257–79; and Youatt, Sheep, passion, for similar arguments that enclosures, by producing richer, year-
round ample feeding, produced much bigger, heavier-weight sheep, with longer, coarser-stapled fleeces,
whose wools were thus more suited to worsteds than to woollens. Enclosures, however, also permitted
segregation of flocks and provided capital for breeding rams; and selective breeding to produce much
larger, fatter sheep for the urban meat markets, larger sheep with longer, coarser fleeces, may provide
a better explanation for this undoubted change in English wool types and qualities, which in turn
facilitated the expansion of the Elizabethan New Draperies. See Munro, ‘Origins of the English “New
wool’, pp. 328–35.

159 In England, during the 1640s, Spanish wools cost on average 3s. 3d. per pound, compared
to 3s. 0d. per pound for the best Herefordshire ‘Ryelands’; and in the 1660s, Spanish ‘superfine’ wools
averaged 4s. 2d. per pound, while the better English wools averaged only 1s. 5d. per pound. See Carter,
His Majesty’s Spanish flock, pp. 9, 11, 413, 420–2; Bowden, Wool trade, p. 27, citing in particular England’s
glory by the benefit of wool manufactured therein (anonymous, 1669); Mann, Cloth industry, pp. 257–9;
pp. 336–8 (on the English merinos, from 1788). Mann also states (pp. 266–7) that in the eighteenth
century, Spanish merino wools had a staple length of only 0.50–0.75 inch, compared to one of 1.50 inch
for Herefordshire wools. But both Carter, His Majesty’s Spanish flock, p. 421 and Usher, Industrial history,
p. 195 provide the following figures for the modern era: 2.25–2.50 inches for merino wools, compared
to 10.5 inches for Lincolnshire wools.
it specified a mixture of the two as follows: ‘le tierch de laine englesse et les
deux pars fine laine d’Espaigne’, while requiring that ‘le laine d’Espaigne
soit de sy bon poil que pour corespondre alle laine englesse’. As for the
latter, only the best English wools were to be used: Cotswolds, Berkshires,
Lindseys, and Young Cotswolds. Scottish wools, on the other hand, and
other laines désléables were strictly forbidden.160 Such a mixture of wools was
probably still necessary to maximize the fuling properties of the wool; but,
whatever the reason, that demand for English wools, and the expansion of
the more aggressive nouvelles draperies, along, of course, with continued
demand from the Leiden drapery, did ensure some survival of the Calais
Staple trade (which endured until Calais was restored to France in 1558).161

Possibly, some significant improvement in the quality of merino wools by
the early sixteenth century had become a powerful enough incentive for the
surviving remnants of the traditional urban draperies finally to adopt the
use of Spanish wools, all the more so when they faced not just a contracting
but a very limited demand for their traditional luxury products. As noted
earlier, Leuven may have done so as early as the 1480s; but it was certainly
using Spanish wools by 1513.162 By 1519, if not earlier, the Ghent drapery
was also using Spanish wools; and its drapery keuren was evidently closely
modelled on those of Leuven.163

A few years later, in June 1522, the Leiden gerecht (magistrates) officially
also authorized the use of Spanish merino wools—which had been first
mentioned, and banned, in 1479.164 Leiden’s cloth production had, in fact,
recently peaked, at a mean of 26,245 halvelakenen in 1516–20;165 and,
according to the 1522 ordinance, the Leiden drapers had been encountering
even higher prices at the Calais Staple, so that merino wools were now
25 per cent cheaper than English Staple wools.166 Nevertheless, the merino
wools were used in only limited quantities, usually mixed with some English
wools, as elsewhere. Even so, many drapers began to complain that Spanish

\[160\] De Sagher et al., Recueil de documents, I, no. 36: pp. 102–03, 103–17 (25 October 1510). Revised
keure issued 14 August 1512: no. 37, pp. 118–25; third revision, 19 Nov 1518: no. 38, pp. 126–43 (no
changes in wools).

