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**The Chemical, Coal and Petroleum Products,  
and Rubber Industries in Italy's Regions, 1861-1913:  
Time-Series Estimates**

by Carlo Ciccarelli and Stefano Fenoaltea

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**Abstract**

This paper presents time-series estimates of the output of chemicals and related products in post-Unification Italy, disaggregated by region and industry. In the large, one observes a growing concentration of production, accompanied by a northward shift. The star regional performers were Piedmont and Lombardy from the early 1870s to the early 1890s, and then, from the turn of the century, Liguria, Tuscany, and (thanks to its electrochemicals) Umbria. The Southern regions were leading producers at Unification; their output steadily increased, but at growth rates that fell short of the national average, and by 1913 their share of the total had been halved.

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\* Facoltà di Economia, Università di Roma "Tor Vergata"

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## 1. Introduction<sup>1</sup>

A recent paper presented new estimates of Italy's production of chemicals and related products from Unification to the Great War (Fenoaltea, 2006a). These estimates track all production, represented by the physical output of 98 separate goods; the output series are combined with 1911-price value added weights to obtain aggregate estimates at the industry level, the industry-group level (distinguishing chemicals narrowly defined, coal and petroleum products, and rubber), and of course for the entire major group.

The corresponding regional estimates are presented here; the complete set is disaggregated only to the industry level, and is accordingly reported only as value added at 1911 prices. The 13 industry-level series estimated for each region correspond exactly to those for Italy as a whole; they distinguish 10 chemical industries narrowly defined, to wit, the producers respectively of principal acids, of matches, of fats and oils, of fertilizer, of explosives, of coloring materials, of pharmaceuticals, of electrochemicals and gases, of other inorganic chemicals, and of other organic chemicals; 2 coal and petroleum products industries, respectively the refineries, and the rest; and the rubber industry. These 208 industry-level regional series, the 32 regional subtotals for the disaggregated groups, and the 16 regional totals for the entire major group are collected below as Appendix A.

A brief account of the underlying sources and methods is included as Appendix B. As noted therein, the regional series for the electrochemical, other inorganic chemicals, and coal and petroleum products industries are themselves built up from physical output series for 61 separate products; these product-level regional estimates are presented in Appendices C - E.

Some of the spatial/temporal patterns suggested by these new estimates are elucidated in the text below. Over time production increased in every region, but at very different rates. Production became increasingly concentrated, as the growing concentration of the old-established industries and the relatively high concentration of the rapidly growing upstarts

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<sup>1</sup> These results were obtained as part of the research project on "Unità d'Italia e sviluppo disuguale: la struttura creditizia e la crescita industriale per regioni dal 1861 al 1913" of the Ufficio Ricerche Storiche of the Bank of Italy. The authors, who are alone responsible for the material presented here, thank Elio Cerrito for his comments and Pierluigi Camarro for the software that generated the maps.

E-mail: [carlo.cicarelli@uniroma2.it](mailto:carlo.cicarelli@uniroma2.it); [stefano.fenoaltea@uniroma2.it](mailto:stefano.fenoaltea@uniroma2.it)

was only partly offset by growing specialization. The Southern regions were leading producers early on, but turned into relative backwaters as production surged first in the North-West, and then, around the turn of the century, in the Center/North-East. On the eve of the Great War the regions with the greatest concentration of production were, in order, Umbria, Liguria, Piedmont, Lombardy, and Tuscany.

## 2. The spatial concentration of the industry

The regional estimates for the entire major group are collected in Table 1.<sup>2</sup> From 1861 to 1913 national production increased roughly five-fold; production increased in every region, too, but at very different rates. The changing distribution of aggregate production is illustrated by Table 2: Panel A reports the estimated regional shares of major-group output at decadal intervals, Panel B the regional shares of the male population over age 15 counted by the census-takers in 1871 and 1911, and panel C the regional indices of relative industrialization (indices of specialization) calculated as the ratio of the shares in Panel A to those in Panel B.<sup>3</sup> Tables 3 and 4 illustrate the changes between 1871 and 1911 at the industry level: the one presents the regional shares of output (like Panel A of Table 2), the other the corresponding indices of relative industrialization (like Panel B of Table 2). Table 5 reports the simple measures of concentration obtained by summing the indices' absolute deviations from 1.00, again in 1871 and 1911: the simple sums (cols. 1 - 2) are calculated directly from Table 4 (for the entire major group, from Table 2), the weighted sums (cols. 5 - 6) are these same figures weighted by the industry shares of major-group value added (cols. 3

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<sup>2</sup> The new estimates for the census years of course supersede the preliminary figures in Fenoaltea (2003), pp. 1088-1091, (2006b), pp. 242-245. The revisions are generally in an upward direction, especially in the earlier years, as implied by the revision of the national series; but this has only a minor effect on the estimates of the regional shares of the total (and on the higher-level estimates for manufacturing or industry as a whole, which accordingly remain up-to-date as presented in 2006).

<sup>3</sup> The index of relative industrialization approximates a conventional index of specialization, with the region's share of the adult male labor force as a proxy for its (unknown) share of the total national product. Since the census-year estimates are strengthened by a rare abundance of direct evidence, long-term change is here examined by comparing 1871 and 1911 rather than 1861 and 1913.

- 4).<sup>4</sup> Finally, Table 6 illustrates the structure of the industry in each region, again in 1871 and 1911. In Tables 3 - 6, the coal and petroleum products group is treated as a single unit; the refining industry, which was never of significance, is not separated out.

In 1871 the chemicals group was not, spatially, highly concentrated. It was of course more concentrated than the ubiquitous manufacturing groups like foodstuffs, wood, leather, or "engineering" (the maintenance of farm implements), but it was on a par with clothing, and less concentrated than the rest.<sup>5</sup> Chemicals were then overwhelmingly "traditional," with 90% of value added (at 1911 prices) in the production of pharmaceuticals (31%), fats and oils (25%, mostly soap), coloring materials (23%, mostly paints), and matches (10%); and that production was relatively dispersed, in part because drugs were prepared by pharmacists, and paints largely by house-painters. The industries that were themselves highly concentrated were the "new" ones, then comparatively small if not altogether tiny (Table 5, cols. 1 and 3).<sup>6</sup>

By 1911 the chemicals group was, again spatially, significantly more concentrated. Over the preceding decades the increase in its concentration had exceeded the already significant norm, and from eighth-ranked of the manufacturing groups (by the present measure) in 1871 it had moved up to sixth. The growing concentration of the group was driven both by the declining share of the relatively diffused "traditional" sectors, and (with the significant exception, here, of the fats industry) by the growing concentration of these sectors themselves (Table 5, cols. 1 - 4). In 1911, the share-weighted measure of concentration is highest for the fats industry, which was much the largest; the

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<sup>4</sup> The sum of the indices' absolute deviations from zero is itself a simple index of geographic concentration, on the implicit assumption of uniform dispersion within the unit of observation. If each region has a share of production exactly in line with its share of the adult male population all the local indices equal 1.00, and the calculated sum is zero. With perfect concentration every index but one ( $i^*$ ) equals zero, and, given  $n$  regions, the calculated sum equals  $(i^* - 1 + n)$ ; since  $i^*$  itself equals 100 divided by the relevant region's share of the labor force, the calculated sum grows without limit as that share approaches zero. The weighting by the sectors' shares of the total in turn scales these sums to reflect the sectors' relative size, and potential contribution to the concentration of the aggregate; this last in turn depends also on the covariance of the distributions of the individual sectors. For further discussion see Fenoaltea (2003), pp. 1077-1079.

<sup>5</sup> These conclusions are based on a comparison of the last row of Table 5 to the corresponding figures in Fenoaltea (2006b), p. 268, which themselves partly revise those in Fenoaltea (2003), p. 1078.

<sup>6</sup> As in Fenoaltea (2006a), the "traditional" and "new" chemical industries refer simply to those whose share of group output declined, or rose, over the period at hand; a very similar distinction appears in Zamagni (1978), pp. 70-78, 188-189.

electrochemicals industry's measure is a close second, even though this industry was only one third as large, because it was much the most concentrated (Table 5, cols. 2, 4 and 6).

In 1911, as in 1871, the major group as a whole appears no more concentrated than the least concentrated of its component industries; this is particularly noteworthy in 1911, as the relatively concentrated ("new") industries then represented a much greater proportion of the group total than in 1871 (Table 5, cols. 1 - 4). Clearly, the industry-specific concentrations were spatially differentiated, and tended accordingly to be mutually offsetting. Quantitative confirmation can be found within Table 5, col. 6: the ratio of line 13 to line 14 equals 1.7 in 1911 (as in 1871, col. 5). The comparable preliminary estimates for manufacturing, also divided into 12 sectors, yielded comparable ratios of 1.2 - 1.3: regional comparative advantages appear perceptibly more sector-specific, and less general, within the chemicals group than within manufacturing as a whole.<sup>7</sup>

The obvious logical corollary is that as the "new" chemical industries developed different regions developed different specializations. In 1871 the structure of the industry in the various regions was broadly similar, as the "traditional" sectors were dominant everywhere; over time production became more differentiated both within regions (Table 6, comparing neighboring columns) and across regions (Table 6, comparing alternate columns). Map 1 illustrates the 12 industry-specific regional indices of relative industrialization (Table 4) in 1911: the differences in the industries' location patterns are apparent to the eye.

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<sup>7</sup> The underlying logic is straightforward. If different regions possessed different advantages in chemicals-in-general, but these were not sector-specific, the sectoral composition of the industry would be everywhere the same: within each region, the sector indices would be identical, and equal to that for the entire group. The summed deviations from 1.00 (cols. 1 and 2) in rows 1 - 12 would therefore all be the same, and equal to that in row 14. Since the shares of the components (cols. 3 and 4) in lines 1 - 12 sum to the 100-percent share of the whole in lines 13 and 14, the weighted sums (cols. 5 and 6) yield a sum in line 13 identical to the figure in line 14, obtained directly for the entire group; the ratio of line 13 to line 14 would then equal one. Conversely, if different regions were all equally advantaged in chemicals-in-general, but had perfectly offsetting comparative advantages in particular sectors, in cols. 5 and 6 line 13 would be positive, and line 14 would be (by hypothesis) zero; the ratio of line 13 to line 14 would be infinitely high. The more the ratio of line 13 to line 14 exceeds one, therefore, the more the comparative advantages of the different regions are specific to the individual sectors that make up the group, and mutually offsetting, rather than general, i.e., referred to the entire group. For further discussion of this measure see Fenoaltea (2003), pp. 1080-1081.

### 3. The location of the industry

Map 2 illustrates the regional indices of relative industrialization for the entire major group in 1871 and in 1911. Overall, clearly, the growing concentration and differentiation of production was accompanied by a substantial redistribution, mostly, but not exclusively, in favor of the North-West.

In 1871, simply in terms of regional shares, Sicily and Campania were among the overall leaders, perhaps a whisker ahead of Piedmont and Lombardy (Table 2, Panel A). The index of relative industrialization, which corrects for size, was highest in Sicily and Liguria. These were followed at some distance by Campania, Apulia and Calabria, and, at a further distance but with an index still above unity, by Piedmont; the index was below unity in the other regions, Lombardy included (Table 2, Panel C). At the industry level (Table 4), and neglecting the then minor sectors (Table 5, col. 3), Sicily appears to have been particularly strong in fats (and in explosives, black powder made with sulfur and used in sulfur mining); Liguria, in fats and coloring materials (and specifically in paints, presumably lead-based); Campania, in pharmaceuticals; Apulia and Calabria, again in fats; Piedmont, in matches.

In 1911, the region with the largest share was Lombardy, followed at a distance by Piedmont, and then Tuscany, and then, in close order, Venetia, Sicily, Liguria, Campania, and Emilia; the others were far behind (Table 2, Panel A). The index of relative industrialization was then highest in Umbria, followed by Liguria and, at some distance, Piedmont and Lombardy. The index was perceptibly lower, but still well above unity, in Tuscany. Elsewhere, the index was below unity--far below unity, in fact, in the once leading regions of the South (Table 2, Panel C).

The path of the index is of course driven by that of the share of output, as the shares of the labor force vary comparatively little. The timing of the major-group's redistribution is accordingly documented by the benchmark regional shares in Table 2, Panel A, and in greater chronological detail by the annual series illustrated in Figure 1; its statistical basis in the different industries can be traced in Appendix A (and in Map 1). Over the long term the index of relative industrialization grew most rapidly (300%) in Umbria, by this measure third last in 1871 and first in 1911 (Table 2, Panel C). All of this gain came in the new century. Umbria was long limited to the on-site production of paints and drugs, of declining



importance; its late surge was tied for the minor part to the growth of fats and oils, and for the major part to its remarkable strength in the new electrochemical industry--specifically in furnace products, of high value added because hydroelectric power was produced in-house.

The index also grew significantly, if much less (by 25 to 65%) in Lombardy (ninth in 1871, fourth in 1911), Tuscany (seventh in 1871, fifth in 1911), Piedmont (sixth in 1871, third in 1911), and Liguria (second in both years). Lombardy's growth path is close to a mirror-image of Umbria's: its share of the industry surged over the early decades, from 12% or so in 1871 to a peak of 22% in 1895; from then on Lombardy failed to keep pace with the rest of the country, and despite a near trebling of value added its share slowly drifted down. Its initial surge was very widely based, reaching notable strengths in rubber (90% of the national total), fertilizer (57%), acids (42%), and also, if less so (22-24%), in matches, coloring materials, and pharmaceuticals. From 1895 to 1913, instead, Lombardy lost market share in rubber (50% in 1911, still enough to remain the national leader), in acids and fertilizer (both down to 18% in 1911); it kept its share in coloring materials, and increased it in matches (to 30% in 1911) and especially in pharmaceuticals (to 40%), a sector transformed as specialized plants replaced the traditional "chemists." Lombardy also developed a strong electrochemical industry (33% in 1911), specialized in low-value-added cells and furnaces run with off-peak power from the local grid.

Tuscany's experience resembled Umbria's, with little relative progress (an 8% share) until the turn of the century, and then a sharp improvement (to 11% in 1911); its growing strengths were in explosives (led by dynamite), with a peak of 25% of the national total in 1909, and especially other coal and petroleum products (led by coke for the iron-works), with a peak near 40% in 1909 and again in 1913. Piedmont's experience instead resembled Lombardy's, as it too surged over the early decades, from an early 12% share to a peak over 16% in the early 1890s; it then produced a third of Italy's acids, matches, and explosives. In subsequent years, when Lombardy's share drifted down, Piedmont's fell to 13% and then rebounded to a new high; the cycle was in Piedmont's explosives industry, which fell to a 7% share of the national total and then recovered, and the late surge was further abetted by strong performances in the production of fertilizer and other organic chemicals.

Liguria, rather like Umbria and Tuscany, barely maintained its initial share over the early decades, and then doubled it, from 4% to 8%, from 1895 to 1913. At the end Liguria

had increased its initial relative strength in (relatively declining) "traditional" fats and coloring materials, and acquired strength in two "new" sectors, respectively other inorganic chemicals (first among them copper sulfate), and coal and petroleum products (largely metallurgical coke, again tied to the local iron-works).

Three regions essentially maintained their level of relative industrialization. Venetia's share remained virtually unchanged at 8% of the total, save for a short-lived surge around the turn of the century; it was located in fertilizer and their acids input, and correlates nicely with the boom in sugar-beet production at the mouth of the Po. Emilia and the Abruzzi underwent a long decline, essentially as they maintained their shares of declining traditional sectors, and recovered the lost ground late in the period at hand: Emilia with growing strength in acids and fertilizer, and in refining, the Abruzzi with the famous electrochemical works at Bussi (which represented a fifth or more of the industry total through most of the pre-war decade).

Elsewhere the index fell. It fell by a sixth or so in the Marches, and also in Sardinia (where production movements reflected the on-site production of explosives for the mining industry); it fell by half or nearly that in Latium, Campania, Apulia, Calabria, and Sicily, and by three fourths in Basilicata. As noted, by 1911 it was far below unity even in the once leading southern regions, despite enduring specific strengths: in Sicily, in other inorganic and organic chemicals (respectively sulfur- and citrus-based); in Campania, in coal and petroleum products (again, metallurgical coke) and explosives (military powders and munitions); in Apulia, in fats; in Calabria, in fats and other organic chemicals (again presumably citrus-based). But these were exceptions; by the end of the period at hand these regions were typically weak in the growing "new" industries, and much weakened even in the once dominant "traditional" industries. In almost all these regions, too, relative decline seems to have been practically continuous (and perhaps masked, at the beginning and the very end, by the paucity of contemporary data). The exception here is Apulia, whose share of the national total remained steady at 6% through the 1870s, and actually rose slightly to 7% in the 1880s; it was still 6% in 1900, and only then joined the downward slide long shared by Apulia's neighbors.

The discussion of the "Southern Question" is traditionally tied not to specific regions but to three aggregates thereof: the South itself (the old Kingdom of Naples, plus Sardinia),

the North-West (the "industrial triangle"), and the (residual) Center/North-East.<sup>8</sup> The path of the chemical group's 1911-price value added in these three zones is illustrated in Figure 2.

In the South production almost quadrupled, from 11 million lire in 1861 to 40 in 1913; growth was relatively steady, with only brief periods of decline, and above-average growth, as so often found, in the 1880s and especially in the pre-war decade. Considered in isolation, the South's experience appears to represent a significant success--illustrating in the small a point that can also be made, indeed deserves to be made, in the large.<sup>9</sup> In the Italian context, of course, it appears as a dismal (relative) failure. The North-West grew altogether faster, from about 1870 (and possibly earlier, as the available data shed little light on the issue).<sup>10</sup> Its growth accelerated sharply in the 1880s, so that it overtook the South before the decade was out, and it suffered only a mild deceleration in the 1890s before accelerating again after the turn of the century. The Center/North-East would have brought joy to Gerschenkron's heart. It kept pace with the North-West until about 1880, but did not then accelerate as the latter did, and maintained a moderate growth rate until 1895--and then took off, passing the South by 1900 and growing faster than the others right up to 1910.

Figure 3 illustrates the path of the three zones' percentage shares of the national aggregate. In the first decade, the South's share was much the largest; a long decline, accelerated in the closing decade and a half, reduced it to much the lowest in 1913. The share of the Center/North-East drifted down into the later 1890s, grew explosively around the turn of the century, and then drifted up; that of the North-West (dominated by Piedmont and Lombardy) surged instead through the later 1800s, fell around the turn of the century with the boom of the Center/North-East, and then gradually recovered. In relative terms the South appears to have been weakened by the North-West, but finished off by the Center/North-East.

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<sup>8</sup> In the period and industries at hand, as seen above, this division masks what appear to be significant regional differences. As noted elsewhere, too, it seems to capture the broad regional differentiation of industrial growth, but not that of overall growth: Fenoaltea (2003), pp. 1070-1072.

<sup>9</sup> The larger point has in fact been made, in seminars, by Gianni Toniolo, whom we thank for this insight.

<sup>10</sup> The earliest cross-section data for the sectors that then mattered are the census figures for 1871, and the present estimates simply back-cast those shares to 1861; a region thus gains overall share if it has a supernormal share of the more rapidly growing industries, but cannot gain by increasing its share within the elementary unit of observation.

Map 1: Regional indices of relative industrialization, by industry, 1911



1. Principal acids



2. Matches



3. Fats and oils



4. Fertilizer



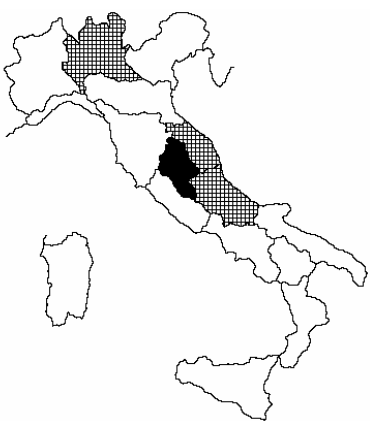
5. Explosives



6. Coloring materials



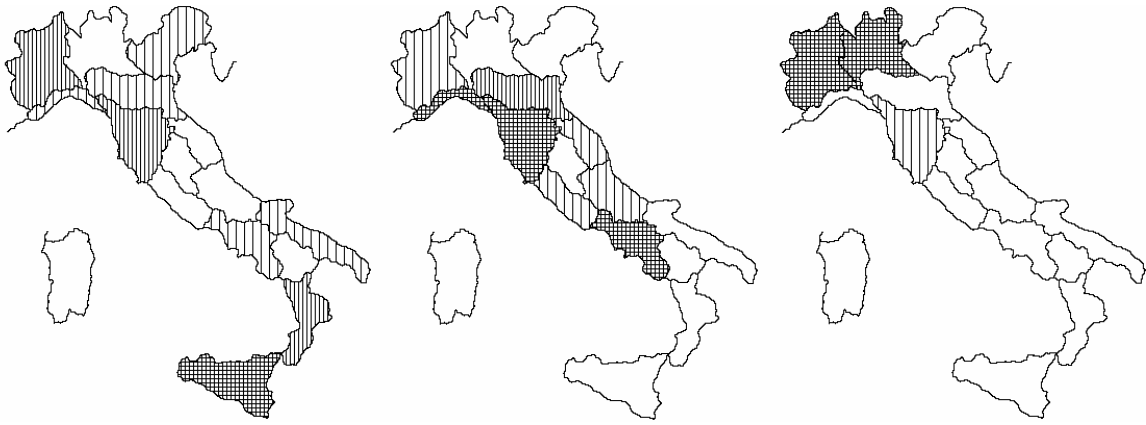
7. Pharmaceuticals



8. Electrochemicals

9. Other inorganic  
chemicals

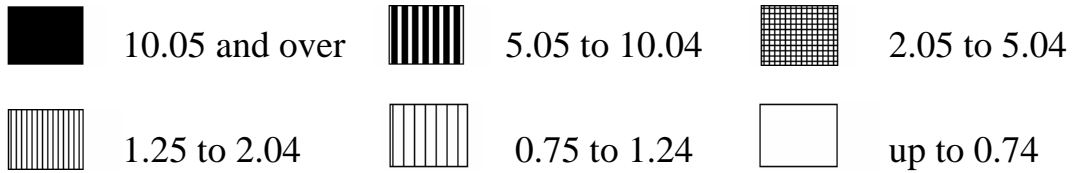
Map 1 (cont).