Munro, ‘Medieval woollens: struggle for markets’, tab. 5.3, p. 305.

\[162\] See above, p. 461, n. 115, and the next note.

\[163\] Stedelijk Archief Leuven, no. 723, fo. 1v–5v; and no. 1526, fo. 203v–10v (referring to the Ghent
keuren of 1519). For Boone’s contention that Ghent had begun using Spanish wools in the 1480s, and

\[164\] Posthumus, Bronnen, I, no. 440:37, p. 503. For earlier punishments of drapers caught using non-
English wools, see nos. 115–16, pp. 131–3 (1434); no. 474, pp. 590–1 (1476).

\[165\] Munro, ‘Medieval woollens: struggle for markets’, tab. 5.6, p. 311.

\[166\] Posthumus, Bronnen, II, no. 903, pp. 316–17. For complaints about rising English wool prices at
the Staple, see nos. 867 (1518), 869 (1519), on pp. 194–5, 297–9, and also pp. 331–2. See also
Posthumus, Leidse lakenindustrie, I, pp. 206–15, stating that Spanish wools then cost 75 per cent as
much as the English; and Brand, ‘Medieval industry in decline’, pp. 121–49; Van Houtte, Economic
history, pp. 156–62.

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wools were not only inferior to the English, but were more difficult to comb, and that fulling cloths containing such wools required much more effort and time. This resort to Spanish wools did nothing to stave off the industry’s continuing decline, with the relentless growth in English competition. Indeed, Leiden’s output of halvelaken fell to a mean of just 11,747 pieces in 1546–50, a sharp drop of 55.2 per cent from its peak output. Well before then, in 1536, the Leiden drapery decided that, in order to safeguard its reputation and retain its existing customers, it would resume its exclusive use of English Staple wools. Amsterdam and Gouda, on the other hand, long having produced cheaper-quality woollens, were quite content to continue using Spanish wools.

During this period, the Bruges drapery, or rather its remnant, remained quite unchanged; and indeed in July 1533, its magistrates remarked, in letters to the Dowager Queen of Hungary, that their woollens still ‘se fait des laines Dangleterre’; and in that same year, they also explicitly reaffirmed the traditional ban on non-English wools. Earlier, however, Bruges had not been oblivious to the significance of Spanish wools. For, in December 1493, the town magistrates had skilfully secured exclusive staple rights for their importation into the Low Countries, a growing trade that ensured some continuing prosperity for the Flemish port in the sixteenth century. Indeed, in 1486–7, 43 of the 75 ships entering Bruges’ outport were Iberian; and of the latter, 19 were carrying wool, with a capacity of 2,845 tonnes (34.4 per cent of that year’s total tonnage). Furthermore, in the very early sixteenth century, the Bruges town government also tried, but failed, to establish various nouvelles draperies, in the style of Armentières, Nieuwkerk, and Tournai; and these undoubtedly would have used Spanish wools.

Subsequently, in November 1533, the Bruges magistrates once again sought to introduce a nouvelle draperie, ‘in the style of Armentières’, but one

167 Munro, ‘Medieval woollens: struggle for markets’, tab. 5.6, p. 311.
170 Rijksarchief West-Vlaanderen te Brugge, Charters Blauwenummers, no. 8321: accusation of the deken of the wool-weavers guild, before the college of civic schepenen, on 17 November 1533, against a dyer-draper who had made some woollens from Flemish and Rhenish wools, ‘contrarie t’inhouden vanden drientseventich [73rd] article vanden keure vanden voors. ambochte dat expresselic verbiet en interdiceert eenighe Brugsche lakene te reedene dan van Inghelsche wulle, uuteghedaen smalle lakenen’. A similar case was heard on 19 Jan. 1534: in CB no. 8322. See also n. 86 above, for references to use of Spanish wools in Bruges’ smalle lakenen as early as 1434.
171 Gilliodts-Van Severen, Estaple de Bruges, I, no. 1277–16, pp. 290–1; no. 1279, pp. 291–2 (12 December 1493). Reconfirmed on 7 August 1540: in Lameere, Recueil des ordonnances des Pays Bas, IV, pp. 221–2. Note that this was three years before Archduke Philip’s marriage to Joanna of Spain. In the 1490s, Bruges also tried, and failed, to secure a staple in English cloth; but it finally did succeed in 1540. See Munro, ‘Bruges and the abortive Staple’, pp. 1138–59; Munro, ‘Industrial protectionism’, pp. 251–4. On the Spanish wool trade, see Van Houtte, Bruges, pp. 91–2.
172 Gilliodts-Van Severen, Archives de Bruges, VI, no. 1221, pp. 275–6. Three other unidentified ships were also carrying wool; and they were probably Spanish. See also Finot, Relations commerciales, p. 223: contending that in 1484 Bruges had received more than 150,000 kg. of Spanish wool.
that would use only Spanish wools. Perhaps the fact that the aforementioned ban on non-English wools was reaffirmed in that very same month may explain why this project was, once more, abortive. Only in September 1544 did Bruges finally succeed in establishing a *nieuwe draperie* based exclusively on Spanish wools. On 7 July 1546, the Bruges magistrates ruled that, while the *nieuwe draperie* with Spanish wools would continue to be regulated by the recent ordinances, the former *keuren* for the *oude draperie* with English wools were to remain in force. In June 1548 the drapers of the *oude draperie* stated that because of the great scarcity of English wools at Calais, and the imminent extinction of their drapery, they wished to secure the right to continue making their traditional woollens from Spanish wools in the very same ‘manner as declared in the *keure* of the old drapery based on English wool’; and from 1548 all woollen cloths in Bruges were supposed to be made only from Spanish wools. Nevertheless the Bruges towns’ accounts for the 1550s and 1560s do record the purchase, from the town’s drapery, of woollens named *bellaerden* and *dobbel leeuwen* [double lions] *van Inghelsche wulle*; and they also refer to the *nieuwer draperie van Inghelsche wulle*. Lastly, in this same era—in 1544 and 1545—Mechelen, Ypres, and Ghent issued new drapery *keuren* that authorized the use of Spanish wools in certain sealed cloths; but all continued to make their finest woollens from English wools.

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174 Rijksarchief West-Vlaanderen te Brugge, Charters Blauwenummers, no. 8320: petitions dated 12 Nov. 1533, concerning the ‘nieuwe draperie onlancx upghestelt ende begonnen binnen der zelver stede van Spaensche wulle’, to produce woollens in the style of Armentières for three years. See also Gilliodts-Van Severen, *L’ancien consulat d’Espagne*, I, pp. 296–7.

175 The drapery *keuren* (63 articles) are published in Willemsen, ‘Draperie brugeoise’, pp. 5–74: ‘op te stellene een nieuwe draperie ende aldaer te drapierene ende reedene diveersche soorten van lakenen van Spaensche wulle [dobbel leeuwen, inkel leeuwen, geconrode B, griffoen]’. In Rijksarchief West-Vlaanderen te Brugge, Charters Blauwenummers, nos. 8415–19; 8365, 8371–2 are other contemporary Bruges drapery ordinances (*tempore Charles V*) concerning ‘eene nieuwe draperie’ to produce ‘diversche sorte van lakenen van Inghelsche ende Spaensche wulle’ (CB no. 8414); and in others, ordinances for the production of *lammekins* and *effen* woollens: ‘vander welke Spaensche wulle men sal moghen maken als hier ghemacet vander Yngelsche wulle’ (CB no. 8419).

176 Rijksarchief West-Vlaanderen te Brugge, Charters Blauwenummers, no. 8365.

177 Rijksarchief West-Vlaanderen te Brugge, Charters Blauwenummers, no. 8372: ‘van Spaensche wolle . . . in maniere als inhoudt ende verclaerst de keure vander ouder draperie vanden Inghelsche wulle’.