10. Other organic chemicals

11. Coal and petroleum products

12. Rubber



Map 2: Regional indices of relative industrialization, entire group, 1871 and 1911

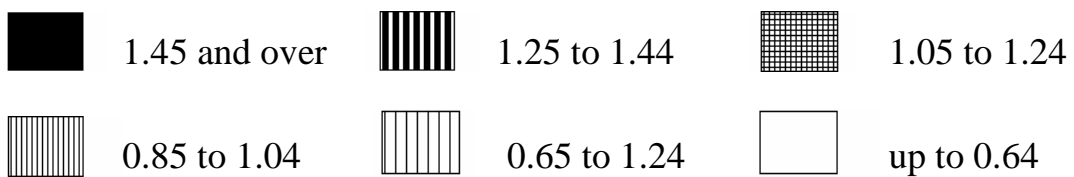
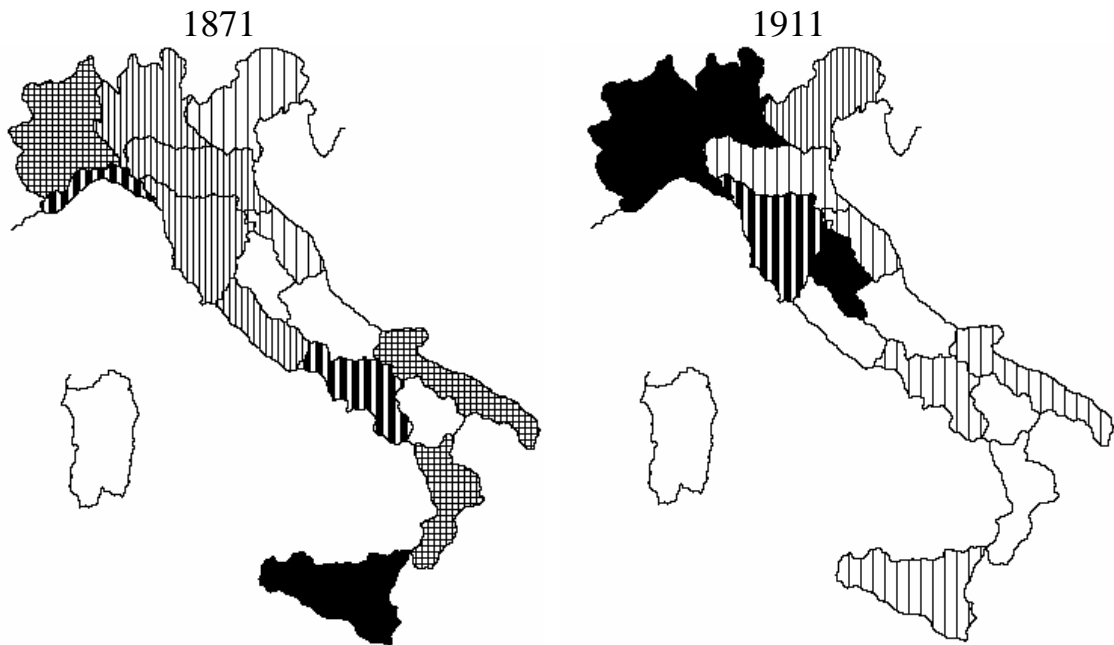


Figure 1  
Major-group 1911-price value added, 1861-1913: percentage shares, by region

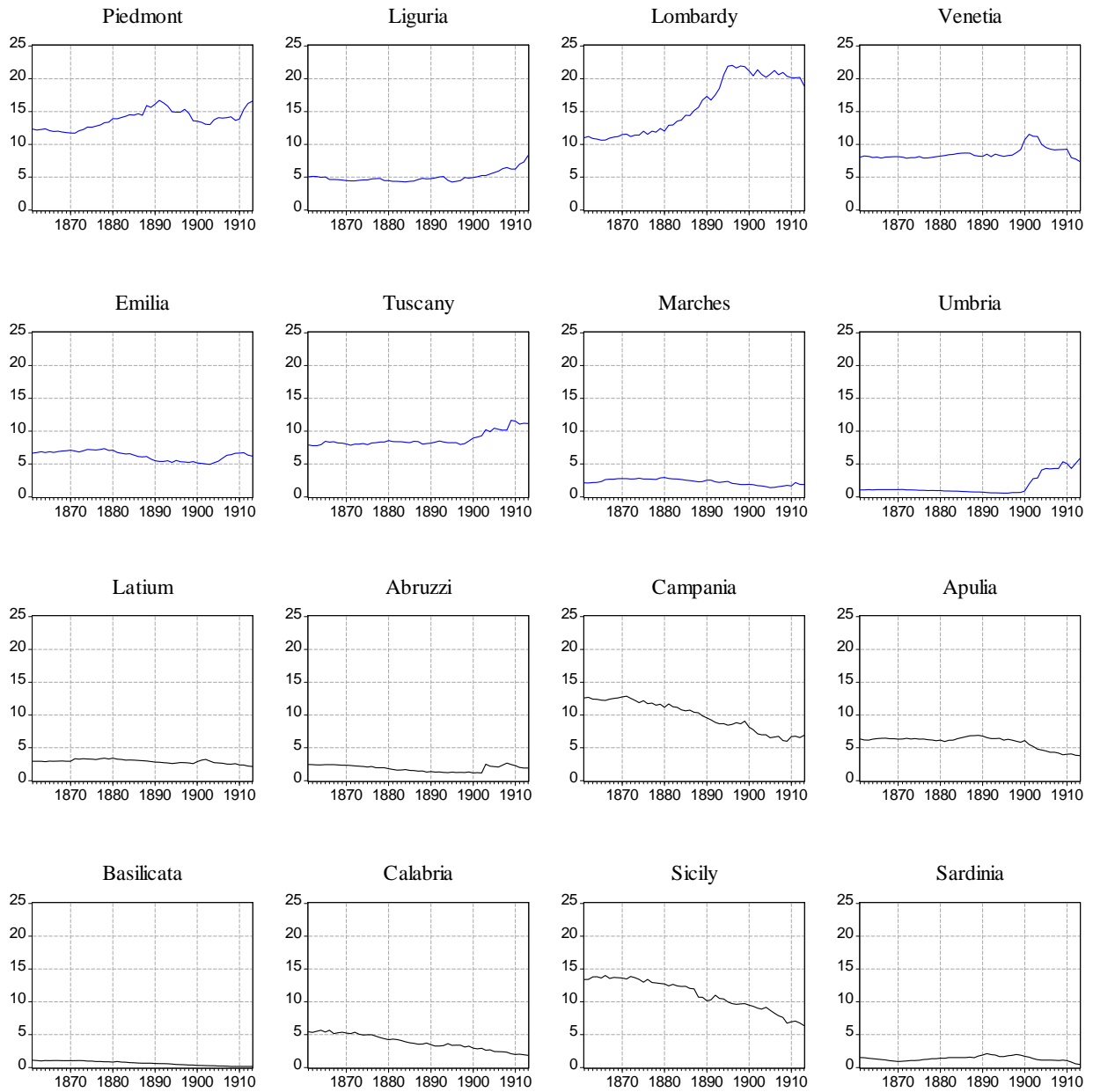


Figure 2  
Major-group 1911-price value added, 1861-1913: by area

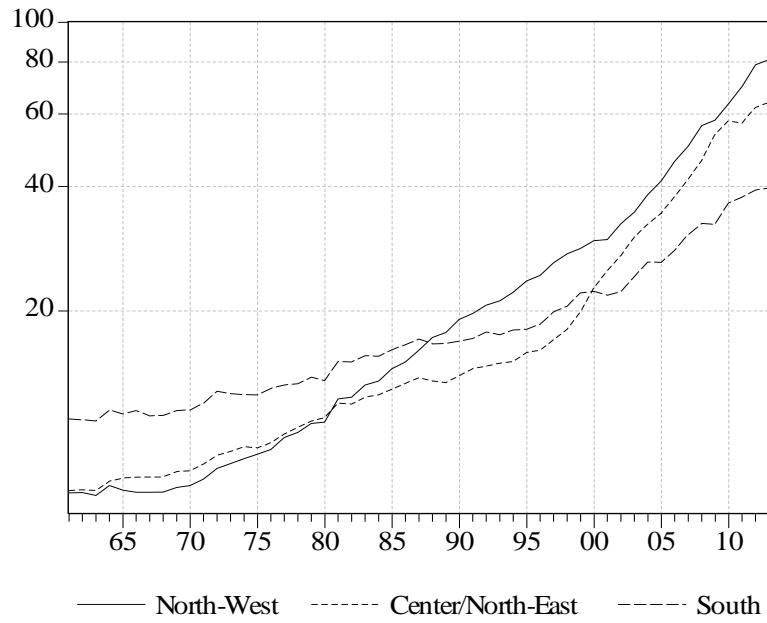


Figure 3  
Major-group 1911-price value added, 1861-1913: percentage shares, by area

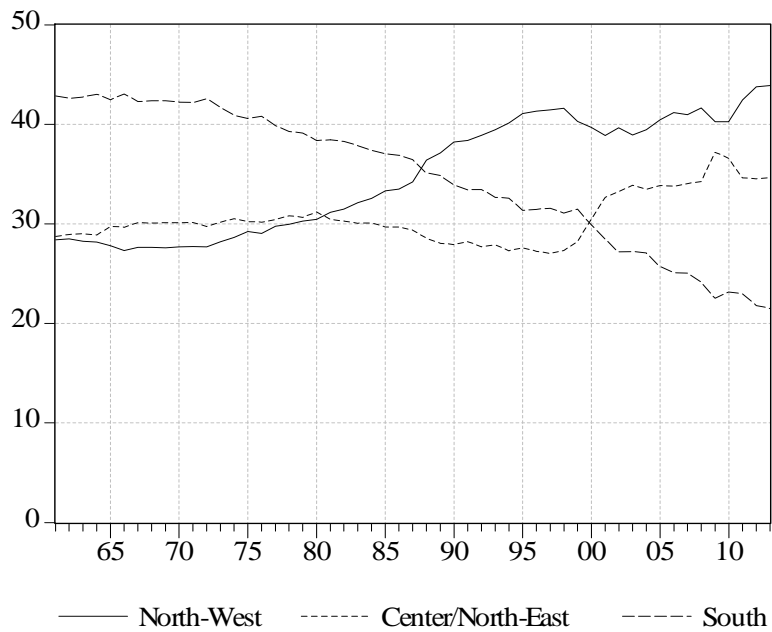


Table 1  
Regional Production: Major-Group Estimates, 1861-1913  
(million lire at 1911 Prices)

	(1) Pied.	(2) Lig.	(3) Lomb.	(4) Ven.	(5) Emilia	(6) Tusc.	(7) March.	(8) Umbria
1861	3.15	1.29	2.82	2.06	1.70	2.03	0.54	0.27
1862	3.11	1.31	2.86	2.10	1.73	2.00	0.54	0.27
1863	3.11	1.29	2.76	2.07	1.74	1.98	0.55	0.27
1864	3.32	1.34	2.90	2.15	1.81	2.13	0.59	0.29
1865	3.21	1.34	2.82	2.14	1.82	2.24	0.61	0.29
1866	3.20	1.24	2.85	2.11	1.81	2.23	0.69	0.29
1867	3.17	1.23	2.89	2.13	1.82	2.21	0.70	0.29
1868	3.14	1.22	2.94	2.14	1.84	2.17	0.71	0.29
1869	3.21	1.24	3.04	2.21	1.90	2.22	0.75	0.30
1870	3.21	1.22	3.14	2.22	1.94	2.20	0.75	0.30
1871	3.31	1.26	3.27	2.28	1.98	2.23	0.78	0.32
1872	3.62	1.33	3.37	2.36	2.05	2.41	0.81	0.32
1873	3.72	1.37	3.46	2.42	2.13	2.44	0.83	0.32
1874	3.88	1.41	3.50	2.45	2.22	2.50	0.87	0.32
1875	3.89	1.42	3.71	2.51	2.21	2.45	0.84	0.31
1876	4.07	1.51	3.67	2.52	2.27	2.61	0.86	0.32
1877	4.31	1.59	3.99	2.64	2.40	2.74	0.88	0.32
1878	4.51	1.63	4.03	2.73	2.49	2.85	0.90	0.33
1879	4.73	1.58	4.39	2.87	2.50	2.95	1.02	0.33
1880	4.93	1.59	4.26	2.91	2.52	3.03	1.04	0.33
1881	5.46	1.72	5.07	3.26	2.66	3.31	1.10	0.35
1882	5.55	1.73	5.11	3.31	2.60	3.31	1.07	0.34
1883	5.88	1.79	5.58	3.50	2.69	3.45	1.11	0.35
1884	6.05	1.78	5.71	3.58	2.73	3.45	1.10	0.35
1885	6.31	1.91	6.30	3.77	2.76	3.60	1.10	0.35
1886	6.60	1.99	6.47	3.91	2.76	3.81	1.12	0.36
1887	6.78	2.19	7.13	4.06	2.87	3.96	1.12	0.36
1888	7.55	2.30	7.41	3.95	2.92	3.82	1.08	0.35
1889	7.48	2.27	8.02	3.93	2.76	3.88	1.11	0.35
1890	8.06	2.38	8.65	4.08	2.74	4.09	1.26	0.35
1891	8.59	2.52	8.62	4.37	2.77	4.29	1.30	0.34
1892	8.67	2.68	9.33	4.32	2.87	4.52	1.21	0.33
1893	8.50	2.73	9.94	4.56	2.95	4.48	1.19	0.33
1894	8.28	2.52	11.41	4.60	2.91	4.56	1.26	0.32
1895	8.58	2.46	12.62	4.72	3.20	4.75	1.35	0.32
1896	8.80	2.59	13.00	4.89	3.15	4.87	1.21	0.33
1897	9.67	2.83	13.67	5.28	3.36	5.03	1.26	0.40
1898	9.74	3.27	14.51	5.78	3.47	5.37	1.23	0.42
1899	9.56	3.42	15.36	6.47	3.77	5.99	1.32	0.47
1900	10.09	3.70	15.80	7.97	3.84	6.69	1.41	0.65
1901	10.23	3.90	15.67	8.84	3.91	6.99	1.40	1.50
1902	10.70	4.30	17.52	9.21	4.10	7.61	1.39	2.26
1903	11.60	4.68	18.41	9.98	4.40	9.11	1.49	2.54
1904	13.32	5.32	19.64	9.71	5.03	9.62	1.49	3.95
1905	14.35	5.82	21.10	9.71	5.53	10.67	1.43	4.42
1906	15.69	6.61	23.76	10.39	6.57	11.48	1.61	4.76
1907	17.20	7.69	25.25	11.22	7.74	12.43	1.90	5.28
1908	19.16	8.77	28.32	12.44	8.65	13.75	2.20	5.85
1909	19.65	8.98	29.30	13.28	9.53	16.73	2.53	7.68
1910	21.86	9.82	31.83	14.61	10.47	18.18	2.63	7.95
1911	25.23	11.48	33.17	13.13	11.04	18.23	3.58	7.12
1912	29.23	13.17	36.41	14.06	11.43	20.18	3.40	9.08
1913	30.65	15.42	35.03	13.70	11.48	20.67	3.43	10.76



Table 1, cont.

	(9) Latium	(10) Abr.	(11) Camp.	(12) Apulia	(13) Basil.	(14) Calab.	(15) Sicily	(16) Sard.
1861	0.75	0.63	3.23	1.62	0.28	1.39	3.42	0.39
1862	0.75	0.62	3.25	1.59	0.27	1.37	3.43	0.38
1863	0.74	0.61	3.15	1.57	0.25	1.40	3.50	0.35
1864	0.78	0.65	3.32	1.69	0.28	1.52	3.71	0.36
1865	0.79	0.65	3.25	1.70	0.28	1.43	3.62	0.34
1866	0.79	0.65	3.27	1.72	0.28	1.51	3.74	0.32
1867	0.79	0.64	3.28	1.71	0.28	1.36	3.58	0.30
1868	0.79	0.63	3.31	1.69	0.27	1.39	3.62	0.27
1869	0.80	0.64	3.42	1.73	0.28	1.45	3.71	0.26
1870	0.80	0.64	3.48	1.72	0.28	1.44	3.72	0.25
1871	0.94	0.66	3.65	1.80	0.30	1.47	3.82	0.27
1872	0.99	0.68	3.77	1.94	0.32	1.61	4.17	0.30
1873	1.01	0.67	3.70	1.93	0.31	1.54	4.15	0.32
1874	1.02	0.66	3.65	1.97	0.30	1.52	4.12	0.33
1875	1.01	0.64	3.76	1.95	0.30	1.54	4.01	0.34
1876	1.02	0.69	3.74	2.02	0.29	1.59	4.27	0.39
1877	1.11	0.65	3.93	2.07	0.30	1.58	4.29	0.42
1878	1.16	0.67	3.91	2.11	0.29	1.55	4.37	0.45
1879	1.16	0.70	4.12	2.16	0.31	1.55	4.52	0.47
1880	1.21	0.64	3.95	2.19	0.29	1.50	4.50	0.50
1881	1.29	0.68	4.59	2.35	0.35	1.70	4.89	0.54
1882	1.28	0.63	4.43	2.42	0.33	1.68	4.99	0.59
1883	1.29	0.68	4.60	2.54	0.33	1.70	5.12	0.63
1884	1.32	0.70	4.48	2.66	0.31	1.63	5.14	0.63
1885	1.36	0.68	4.63	2.84	0.30	1.63	5.39	0.66
1886	1.40	0.69	4.84	3.01	0.30	1.65	5.42	0.68
1887	1.42	0.68	4.90	3.21	0.30	1.66	5.63	0.73
1888	1.42	0.71	4.90	3.25	0.31	1.70	5.08	0.70
1889	1.39	0.62	4.72	3.30	0.31	1.78	5.12	0.83
1890	1.42	0.70	4.77	3.39	0.31	1.73	5.07	0.94
1891	1.44	0.67	4.76	3.38	0.31	1.68	5.29	1.08
1892	1.46	0.70	4.72	3.41	0.31	1.75	5.86	1.04
1893	1.45	0.69	4.64	3.44	0.30	1.79	5.64	1.02
1894	1.45	0.67	4.81	3.57	0.28	2.01	5.76	0.92
1895	1.54	0.74	4.86	3.56	0.27	1.95	5.74	0.95
1896	1.62	0.73	5.05	3.72	0.26	2.01	5.74	1.06
1897	1.73	0.79	5.57	3.90	0.26	2.15	6.07	1.17
1898	1.79	0.83	5.73	3.98	0.25	2.06	6.40	1.31
1899	1.82	0.93	6.38	4.10	0.25	2.29	6.85	1.32
1900	2.14	0.88	6.07	4.56	0.24	2.19	7.09	1.27
1901	2.39	0.92	5.96	4.24	0.23	2.16	7.14	1.20
1902	2.66	0.98	5.84	4.28	0.23	2.40	7.41	1.13
1903	2.66	2.21	6.23	4.28	0.23	2.32	7.92	1.05
1904	2.65	2.14	6.78	4.53	0.24	2.61	8.89	1.08
1905	2.76	2.18	6.66	4.61	0.23	2.48	8.90	1.15
1906	2.96	2.31	7.44	4.85	0.24	2.70	9.26	1.24
1907	3.08	2.92	8.27	5.29	0.24	2.93	9.64	1.33
1908	3.39	3.60	8.24	5.66	0.24	3.14	10.28	1.43
1909	3.73	3.56	8.62	5.67	0.24	2.98	9.72	1.61
1910	3.82	3.61	10.59	6.35	0.26	3.14	10.95	1.63
1911	3.90	3.32	11.13	6.70	0.27	3.34	11.65	1.34
1912	4.02	3.46	11.83	6.97	0.29	3.47	12.20	1.00
1913	3.99	3.56	12.72	7.04	0.31	3.38	11.82	0.86

Source: Appendix A.

Table 2  
Regional Shares of National Production and Regional Indices of Relative  
Industrialization: Major-Group Estimates, Selected Years

	(1) Pied.	(2) Lig.	(3) Lomb.	(4) Ven.	(5) Emilia	(6) Tusc.	(7) March.	(8) Umbria
A. Regional shares of production (percent <sup>a</sup> )								
1861	12.33	5.05	11.01	8.06	6.64	7.92	2.13	1.06
1871	11.70	4.45	11.56	8.06	6.99	7.86	2.76	1.12
1881	13.89	4.37	12.89	8.30	6.76	8.41	2.79	.89
1891	16.70	4.90	16.77	8.50	5.39	8.34	2.53	.66
1901	13.35	5.08	20.44	11.53	5.10	9.11	1.83	1.96
1911	15.32	6.97	20.15	7.97	6.71	11.07	2.18	4.33
1911/1871	1.31	1.57	1.74	.99	.96	1.41	.80	3.87
B. Regional shares of the male population over age 15 (percent <sup>a</sup> )								
1871	10.73	3.11	13.12	9.83	8.10	8.18	3.34	2.14
1911	10.32	3.82	13.88	9.27	8.06	8.12	3.03	2.07
C. Indices of relative industrialization <sup>b</sup>								
1871	1.09	1.43	.88	.82	.86	.96	.83	.52
1911	1.48	1.82	1.45	.86	.83	1.36	.72	2.09
1911/1871	1.36	1.27	1.65	1.05	.97	1.42	.87	4.02
	(9) Latium	(10) Abr.	(11) Camp.	(12) Apulia	(13) Basil.	(14) Calab.	(15) Sicily	(16) Sard.
A. Regional shares of production (percent <sup>a</sup> )								
1861	2.93	2.46	12.61	6.35	1.10	5.42	13.39	1.52
1871	3.33	2.32	12.88	6.34	1.05	5.17	13.47	.94
1881	3.27	1.73	11.67	5.98	.90	4.34	12.43	1.38
1891	2.79	1.31	9.26	6.58	.60	3.26	10.30	2.11
1901	3.12	1.20	7.77	5.53	.30	2.82	9.31	1.57
1911	2.37	2.02	6.76	4.07	.17	2.03	7.08	.82
1911/1871	.71	.87	.52	.64	.16	.39	.53	.42
B. Regional shares of the male population over age 15 (percent <sup>a</sup> )								
1871	3.52	4.62	10.32	5.14	1.83	4.30	9.30	2.42
1911	4.06	3.71	9.33	6.06	1.26	3.54	10.92	2.55
C. Indices of relative industrialization <sup>b</sup>								
1871	.95	.50	1.25	1.23	.57	1.20	1.45	.39
1911	.58	.54	.72	.67	.13	.57	.65	.32
1911/1871	.61	1.08	.58	.54	.23	.48	.45	.82

<sup>a</sup>The row sums need not equal 100, due to rounding.

<sup>b</sup>Ratios of the regional shares of production to the regional shares of the male population over age 15.

Source: panel A: calculated from Table 1.  
panel B: Fenoaltea (2003), Table 2.  
panel C: calculated from panels A and B.

Table 3  
Regional Shares of National Production: Industry Estimates, 1871 and 1911  
(percentages of value added at 1911 prices<sup>a</sup>)

	Piedmont		Liguria		Lombardy		Venetia		Emilia		Tuscany		Marches		Umbria	
	1871	1911	1871	1911	1871	1911	1871	1911	1871	1911	1871	1911	1871	1911	1871	1911
1. Prin. acids	39	19	8	3	20	18	0	16	0	12	0	10	0	3	0	2
2. Matches	22	20	2	0	22	29	6	16	16	5	12	9	3	4	0	7
3. Fats, oils	12	9	6	10	8	11	6	4	5	5	7	13	1	1	1	6
4. Fertilizer	-	15	-	2	-	18	-	23	-	14	-	10	-	3	-	3
5. Explosives	14	32	1	8	2	5	1	1	3	6	10	17	4	1	1	1
6. Color. mat.	9	12	7	18	12	26	11	11	8	4	10	9	3	1	2	1
7. Pharmaceut.	10	10	2	4	14	40	10	6	5	8	6	9	2	1	2	1
8. Electrochem.	-	4	-	0	-	33	-	0	-	0	-	2	-	10	-	35
9. Other inorg.	3	11	4	18	1	7	8	13	20	4	5	9	13	3	0	0
10. Other organ.	17	17	4	4	9	9	7	7	8	8	11	11	0	0	0	0
11. Coal etc.	14	13	19	10	0	3	3	0	0	12	8	27	30	3	0	0
12. Rubber	-	39	-	1	-	50	-	1	-	1	-	6	-	0	-	0

	Latium		Abruzzi		Campania		Apulia		Basilicata		Calabria		Sicily		Sardinia	
	1871	1911	1871	1911	1871	1911	1871	1911	1871	1911	1871	1911	1871	1911	1871	1911
1. Prin. acids	8	2	0	2	25	5	0	5	0	0	0	0	0	3	0	0
2. Matches	2	0	2	0	5	6	1	4	0	0	1	0	7	0	0	0
3. Fats, oils	4	6	0	1	11	8	12	10	0	0	9	6	19	10	0	0
4. Fertilizer	-	1	-	2	-	2	-	5	-	0	-	0	-	3	-	0
5. Explosives	3	1	3	1	8	14	11	1	3	0	4	1	29	6	3	6
6. Color. mat.	4	2	2	1	13	6	3	1	1	0	3	1	11	6	2	1
7. Pharmaceut.	3	3	4	2	18	8	6	2	2	1	6	2	8	4	1	1
8. Electrochem.	-	0	-	15	-	1	-	0	-	0	-	0	-	0	-	0
9. Other inorg.	2	1	0	1	6	2	0	3	0	0	0	0	37	28	1	0
10. Other organ.	0	0	0	0	7	7	5	5	0	0	7	7	24	24	0	0
11. Coal etc.	3	4	0	4	23	21	0	2	0	0	0	0	0	1	0	0
12. Rubber	-	1	-	0	-	1	-	0	-	0	-	0	-	0	-	0

<sup>a</sup>The row sums need not equal 100, due to rounding.

Source: calculated from Appendix A.

Table 4  
Regional Indices of Relative Industrialization: Industry Estimates, 1871 and 1911<sup>a</sup>

	Piedmont		Liguria		Lombardy		Venetia		Emilia		Tuscany		Marches		Umbria	
	1871	1911	1871	1911	1871	1911	1871	1911	1871	1911	1871	1911	1871	1911	1871	1911
1. Prin. acids	3.59	1.89	2.72	0.89	1.55	1.28	0.00	1.72	0.00	1.49	0.00	1.27	0.00	0.83	0.00	1.04
2. Matches	2.06	1.90	0.54	0.01	1.65	2.07	0.66	1.75	1.98	0.56	1.42	1.07	0.82	1.36	0.11	3.38
3. Fats, oils	1.08	0.84	2.07	2.69	0.61	0.76	0.57	0.41	0.59	0.61	0.80	1.58	0.29	0.43	0.33	3.05
4. Fertilizer	-	1.49	-	0.62	-	1.30	-	2.49	-	1.69	-	1.22	-	0.88	-	1.26
5. Explosives	1.33	3.06	0.46	2.12	0.19	0.33	0.13	0.09	0.37	0.78	1.22	2.15	1.12	0.27	0.38	0.25
6. Color. mat.	0.81	1.18	2.28	4.62	0.88	1.86	1.08	1.21	0.94	0.55	1.26	1.06	0.79	0.33	0.84	0.32
7. Pharmaceut.	0.95	0.98	0.58	0.96	1.06	2.88	1.03	0.67	0.64	0.95	0.71	1.06	0.74	0.43	0.71	0.35
8. Electrochem.	-	0.36	-	0.00	-	2.35	-	0.04	-	0.00	-	0.29	-	3.32	-	17.05
9. Other inorg.	0.25	1.07	1.17	4.80	0.06	0.52	0.81	1.37	2.47	0.48	0.63	1.10	3.77	0.83	0.00	0.00
10. Other organ.	1.62	1.69	1.22	0.99	0.70	0.66	0.71	0.76	0.99	0.99	1.32	1.33	0.06	0.07	0.02	0.02
11. Coal etc.	1.27	1.22	5.97	2.64	0.03	0.19	0.26	0.00	0.01	1.53	0.98	3.38	9.01	1.09	0.00	0.00
12. Rubber	-	3.76	-	0.35	-	3.59	-	0.07	-	0.17	-	0.76	-	0.01	-	0.10

	Latium		Abruzzi		Campania		Apulia		Basilicata		Calabria		Sicily		Sardinia	
	1871	1911	1871	1911	1871	1911	1871	1911	1871	1911	1871	1911	1871	1911	1871	1911
1. Prin. acids	2.21	0.41	0.00	0.57	2.41	0.52	0.00	0.77	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.01
2. Matches	0.57	0.06	0.52	0.01	0.51	0.64	0.11	0.73	0.00	0.00	0.15	0.00	0.71	0.02	0.00	0.00
3. Fats, oils	0.99	1.44	0.09	0.22	1.06	0.83	2.42	1.67	0.08	0.00	1.99	1.83	2.03	0.91	0.17	0.19
4. Fertilizer	-	0.32	-	0.46	-	0.24	-	0.74	-	0.00	-	0.00	-	0.24	-	0.00
5. Explosives	0.89	0.18	0.62	0.27	0.79	1.46	2.06	0.22	1.54	0.19	0.93	0.24	3.12	0.51	1.05	2.53
6. Color. mat.	1.25	0.61	0.52	0.17	1.22	0.60	0.60	0.22	0.36	0.17	0.74	0.24	1.23	0.56	0.81	0.53
7. Pharmaceut.	0.87	0.63	0.90	0.53	1.76	0.88	1.16	0.37	1.26	0.60	1.43	0.44	0.90	0.36	0.30	0.21
8. Electrochem.	-	0.07	-	4.01	-	0.06	-	0.00	-	0.00	-	0.00	-	0.00	-	0.00
9. Other inorg.	0.69	0.33	0.00	0.16	0.59	0.19	0.00	0.55	0.00	0.00	0.00	0.00	4.00	2.59	0.62	0.07
10. Other organ.	0.10	0.08	0.04	0.05	0.68	0.75	0.91	0.77	0.26	0.37	1.64	1.99	2.56	2.18	0.01	0.01
11. Coal etc.	0.96	1.00	0.00	1.01	2.26	2.21	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00
12. Rubber	-	0.23	-	0.00	-	0.05	-	0.01	-	0.00	-	0.00	-	0.01	-	0.00

<sup>a</sup>Ratios of the regional shares of production to the regional shares of the male population over age 15.

Source: calculated from the production shares in Table 3 and the male-population shares in Table 2, panel B.

Table 5  
Sums of the Absolute Deviations from 1.00 of the Regional  
Indices of Relative Industrialization, 1871 and 1911

	(1)	(2)	(3) Industry share of major-group value added (percent)		(5) Sums weighted by the industry share of value added	
	<u>Simple sums</u>		<u>(percent)</u>		<u>of value added</u>	
	1871	1911	1871	1911	1871	1911
1. Principal acids	18.5	8.4	.6	8.0	11	68
2. Matches	10.4	13.5	9.9	5.4	103	73
3. Fats, oils	10.1	11.1	25.1	19.1	255	212
4. Fertilizer	-	10.0	.0	8.9	-	89
5. Explosives	8.7	14.0	4.7	8.2	41	115
6. Coloring materials	5.0	11.6	22.6	8.3	114	96
7. Pharmaceuticals	4.4	7.6	31.3	13.0	138	98
8. Electrochemicals	-	33.9	.0	6.0	-	205
9. Other inorganic	15.8	13.8	2.8	5.8	45	80
10. Other organic	9.9	9.7	1.8	6.3	18	61
11. Coal and petrol.	24.3	13.5	1.1	5.4	27	73
12. Rubber	-	17.6	.0	5.5	-	97
13. Sum of rows 1 - 12	107.0	164.6	100.0	100.0	752	1,267
14. Entire major group	4.4	7.6	100.0	100.0	436	761

Numbers need not add, due to rounding.

Source: cols. 1 - 2: rows 1 - 12: calculated from Table 4, rows 1 - 12.  
row 13: sum of rows 1 - 12.  
row 14: calculated from Table 2, panel C.  
cols. 3 - 4: calculated from Fenoaltea (2006a), Table 2.  
cols. 5 - 6: rows 1 - 12, 14: products of cols. 1 and 3, and 2 and 4,  
respectively.  
row 13: sum of rows 1 - 12.

Table 6  
Industry Shares of Regional Production, 1871 and 1911  
(percentages of value added at 1911 prices<sup>a</sup>)

	Piedmont		Liguria		Lombardy		Venetia		Emilia		Tuscany		Marches		Umbria	
	1871	1911	1871	1911	1871	1911	1871	1911	1871	1911	1871	1911	1871	1911	1871	1911
1. Prin. acids	2	10	1	4	1	7	0	16	0	14	0	7	0	9	0	4
2. Matches	19	7	4	0	19	8	8	11	23	4	15	4	10	10	3	9
3. Fats, oils	25	11	37	28	17	10	17	9	17	14	21	22	9	11	16	28
4. Fertilizer	0	9	0	3	0	8	0	26	0	18	0	8	0	11	0	5
5. Explosives	6	17	2	10	1	2	1	1	2	8	6	13	6	3	3	1
6. Color. mat.	17	7	36	21	23	11	30	12	25	5	30	6	22	4	35	1
7. Pharmaceut.	27	9	13	7	38	26	39	10	23	15	23	10	28	8	42	2
8. Electrochem.	0	1	0	0	0	10	0	0	0	0	0	1	0	28	0	49
9. Other inorg.	1	4	2	15	0	2	3	9	8	3	2	5	13	7	0	0
10. Other organ.	3	7	2	3	2	3	2	6	2	8	3	6	0	1	0	0
11. Coal etc.	1	4	5	8	0	1	0	0	0	10	1	13	13	8	0	0
12. Rubber	0	14	0	1	0	14	0	0	0	1	0	3	0	0	0	0

	Latium		Abruzzi		Campania		Apulia		Basilicata		Calabria		Sicily		Sardinia	
	1871	1911	1871	1911	1871	1911	1871	1911	1871	1911	1871	1911	1871	1911	1871	1911
1. Prin. acids	1	6	0	8	1	6	0	9	0	59	0	0	0	0	0	0
2. Matches	6	1	11	0	4	5	1	6	0	0	1	0	5	0	0	0
3. Fats, oils	27	47	5	8	21	22	49	47	3	0	41	61	35	28	12	11
4. Fertilizer	0	5	0	7	0	3	0	10	0	0	0	0	0	3	0	0
5. Explosives	4	3	6	4	3	17	8	3	14	5	3	3	10	7	12	65
6. Color. mat.	30	8	23	3	22	7	11	3	14	5	14	4	19	7	50	14
7. Pharmaceut.	29	14	56	13	44	16	29	7	69	24	37	10	19	8	23	8
8. Electrochem.	0	1	0	44	0	0	0	0	0	0	0	0	0	0	0	0
9. Other inorg.	2	3	0	2	1	2	0	5	0	0	0	0	8	24	4	1
10. Other organ.	0	1	0	1	1	7	1	7	0	8	3	22	3	22	0	0
11. Coal etc.	1	9	0	10	2	17	0	3	0	0	0	0	0	1	0	0
12. Rubber	0	2	0	0	0	0	0	0	0	8	0	0	0	0	0	0

<sup>a</sup>The column sums need not equal 100, due to rounding.

Source: calculated from Appendix A.

Appendix A  
Regional Production: Industry, Industry-Group, and Major-Group Estimates, 1861-1913  
(million lire at 1911 Prices)

## A. Piedmont

	(1)	(2)	(3)	Chemicals		(6)	(7)	(8)	*
	Princ. acids	Matches	Fats and oils	Ferti- lizer	Explo- sives	Coloring materials	Pharma- ceuticals	Electr. and gases	
1861	0.03	0.52	0.70	0.00	0.24	0.62	0.89	0.00	
1862	0.03	0.53	0.71	0.00	0.15	0.66	0.89	0.00	
1863	0.03	0.54	0.72	0.00	0.14	0.65	0.87	0.00	
1864	0.03	0.55	0.74	0.00	0.25	0.66	0.87	0.00	
1865	0.04	0.56	0.76	0.00	0.25	0.56	0.86	0.00	
1866	0.04	0.57	0.74	0.00	0.28	0.53	0.87	0.00	
1867	0.04	0.58	0.75	0.00	0.24	0.54	0.87	0.00	
1868	0.05	0.58	0.78	0.00	0.18	0.53	0.88	0.00	
1869	0.05	0.59	0.81	0.00	0.18	0.54	0.88	0.00	
1870	0.06	0.61	0.80	0.00	0.15	0.54	0.89	0.00	
1871	0.07	0.62	0.83	0.00	0.19	0.56	0.90	0.00	
1872	0.07	0.64	0.87	0.00	0.35	0.58	0.90	0.00	
1873	0.08	0.70	0.91	0.00	0.32	0.63	0.89	0.00	
1874	0.09	0.74	0.96	0.00	0.37	0.65	0.88	0.00	
1875	0.10	0.78	1.01	0.00	0.28	0.66	0.91	0.00	
1876	0.11	0.81	1.06	0.00	0.36	0.68	0.89	0.00	
1877	0.12	0.93	1.12	0.00	0.37	0.70	0.91	0.00	
1878	0.14	1.04	1.16	0.01	0.38	0.72	0.91	0.00	
1879	0.15	1.13	1.22	0.01	0.36	0.75	0.94	0.00	
1880	0.17	1.19	1.27	0.01	0.42	0.78	0.91	0.00	
1881	0.20	1.31	1.35	0.01	0.50	0.83	0.98	0.00	
1882	0.22	1.33	1.37	0.01	0.51	0.84	0.95	0.00	
1883	0.25	1.40	1.43	0.02	0.55	0.88	0.97	0.00	
1884	0.31	1.42	1.46	0.02	0.53	0.90	0.94	0.00	
1885	0.34	1.38	1.54	0.03	0.57	0.97	0.95	0.00	
1886	0.39	1.41	1.61	0.03	0.63	1.00	0.94	0.00	
1887	0.39	1.43	1.67	0.04	0.57	1.01	0.95	0.00	
1888	0.44	1.46	1.64	0.04	1.11	1.01	0.98	0.00	
1889	0.44	1.47	1.64	0.05	0.84	0.99	0.99	0.00	
1890	0.57	1.52	1.68	0.05	1.09	0.98	1.02	0.00	
1891	0.64	1.56	1.69	0.07	1.49	0.96	1.03	0.00	
1892	0.65	1.62	1.70	0.08	1.41	0.93	1.06	0.00	
1893	0.64	1.71	1.71	0.09	1.35	0.94	1.07	0.00	
1894	0.71	1.82	1.73	0.14	0.67	1.03	1.10	0.00	
1895	0.75	1.88	1.78	0.30	0.63	1.04	1.13	0.01	
1896	0.69	1.86	1.83	0.40	0.61	1.05	1.16	0.01	
1897	0.69	1.94	1.88	0.54	0.86	1.04	1.17	0.01	
1898	0.67	1.86	1.97	0.63	0.54	1.03	1.20	0.01	
1899	0.67	1.73	2.04	0.73	0.32	1.04	1.25	0.03	
1900	0.83	1.67	2.08	0.98	0.28	1.00	1.19	0.08	
1901	0.80	1.75	2.11	1.02	0.28	1.01	1.23	0.11	
1902	0.84	1.88	2.16	0.95	0.35	1.10	1.39	0.35	
1903	0.90	2.03	2.23	0.91	0.90	1.16	1.45	0.34	
1904	1.02	1.93	2.26	1.03	1.08	1.24	1.52	0.36	
1905	1.23	1.70	2.28	1.27	1.29	1.28	1.57	0.42	
1906	1.46	1.71	2.35	1.37	1.56	1.42	1.68	0.42	
1907	1.74	1.69	2.49	1.58	1.94	1.53	1.85	0.51	
1908	1.99	1.71	2.60	1.87	1.97	1.63	1.86	0.57	
1909	2.13	1.79	2.70	2.04	2.06	1.65	1.99	0.45	
1910	2.58	1.72	2.72	2.39	2.60	1.62	2.09	0.27	
1911	2.57	1.73	2.72	2.25	4.26	1.65	2.15	0.37	
1912	2.79	1.94	2.89	2.45	5.01	1.74	2.33	0.37	
1913	2.98	2.14	2.96	2.37	6.37	1.71	2.44	0.86	

## Appendix A (continued)

## A. Piedmont (continued)

	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	*
	Other inorg.	Chemicals Other org.	Total	Coal and Refineries	petroleum Other	products Total	Rubber Total	Group total	
1861	0.01	0.07	3.08	0.06	0.01	0.08	0.00	3.15	
1862	0.01	0.06	3.04	0.06	0.01	0.08	0.00	3.11	
1863	0.01	0.09	3.04	0.06	0.01	0.08	0.00	3.11	
1864	0.01	0.12	3.24	0.06	0.01	0.08	0.00	3.32	
1865	0.01	0.10	3.13	0.06	0.01	0.08	0.00	3.21	
1866	0.01	0.09	3.12	0.06	0.01	0.08	0.00	3.20	
1867	0.02	0.06	3.10	0.06	0.01	0.07	0.00	3.17	
1868	0.02	0.07	3.08	0.06	0.01	0.06	0.00	3.14	
1869	0.02	0.07	3.15	0.05	0.01	0.06	0.00	3.21	
1870	0.02	0.09	3.16	0.04	0.01	0.05	0.00	3.21	
1871	0.02	0.09	3.27	0.04	0.01	0.04	0.00	3.31	
1872	0.02	0.15	3.59	0.03	0.01	0.04	0.00	3.62	
1873	0.02	0.13	3.69	0.03	0.01	0.03	0.00	3.72	
1874	0.02	0.14	3.85	0.02	0.00	0.02	0.00	3.88	
1875	0.03	0.10	3.87	0.02	0.00	0.02	0.00	3.89	
1876	0.03	0.12	4.06	0.01	0.00	0.01	0.00	4.07	
1877	0.03	0.12	4.30	0.01	0.00	0.01	0.00	4.31	
1878	0.03	0.12	4.51	0.00	0.00	0.00	0.00	4.51	
1879	0.03	0.14	4.73	0.00	0.00	0.00	0.00	4.73	
1880	0.03	0.11	4.89	0.00	0.03	0.03	0.00	4.93	
1881	0.03	0.18	5.38	0.00	0.07	0.07	0.00	5.46	
1882	0.04	0.16	5.43	0.00	0.11	0.12	0.01	5.55	
1883	0.04	0.19	5.71	0.01	0.16	0.16	0.01	5.88	
1884	0.04	0.21	5.82	0.01	0.21	0.22	0.01	6.05	
1885	0.04	0.19	6.02	0.01	0.27	0.28	0.02	6.31	
1886	0.05	0.19	6.24	0.01	0.33	0.35	0.01	6.60	
1887	0.05	0.21	6.33	0.02	0.41	0.43	0.02	6.78	
1888	0.08	0.20	6.96	0.02	0.56	0.57	0.02	7.55	
1889	0.08	0.26	6.75	0.02	0.67	0.69	0.04	7.48	
1890	0.08	0.27	7.26	0.03	0.74	0.77	0.04	8.06	
1891	0.10	0.24	7.79	0.03	0.74	0.77	0.02	8.59	
1892	0.10	0.28	7.82	0.04	0.78	0.81	0.03	8.67	
1893	0.10	0.35	7.97	0.04	0.44	0.49	0.04	8.50	
1894	0.14	0.38	7.72	0.05	0.44	0.49	0.06	8.28	
1895	0.13	0.38	8.02	0.05	0.44	0.49	0.07	8.58	
1896	0.16	0.41	8.17	0.06	0.49	0.55	0.07	8.80	
1897	0.20	0.44	8.77	0.07	0.74	0.81	0.09	9.67	
1898	0.18	0.44	8.53	0.23	0.89	1.12	0.10	9.74	
1899	0.17	0.52	8.48	0.23	0.74	0.97	0.11	9.56	
1900	0.23	0.52	8.85	0.31	0.81	1.12	0.12	10.09	
1901	0.28	0.57	9.16	0.15	0.81	0.97	0.11	10.23	
1902	0.26	0.78	10.05	0.09	0.36	0.45	0.20	10.70	
1903	0.21	0.77	10.91	0.07	0.36	0.42	0.27	11.60	
1904	0.28	1.08	11.80	0.11	1.07	1.18	0.34	13.32	
1905	0.65	0.99	12.67	0.23	0.97	1.21	0.47	14.35	
1906	0.80	1.15	13.92	0.07	0.85	0.92	0.84	15.69	
1907	0.85	1.32	15.50	0.03	0.84	0.87	0.84	17.20	
1908	0.94	1.55	16.70	0.04	0.96	1.00	1.46	19.16	
1909	1.06	1.13	17.00	0.02	0.95	0.97	1.68	19.65	
1910	1.01	1.55	18.55	0.02	0.95	0.97	2.34	21.86	
1911	1.06	1.82	20.59	0.02	1.11	1.13	3.51	25.23	
1912	1.82	1.87	23.20	0.00	1.05	1.06	4.97	29.23	
1913	2.59	1.66	26.08	0.00	1.00	1.00	3.57	30.65	