178 Bruges *stadtrekeningen* in: Algemeen Rijksarchief België, Rekenkamer, registers nos. 32,602–32,611 (1550–1561); in particular, no. 32,611 (1559), fo. 55v.

179 Willemsen, ‘Draperie malinoise’, pp. 156–90; Diegerick, *Archives d’Ypres*, vol. 5, app. S, pp. 305–12 (1545); vol. 6, no. 1753, p. 41 (1552). The extant town accounts for Ypres (*stadtrekeningen*) in this era that explicitly mention the type of wool used in the production of Ypres’ cloths purchased for the ceremonial dress of the town officials, in the years 1528 to 1531, specify only English wools (at £36 pound *groot* per sack): Algemeen Rijksarchief België, Rekenkamer, registers nos. 38,750–53. For Ghent’s production of the finest *diedeninnen*, exclusively from the best English staple wools (March, Cotswolds), in 1546, but along with woollens from Spanish and other wools, see Lameere and Simont, *Recueil des ordonnances*. V, pp. 272–83. For Mechelen’s production of fine *rooslaken* from English wools in this period, see Stadsarchief Mechelen, *stadtrekeningen* series I: nos. 185–226 (1510–50); and Munro, ‘Textiles as articles of consumption’, pp. 275–88; Munro, ‘Origins of the English “New Draperies”’ , tab. 8, p. 89.
Although very fine and costly woollens from both Mechelen and Ypres, along with Spanish-wool based woollens from Bruges (dobbelen leeuw), can be found on the Antwerp market as late as the 1570s, they were certainly outnumbered there not only by woollens from England, but also by those from the surviving nouvelles draperies, especially those of Armentières, Menen, Nieuwkerk (all in Flanders), Lier, and Herenthals (both in Brabant). Clearly the nouvelles draperies were by far the predominant and pre-eminent producers of genuine woollens in the mid-sixteenth century Low Countries. Yet, many that had been so prominent in the fourteenth and fifteenth centuries (e.g. Wervik, Kortrijk, Comines, Langemark, Diksmuide) no longer or just barely survived. Some had become extinct because of their failure to adopt Spanish wools soon and fully enough; but others that had adopted Spanish wools failed for a variety of reasons. The resort to Spanish wools, while providing salvation for some, was not in itself a guarantee of survival; and most of those who did continued to use at least some English wools. The sixteenth-century leaders—Armentières, Nieuwkerk, and Menen—evidently reached their peak in the 1540s, when, according to some reports, 40,000 to 50,000 sacks (or bales) of merino wools were being imported annually. Menen, for example, had increased its output from an estimated mean production of 1,690 woollens in 1480–1500 to one of 2,380 woollens in 1540–60, which then declined to 2,040 woollens in 1560–80. Subsequently these nouvelles draperies, no longer new, proved no more able to withstand the continuing onslaught from the English cloth trade than did the Leiden drapery.

Certainly their heyday had passed by the 1560s, when, according to a recent study on textile manufacturing in the southern Low Countries, the production of woolen cloths from the nouvelles draperies and the very few remaining traditional draperies was then about 2.07 million metres, while...
output from the various sayetteries and other draperies légères (sèches) was 3.64 million metres, i.e. about 76 per cent more.\(^{186}\) Indeed, from the later fifteenth century, these latter industries, once again led by Hondschoote, had enjoyed a remarkable revival and renewed expansion,\(^{187}\) for a number of complex reasons that I have discussed at length elsewhere: chiefly structural changes in international trade, involving a sharp fall in transaction costs in particular, strong demographic and economic growth in general, and other market changes that once again favoured an international trade in the relatively cheaper and lighter textiles, especially to the Mediterranean basin, and also to the Iberian New World.\(^{188}\)