## Appendix A (continued)

## B. Liguria

	(1)	(2)	(3)	Chemicals		(6)	(7)	(8)	*
	Princ. acids	Matches	Fats and oils	Ferti- lizer	Explo- sives	Coloring materials	Pharma- ceuticals	Electr. and gases	
1861	0.00	0.04	0.39	0.00	0.02	0.41	0.15	0.00	
1862	0.00	0.04	0.40	0.00	0.02	0.44	0.15	0.00	
1863	0.00	0.04	0.40	0.00	0.01	0.43	0.15	0.00	
1864	0.01	0.04	0.41	0.00	0.02	0.44	0.15	0.00	
1865	0.01	0.04	0.42	0.00	0.02	0.44	0.15	0.00	
1866	0.01	0.04	0.42	0.00	0.03	0.42	0.15	0.00	
1867	0.01	0.04	0.42	0.00	0.02	0.43	0.15	0.00	
1868	0.01	0.04	0.44	0.00	0.02	0.42	0.15	0.00	
1869	0.01	0.05	0.45	0.00	0.02	0.44	0.15	0.00	
1870	0.01	0.05	0.45	0.00	0.01	0.44	0.16	0.00	
1871	0.01	0.05	0.46	0.00	0.02	0.45	0.16	0.00	
1872	0.02	0.05	0.47	0.00	0.03	0.45	0.16	0.00	
1873	0.02	0.05	0.49	0.00	0.03	0.45	0.17	0.00	
1874	0.02	0.06	0.51	0.00	0.04	0.44	0.16	0.00	
1875	0.03	0.06	0.52	0.00	0.03	0.42	0.18	0.00	
1876	0.03	0.06	0.55	0.00	0.04	0.40	0.18	0.00	
1877	0.04	0.07	0.58	0.00	0.04	0.39	0.18	0.00	
1878	0.04	0.08	0.58	0.00	0.04	0.38	0.19	0.00	
1879	0.05	0.09	0.59	0.00	0.03	0.36	0.20	0.00	
1880	0.04	0.09	0.59	0.00	0.04	0.36	0.20	0.00	
1881	0.04	0.10	0.62	0.01	0.05	0.35	0.22	0.00	
1882	0.03	0.10	0.64	0.01	0.05	0.37	0.22	0.00	
1883	0.01	0.09	0.65	0.01	0.05	0.39	0.23	0.00	
1884	0.00	0.09	0.67	0.01	0.04	0.42	0.22	0.00	
1885	0.00	0.08	0.71	0.01	0.04	0.48	0.23	0.00	
1886	0.00	0.07	0.75	0.01	0.04	0.52	0.23	0.00	
1887	0.00	0.07	0.78	0.01	0.15	0.54	0.24	0.00	
1888	0.00	0.06	0.77	0.01	0.15	0.56	0.25	0.00	
1889	0.00	0.05	0.77	0.02	0.22	0.56	0.26	0.00	
1890	0.00	0.05	0.79	0.02	0.28	0.57	0.27	0.00	
1891	0.02	0.04	0.79	0.02	0.34	0.58	0.28	0.00	
1892	0.04	0.04	0.79	0.02	0.39	0.59	0.29	0.00	
1893	0.06	0.03	0.79	0.02	0.43	0.62	0.30	0.00	
1894	0.06	0.03	0.80	0.02	0.10	0.74	0.31	0.00	
1895	0.05	0.02	0.83	0.02	0.02	0.75	0.33	0.00	
1896	0.05	0.02	0.84	0.02	0.02	0.79	0.34	0.00	
1897	0.07	0.01	0.86	0.02	0.04	0.80	0.34	0.00	
1898	0.07	0.01	0.89	0.02	0.05	0.79	0.36	0.00	
1899	0.07	0.01	0.91	0.02	0.08	0.81	0.38	0.00	
1900	0.10	0.00	0.92	0.04	0.08	0.81	0.36	0.00	
1901	0.11	0.00	0.92	0.05	0.09	0.82	0.38	0.00	
1902	0.16	0.01	0.94	0.09	0.09	0.92	0.44	0.00	
1903	0.23	0.00	0.96	0.15	0.19	1.00	0.47	0.00	
1904	0.21	0.00	1.13	0.13	0.28	1.14	0.50	0.00	
1905	0.21	0.00	1.30	0.13	0.34	1.23	0.52	0.00	
1906	0.25	0.00	1.53	0.15	0.39	1.44	0.57	0.00	
1907	0.29	0.00	1.83	0.19	0.47	1.60	0.64	0.00	
1908	0.35	0.00	2.16	0.25	0.52	1.82	0.65	0.00	
1909	0.39	0.00	2.54	0.29	0.59	2.00	0.71	0.00	
1910	0.46	0.00	2.88	0.35	0.74	2.15	0.75	0.00	
1911	0.45	0.00	3.23	0.35	1.09	2.39	0.78	0.00	
1912	0.67	0.00	3.46	0.36	2.46	2.46	0.85	0.00	
1913	0.90	0.01	3.53	0.33	4.72	2.43	0.89	0.00	

## Appendix A (continued)

## B. Liguria (continued)

	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	*
	Other inorg.	Chemicals Other org.	Total	Coal and Refineries	petroleum Other	products Total	Rubber Total	Group total	
1861	0.06	0.02	1.09	0.00	0.20	0.20	0.00	1.29	
1862	0.04	0.01	1.11	0.00	0.20	0.20	0.00	1.31	
1863	0.04	0.02	1.09	0.00	0.20	0.20	0.00	1.29	
1864	0.04	0.03	1.14	0.00	0.20	0.20	0.00	1.34	
1865	0.04	0.02	1.14	0.00	0.20	0.20	0.00	1.34	
1866	0.04	0.02	1.13	0.00	0.12	0.12	0.00	1.24	
1867	0.04	0.01	1.13	0.01	0.10	0.10	0.00	1.23	
1868	0.03	0.02	1.13	0.01	0.08	0.09	0.00	1.22	
1869	0.02	0.02	1.16	0.01	0.07	0.08	0.00	1.24	
1870	0.01	0.02	1.15	0.01	0.06	0.07	0.00	1.22	
1871	0.03	0.02	1.20	0.01	0.05	0.06	0.00	1.26	
1872	0.04	0.03	1.26	0.01	0.07	0.07	0.00	1.33	
1873	0.04	0.03	1.28	0.01	0.08	0.09	0.00	1.37	
1874	0.03	0.03	1.29	0.01	0.10	0.11	0.01	1.41	
1875	0.03	0.02	1.28	0.01	0.12	0.14	0.01	1.42	
1876	0.05	0.03	1.34	0.01	0.15	0.17	0.01	1.51	
1877	0.06	0.03	1.38	0.02	0.18	0.20	0.01	1.59	
1878	0.06	0.03	1.39	0.02	0.22	0.23	0.00	1.63	
1879	0.07	0.03	1.42	0.02	0.13	0.15	0.01	1.58	
1880	0.09	0.02	1.44	0.02	0.12	0.15	0.01	1.59	
1881	0.13	0.04	1.57	0.02	0.12	0.14	0.01	1.72	
1882	0.14	0.04	1.58	0.02	0.12	0.14	0.01	1.73	
1883	0.16	0.04	1.63	0.02	0.11	0.14	0.02	1.79	
1884	0.14	0.04	1.63	0.02	0.11	0.13	0.02	1.78	
1885	0.17	0.04	1.75	0.02	0.11	0.13	0.03	1.91	
1886	0.19	0.04	1.84	0.02	0.10	0.13	0.02	1.99	
1887	0.20	0.05	2.03	0.03	0.10	0.12	0.03	2.19	
1888	0.22	0.04	2.06	0.03	0.18	0.21	0.03	2.30	
1889	0.17	0.06	2.11	0.03	0.09	0.12	0.04	2.27	
1890	0.19	0.06	2.23	0.03	0.09	0.12	0.04	2.38	
1891	0.21	0.05	2.34	0.04	0.13	0.16	0.02	2.52	
1892	0.28	0.06	2.50	0.02	0.13	0.16	0.03	2.68	
1893	0.27	0.08	2.59	0.02	0.09	0.11	0.03	2.73	
1894	0.25	0.08	2.39	0.02	0.06	0.09	0.04	2.52	
1895	0.24	0.08	2.34	0.02	0.06	0.08	0.03	2.46	
1896	0.31	0.09	2.48	0.02	0.06	0.09	0.03	2.59	
1897	0.48	0.10	2.72	0.00	0.08	0.08	0.03	2.83	
1898	0.87	0.09	3.15	0.00	0.10	0.10	0.03	3.27	
1899	0.91	0.11	3.30	0.00	0.10	0.10	0.02	3.42	
1900	0.97	0.11	3.39	0.01	0.28	0.29	0.02	3.70	
1901	0.99	0.12	3.48	0.01	0.39	0.40	0.01	3.90	
1902	0.99	0.17	3.80	0.02	0.47	0.49	0.01	4.30	
1903	1.13	0.17	4.31	0.01	0.34	0.35	0.02	4.68	
1904	1.18	0.24	4.80	0.02	0.49	0.50	0.02	5.32	
1905	1.25	0.22	5.21	0.02	0.57	0.59	0.02	5.82	
1906	1.38	0.25	5.96	0.02	0.59	0.61	0.04	6.61	
1907	1.77	0.29	7.08	0.02	0.56	0.58	0.03	7.69	
1908	1.79	0.34	7.88	0.03	0.80	0.83	0.06	8.77	
1909	1.29	0.25	8.06	0.03	0.83	0.85	0.06	8.98	
1910	1.27	0.34	8.95	0.02	0.77	0.79	0.08	9.82	
1911	1.76	0.40	10.46	0.03	0.88	0.90	0.12	11.48	
1912	1.38	0.41	12.06	0.08	0.85	0.93	0.17	13.17	
1913	1.37	0.36	14.55	0.03	0.71	0.75	0.12	15.42	

## Appendix A (continued)

## C. Lombardy

	(1)	(2)	(3)	Chemicals		(6)	(7)	(8)	*
	Princ. acids	Matches	Fats and oils	Ferti- lizer	Explo- sives	Coloring materials	Pharma- ceuticals	Electr. and gases	
1861	0.01	0.51	0.49	0.00	0.04	0.70	1.02	0.00	
1862	0.01	0.52	0.50	0.00	0.03	0.74	1.04	0.00	
1863	0.01	0.53	0.51	0.00	0.02	0.72	0.92	0.00	
1864	0.01	0.54	0.52	0.00	0.04	0.74	0.98	0.00	
1865	0.01	0.55	0.52	0.00	0.04	0.75	0.90	0.00	
1866	0.02	0.56	0.51	0.00	0.05	0.71	0.96	0.00	
1867	0.02	0.57	0.52	0.00	0.04	0.72	0.99	0.00	
1868	0.02	0.57	0.54	0.00	0.03	0.70	1.03	0.00	
1869	0.03	0.58	0.56	0.00	0.03	0.73	1.08	0.00	
1870	0.03	0.60	0.55	0.00	0.03	0.72	1.16	0.00	
1871	0.03	0.61	0.57	0.00	0.03	0.74	1.24	0.00	
1872	0.04	0.60	0.59	0.00	0.06	0.78	1.21	0.00	
1873	0.05	0.62	0.61	0.00	0.06	0.84	1.15	0.00	
1874	0.06	0.63	0.64	0.00	0.07	0.87	1.03	0.00	
1875	0.06	0.64	0.67	0.00	0.05	0.90	1.19	0.00	
1876	0.07	0.63	0.70	0.01	0.07	0.92	1.08	0.00	
1877	0.08	0.69	0.76	0.02	0.08	0.96	1.15	0.00	
1878	0.10	0.73	0.79	0.02	0.08	1.00	1.14	0.00	
1879	0.11	0.76	0.83	0.02	0.08	1.03	1.33	0.00	
1880	0.13	0.76	0.88	0.03	0.10	1.09	1.07	0.00	
1881	0.16	0.80	0.94	0.04	0.12	1.16	1.53	0.00	
1882	0.19	0.81	0.99	0.05	0.12	1.21	1.37	0.00	
1883	0.22	0.86	1.07	0.07	0.13	1.29	1.49	0.00	
1884	0.29	0.88	1.14	0.10	0.11	1.35	1.33	0.00	
1885	0.33	0.86	1.25	0.14	0.12	1.51	1.40	0.00	
1886	0.39	0.88	1.34	0.18	0.14	1.60	1.40	0.00	
1887	0.41	0.91	1.45	0.22	0.15	1.66	1.49	0.00	
1888	0.45	0.92	1.47	0.26	0.07	1.70	1.65	0.00	
1889	0.44	0.94	1.50	0.32	0.08	1.71	1.76	0.00	
1890	0.56	0.98	1.57	0.38	0.09	1.75	1.96	0.00	
1891	0.62	1.00	1.63	0.49	0.10	1.77	2.06	0.00	
1892	0.61	1.05	1.69	0.62	0.11	1.75	2.21	0.00	
1893	0.59	1.11	1.75	0.70	0.09	1.84	2.27	0.00	
1894	0.82	1.19	1.81	0.82	0.06	2.13	2.47	0.00	
1895	1.06	1.24	1.93	1.39	0.03	2.20	2.65	0.00	
1896	1.02	1.23	2.02	1.28	0.04	2.30	2.85	0.00	
1897	1.06	1.35	2.13	1.22	0.10	2.35	2.90	0.00	
1898	1.09	1.41	2.27	1.45	0.12	2.36	3.07	0.00	
1899	1.17	1.39	2.41	1.67	0.16	2.43	3.37	0.00	
1900	1.32	1.53	2.50	1.88	0.15	2.39	3.07	0.00	
1901	1.15	1.80	2.61	1.56	0.15	2.46	3.28	0.00	
1902	1.16	2.02	2.67	1.67	0.12	2.62	4.31	0.01	
1903	1.23	2.05	2.83	1.87	0.20	2.67	4.81	0.02	
1904	1.39	2.21	2.84	1.99	0.25	2.81	5.29	0.03	
1905	1.69	2.49	2.88	2.32	0.23	2.84	5.62	0.12	
1906	1.85	2.58	2.96	2.29	0.30	3.08	6.29	0.47	
1907	2.02	2.75	3.13	2.37	0.36	3.25	7.19	0.56	
1908	2.32	2.71	3.22	2.67	0.39	3.42	7.25	1.57	
1909	2.51	2.75	3.35	2.72	0.57	3.45	7.89	1.69	
1910	2.67	2.86	3.31	2.99	0.52	3.41	8.33	2.24	
1911	2.35	2.55	3.32	2.64	0.61	3.50	8.56	3.24	
1912	2.07	2.52	3.53	2.48	0.62	3.63	9.48	3.76	
1913	1.73	2.82	3.57	2.01	0.74	3.57	10.06	4.27	

## Appendix A (continued)

## C. Lombardy (continued)

	(9)	(10)	(11)	(12)		(13)	(14)	(15)	(16)	*
	Other inorg.	Chemicals Other org.	Total	Coal	and petroleum Refineries	Other	products Total	Rubber Total	Group total	
1861	0.00	0.04	2.81	0.00	0.00	0.00	0.00	0.00	2.82	
1862	0.00	0.03	2.86	0.00	0.00	0.00	0.00	0.00	2.86	
1863	0.00	0.05	2.76	0.00	0.00	0.00	0.00	0.00	2.76	
1864	0.00	0.06	2.89	0.00	0.00	0.00	0.00	0.00	2.90	
1865	0.00	0.05	2.82	0.00	0.00	0.00	0.00	0.00	2.82	
1866	0.00	0.05	2.85	0.00	0.00	0.00	0.00	0.00	2.85	
1867	0.00	0.03	2.89	0.00	0.00	0.00	0.00	0.00	2.89	
1868	0.00	0.04	2.94	0.00	0.00	0.00	0.00	0.00	2.94	
1869	0.00	0.04	3.04	0.00	0.00	0.00	0.00	0.00	3.04	
1870	0.01	0.05	3.14	0.00	0.00	0.00	0.00	0.00	3.14	
1871	0.01	0.05	3.27	0.00	0.00	0.00	0.00	0.00	3.27	
1872	0.01	0.08	3.37	0.00	0.00	0.00	0.00	0.00	3.37	
1873	0.01	0.07	3.42	0.00	0.00	0.00	0.00	0.03	3.46	
1874	0.02	0.08	3.40	0.00	0.00	0.00	0.00	0.11	3.50	
1875	0.02	0.05	3.59	0.00	0.00	0.00	0.00	0.12	3.71	
1876	0.03	0.06	3.58	0.00	0.00	0.00	0.00	0.09	3.67	
1877	0.02	0.06	3.82	0.00	0.00	0.00	0.00	0.17	3.99	
1878	0.03	0.06	3.96	0.00	0.00	0.00	0.00	0.08	4.03	
1879	0.03	0.07	4.27	0.00	0.00	0.00	0.00	0.12	4.39	
1880	0.03	0.06	4.16	0.00	0.00	0.00	0.00	0.11	4.26	
1881	0.03	0.09	4.87	0.00	0.00	0.00	0.00	0.20	5.07	
1882	0.04	0.09	4.86	0.00	0.00	0.00	0.00	0.24	5.11	
1883	0.04	0.10	5.27	0.00	0.00	0.00	0.00	0.31	5.58	
1884	0.05	0.11	5.36	0.00	0.00	0.00	0.00	0.35	5.71	
1885	0.03	0.10	5.75	0.00	0.00	0.00	0.00	0.54	6.30	
1886	0.04	0.10	6.07	0.00	0.01	0.01	0.01	0.40	6.47	
1887	0.09	0.11	6.48	0.00	0.01	0.01	0.01	0.64	7.13	
1888	0.14	0.11	6.78	0.00	0.01	0.01	0.01	0.62	7.41	
1889	0.19	0.14	7.06	0.00	0.01	0.01	0.01	0.95	8.02	
1890	0.24	0.14	7.67	0.00	0.01	0.01	0.01	0.97	8.65	
1891	0.28	0.13	8.08	0.00	0.01	0.01	0.01	0.54	8.62	
1892	0.30	0.15	8.49	0.00	0.01	0.01	0.02	0.82	9.33	
1893	0.35	0.18	8.88	0.00	0.03	0.03	0.03	1.03	9.94	
1894	0.44	0.20	9.93	0.00	0.06	0.06	0.06	1.42	11.41	
1895	0.45	0.20	11.16	0.00	0.01	0.01	0.01	1.45	12.62	
1896	0.52	0.22	11.47	0.00	0.01	0.01	0.01	1.52	13.00	
1897	0.44	0.23	11.78	0.02	0.01	0.01	0.03	1.85	13.67	
1898	0.58	0.23	12.58	0.02	0.01	0.01	0.04	1.89	14.51	
1899	0.41	0.27	13.30	0.04	0.01	0.01	0.05	2.01	15.36	
1900	0.47	0.27	13.58	0.06	0.01	0.01	0.07	2.15	15.80	
1901	0.43	0.30	13.73	0.00	0.01	0.01	0.01	1.93	15.67	
1902	0.40	0.41	15.38	0.02	0.00	0.00	0.03	2.11	17.52	
1903	0.40	0.40	16.48	0.03	0.00	0.00	0.04	1.89	18.41	
1904	0.43	0.57	17.81	0.03	0.01	0.01	0.04	1.79	19.64	
1905	0.44	0.52	19.15	0.05	0.00	0.00	0.05	1.90	21.10	
1906	0.53	0.61	20.95	0.08	0.00	0.00	0.08	2.72	23.76	
1907	0.66	0.69	22.97	0.07	0.00	0.00	0.07	2.21	25.25	
1908	0.58	0.81	24.94	0.19	0.00	0.00	0.19	3.19	28.32	
1909	0.54	0.59	26.07	0.18	0.00	0.00	0.18	3.05	29.30	
1910	0.88	0.81	28.01	0.24	0.00	0.00	0.24	3.58	31.83	
1911	0.69	0.95	28.42	0.23	0.00	0.00	0.24	4.51	33.17	
1912	0.72	0.98	29.80	0.22	0.00	0.00	0.22	6.39	36.41	
1913	0.59	0.87	30.23	0.19	0.02	0.02	0.21	4.58	35.03	

## Appendix A (continued)

## D. Venetia

	(1)	(2)	(3)	Chemicals		(6)	(7)	(8)	*
	Princ. acids	Matches	Fats and oils	Ferti- lizer	Explo- sives	Coloring materials	Pharma- ceuticals	Electr. and gases	
1861	0.00	0.15	0.34	0.00	0.02	0.63	0.84	0.00	
1862	0.00	0.15	0.35	0.00	0.01	0.68	0.84	0.00	
1863	0.00	0.16	0.35	0.00	0.01	0.66	0.81	0.00	
1864	0.00	0.16	0.36	0.00	0.02	0.68	0.83	0.00	
1865	0.00	0.16	0.37	0.00	0.02	0.68	0.81	0.00	
1866	0.00	0.17	0.36	0.00	0.02	0.65	0.83	0.00	
1867	0.00	0.17	0.36	0.00	0.02	0.66	0.83	0.00	
1868	0.00	0.17	0.37	0.00	0.02	0.64	0.84	0.00	
1869	0.00	0.17	0.40	0.00	0.02	0.67	0.86	0.00	
1870	0.00	0.18	0.38	0.00	0.01	0.66	0.88	0.00	
1871	0.00	0.18	0.40	0.00	0.02	0.68	0.90	0.00	
1872	0.00	0.21	0.41	0.00	0.03	0.69	0.89	0.00	
1873	0.00	0.25	0.42	0.00	0.03	0.72	0.87	0.00	
1874	0.00	0.28	0.43	0.00	0.03	0.72	0.83	0.00	
1875	0.00	0.32	0.45	0.00	0.02	0.72	0.87	0.00	
1876	0.00	0.36	0.45	0.00	0.03	0.71	0.84	0.00	
1877	0.00	0.43	0.47	0.00	0.03	0.72	0.85	0.00	
1878	0.00	0.51	0.48	0.00	0.03	0.72	0.84	0.00	
1879	0.00	0.58	0.49	0.00	0.03	0.73	0.88	0.00	
1880	0.01	0.64	0.49	0.00	0.03	0.75	0.81	0.00	
1881	0.01	0.73	0.51	0.01	0.04	0.77	0.92	0.00	
1882	0.01	0.73	0.53	0.01	0.04	0.78	0.86	0.00	
1883	0.02	0.76	0.55	0.02	0.03	0.81	0.87	0.00	
1884	0.03	0.75	0.57	0.02	0.03	0.83	0.82	0.00	
1885	0.03	0.72	0.61	0.04	0.03	0.90	0.82	0.00	
1886	0.04	0.73	0.64	0.06	0.03	0.94	0.80	0.00	
1887	0.05	0.73	0.67	0.07	0.03	0.95	0.80	0.00	
1888	0.06	0.73	0.66	0.09	0.02	0.96	0.81	0.00	
1889	0.07	0.72	0.66	0.11	0.02	0.95	0.80	0.00	
1890	0.10	0.74	0.68	0.14	0.03	0.93	0.80	0.00	
1891	0.13	0.74	0.69	0.19	0.03	0.92	0.79	0.00	
1892	0.15	0.76	0.70	0.24	0.03	0.90	0.79	0.00	
1893	0.16	0.79	0.70	0.29	0.03	0.92	0.77	0.00	
1894	0.18	0.83	0.71	0.28	0.02	1.05	0.77	0.00	
1895	0.20	0.84	0.75	0.38	0.02	1.05	0.75	0.01	
1896	0.28	0.82	0.78	0.46	0.02	1.08	0.74	0.01	
1897	0.41	0.88	0.80	0.59	0.02	1.07	0.72	0.01	
1898	0.54	0.87	0.84	0.85	0.03	1.06	0.70	0.01	
1899	0.72	0.89	0.87	1.18	0.02	1.07	0.69	0.01	
1900	1.21	1.09	0.89	1.86	0.02	1.04	0.66	0.01	
1901	1.50	1.27	0.90	2.20	0.02	1.05	0.64	0.01	
1902	1.66	1.34	0.92	2.27	0.02	1.11	0.65	0.01	
1903	1.90	1.40	0.96	2.44	0.03	1.14	0.66	0.01	
1904	1.58	1.37	0.97	2.26	0.04	1.20	0.69	0.01	
1905	1.36	1.44	0.98	2.26	0.03	1.22	0.73	0.02	
1906	1.51	1.52	1.02	2.33	0.04	1.32	0.79	0.03	
1907	1.66	1.53	1.07	2.55	0.05	1.38	0.90	0.01	
1908	2.09	1.56	1.13	3.24	0.06	1.45	0.96	0.01	
1909	2.47	1.71	1.17	3.77	0.09	1.48	1.08	0.02	
1910	2.51	1.78	1.18	3.99	0.10	1.48	1.20	0.04	
1911	2.10	1.44	1.19	3.39	0.11	1.53	1.32	0.04	
1912	2.40	1.18	1.27	3.76	0.10	1.57	1.42	0.04	
1913	2.68	1.48	1.30	3.70	0.08	1.54	1.47	0.19	

## Appendix A (continued)

## D. Venetia (continued)

	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	*
	Other inorg.	Chemicals Other org.	Total	Coal and Refineries	petroleum Other	products Total	Rubber Total	Group total	
1861	0.04	0.03	2.05	0.00	0.01	0.01	0.00	2.06	
1862	0.04	0.02	2.09	0.00	0.01	0.01	0.00	2.10	
1863	0.04	0.03	2.06	0.00	0.01	0.01	0.00	2.07	
1864	0.04	0.05	2.14	0.00	0.01	0.01	0.00	2.15	
1865	0.04	0.04	2.13	0.00	0.01	0.01	0.00	2.14	
1866	0.05	0.03	2.10	0.00	0.01	0.01	0.00	2.11	
1867	0.05	0.03	2.12	0.00	0.01	0.01	0.00	2.13	
1868	0.05	0.03	2.13	0.00	0.01	0.01	0.00	2.14	
1869	0.06	0.03	2.20	0.00	0.01	0.01	0.00	2.21	
1870	0.06	0.04	2.21	0.00	0.01	0.01	0.00	2.22	
1871	0.06	0.04	2.28	0.00	0.01	0.01	0.00	2.28	
1872	0.07	0.06	2.36	0.00	0.01	0.01	0.00	2.36	
1873	0.07	0.05	2.41	0.00	0.01	0.01	0.00	2.42	
1874	0.07	0.06	2.43	0.00	0.01	0.01	0.01	2.45	
1875	0.08	0.04	2.50	0.00	0.01	0.01	0.01	2.51	
1876	0.08	0.05	2.51	0.00	0.00	0.00	0.00	2.52	
1877	0.09	0.05	2.63	0.00	0.00	0.00	0.01	2.64	
1878	0.09	0.05	2.73	0.00	0.00	0.00	0.00	2.73	
1879	0.10	0.06	2.86	0.00	0.00	0.00	0.01	2.87	
1880	0.10	0.04	2.88	0.00	0.02	0.02	0.01	2.91	
1881	0.15	0.07	3.20	0.00	0.05	0.05	0.01	3.26	
1882	0.19	0.07	3.22	0.00	0.08	0.08	0.01	3.31	
1883	0.24	0.08	3.37	0.00	0.11	0.11	0.01	3.50	
1884	0.28	0.08	3.41	0.00	0.15	0.15	0.02	3.58	
1885	0.32	0.08	3.55	0.00	0.19	0.19	0.02	3.77	
1886	0.34	0.07	3.65	0.00	0.24	0.24	0.02	3.91	
1887	0.36	0.09	3.75	0.01	0.29	0.29	0.02	4.06	
1888	0.22	0.08	3.63	0.01	0.30	0.30	0.02	3.95	
1889	0.17	0.10	3.61	0.01	0.29	0.29	0.03	3.93	
1890	0.20	0.11	3.73	0.01	0.31	0.32	0.03	4.08	
1891	0.31	0.10	3.91	0.01	0.44	0.44	0.01	4.37	
1892	0.25	0.11	3.93	0.00	0.37	0.38	0.02	4.32	
1893	0.29	0.14	4.09	0.00	0.45	0.45	0.02	4.56	
1894	0.31	0.15	4.30	0.00	0.28	0.28	0.03	4.60	
1895	0.25	0.15	4.41	0.00	0.28	0.28	0.02	4.72	
1896	0.28	0.16	4.63	0.00	0.24	0.24	0.02	4.89	
1897	0.29	0.18	4.97	0.00	0.30	0.30	0.02	5.28	
1898	0.41	0.17	5.47	0.00	0.30	0.30	0.01	5.78	
1899	0.50	0.21	6.16	0.00	0.30	0.30	0.01	6.47	
1900	0.67	0.21	7.67	0.00	0.30	0.30	0.01	7.97	
1901	0.65	0.23	8.47	0.00	0.37	0.37	0.00	8.84	
1902	0.56	0.31	8.84	0.00	0.37	0.37	0.00	9.21	
1903	0.69	0.31	9.53	0.00	0.44	0.44	0.00	9.98	
1904	0.70	0.44	9.26	0.00	0.44	0.44	0.01	9.71	
1905	0.82	0.40	9.26	0.00	0.44	0.44	0.01	9.71	
1906	0.90	0.46	9.93	0.00	0.45	0.45	0.01	10.39	
1907	1.08	0.53	10.75	0.00	0.45	0.45	0.01	11.22	
1908	0.86	0.62	11.97	0.00	0.45	0.45	0.02	12.44	
1909	0.55	0.46	12.79	0.00	0.46	0.46	0.03	13.28	
1910	1.22	0.62	14.12	0.00	0.45	0.45	0.04	14.61	
1911	1.22	0.73	13.07	0.00	0.00	0.00	0.06	13.13	
1912	1.22	0.75	13.70	0.00	0.28	0.28	0.08	14.06	
1913	0.24	0.67	13.36	0.00	0.28	0.28	0.06	13.70	

## Appendix A (continued)

## E. Emilia

	(1)	(2)	(3)	Chemicals		(6)	(7)	(8)
	Princ. acids	Matches	Fats and oils	Ferti- lizer	Explo- sives	Coloring materials	Pharma- ceuticals	Electr. and gases
1861	0.00	0.38	0.29	0.00	0.05	0.45	0.44	0.00
1862	0.00	0.38	0.30	0.00	0.03	0.48	0.44	0.00
1863	0.00	0.39	0.30	0.00	0.03	0.47	0.44	0.00
1864	0.00	0.40	0.30	0.00	0.05	0.48	0.44	0.00
1865	0.00	0.40	0.31	0.00	0.05	0.49	0.44	0.00
1866	0.00	0.41	0.31	0.00	0.06	0.46	0.45	0.00
1867	0.00	0.42	0.31	0.00	0.05	0.47	0.45	0.00
1868	0.00	0.42	0.33	0.00	0.04	0.46	0.45	0.00
1869	0.00	0.43	0.33	0.00	0.04	0.48	0.45	0.00
1870	0.00	0.44	0.33	0.00	0.03	0.48	0.46	0.00
1871	0.00	0.45	0.34	0.00	0.04	0.49	0.46	0.00
1872	0.00	0.44	0.36	0.00	0.07	0.50	0.47	0.00
1873	0.00	0.45	0.37	0.00	0.06	0.52	0.47	0.00
1874	0.00	0.45	0.39	0.00	0.07	0.53	0.48	0.00
1875	0.00	0.44	0.41	0.00	0.05	0.53	0.49	0.00
1876	0.00	0.43	0.42	0.01	0.07	0.53	0.49	0.00
1877	0.00	0.46	0.45	0.01	0.07	0.53	0.50	0.00
1878	0.00	0.48	0.45	0.01	0.08	0.54	0.51	0.00
1879	0.00	0.49	0.47	0.01	0.07	0.55	0.52	0.00
1880	0.00	0.48	0.48	0.02	0.07	0.56	0.52	0.00
1881	0.00	0.49	0.52	0.02	0.08	0.58	0.54	0.00
1882	0.00	0.47	0.52	0.03	0.08	0.59	0.53	0.00
1883	0.00	0.48	0.54	0.03	0.07	0.60	0.53	0.00
1884	0.00	0.46	0.56	0.04	0.07	0.61	0.52	0.00
1885	0.00	0.43	0.59	0.04	0.07	0.64	0.52	0.00
1886	0.00	0.42	0.63	0.05	0.07	0.66	0.52	0.00
1887	0.00	0.41	0.65	0.05	0.08	0.66	0.51	0.00
1888	0.00	0.40	0.65	0.05	0.06	0.65	0.52	0.00
1889	0.00	0.38	0.64	0.05	0.06	0.63	0.52	0.00
1890	0.00	0.38	0.66	0.05	0.07	0.60	0.52	0.00
1891	0.00	0.37	0.66	0.06	0.08	0.58	0.52	0.00
1892	0.00	0.36	0.67	0.06	0.08	0.56	0.52	0.00
1893	0.00	0.37	0.68	0.05	0.07	0.55	0.52	0.00
1894	0.01	0.37	0.69	0.07	0.06	0.57	0.52	0.00
1895	0.01	0.36	0.70	0.13	0.08	0.56	0.52	0.00
1896	0.05	0.34	0.72	0.18	0.06	0.56	0.52	0.00
1897	0.10	0.37	0.75	0.25	0.12	0.55	0.52	0.00
1898	0.13	0.38	0.78	0.31	0.11	0.55	0.52	0.00
1899	0.17	0.37	0.81	0.38	0.14	0.55	0.52	0.00
1900	0.24	0.38	0.83	0.44	0.11	0.53	0.51	0.00
1901	0.25	0.39	0.84	0.39	0.13	0.52	0.51	0.00
1902	0.22	0.39	0.86	0.46	0.13	0.53	0.56	0.00
1903	0.19	0.39	0.89	0.55	0.32	0.52	0.61	0.00
1904	0.29	0.41	0.94	0.57	0.41	0.53	0.67	0.00
1905	0.41	0.42	0.99	0.64	0.37	0.52	0.74	0.00
1906	0.62	0.40	1.05	0.90	0.49	0.56	0.86	0.00
1907	0.88	0.39	1.17	1.27	0.58	0.56	1.02	0.00
1908	1.32	0.38	1.26	1.71	0.41	0.58	1.11	0.00
1909	1.79	0.38	1.39	2.10	0.35	0.58	1.29	0.00
1910	1.85	0.42	1.45	2.29	0.48	0.58	1.47	0.00
1911	1.58	0.40	1.54	2.00	0.85	0.60	1.64	0.00
1912	1.58	0.34	1.64	2.38	0.83	0.62	1.79	0.00
1913	1.56	0.33	1.68	2.48	0.98	0.60	1.88	0.00

## Appendix A (continued)

## E. Emilia (continued)

	(9)	(10)	(11)	(12)		(14)	(15)	(16)	*
	Other inorg.	Chemicals Other org.	Total	Coal and Refineries	petroleum Other	products Total	Rubber Total	Group total	
1861	0.06	0.03	1.70	0.00	0.00	0.00	0.00	1.70	
1862	0.06	0.03	1.73	0.00	0.00	0.00	0.00	1.73	
1863	0.07	0.04	1.74	0.00	0.00	0.00	0.00	1.74	
1864	0.07	0.06	1.81	0.00	0.00	0.00	0.00	1.81	
1865	0.08	0.05	1.82	0.00	0.00	0.00	0.00	1.82	
1866	0.08	0.04	1.81	0.00	0.00	0.00	0.00	1.81	
1867	0.09	0.03	1.82	0.00	0.00	0.00	0.00	1.82	
1868	0.11	0.03	1.84	0.00	0.00	0.00	0.00	1.84	
1869	0.14	0.03	1.90	0.00	0.00	0.00	0.00	1.90	
1870	0.16	0.04	1.94	0.00	0.00	0.00	0.00	1.94	
1871	0.16	0.04	1.98	0.00	0.00	0.00	0.00	1.98	
1872	0.15	0.07	2.05	0.00	0.00	0.00	0.00	2.05	
1873	0.19	0.06	2.13	0.00	0.00	0.00	0.00	2.13	
1874	0.25	0.07	2.22	0.00	0.00	0.00	0.00	2.22	
1875	0.24	0.05	2.21	0.00	0.00	0.00	0.00	2.21	
1876	0.27	0.05	2.27	0.00	0.00	0.00	0.00	2.27	
1877	0.32	0.06	2.40	0.00	0.00	0.00	0.00	2.40	
1878	0.37	0.06	2.49	0.00	0.00	0.00	0.00	2.49	
1879	0.34	0.06	2.50	0.00	0.00	0.00	0.00	2.50	
1880	0.33	0.05	2.51	0.00	0.00	0.00	0.00	2.52	
1881	0.33	0.08	2.65	0.01	0.00	0.01	0.00	2.66	
1882	0.30	0.07	2.59	0.01	0.01	0.01	0.00	2.60	
1883	0.33	0.09	2.67	0.01	0.01	0.02	0.00	2.69	
1884	0.34	0.09	2.70	0.01	0.01	0.02	0.00	2.73	
1885	0.35	0.09	2.73	0.02	0.01	0.03	0.00	2.76	
1886	0.29	0.08	2.72	0.02	0.02	0.04	0.00	2.76	
1887	0.37	0.10	2.82	0.02	0.02	0.04	0.00	2.87	
1888	0.43	0.09	2.84	0.02	0.05	0.07	0.00	2.92	
1889	0.29	0.12	2.68	0.03	0.05	0.08	0.00	2.76	
1890	0.26	0.12	2.67	0.03	0.04	0.07	0.00	2.74	
1891	0.29	0.11	2.67	0.06	0.05	0.11	0.00	2.77	
1892	0.28	0.13	2.66	0.19	0.02	0.21	0.00	2.87	
1893	0.29	0.16	2.68	0.25	0.02	0.26	0.00	2.95	
1894	0.28	0.17	2.73	0.17	0.00	0.17	0.00	2.91	
1895	0.27	0.17	2.80	0.40	0.00	0.40	0.00	3.20	
1896	0.26	0.19	2.88	0.27	0.00	0.27	0.00	3.15	
1897	0.31	0.20	3.16	0.19	0.01	0.20	0.00	3.36	
1898	0.30	0.20	3.28	0.18	0.01	0.19	0.00	3.47	
1899	0.34	0.24	3.53	0.19	0.05	0.25	0.00	3.77	
1900	0.36	0.24	3.63	0.15	0.06	0.21	0.00	3.84	
1901	0.36	0.26	3.65	0.19	0.07	0.26	0.00	3.91	
1902	0.26	0.36	3.77	0.26	0.07	0.33	0.00	4.10	
1903	0.26	0.35	4.09	0.23	0.08	0.31	0.01	4.40	
1904	0.30	0.50	4.62	0.33	0.08	0.41	0.01	5.03	
1905	0.36	0.45	4.90	0.54	0.08	0.61	0.01	5.53	
1906	0.35	0.53	5.74	0.75	0.05	0.80	0.03	6.57	
1907	0.34	0.60	6.81	0.78	0.12	0.90	0.03	7.74	
1908	0.34	0.71	7.81	0.69	0.09	0.79	0.05	8.65	
1909	0.33	0.52	8.73	0.67	0.07	0.74	0.06	9.53	
1910	0.34	0.71	9.60	0.70	0.09	0.79	0.08	10.47	
1911	0.37	0.83	9.81	1.02	0.09	1.11	0.13	11.04	
1912	0.34	0.86	10.37	0.80	0.07	0.88	0.18	11.43	
1913	0.41	0.76	10.69	0.62	0.04	0.66	0.13	11.48	



## Appendix A (continued)

## F. Tuscany

	(1)	(2)	(3)	Chemicals		(6)	(7)	(8)
	Princ. acids	Matches	Fats and oils	Ferti- lizer	Explo- sives	Coloring materials	Pharma- ceuticals	Electr. and gases
1861	0.00	0.27	0.39	0.00	0.17	0.60	0.44	0.00
1862	0.00	0.28	0.41	0.00	0.11	0.63	0.45	0.00
1863	0.00	0.28	0.41	0.00	0.10	0.62	0.45	0.00
1864	0.00	0.29	0.42	0.00	0.17	0.64	0.46	0.00
1865	0.00	0.29	0.43	0.00	0.17	0.76	0.46	0.00
1866	0.00	0.30	0.42	0.00	0.19	0.72	0.47	0.00
1867	0.00	0.30	0.43	0.00	0.17	0.74	0.47	0.00
1868	0.00	0.30	0.44	0.00	0.12	0.73	0.48	0.00
1869	0.00	0.31	0.45	0.00	0.12	0.75	0.49	0.00
1870	0.00	0.32	0.44	0.00	0.11	0.75	0.50	0.00
1871	0.00	0.33	0.47	0.00	0.13	0.66	0.51	0.00
1872	0.00	0.33	0.48	0.00	0.24	0.66	0.51	0.00
1873	0.00	0.35	0.49	0.00	0.23	0.68	0.50	0.00
1874	0.00	0.36	0.51	0.00	0.26	0.67	0.48	0.00
1875	0.01	0.37	0.52	0.00	0.19	0.65	0.49	0.00
1876	0.03	0.38	0.54	0.01	0.25	0.64	0.48	0.00
1877	0.04	0.42	0.57	0.01	0.25	0.63	0.48	0.00
1878	0.06	0.46	0.58	0.01	0.25	0.63	0.47	0.00
1879	0.09	0.49	0.60	0.01	0.22	0.62	0.48	0.00
1880	0.09	0.51	0.62	0.01	0.28	0.62	0.46	0.00
1881	0.10	0.55	0.65	0.02	0.36	0.64	0.49	0.00
1882	0.11	0.53	0.69	0.02	0.35	0.65	0.48	0.00
1883	0.13	0.54	0.72	0.02	0.39	0.67	0.48	0.00
1884	0.15	0.52	0.75	0.03	0.35	0.69	0.47	0.00
1885	0.16	0.48	0.83	0.03	0.39	0.74	0.48	0.00
1886	0.17	0.47	0.89	0.04	0.46	0.77	0.48	0.00
1887	0.17	0.46	0.93	0.04	0.53	0.78	0.48	0.00
1888	0.18	0.44	0.94	0.04	0.35	0.79	0.50	0.00
1889	0.18	0.43	0.98	0.04	0.36	0.78	0.51	0.00
1890	0.22	0.42	1.02	0.04	0.46	0.77	0.52	0.00
1891	0.25	0.41	1.05	0.04	0.54	0.76	0.53	0.00
1892	0.24	0.40	1.08	0.04	0.77	0.74	0.54	0.00
1893	0.23	0.41	1.11	0.04	0.61	0.75	0.55	0.00
1894	0.27	0.41	1.15	0.06	0.47	0.82	0.57	0.01
1895	0.30	0.40	1.21	0.12	0.44	0.84	0.58	0.03
1896	0.28	0.37	1.26	0.13	0.46	0.85	0.60	0.03
1897	0.30	0.37	1.32	0.15	0.54	0.86	0.60	0.03
1898	0.30	0.39	1.39	0.20	0.69	0.86	0.62	0.02
1899	0.31	0.44	1.47	0.24	0.90	0.87	0.64	0.02
1900	0.43	0.53	1.53	0.37	0.90	0.85	0.62	0.02
1901	0.47	0.61	1.59	0.43	0.88	0.86	0.63	0.02
1902	0.54	0.61	1.65	0.54	0.74	0.89	0.74	0.05
1903	0.63	0.63	1.73	0.68	1.30	0.90	0.81	0.05
1904	0.64	0.69	1.90	0.66	1.29	0.93	0.89	0.05
1905	0.70	0.68	2.07	0.69	1.34	0.94	0.96	0.07
1906	0.86	0.65	2.31	0.69	1.36	1.01	1.09	0.07
1907	1.05	0.76	2.65	0.73	1.52	1.05	1.28	0.16
1908	1.27	0.82	3.00	1.09	1.99	1.10	1.35	0.16
1909	1.45	0.75	3.38	1.44	2.46	1.12	1.54	0.21
1910	1.54	0.83	3.71	1.61	2.35	1.12	1.70	0.14
1911	1.36	0.77	4.05	1.46	2.35	1.17	1.85	0.23
1912	1.32	0.59	4.32	1.57	2.55	1.20	2.02	0.47
1913	1.25	0.59	4.43	1.50	2.89	1.18	2.13	0.55