XIII

This article concludes with an analysis of the truly seminal article by Henri Pirenne on ‘Une crise industrielle au XVIe siècle: la draperie urbaine et la nouvelle draperie en Flandre’, published exactly a century ago (1905).\(^{189}\) Though Pirenne’s historical studies were those that chiefly inspired me personally to become an economic historian, I must regretfully point out four serious faults that have misled so many scholars since then.\(^{190}\) First, Pirenne incorrectly thought that Spanish wools were totally different from the English and were used only in these ‘light draperies’, when in fact they were never used in any of the sayetteries.\(^{191}\) Second, therefore, he badly confused the true nouvelles draperies, such as those in Armentières and Nieuwkerk (Neuve-Église), which belonged to the heavy-weight draperie ointe, with those of the light-weight sayetteries, such as Hondschoote and Bergues-Saint-Winoc, which produced vastly cheaper textiles in the sixteenth century.\(^{192}\) Third, he thought that they were all ‘new draperies’ when in fact the sayetteries and related draperies were an ancient industry that had recently enjoyed a remarkable ‘resurrection’, as just noted, from the later fifteenth century; and the true nouvelles draperies were actually born with the industrial transformations of the mid-fourteenth century.\(^{193}\)

\(^{186}\) Soly and Thijs, ‘Nijverheid’, pp. 27–57.

\(^{187}\) See Munro, ‘Medieval woollens: struggle for markets’, Table 5.5, pp. 308–9; Munro, ‘Origins of the English “New Draperies”’, Table 6, p. 63; and pp. 83–9; Coornaert, Hondschoote, pp. 22–43.


\(^{189}\) Pirenne, ‘Crise industrielle’, pp. 621–43. See n. 139 above.


\(^{192}\) In the mid-sixteenth century, the prices of Hondschoote says ranged from £1.733 to £1.933 groot Flemish, compared to a range of £2.750 to £5.333 for Armentières woollens. See De Sagher et al., Recueil de documents, I, nos. 36–54 (pp. 102–201); II, nos. 287–303, pp. 346–448 (Hondschoote); Thijs, ‘Marché anversois’, pp. 76–86; and Munro, ‘Medieval woollens: struggle for markets’, tabs 5.5–5.6, pp. 308–11.

\(^{193}\) See above, pp. 442–3.

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Fourth, the ultimate pre-eminence of the true nouvelles draperies and the sayetteries was far from being just a simple victory of rural ‘free enterprise’ over rigid, sclerotic, guild-dominated protectionist urban draperies. Indeed, just as with the later English ‘New Draperies’, both of these textile industries were or became essentially urban, with their own guild organizations and sets of urban-sanctioned industrial regulations. 194 Several studies, including my own, have sought to provide a truer if far more complex explanation for these industrial transformations, but, Pirenne’s views evidently still prevail. 195

XIV

There was, of course, yet another set of industrial transformation in textiles, about to unfold, from the late 1560s, with the outbreak of the Revolt of the Low Countries (1566–8), and the brutal Spanish reconquest of the southern Low Countries. Many textile artisans engaged in these Flemish sayetteries fled for sanctuary both north, into Holland, and west, across the Channel, into East Anglia, re-establishing their ‘new draperies’ in both places. Ultimately, by the mid-seventeenth century, when English wool-production had shifted so decisively in favour of worsted wools, England’s New Draperies (producing says, bays, stuffs) would gain a comparative advantage in the field of the cheaper light textiles, while Leiden would successfully restore its oude draperie and gain a similar comparative advantage in the markets for heavyweight woolens. 196

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195 Over seven decades ago, in 1930, Coornaert sought to correct many of Pirenne’s errors in his La draperie-sayetterie d’Hondschoote, and then again, in 1950, in his article ‘Draperies rurales, draperies urbaines’, pp. 60–96, but to little avail. For my other studies on this theme, see in particular: Munro, ‘Origins of the English “New Draperies” ’, pp. 35–127; Munro, ‘Symbiosis of towns and textiles’, pp. 1–74.

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