## Appendix A (continued)

## F. Tuscany (continued)

	(9)	(10)	(11)	(12)		(13)	(14)	(15)	(16)	*
	Other inorg.	Chemicals Other org.	Total	Coal	and petroleum Refineries	Other	products Total	Rubber Total	Group total	
1861	0.11	0.05	2.03	0.00	0.00	0.00	0.00	0.00	2.03	
1862	0.08	0.04	2.00	0.00	0.00	0.00	0.00	0.00	2.00	
1863	0.07	0.05	1.98	0.00	0.00	0.00	0.00	0.00	1.98	
1864	0.08	0.08	2.13	0.00	0.00	0.00	0.00	0.00	2.13	
1865	0.07	0.06	2.24	0.00	0.00	0.00	0.00	0.00	2.24	
1866	0.07	0.05	2.22	0.00	0.00	0.00	0.00	0.00	2.23	
1867	0.06	0.04	2.21	0.00	0.01	0.01	0.01	0.00	2.21	
1868	0.04	0.04	2.16	0.00	0.01	0.01	0.01	0.00	2.17	
1869	0.03	0.05	2.21	0.00	0.01	0.01	0.01	0.00	2.22	
1870	0.01	0.06	2.19	0.00	0.02	0.02	0.02	0.00	2.20	
1871	0.04	0.06	2.20	0.00	0.03	0.03	0.03	0.00	2.23	
1872	0.07	0.09	2.38	0.00	0.03	0.03	0.03	0.00	2.41	
1873	0.07	0.08	2.39	0.00	0.04	0.04	0.04	0.00	2.44	
1874	0.07	0.09	2.45	0.00	0.05	0.05	0.05	0.00	2.50	
1875	0.09	0.06	2.39	0.00	0.06	0.06	0.06	0.00	2.45	
1876	0.14	0.07	2.54	0.00	0.08	0.08	0.08	0.00	2.61	
1877	0.16	0.08	2.65	0.00	0.09	0.09	0.09	0.00	2.74	
1878	0.19	0.08	2.74	0.00	0.11	0.11	0.11	0.00	2.85	
1879	0.22	0.09	2.82	0.00	0.13	0.13	0.13	0.00	2.95	
1880	0.24	0.07	2.90	0.00	0.12	0.12	0.12	0.00	3.03	
1881	0.27	0.11	3.19	0.00	0.12	0.12	0.12	0.00	3.31	
1882	0.27	0.10	3.19	0.00	0.11	0.11	0.11	0.00	3.31	
1883	0.28	0.12	3.34	0.00	0.11	0.11	0.11	0.00	3.45	
1884	0.25	0.13	3.35	0.00	0.10	0.10	0.10	0.00	3.45	
1885	0.26	0.12	3.49	0.00	0.10	0.10	0.10	0.00	3.60	
1886	0.31	0.11	3.71	0.00	0.10	0.10	0.10	0.00	3.81	
1887	0.33	0.13	3.86	0.00	0.09	0.09	0.09	0.00	3.96	
1888	0.32	0.13	3.70	0.00	0.11	0.11	0.11	0.01	3.82	
1889	0.33	0.16	3.76	0.00	0.11	0.11	0.11	0.01	3.88	
1890	0.35	0.16	3.97	0.00	0.11	0.11	0.11	0.01	4.09	
1891	0.45	0.15	4.17	0.00	0.11	0.11	0.11	0.01	4.29	
1892	0.41	0.17	4.40	0.00	0.11	0.11	0.11	0.01	4.52	
1893	0.36	0.22	4.27	0.00	0.19	0.19	0.19	0.01	4.48	
1894	0.36	0.23	4.35	0.00	0.19	0.19	0.19	0.02	4.56	
1895	0.40	0.24	4.54	0.00	0.19	0.19	0.19	0.02	4.75	
1896	0.41	0.25	4.65	0.00	0.19	0.19	0.19	0.03	4.87	
1897	0.37	0.27	4.80	0.00	0.19	0.19	0.19	0.03	5.03	
1898	0.42	0.27	5.15	0.00	0.19	0.19	0.19	0.04	5.37	
1899	0.55	0.32	5.76	0.00	0.19	0.19	0.19	0.04	5.99	
1900	0.57	0.32	6.14	0.00	0.50	0.50	0.50	0.05	6.69	
1901	0.57	0.35	6.42	0.00	0.52	0.52	0.52	0.04	6.99	
1902	0.55	0.48	6.79	0.00	0.76	0.76	0.76	0.06	7.61	
1903	0.55	0.48	7.75	0.00	1.30	1.30	1.30	0.07	9.11	
1904	0.64	0.67	8.35	0.00	1.19	1.19	1.19	0.07	9.62	
1905	0.76	0.61	8.83	0.00	1.75	1.75	1.75	0.09	10.67	
1906	0.88	0.72	9.63	0.00	1.69	1.69	1.69	0.16	11.48	
1907	0.88	0.82	10.88	0.00	1.40	1.40	1.40	0.15	12.43	
1908	0.89	0.96	12.63	0.00	0.86	0.87	0.87	0.25	13.75	
1909	0.81	0.70	13.85	0.00	2.60	2.60	2.60	0.28	16.73	
1910	0.79	0.96	14.76	0.04	3.00	3.04	3.04	0.38	18.18	
1911	0.86	1.13	15.22	0.04	2.42	2.45	2.45	0.56	18.23	
1912	0.94	1.16	16.14	0.04	3.21	3.25	3.25	0.79	20.18	
1913	0.87	1.03	16.41	0.04	3.66	3.69	3.69	0.57	20.67	

## Appendix A (continued)

## G. Marches

	(1)	(2)	(3)	Chemicals		(6)	(7)	(8)	*
	Princ. acids	Matches	Fats and oils	Ferti- lizer	Explo- sives	Coloring materials	Pharma- ceuticals	Electr. and gases	
1861	0.00	0.06	0.05	0.00	0.06	0.13	0.18	0.00	
1862	0.00	0.07	0.05	0.00	0.04	0.14	0.19	0.00	
1863	0.00	0.07	0.05	0.00	0.04	0.14	0.19	0.00	
1864	0.00	0.07	0.05	0.00	0.07	0.15	0.19	0.00	
1865	0.00	0.07	0.06	0.00	0.07	0.15	0.19	0.00	
1866	0.00	0.07	0.06	0.00	0.07	0.15	0.20	0.00	
1867	0.00	0.07	0.06	0.00	0.06	0.15	0.20	0.00	
1868	0.00	0.07	0.06	0.00	0.05	0.15	0.21	0.00	
1869	0.00	0.07	0.07	0.00	0.05	0.16	0.21	0.00	
1870	0.00	0.08	0.06	0.00	0.04	0.16	0.21	0.00	
1871	0.00	0.08	0.07	0.00	0.05	0.17	0.22	0.00	
1872	0.00	0.08	0.07	0.00	0.09	0.17	0.22	0.00	
1873	0.00	0.08	0.07	0.00	0.08	0.18	0.22	0.00	
1874	0.00	0.08	0.07	0.00	0.09	0.18	0.21	0.00	
1875	0.00	0.08	0.07	0.00	0.06	0.17	0.21	0.00	
1876	0.00	0.08	0.07	0.00	0.08	0.17	0.21	0.00	
1877	0.00	0.09	0.07	0.00	0.08	0.17	0.21	0.00	
1878	0.00	0.10	0.07	0.00	0.08	0.17	0.21	0.00	
1879	0.00	0.10	0.07	0.00	0.07	0.17	0.21	0.00	
1880	0.00	0.11	0.08	0.00	0.08	0.18	0.21	0.00	
1881	0.00	0.11	0.08	0.00	0.11	0.18	0.21	0.00	
1882	0.00	0.12	0.08	0.00	0.11	0.18	0.21	0.00	
1883	0.00	0.12	0.08	0.00	0.12	0.19	0.21	0.00	
1884	0.00	0.12	0.09	0.00	0.11	0.19	0.20	0.00	
1885	0.00	0.12	0.09	0.00	0.12	0.20	0.20	0.00	
1886	0.00	0.12	0.10	0.00	0.14	0.20	0.20	0.00	
1887	0.00	0.12	0.10	0.00	0.16	0.21	0.20	0.00	
1888	0.00	0.13	0.10	0.00	0.10	0.21	0.20	0.00	
1889	0.00	0.13	0.10	0.00	0.09	0.20	0.19	0.00	
1890	0.00	0.13	0.11	0.00	0.10	0.19	0.19	0.00	
1891	0.00	0.14	0.11	0.00	0.11	0.19	0.19	0.00	
1892	0.00	0.14	0.11	0.00	0.14	0.18	0.19	0.00	
1893	0.00	0.15	0.11	0.00	0.10	0.18	0.19	0.00	
1894	0.00	0.16	0.11	0.00	0.09	0.19	0.19	0.00	
1895	0.00	0.16	0.12	0.00	0.10	0.19	0.18	0.00	
1896	0.00	0.16	0.12	0.00	0.07	0.19	0.18	0.00	
1897	0.00	0.18	0.13	0.00	0.09	0.19	0.18	0.00	
1898	0.00	0.19	0.13	0.00	0.07	0.19	0.18	0.00	
1899	0.00	0.20	0.14	0.00	0.05	0.19	0.17	0.00	
1900	0.00	0.20	0.14	0.00	0.04	0.19	0.17	0.00	
1901	0.00	0.21	0.14	0.00	0.04	0.19	0.17	0.00	
1902	0.00	0.22	0.15	0.00	0.04	0.19	0.17	0.00	
1903	0.00	0.23	0.16	0.00	0.07	0.18	0.17	0.00	
1904	0.00	0.21	0.19	0.00	0.07	0.18	0.17	0.00	
1905	0.00	0.22	0.21	0.00	0.06	0.17	0.17	0.00	
1906	0.00	0.24	0.23	0.16	0.06	0.17	0.19	0.00	
1907	0.00	0.26	0.27	0.37	0.06	0.17	0.20	0.00	
1908	0.11	0.29	0.30	0.37	0.20	0.16	0.21	0.00	
1909	0.24	0.31	0.34	0.31	0.40	0.15	0.23	0.00	
1910	0.31	0.34	0.37	0.39	0.26	0.14	0.26	0.00	
1911	0.33	0.36	0.41	0.39	0.11	0.14	0.28	1.00	
1912	0.36	0.38	0.43	0.49	0.09	0.14	0.29	0.63	
1913	0.38	0.37	0.44	0.52	0.09	0.14	0.30	0.63	

## Appendix A (continued)

## G. Marches (continued)

	(9)	(10)	(11)	(12)		(13)	(14)	(15)	(16)	*
	Other inorg.	Chemicals Other org.	Total	Coal and Refineries	petroleum Other	products Total	Rubber Total	Group total		
1861	0.05	0.00	0.54	0.00	0.00	0.00	0.00	0.54		
1862	0.05	0.00	0.53	0.00	0.00	0.00	0.00	0.54		
1863	0.06	0.00	0.54	0.00	0.00	0.00	0.00	0.55		
1864	0.06	0.00	0.59	0.00	0.00	0.00	0.00	0.59		
1865	0.07	0.00	0.61	0.00	0.00	0.00	0.00	0.61		
1866	0.06	0.00	0.61	0.00	0.08	0.08	0.00	0.69		
1867	0.07	0.00	0.62	0.00	0.08	0.08	0.00	0.70		
1868	0.08	0.00	0.62	0.00	0.08	0.09	0.00	0.71		
1869	0.10	0.00	0.66	0.00	0.09	0.09	0.00	0.75		
1870	0.11	0.00	0.66	0.00	0.09	0.09	0.00	0.75		
1871	0.10	0.00	0.69	0.00	0.09	0.10	0.00	0.78		
1872	0.08	0.00	0.71	0.00	0.10	0.10	0.00	0.81		
1873	0.10	0.00	0.73	0.00	0.10	0.10	0.00	0.83		
1874	0.13	0.00	0.77	0.00	0.11	0.11	0.00	0.87		
1875	0.12	0.00	0.72	0.00	0.11	0.11	0.00	0.84		
1876	0.12	0.00	0.75	0.00	0.11	0.11	0.00	0.86		
1877	0.13	0.00	0.77	0.00	0.12	0.12	0.00	0.88		
1878	0.14	0.00	0.78	0.00	0.12	0.12	0.00	0.90		
1879	0.14	0.00	0.77	0.00	0.26	0.26	0.00	1.02		
1880	0.14	0.00	0.79	0.00	0.25	0.25	0.00	1.04		
1881	0.15	0.00	0.86	0.00	0.24	0.24	0.00	1.10		
1882	0.14	0.00	0.84	0.00	0.23	0.23	0.00	1.07		
1883	0.16	0.00	0.88	0.00	0.23	0.23	0.00	1.11		
1884	0.16	0.00	0.88	0.00	0.22	0.22	0.00	1.10		
1885	0.15	0.00	0.88	0.00	0.21	0.21	0.00	1.10		
1886	0.14	0.00	0.91	0.00	0.21	0.21	0.00	1.12		
1887	0.12	0.00	0.91	0.00	0.20	0.20	0.00	1.12		
1888	0.15	0.00	0.88	0.00	0.19	0.19	0.00	1.08		
1889	0.16	0.00	0.87	0.00	0.25	0.25	0.00	1.11		
1890	0.19	0.00	0.92	0.00	0.33	0.33	0.00	1.26		
1891	0.20	0.00	0.94	0.00	0.37	0.37	0.00	1.30		
1892	0.18	0.00	0.94	0.00	0.27	0.27	0.00	1.21		
1893	0.16	0.00	0.90	0.00	0.29	0.29	0.00	1.19		
1894	0.17	0.00	0.90	0.00	0.36	0.36	0.00	1.26		
1895	0.18	0.00	0.94	0.00	0.41	0.41	0.00	1.35		
1896	0.20	0.00	0.93	0.00	0.28	0.28	0.00	1.21		
1897	0.24	0.01	1.01	0.00	0.24	0.24	0.00	1.26		
1898	0.21	0.01	0.97	0.00	0.26	0.26	0.00	1.23		
1899	0.25	0.01	1.01	0.00	0.31	0.31	0.00	1.32		
1900	0.30	0.01	1.04	0.00	0.37	0.37	0.00	1.41		
1901	0.28	0.01	1.03	0.00	0.37	0.37	0.00	1.40		
1902	0.25	0.01	1.02	0.00	0.37	0.37	0.00	1.39		
1903	0.34	0.01	1.15	0.00	0.33	0.33	0.00	1.49		
1904	0.30	0.01	1.14	0.00	0.35	0.35	0.00	1.49		
1905	0.29	0.01	1.13	0.00	0.30	0.30	0.00	1.43		
1906	0.26	0.01	1.32	0.00	0.30	0.30	0.00	1.61		
1907	0.26	0.02	1.60	0.00	0.30	0.30	0.00	1.90		
1908	0.24	0.02	1.90	0.00	0.30	0.30	0.00	2.20		
1909	0.22	0.01	2.23	0.00	0.30	0.30	0.00	2.53		
1910	0.23	0.02	2.33	0.00	0.30	0.30	0.00	2.63		
1911	0.24	0.02	3.29	0.00	0.30	0.30	0.00	3.58		
1912	0.28	0.02	3.10	0.00	0.30	0.30	0.00	3.40		
1913	0.25	0.02	3.13	0.00	0.30	0.30	0.00	3.43		

## Appendix A (continued)

## H. Umbria

	(1)	(2)	(3)	(4) Chemicals		(5)	(6)	(7)	(8)
	Princ. acids	Matches	Fats and oils	Ferti- lizer	Explo- sives	Coloring materials	Pharma- ceuticals	Electr. and gases	
1861	0.00	0.01	0.04	0.00	0.01	0.09	0.12	0.00	
1862	0.00	0.01	0.04	0.00	0.01	0.10	0.12	0.00	
1863	0.00	0.01	0.04	0.00	0.01	0.09	0.12	0.00	
1864	0.00	0.01	0.04	0.00	0.01	0.10	0.13	0.00	
1865	0.00	0.01	0.04	0.00	0.01	0.10	0.13	0.00	
1866	0.00	0.01	0.04	0.00	0.02	0.10	0.13	0.00	
1867	0.00	0.01	0.04	0.00	0.01	0.10	0.13	0.00	
1868	0.00	0.01	0.04	0.00	0.01	0.10	0.13	0.00	
1869	0.00	0.01	0.04	0.00	0.01	0.11	0.13	0.00	
1870	0.00	0.01	0.04	0.00	0.01	0.11	0.13	0.00	
1871	0.00	0.01	0.05	0.00	0.01	0.11	0.13	0.00	
1872	0.00	0.01	0.04	0.00	0.02	0.12	0.13	0.00	
1873	0.00	0.01	0.04	0.00	0.02	0.12	0.13	0.00	
1874	0.00	0.01	0.04	0.00	0.02	0.12	0.13	0.00	
1875	0.00	0.01	0.04	0.00	0.01	0.12	0.13	0.00	
1876	0.00	0.01	0.04	0.00	0.02	0.12	0.13	0.00	
1877	0.00	0.01	0.04	0.00	0.02	0.12	0.13	0.00	
1878	0.00	0.02	0.05	0.00	0.01	0.12	0.13	0.00	
1879	0.00	0.02	0.05	0.00	0.01	0.12	0.13	0.00	
1880	0.00	0.02	0.05	0.00	0.01	0.12	0.13	0.00	
1881	0.00	0.02	0.05	0.00	0.02	0.12	0.13	0.00	
1882	0.00	0.02	0.05	0.00	0.02	0.12	0.13	0.00	
1883	0.00	0.02	0.05	0.00	0.02	0.12	0.13	0.00	
1884	0.00	0.02	0.06	0.00	0.02	0.12	0.13	0.00	
1885	0.00	0.02	0.06	0.00	0.02	0.13	0.13	0.00	
1886	0.00	0.02	0.06	0.00	0.02	0.13	0.12	0.00	
1887	0.00	0.02	0.06	0.00	0.03	0.13	0.12	0.00	
1888	0.00	0.02	0.06	0.00	0.02	0.13	0.12	0.00	
1889	0.00	0.02	0.06	0.00	0.02	0.12	0.12	0.00	
1890	0.00	0.02	0.06	0.00	0.03	0.12	0.12	0.00	
1891	0.00	0.02	0.06	0.00	0.02	0.11	0.12	0.00	
1892	0.00	0.02	0.06	0.00	0.02	0.11	0.12	0.00	
1893	0.00	0.02	0.07	0.00	0.01	0.11	0.12	0.00	
1894	0.00	0.02	0.07	0.00	0.01	0.11	0.12	0.00	
1895	0.00	0.02	0.07	0.00	0.01	0.11	0.12	0.00	
1896	0.00	0.02	0.08	0.00	0.01	0.11	0.11	0.00	
1897	0.00	0.02	0.08	0.00	0.02	0.10	0.11	0.06	
1898	0.00	0.02	0.09	0.00	0.02	0.11	0.11	0.08	
1899	0.00	0.02	0.09	0.00	0.02	0.11	0.11	0.13	
1900	0.00	0.02	0.09	0.00	0.02	0.10	0.11	0.31	
1901	0.00	0.02	0.10	0.00	0.01	0.10	0.11	1.15	
1902	0.00	0.02	0.10	0.00	0.01	0.10	0.10	1.92	
1903	0.00	0.14	0.11	0.00	0.01	0.10	0.10	2.08	
1904	0.00	0.31	0.24	0.00	0.02	0.10	0.10	3.18	
1905	0.00	0.37	0.39	0.00	0.03	0.10	0.10	3.44	
1906	0.00	0.38	0.58	0.00	0.03	0.10	0.11	3.55	
1907	0.00	0.40	0.81	0.00	0.04	0.10	0.11	3.81	
1908	0.10	0.45	1.07	0.16	0.04	0.10	0.12	3.81	
1909	0.22	0.53	1.37	0.37	0.06	0.09	0.13	4.90	
1910	0.28	0.59	1.68	0.42	0.06	0.09	0.14	4.67	
1911	0.28	0.62	1.99	0.38	0.07	0.09	0.15	3.51	
1912	0.31	0.67	2.13	0.46	0.05	0.09	0.16	5.17	
1913	0.32	0.69	2.18	0.48	0.04	0.09	0.17	6.75	

## Appendix A (continued)

## H. Umbria (continued)

	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	*
	Other inorg.	Chemicals Other org.	Total	Coal and Refineries	petroleum Other	products Total	Rubber Total	Group total	
1861	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.27	
1862	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.27	
1863	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.27	
1864	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.29	
1865	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.29	
1866	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.29	
1867	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.29	
1868	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.29	
1869	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.30	
1870	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.30	
1871	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.32	
1872	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.32	
1873	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.32	
1874	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.32	
1875	0.00	0.00	0.31	0.00	0.00	0.00	0.00	0.31	
1876	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.32	
1877	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.32	
1878	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.33	
1879	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.33	
1880	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.33	
1881	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.35	
1882	0.00	0.00	0.34	0.00	0.00	0.00	0.00	0.34	
1883	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.35	
1884	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.35	
1885	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.35	
1886	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.36	
1887	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.36	
1888	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.35	
1889	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.35	
1890	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.35	
1891	0.00	0.00	0.34	0.00	0.00	0.00	0.00	0.34	
1892	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.33	
1893	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.33	
1894	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.32	
1895	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.32	
1896	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.33	
1897	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.40	
1898	0.00	0.00	0.42	0.00	0.00	0.00	0.00	0.42	
1899	0.00	0.00	0.47	0.00	0.00	0.00	0.00	0.47	
1900	0.00	0.00	0.65	0.00	0.00	0.00	0.00	0.65	
1901	0.00	0.00	1.50	0.00	0.00	0.00	0.00	1.50	
1902	0.00	0.00	2.26	0.00	0.00	0.00	0.00	2.26	
1903	0.00	0.00	2.54	0.00	0.00	0.00	0.00	2.54	
1904	0.00	0.00	3.95	0.00	0.00	0.00	0.00	3.95	
1905	0.00	0.00	4.42	0.00	0.00	0.00	0.00	4.42	
1906	0.00	0.00	4.75	0.00	0.00	0.00	0.00	4.76	
1907	0.00	0.00	5.27	0.00	0.00	0.00	0.00	5.28	
1908	0.00	0.00	5.85	0.00	0.00	0.00	0.01	5.85	
1909	0.00	0.00	7.67	0.00	0.00	0.00	0.01	7.68	
1910	0.00	0.00	7.94	0.00	0.00	0.00	0.01	7.95	
1911	0.00	0.01	7.10	0.00	0.00	0.00	0.02	7.12	
1912	0.00	0.01	9.05	0.00	0.00	0.00	0.03	9.08	
1913	0.00	0.00	10.74	0.00	0.00	0.00	0.02	10.76	

## Appendix A (continued)

## I. Latium

	(1)	(2)	(3)	Chemicals		(6)	(7)	(8)	*
	Princ. acids	Matches	Fats and oils	Ferti- lizer	Explo- sives	Coloring materials	Pharma- ceuticals	Electr. and gases	
1861	0.01	0.05	0.21	0.00	0.05	0.16	0.26	0.00	
1862	0.01	0.05	0.22	0.00	0.03	0.17	0.26	0.00	
1863	0.01	0.05	0.22	0.00	0.03	0.16	0.25	0.00	
1864	0.01	0.05	0.22	0.00	0.06	0.17	0.25	0.00	
1865	0.01	0.05	0.23	0.00	0.06	0.17	0.25	0.00	
1866	0.01	0.05	0.23	0.00	0.06	0.16	0.25	0.00	
1867	0.01	0.05	0.23	0.00	0.05	0.16	0.26	0.00	
1868	0.01	0.05	0.24	0.00	0.04	0.16	0.26	0.00	
1869	0.01	0.05	0.24	0.00	0.04	0.17	0.26	0.00	
1870	0.01	0.05	0.24	0.00	0.03	0.17	0.27	0.00	
1871	0.01	0.06	0.25	0.00	0.04	0.28	0.27	0.00	
1872	0.01	0.05	0.25	0.00	0.07	0.29	0.27	0.00	
1873	0.02	0.06	0.26	0.00	0.06	0.31	0.28	0.00	
1874	0.02	0.06	0.27	0.00	0.06	0.31	0.27	0.00	
1875	0.02	0.06	0.27	0.00	0.04	0.31	0.29	0.00	
1876	0.02	0.05	0.28	0.00	0.05	0.31	0.29	0.00	
1877	0.02	0.06	0.29	0.00	0.04	0.32	0.29	0.00	
1878	0.02	0.06	0.30	0.00	0.04	0.32	0.30	0.00	
1879	0.03	0.06	0.31	0.00	0.03	0.33	0.31	0.00	
1880	0.03	0.06	0.31	0.00	0.03	0.34	0.31	0.00	
1881	0.03	0.06	0.32	0.00	0.04	0.35	0.33	0.00	
1882	0.03	0.06	0.34	0.00	0.04	0.36	0.32	0.00	
1883	0.04	0.06	0.36	0.00	0.04	0.37	0.33	0.00	
1884	0.04	0.06	0.38	0.00	0.03	0.38	0.32	0.00	
1885	0.04	0.05	0.41	0.00	0.03	0.41	0.32	0.00	
1886	0.05	0.05	0.44	0.00	0.04	0.43	0.32	0.00	
1887	0.04	0.05	0.46	0.00	0.04	0.43	0.32	0.00	
1888	0.04	0.05	0.48	0.00	0.03	0.43	0.32	0.00	
1889	0.03	0.05	0.47	0.00	0.03	0.42	0.33	0.00	
1890	0.04	0.05	0.50	0.00	0.03	0.40	0.33	0.00	
1891	0.03	0.04	0.51	0.00	0.03	0.39	0.33	0.00	
1892	0.02	0.04	0.52	0.00	0.05	0.38	0.34	0.00	
1893	0.01	0.04	0.53	0.00	0.04	0.38	0.34	0.00	
1894	0.02	0.04	0.54	0.02	0.02	0.39	0.34	0.00	
1895	0.02	0.04	0.57	0.07	0.02	0.38	0.35	0.00	
1896	0.02	0.04	0.60	0.05	0.01	0.38	0.35	0.00	
1897	0.03	0.05	0.63	0.04	0.02	0.37	0.35	0.02	
1898	0.04	0.05	0.66	0.04	0.02	0.37	0.36	0.04	
1899	0.05	0.04	0.69	0.04	0.04	0.37	0.37	0.04	
1900	0.13	0.04	0.72	0.10	0.03	0.36	0.35	0.04	
1901	0.20	0.05	0.73	0.14	0.03	0.36	0.36	0.13	
1902	0.20	0.04	0.77	0.15	0.02	0.36	0.39	0.13	
1903	0.20	0.04	0.81	0.17	0.04	0.35	0.40	0.13	
1904	0.18	0.03	0.89	0.19	0.08	0.35	0.41	0.13	
1905	0.18	0.04	0.97	0.23	0.10	0.34	0.42	0.14	
1906	0.17	0.04	1.07	0.22	0.10	0.36	0.45	0.14	
1907	0.15	0.05	1.22	0.22	0.09	0.35	0.48	0.15	
1908	0.22	0.06	1.38	0.25	0.08	0.35	0.48	0.13	
1909	0.30	0.05	1.55	0.26	0.09	0.34	0.51	0.09	
1910	0.28	0.04	1.69	0.25	0.08	0.33	0.53	0.03	
1911	0.22	0.02	1.84	0.19	0.10	0.33	0.55	0.03	
1912	0.18	0.02	1.97	0.19	0.10	0.34	0.58	0.03	
1913	0.13	0.02	2.01	0.16	0.11	0.33	0.60	0.03	

## Appendix A (continued)

## I. Latium (continued)

	(9)	(10)	(11)	(12)		(13)	(14)	(15)	(16)	*
	Other inorg.	Chemicals Other org.	Total	Coal	and petroleum Refineries	Other	products Total	Rubber Total	Group total	
1861	0.02	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.75	
1862	0.02	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.75	
1863	0.02	0.00	0.74	0.00	0.00	0.00	0.00	0.00	0.74	
1864	0.02	0.00	0.78	0.00	0.00	0.00	0.00	0.00	0.78	
1865	0.02	0.00	0.78	0.00	0.00	0.00	0.00	0.00	0.79	
1866	0.02	0.00	0.79	0.00	0.00	0.00	0.00	0.00	0.79	
1867	0.02	0.00	0.79	0.00	0.00	0.00	0.00	0.00	0.79	
1868	0.02	0.00	0.78	0.00	0.01	0.01	0.01	0.00	0.79	
1869	0.02	0.00	0.79	0.00	0.01	0.01	0.01	0.00	0.80	
1870	0.02	0.00	0.79	0.00	0.01	0.01	0.01	0.00	0.80	
1871	0.02	0.00	0.93	0.00	0.01	0.01	0.01	0.00	0.94	
1872	0.02	0.00	0.98	0.00	0.01	0.01	0.01	0.00	0.99	
1873	0.02	0.00	0.99	0.00	0.01	0.01	0.01	0.00	1.01	
1874	0.01	0.00	1.01	0.00	0.01	0.01	0.01	0.00	1.02	
1875	0.01	0.00	1.00	0.00	0.01	0.01	0.01	0.00	1.01	
1876	0.00	0.00	1.01	0.00	0.01	0.01	0.01	0.00	1.02	
1877	0.07	0.00	1.10	0.00	0.01	0.01	0.01	0.00	1.11	
1878	0.10	0.00	1.15	0.00	0.01	0.01	0.01	0.00	1.16	
1879	0.07	0.00	1.15	0.00	0.02	0.02	0.02	0.00	1.16	
1880	0.10	0.00	1.19	0.00	0.02	0.02	0.02	0.00	1.21	
1881	0.12	0.00	1.26	0.00	0.02	0.02	0.02	0.00	1.29	
1882	0.10	0.00	1.26	0.00	0.02	0.02	0.02	0.00	1.28	
1883	0.07	0.00	1.27	0.00	0.02	0.02	0.02	0.00	1.29	
1884	0.08	0.00	1.29	0.00	0.02	0.02	0.02	0.00	1.32	
1885	0.06	0.00	1.34	0.00	0.02	0.02	0.02	0.00	1.36	
1886	0.05	0.00	1.37	0.00	0.03	0.03	0.03	0.00	1.40	
1887	0.06	0.00	1.40	0.00	0.02	0.02	0.02	0.00	1.42	
1888	0.04	0.00	1.39	0.00	0.02	0.02	0.02	0.00	1.42	
1889	0.04	0.01	1.36	0.00	0.03	0.03	0.03	0.00	1.39	
1890	0.03	0.01	1.38	0.00	0.03	0.03	0.03	0.00	1.42	
1891	0.01	0.00	1.36	0.00	0.08	0.08	0.08	0.00	1.44	
1892	0.03	0.01	1.38	0.00	0.08	0.08	0.08	0.00	1.46	
1893	0.03	0.01	1.37	0.00	0.08	0.08	0.08	0.00	1.45	
1894	0.03	0.01	1.41	0.00	0.04	0.04	0.04	0.00	1.45	
1895	0.04	0.01	1.50	0.00	0.03	0.03	0.03	0.00	1.54	
1896	0.05	0.01	1.52	0.00	0.11	0.11	0.11	0.00	1.62	
1897	0.06	0.01	1.58	0.00	0.15	0.15	0.15	0.00	1.73	
1898	0.07	0.01	1.65	0.00	0.14	0.14	0.14	0.00	1.79	
1899	0.07	0.01	1.72	0.00	0.11	0.11	0.11	0.00	1.82	
1900	0.20	0.01	1.99	0.00	0.15	0.15	0.15	0.00	2.14	
1901	0.22	0.01	2.24	0.00	0.15	0.15	0.15	0.00	2.39	
1902	0.33	0.02	2.40	0.00	0.25	0.25	0.25	0.00	2.66	
1903	0.32	0.02	2.48	0.00	0.18	0.18	0.18	0.00	2.66	
1904	0.11	0.02	2.40	0.03	0.22	0.24	0.24	0.01	2.65	
1905	0.13	0.02	2.56	0.03	0.16	0.19	0.19	0.01	2.76	
1906	0.13	0.02	2.69	0.03	0.22	0.25	0.25	0.02	2.96	
1907	0.13	0.03	2.87	0.00	0.19	0.19	0.19	0.02	3.08	
1908	0.12	0.03	3.09	0.02	0.24	0.27	0.27	0.03	3.39	
1909	0.11	0.02	3.33	0.01	0.35	0.36	0.36	0.04	3.73	
1910	0.11	0.03	3.38	0.00	0.38	0.38	0.38	0.06	3.82	
1911	0.13	0.04	3.45	0.00	0.36	0.36	0.36	0.09	3.90	
1912	0.08	0.04	3.52	0.00	0.38	0.38	0.38	0.12	4.02	
1913	0.10	0.03	3.51	0.00	0.39	0.39	0.39	0.09	3.99	



## Appendix A (continued)

## J. Abruzzi

	(1)	(2)	(3)	(4) Chemicals		(5)	(6)	(7)	(8)
	Princ. acids	Matches	Fats and oils	Ferti- lizer	Explo- sives	Coloring materials	Pharma- ceuticals	Electr. and gases	
1861	0.00	0.06	0.03	0.00	0.05	0.14	0.35	0.00	
1862	0.00	0.06	0.03	0.00	0.03	0.15	0.35	0.00	
1863	0.00	0.06	0.03	0.00	0.03	0.15	0.35	0.00	
1864	0.00	0.06	0.03	0.00	0.05	0.15	0.35	0.00	
1865	0.00	0.06	0.03	0.00	0.05	0.15	0.35	0.00	
1866	0.00	0.06	0.03	0.00	0.06	0.15	0.35	0.00	
1867	0.00	0.06	0.03	0.00	0.05	0.15	0.35	0.00	
1868	0.00	0.06	0.03	0.00	0.04	0.15	0.36	0.00	
1869	0.00	0.06	0.03	0.00	0.04	0.15	0.36	0.00	
1870	0.00	0.07	0.03	0.00	0.03	0.15	0.36	0.00	
1871	0.00	0.07	0.03	0.00	0.04	0.15	0.37	0.00	
1872	0.00	0.06	0.03	0.00	0.06	0.16	0.37	0.00	
1873	0.00	0.06	0.03	0.00	0.05	0.16	0.36	0.00	
1874	0.00	0.06	0.03	0.00	0.06	0.16	0.36	0.00	
1875	0.00	0.05	0.03	0.00	0.04	0.16	0.36	0.00	
1876	0.00	0.05	0.03	0.00	0.05	0.16	0.36	0.00	
1877	0.00	0.04	0.03	0.00	0.04	0.16	0.36	0.00	
1878	0.00	0.04	0.03	0.00	0.04	0.16	0.36	0.00	
1879	0.00	0.03	0.03	0.00	0.03	0.16	0.37	0.00	
1880	0.00	0.03	0.03	0.00	0.04	0.16	0.36	0.00	
1881	0.00	0.02	0.03	0.00	0.04	0.17	0.37	0.00	
1882	0.00	0.02	0.03	0.00	0.04	0.17	0.36	0.00	
1883	0.00	0.02	0.03	0.00	0.04	0.17	0.36	0.00	
1884	0.00	0.01	0.03	0.00	0.03	0.18	0.35	0.00	
1885	0.00	0.01	0.04	0.00	0.03	0.19	0.35	0.00	
1886	0.00	0.01	0.04	0.00	0.02	0.19	0.34	0.00	
1887	0.00	0.01	0.04	0.00	0.02	0.20	0.34	0.00	
1888	0.00	0.01	0.04	0.00	0.02	0.20	0.34	0.00	
1889	0.00	0.01	0.04	0.00	0.02	0.19	0.34	0.00	
1890	0.00	0.01	0.04	0.00	0.02	0.19	0.34	0.00	
1891	0.00	0.01	0.03	0.00	0.02	0.19	0.34	0.00	
1892	0.00	0.01	0.03	0.00	0.02	0.18	0.34	0.00	
1893	0.00	0.01	0.03	0.00	0.01	0.19	0.33	0.00	
1894	0.00	0.00	0.03	0.00	0.01	0.20	0.33	0.00	
1895	0.00	0.00	0.03	0.00	0.02	0.21	0.33	0.00	
1896	0.00	0.00	0.03	0.00	0.02	0.21	0.34	0.00	
1897	0.00	0.00	0.03	0.00	0.04	0.21	0.33	0.00	
1898	0.00	0.00	0.03	0.00	0.04	0.22	0.33	0.00	
1899	0.00	0.00	0.03	0.00	0.06	0.22	0.34	0.00	
1900	0.00	0.00	0.04	0.00	0.04	0.22	0.32	0.00	
1901	0.00	0.00	0.04	0.00	0.04	0.22	0.32	0.00	
1902	0.09	0.00	0.04	0.03	0.03	0.22	0.34	0.00	
1903	0.20	0.00	0.05	0.06	0.06	0.21	0.35	1.00	
1904	0.18	0.00	0.06	0.08	0.08	0.20	0.35	0.95	
1905	0.18	0.00	0.08	0.10	0.06	0.18	0.35	0.96	
1906	0.24	0.00	0.11	0.10	0.07	0.18	0.37	0.84	
1907	0.32	0.00	0.13	0.12	0.08	0.17	0.39	1.31	
1908	0.31	0.01	0.16	0.16	0.08	0.15	0.38	2.01	
1909	0.26	0.00	0.20	0.20	0.09	0.13	0.40	2.04	
1910	0.30	0.00	0.23	0.26	0.10	0.11	0.41	1.81	
1911	0.28	0.00	0.26	0.25	0.14	0.09	0.42	1.48	
1912	0.35	0.00	0.28	0.28	0.15	0.09	0.44	1.41	
1913	0.42	0.00	0.28	0.28	0.20	0.08	0.45	1.38	

## Appendix A (continued)

## J. Abruzzi (continued)

	(9)	(10)	(11)	(12)		(14)	(15)	(16)	*
	Other inorg.	Chemicals Other org.	Total	Coal and Refineries	petroleum Other	products Total	Rubber Total	Group total	
1861	0.00	0.00	0.63	0.00	0.00	0.00	0.00	0.63	
1862	0.00	0.00	0.62	0.00	0.00	0.00	0.00	0.62	
1863	0.00	0.00	0.61	0.00	0.00	0.00	0.00	0.61	
1864	0.00	0.00	0.65	0.00	0.00	0.00	0.00	0.65	
1865	0.00	0.00	0.65	0.00	0.00	0.00	0.00	0.65	
1866	0.00	0.00	0.65	0.00	0.00	0.00	0.00	0.65	
1867	0.00	0.00	0.64	0.00	0.00	0.00	0.00	0.64	
1868	0.00	0.00	0.63	0.00	0.00	0.00	0.00	0.63	
1869	0.00	0.00	0.64	0.00	0.00	0.00	0.00	0.64	
1870	0.00	0.00	0.64	0.00	0.00	0.00	0.00	0.64	
1871	0.00	0.00	0.66	0.00	0.00	0.00	0.00	0.66	
1872	0.00	0.00	0.68	0.00	0.00	0.00	0.00	0.68	
1873	0.00	0.00	0.67	0.00	0.00	0.00	0.00	0.67	
1874	0.00	0.00	0.66	0.00	0.00	0.00	0.00	0.66	
1875	0.00	0.00	0.64	0.00	0.00	0.00	0.00	0.64	
1876	0.00	0.00	0.64	0.00	0.05	0.05	0.00	0.69	
1877	0.00	0.00	0.64	0.00	0.01	0.01	0.00	0.65	
1878	0.00	0.00	0.63	0.00	0.04	0.04	0.00	0.67	
1879	0.00	0.00	0.62	0.00	0.07	0.07	0.00	0.70	
1880	0.00	0.00	0.61	0.00	0.03	0.03	0.00	0.64	
1881	0.00	0.00	0.63	0.00	0.04	0.04	0.00	0.68	
1882	0.00	0.00	0.62	0.00	0.01	0.01	0.00	0.63	
1883	0.00	0.00	0.62	0.00	0.05	0.06	0.00	0.68	
1884	0.00	0.00	0.61	0.00	0.10	0.10	0.00	0.70	
1885	0.00	0.00	0.62	0.00	0.06	0.06	0.00	0.68	
1886	0.00	0.00	0.61	0.00	0.07	0.07	0.00	0.69	
1887	0.00	0.00	0.61	0.00	0.07	0.07	0.00	0.68	
1888	0.00	0.00	0.61	0.00	0.09	0.09	0.00	0.71	
1889	0.00	0.00	0.60	0.00	0.01	0.01	0.00	0.62	
1890	0.00	0.00	0.60	0.00	0.09	0.10	0.00	0.70	
1891	0.00	0.00	0.59	0.00	0.08	0.08	0.00	0.67	
1892	0.00	0.00	0.58	0.00	0.12	0.12	0.00	0.70	
1893	0.00	0.00	0.58	0.00	0.11	0.11	0.00	0.69	
1894	0.00	0.00	0.59	0.00	0.08	0.08	0.00	0.67	
1895	0.00	0.00	0.60	0.00	0.14	0.14	0.00	0.74	
1896	0.00	0.00	0.60	0.00	0.13	0.13	0.00	0.73	
1897	0.00	0.00	0.62	0.00	0.17	0.17	0.00	0.79	
1898	0.00	0.00	0.63	0.00	0.20	0.20	0.00	0.83	
1899	0.00	0.01	0.65	0.00	0.28	0.28	0.00	0.93	
1900	0.00	0.01	0.63	0.00	0.25	0.26	0.00	0.88	
1901	0.00	0.01	0.64	0.01	0.28	0.29	0.00	0.92	
1902	0.00	0.01	0.76	0.00	0.22	0.22	0.00	0.98	
1903	0.05	0.01	1.99	0.00	0.22	0.23	0.00	2.21	
1904	0.00	0.01	1.92	0.00	0.22	0.22	0.00	2.14	
1905	0.06	0.01	1.99	0.00	0.19	0.19	0.00	2.18	
1906	0.14	0.01	2.06	0.00	0.25	0.25	0.00	2.31	
1907	0.15	0.01	2.68	0.00	0.25	0.25	0.00	2.92	
1908	0.11	0.02	3.37	0.00	0.22	0.22	0.00	3.60	
1909	0.00	0.01	3.34	0.00	0.22	0.22	0.00	3.56	
1910	0.10	0.02	3.33	0.00	0.28	0.28	0.00	3.61	
1911	0.06	0.02	2.99	0.00	0.34	0.34	0.00	3.32	
1912	0.10	0.02	3.12	0.00	0.34	0.34	0.00	3.46	
1913	0.07	0.02	3.18	0.00	0.37	0.37	0.00	3.56	

## Appendix A (continued)

## K. Campania

	(1)	(2)	(3)	Chemicals		(6)	(7)	(8)	*
	Princ. acids	Matches	Fats and oils	Ferti- lizer	Explo- sives	Coloring materials	Pharma- ceuticals	Electr. and gases	
1861	0.02	0.12	0.66	0.00	0.14	0.74	1.41	0.00	
1862	0.03	0.13	0.67	0.00	0.09	0.79	1.42	0.00	
1863	0.03	0.13	0.69	0.00	0.08	0.77	1.31	0.00	
1864	0.03	0.13	0.71	0.00	0.14	0.79	1.36	0.00	
1865	0.03	0.13	0.71	0.00	0.14	0.79	1.29	0.00	
1866	0.03	0.13	0.69	0.00	0.16	0.76	1.35	0.00	
1867	0.04	0.14	0.69	0.00	0.14	0.77	1.38	0.00	
1868	0.04	0.14	0.72	0.00	0.10	0.76	1.41	0.00	
1869	0.04	0.14	0.76	0.00	0.10	0.78	1.46	0.00	
1870	0.04	0.14	0.74	0.00	0.09	0.78	1.54	0.00	
1871	0.04	0.15	0.78	0.00	0.11	0.80	1.61	0.00	
1872	0.04	0.15	0.79	0.00	0.20	0.81	1.58	0.00	
1873	0.05	0.16	0.81	0.00	0.19	0.83	1.53	0.00	
1874	0.05	0.17	0.83	0.00	0.22	0.82	1.42	0.00	
1875	0.05	0.18	0.88	0.00	0.15	0.80	1.57	0.00	
1876	0.05	0.19	0.89	0.01	0.21	0.78	1.47	0.00	
1877	0.05	0.21	0.93	0.01	0.21	0.77	1.54	0.00	
1878	0.05	0.24	0.94	0.02	0.21	0.77	1.53	0.00	
1879	0.05	0.26	0.96	0.02	0.18	0.76	1.71	0.00	
1880	0.05	0.27	0.98	0.03	0.23	0.76	1.47	0.00	
1881	0.05	0.30	1.02	0.03	0.32	0.77	1.89	0.00	
1882	0.06	0.29	1.04	0.04	0.30	0.78	1.71	0.00	
1883	0.06	0.29	1.07	0.04	0.32	0.80	1.77	0.00	
1884	0.07	0.28	1.10	0.05	0.29	0.81	1.61	0.00	
1885	0.08	0.27	1.16	0.05	0.31	0.86	1.62	0.00	
1886	0.08	0.26	1.21	0.06	0.35	0.88	1.59	0.00	
1887	0.08	0.25	1.25	0.06	0.39	0.88	1.61	0.00	
1888	0.08	0.25	1.21	0.05	0.39	0.87	1.68	0.00	
1889	0.08	0.24	1.20	0.05	0.25	0.84	1.69	0.00	
1890	0.10	0.24	1.21	0.04	0.22	0.81	1.76	0.00	
1891	0.11	0.23	1.22	0.04	0.18	0.78	1.76	0.00	
1892	0.10	0.23	1.22	0.03	0.17	0.74	1.78	0.00	
1893	0.10	0.23	1.22	0.01	0.08	0.74	1.75	0.00	
1894	0.09	0.23	1.22	0.01	0.16	0.76	1.78	0.00	
1895	0.08	0.23	1.25	0.01	0.31	0.75	1.79	0.00	
1896	0.20	0.22	1.26	0.01	0.33	0.74	1.80	0.00	
1897	0.38	0.19	1.28	0.01	0.69	0.72	1.75	0.00	
1898	0.47	0.18	1.32	0.02	0.76	0.72	1.74	0.00	
1899	0.60	0.19	1.36	0.03	1.14	0.72	1.76	0.00	
1900	0.62	0.28	1.36	0.03	0.89	0.69	1.62	0.00	
1901	0.46	0.30	1.37	0.03	0.89	0.68	1.61	0.00	
1902	0.36	0.24	1.37	0.02	0.57	0.69	1.76	0.00	
1903	0.24	0.27	1.41	0.02	0.91	0.68	1.78	0.00	
1904	0.27	0.29	1.47	0.03	1.08	0.69	1.80	0.00	
1905	0.31	0.29	1.55	0.05	0.91	0.68	1.79	0.00	
1906	0.50	0.32	1.66	0.15	1.01	0.72	1.83	0.00	
1907	0.75	0.38	1.83	0.30	1.00	0.72	1.91	0.00	
1908	0.68	0.44	1.99	0.33	0.96	0.74	1.83	0.00	
1909	0.51	0.50	2.17	0.34	1.26	0.74	1.84	0.03	
1910	0.63	0.56	2.30	0.38	1.30	0.74	1.81	0.07	
1911	0.64	0.53	2.44	0.33	1.84	0.76	1.75	0.05	
1912	0.71	0.49	2.59	0.34	2.01	0.78	1.85	0.04	
1913	0.77	0.46	2.65	0.31	2.55	0.76	1.91	0.04	

## Appendix A (continued)

## K. Campania (continued)

	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	*
	Other inorg.	Chemicals Other org.	Total	Coal and Refineries	petroleum Other	products Total	Rubber Total	Group total	
1861	0.05	0.03	3.17	0.00	0.05	0.05	0.00	3.23	
1862	0.05	0.02	3.20	0.00	0.05	0.05	0.00	3.25	
1863	0.05	0.03	3.10	0.00	0.05	0.05	0.00	3.15	
1864	0.05	0.05	3.27	0.00	0.05	0.05	0.00	3.32	
1865	0.05	0.04	3.20	0.00	0.05	0.05	0.00	3.25	
1866	0.05	0.03	3.22	0.00	0.05	0.05	0.00	3.27	
1867	0.05	0.03	3.22	0.00	0.05	0.05	0.00	3.28	
1868	0.05	0.03	3.25	0.01	0.05	0.06	0.00	3.31	
1869	0.05	0.03	3.36	0.01	0.05	0.06	0.00	3.42	
1870	0.05	0.04	3.42	0.01	0.05	0.07	0.00	3.48	
1871	0.05	0.04	3.57	0.02	0.06	0.07	0.00	3.65	
1872	0.05	0.06	3.69	0.02	0.06	0.08	0.00	3.77	
1873	0.05	0.05	3.67	0.03	0.00	0.03	0.00	3.70	
1874	0.05	0.06	3.62	0.03	0.00	0.03	0.00	3.65	
1875	0.05	0.04	3.72	0.03	0.00	0.04	0.00	3.76	
1876	0.05	0.05	3.70	0.04	0.00	0.04	0.00	3.74	
1877	0.05	0.05	3.83	0.04	0.06	0.10	0.00	3.93	
1878	0.06	0.05	3.86	0.04	0.00	0.05	0.00	3.91	
1879	0.06	0.06	4.05	0.04	0.02	0.07	0.00	4.12	
1880	0.05	0.04	3.89	0.04	0.02	0.06	0.00	3.95	
1881	0.05	0.07	4.50	0.03	0.05	0.08	0.00	4.59	
1882	0.05	0.07	4.33	0.03	0.07	0.10	0.00	4.43	
1883	0.05	0.08	4.48	0.03	0.09	0.12	0.00	4.60	
1884	0.05	0.08	4.35	0.02	0.12	0.14	0.00	4.48	
1885	0.05	0.08	4.47	0.02	0.14	0.16	0.00	4.63	
1886	0.15	0.07	4.65	0.02	0.17	0.19	0.00	4.84	
1887	0.05	0.09	4.67	0.01	0.22	0.23	0.00	4.90	
1888	0.06	0.08	4.67	0.01	0.22	0.23	0.00	4.90	
1889	0.07	0.10	4.52	0.01	0.19	0.20	0.00	4.72	
1890	0.08	0.11	4.56	0.01	0.21	0.21	0.00	4.77	
1891	0.12	0.10	4.54	0.01	0.21	0.22	0.00	4.76	
1892	0.11	0.11	4.49	0.01	0.22	0.23	0.00	4.72	
1893	0.13	0.14	4.40	0.01	0.23	0.24	0.00	4.64	
1894	0.15	0.15	4.56	0.01	0.24	0.25	0.00	4.81	
1895	0.16	0.15	4.73	0.01	0.12	0.13	0.00	4.86	
1896	0.18	0.17	4.91	0.01	0.12	0.14	0.00	5.05	
1897	0.09	0.18	5.30	0.02	0.25	0.26	0.01	5.57	
1898	0.09	0.18	5.49	0.02	0.23	0.24	0.01	5.73	
1899	0.12	0.21	6.14	0.02	0.23	0.24	0.01	6.38	
1900	0.12	0.21	5.82	0.02	0.23	0.24	0.01	6.07	
1901	0.12	0.23	5.69	0.02	0.24	0.26	0.01	5.96	
1902	0.10	0.31	5.41	0.02	0.40	0.42	0.01	5.84	
1903	0.05	0.31	5.67	0.07	0.48	0.55	0.01	6.23	
1904	0.04	0.44	6.09	0.08	0.60	0.68	0.01	6.78	
1905	0.05	0.40	6.04	0.03	0.58	0.61	0.01	6.66	
1906	0.11	0.46	6.77	0.04	0.61	0.65	0.02	7.44	
1907	0.26	0.53	7.69	0.05	0.51	0.56	0.01	8.27	
1908	0.28	0.62	7.88	0.03	0.32	0.35	0.02	8.24	
1909	0.12	0.46	7.97	0.05	0.57	0.62	0.02	8.62	
1910	0.22	0.62	8.63	0.11	1.82	1.93	0.03	10.59	
1911	0.17	0.73	9.24	0.08	1.77	1.85	0.05	11.13	
1912	0.26	0.75	9.83	0.10	1.84	1.94	0.06	11.83	
1913	0.21	0.67	10.32	0.10	2.26	2.36	0.05	12.72	

## Appendix A (continued)

## L. Apulia

	(1)	(2)	(3)	Chemicals		(6)	(7)	(8)	*
	Princ. acids	Matches	Fats and oils	Ferti- lizer	Explo- sives	Coloring materials	Pharma- ceuticals	Electr. and gases	
1861	0.00	0.01	0.73	0.00	0.18	0.18	0.50	0.00	
1862	0.00	0.01	0.75	0.00	0.11	0.19	0.50	0.00	
1863	0.00	0.01	0.75	0.00	0.10	0.19	0.49	0.00	
1864	0.00	0.01	0.77	0.00	0.19	0.20	0.49	0.00	
1865	0.00	0.01	0.79	0.00	0.19	0.20	0.49	0.00	
1866	0.00	0.01	0.79	0.00	0.21	0.19	0.49	0.00	
1867	0.00	0.01	0.81	0.00	0.18	0.19	0.50	0.00	
1868	0.00	0.01	0.83	0.00	0.13	0.19	0.50	0.00	
1869	0.00	0.02	0.86	0.00	0.13	0.19	0.51	0.00	
1870	0.00	0.02	0.86	0.00	0.11	0.19	0.52	0.00	
1871	0.00	0.02	0.89	0.00	0.14	0.20	0.53	0.00	
1872	0.00	0.02	0.91	0.00	0.23	0.20	0.54	0.00	
1873	0.00	0.02	0.93	0.00	0.18	0.22	0.54	0.00	
1874	0.00	0.03	0.97	0.00	0.19	0.22	0.53	0.00	
1875	0.00	0.03	1.00	0.00	0.11	0.22	0.56	0.00	
1876	0.00	0.03	1.04	0.00	0.13	0.23	0.56	0.00	
1877	0.00	0.04	1.08	0.00	0.11	0.23	0.57	0.00	
1878	0.00	0.05	1.11	0.00	0.09	0.24	0.58	0.00	
1879	0.00	0.06	1.13	0.00	0.07	0.24	0.61	0.00	
1880	0.00	0.06	1.15	0.00	0.07	0.25	0.59	0.00	
1881	0.00	0.07	1.18	0.00	0.07	0.26	0.65	0.00	
1882	0.00	0.09	1.24	0.00	0.06	0.26	0.63	0.00	
1883	0.00	0.11	1.28	0.00	0.05	0.27	0.63	0.00	
1884	0.00	0.13	1.34	0.00	0.04	0.28	0.61	0.00	
1885	0.00	0.14	1.43	0.01	0.03	0.29	0.60	0.00	
1886	0.00	0.16	1.50	0.01	0.03	0.30	0.60	0.00	
1887	0.00	0.18	1.57	0.01	0.02	0.30	0.59	0.00	
1888	0.00	0.19	1.59	0.01	0.02	0.29	0.60	0.00	
1889	0.00	0.21	1.63	0.00	0.03	0.28	0.60	0.00	
1890	0.00	0.23	1.68	0.00	0.03	0.27	0.60	0.00	
1891	0.00	0.25	1.69	0.00	0.03	0.27	0.59	0.00	
1892	0.00	0.28	1.70	0.00	0.04	0.25	0.59	0.00	
1893	0.00	0.31	1.72	0.00	0.03	0.25	0.59	0.00	
1894	0.01	0.34	1.76	0.00	0.02	0.25	0.58	0.00	
1895	0.03	0.37	1.84	0.00	0.03	0.25	0.58	0.00	
1896	0.04	0.38	1.89	0.00	0.03	0.25	0.58	0.00	
1897	0.07	0.37	1.96	0.00	0.05	0.25	0.57	0.00	
1898	0.05	0.34	2.05	0.00	0.05	0.25	0.56	0.00	
1899	0.04	0.35	2.15	0.00	0.05	0.25	0.56	0.00	
1900	0.06	0.36	2.20	0.00	0.04	0.24	0.54	0.00	
1901	0.06	0.38	2.24	0.00	0.04	0.24	0.53	0.00	
1902	0.07	0.39	2.30	0.03	0.03	0.24	0.53	0.00	
1903	0.08	0.39	2.38	0.06	0.06	0.23	0.52	0.00	
1904	0.12	0.41	2.44	0.07	0.09	0.22	0.50	0.00	
1905	0.18	0.45	2.48	0.08	0.08	0.21	0.49	0.00	
1906	0.24	0.43	2.58	0.11	0.09	0.22	0.49	0.00	
1907	0.30	0.39	2.76	0.16	0.10	0.21	0.49	0.00	
1908	0.31	0.41	2.92	0.26	0.10	0.20	0.48	0.00	
1909	0.29	0.43	3.07	0.38	0.11	0.19	0.48	0.00	
1910	0.50	0.43	3.13	0.58	0.12	0.18	0.48	0.00	
1911	0.62	0.39	3.18	0.66	0.18	0.18	0.48	0.00	
1912	0.65	0.37	3.39	0.63	0.21	0.18	0.49	0.00	
1913	0.67	0.36	3.48	0.51	0.29	0.18	0.49	0.00	

## Appendix A (continued)

## L. Apulia (continued)

	(9)	(10)	(11)	(12)		(14)	(15)	(16)	*
	Other inorg.	Chemicals Other org.	Total	Coal and Refineries	petroleum Other	products Total	Rubber Total	Group total	
1861	0.00	0.02	1.62	0.00	0.00	0.00	0.00	1.62	
1862	0.00	0.02	1.59	0.00	0.00	0.00	0.00	1.59	
1863	0.00	0.02	1.57	0.00	0.00	0.00	0.00	1.57	
1864	0.00	0.03	1.69	0.00	0.00	0.00	0.00	1.69	
1865	0.00	0.03	1.70	0.00	0.00	0.00	0.00	1.70	
1866	0.00	0.02	1.72	0.00	0.00	0.00	0.00	1.72	
1867	0.00	0.02	1.71	0.00	0.00	0.00	0.00	1.71	
1868	0.00	0.02	1.69	0.00	0.00	0.00	0.00	1.69	
1869	0.00	0.02	1.73	0.00	0.00	0.00	0.00	1.73	
1870	0.00	0.02	1.72	0.00	0.00	0.00	0.00	1.72	
1871	0.00	0.02	1.80	0.00	0.00	0.00	0.00	1.80	
1872	0.00	0.04	1.94	0.00	0.00	0.00	0.00	1.94	
1873	0.00	0.04	1.93	0.00	0.00	0.00	0.00	1.93	
1874	0.00	0.04	1.97	0.00	0.00	0.00	0.00	1.97	
1875	0.00	0.03	1.95	0.00	0.00	0.00	0.00	1.95	
1876	0.00	0.03	2.02	0.00	0.00	0.00	0.00	2.02	
1877	0.00	0.03	2.07	0.00	0.00	0.00	0.00	2.07	
1878	0.01	0.03	2.11	0.00	0.00	0.00	0.00	2.11	
1879	0.01	0.04	2.16	0.00	0.00	0.00	0.00	2.16	
1880	0.01	0.03	2.17	0.00	0.02	0.02	0.00	2.19	
1881	0.02	0.05	2.31	0.00	0.04	0.04	0.00	2.35	
1882	0.03	0.04	2.35	0.00	0.07	0.07	0.00	2.42	
1883	0.05	0.05	2.45	0.00	0.10	0.10	0.00	2.54	
1884	0.08	0.06	2.53	0.00	0.13	0.13	0.00	2.66	
1885	0.11	0.05	2.67	0.00	0.17	0.17	0.00	2.84	
1886	0.16	0.05	2.80	0.00	0.21	0.21	0.00	3.01	
1887	0.23	0.06	2.95	0.00	0.26	0.26	0.00	3.21	
1888	0.21	0.05	2.98	0.00	0.28	0.28	0.00	3.25	
1889	0.22	0.07	3.03	0.00	0.27	0.27	0.00	3.30	
1890	0.23	0.07	3.11	0.00	0.28	0.28	0.00	3.39	
1891	0.19	0.07	3.09	0.00	0.29	0.29	0.00	3.38	
1892	0.18	0.07	3.11	0.00	0.30	0.30	0.00	3.41	
1893	0.16	0.09	3.15	0.00	0.30	0.30	0.00	3.44	
1894	0.19	0.10	3.26	0.00	0.31	0.31	0.00	3.57	
1895	0.18	0.10	3.39	0.00	0.17	0.17	0.00	3.56	
1896	0.27	0.11	3.55	0.00	0.17	0.17	0.00	3.72	
1897	0.34	0.12	3.73	0.00	0.17	0.17	0.00	3.90	
1898	0.39	0.12	3.81	0.00	0.17	0.17	0.00	3.98	
1899	0.39	0.14	3.94	0.00	0.17	0.17	0.00	4.10	
1900	0.82	0.14	4.39	0.00	0.17	0.17	0.00	4.56	
1901	0.41	0.15	4.06	0.00	0.18	0.18	0.00	4.24	
1902	0.30	0.21	4.09	0.00	0.19	0.19	0.00	4.28	
1903	0.20	0.21	4.11	0.00	0.17	0.17	0.00	4.28	
1904	0.20	0.29	4.35	0.00	0.18	0.18	0.00	4.53	
1905	0.21	0.27	4.44	0.00	0.16	0.16	0.00	4.61	
1906	0.20	0.31	4.66	0.00	0.18	0.18	0.00	4.85	
1907	0.38	0.35	5.16	0.00	0.12	0.12	0.00	5.29	
1908	0.36	0.42	5.46	0.00	0.20	0.20	0.00	5.66	
1909	0.24	0.30	5.50	0.00	0.16	0.16	0.00	5.67	
1910	0.28	0.42	6.13	0.00	0.22	0.22	0.00	6.35	
1911	0.32	0.49	6.50	0.00	0.19	0.19	0.01	6.70	
1912	0.31	0.50	6.74	0.00	0.22	0.22	0.01	6.97	
1913	0.31	0.45	6.74	0.00	0.29	0.29	0.01	7.04	

## Appendix A (continued)

## M. Basilicata

	(1)	(2)	(3)	Chemicals		(6)	(7)	(8)	*
	Princ. acids	Matches	Fats and oils	Ferti- lizer	Explo- sives	Coloring materials	Pharma- ceuticals	Electr. and gases	
1861	0.00	0.00	0.01	0.00	0.05	0.04	0.18	0.00	
1862	0.00	0.00	0.01	0.00	0.03	0.04	0.18	0.00	
1863	0.00	0.00	0.01	0.00	0.03	0.04	0.17	0.00	
1864	0.00	0.00	0.01	0.00	0.05	0.04	0.18	0.00	
1865	0.00	0.00	0.01	0.00	0.05	0.04	0.17	0.00	
1866	0.00	0.00	0.01	0.00	0.06	0.04	0.18	0.00	
1867	0.00	0.00	0.01	0.00	0.05	0.04	0.18	0.00	
1868	0.00	0.00	0.01	0.00	0.04	0.04	0.18	0.00	
1869	0.00	0.00	0.01	0.00	0.04	0.04	0.19	0.00	
1870	0.00	0.00	0.01	0.00	0.03	0.04	0.20	0.00	
1871	0.00	0.00	0.01	0.00	0.04	0.04	0.20	0.00	
1872	0.00	0.00	0.01	0.00	0.06	0.04	0.20	0.00	
1873	0.00	0.00	0.01	0.00	0.05	0.05	0.20	0.00	
1874	0.00	0.00	0.01	0.00	0.05	0.05	0.19	0.00	
1875	0.00	0.00	0.01	0.00	0.03	0.05	0.20	0.00	
1876	0.00	0.00	0.01	0.00	0.04	0.05	0.19	0.00	
1877	0.00	0.00	0.01	0.00	0.03	0.05	0.20	0.00	
1878	0.00	0.00	0.00	0.00	0.03	0.05	0.20	0.00	
1879	0.00	0.01	0.00	0.00	0.02	0.05	0.22	0.00	
1880	0.00	0.01	0.00	0.00	0.02	0.06	0.19	0.00	
1881	0.00	0.02	0.00	0.00	0.03	0.06	0.24	0.00	
1882	0.00	0.02	0.00	0.00	0.02	0.06	0.22	0.00	
1883	0.00	0.02	0.00	0.00	0.02	0.06	0.22	0.00	
1884	0.00	0.02	0.00	0.00	0.02	0.06	0.21	0.00	
1885	0.00	0.02	0.00	0.00	0.01	0.06	0.21	0.00	
1886	0.00	0.02	0.00	0.00	0.01	0.06	0.20	0.00	
1887	0.00	0.02	0.01	0.00	0.01	0.06	0.20	0.00	
1888	0.00	0.02	0.01	0.00	0.01	0.06	0.20	0.00	
1889	0.00	0.02	0.01	0.00	0.01	0.06	0.20	0.00	
1890	0.00	0.02	0.01	0.00	0.01	0.05	0.21	0.00	
1891	0.00	0.02	0.01	0.00	0.01	0.05	0.20	0.00	
1892	0.00	0.02	0.01	0.00	0.02	0.05	0.20	0.00	
1893	0.00	0.02	0.01	0.00	0.01	0.05	0.20	0.00	
1894	0.00	0.01	0.01	0.00	0.01	0.05	0.20	0.00	
1895	0.00	0.00	0.01	0.00	0.01	0.04	0.19	0.00	
1896	0.00	0.00	0.01	0.00	0.01	0.04	0.19	0.00	
1897	0.00	0.00	0.01	0.00	0.01	0.04	0.18	0.00	
1898	0.00	0.00	0.01	0.00	0.01	0.04	0.18	0.00	
1899	0.00	0.00	0.01	0.00	0.01	0.04	0.17	0.00	
1900	0.00	0.00	0.01	0.00	0.01	0.04	0.16	0.00	
1901	0.00	0.00	0.01	0.00	0.01	0.04	0.15	0.00	
1902	0.00	0.00	0.01	0.00	0.01	0.04	0.15	0.00	
1903	0.00	0.00	0.01	0.00	0.01	0.04	0.15	0.00	
1904	0.00	0.00	0.01	0.00	0.02	0.04	0.15	0.00	
1905	0.00	0.00	0.01	0.00	0.02	0.04	0.14	0.00	
1906	0.00	0.00	0.01	0.00	0.02	0.04	0.14	0.00	
1907	0.00	0.00	0.00	0.00	0.02	0.03	0.15	0.00	
1908	0.00	0.00	0.00	0.00	0.02	0.03	0.15	0.00	
1909	0.00	0.00	0.00	0.00	0.02	0.03	0.15	0.00	
1910	0.00	0.00	0.00	0.00	0.02	0.03	0.16	0.00	
1911	0.00	0.00	0.00	0.00	0.03	0.03	0.16	0.00	
1912	0.00	0.00	0.00	0.00	0.04	0.03	0.17	0.00	
1913	0.00	0.00	0.00	0.00	0.05	0.03	0.18	0.00	

## Appendix A (continued)

## M. Basilicata (continued)

	(9)	(10)	(11)	(12)		(14)	(15)	(16)	*
	Other inorg.	Chemicals Other org.	Total	Coal Refineries	and petroleum Other	products Total	Rubber Total	Group total	
1861	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.28	
1862	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.27	
1863	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.25	
1864	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.28	
1865	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.28	
1866	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.28	
1867	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.28	
1868	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.27	
1869	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.28	
1870	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.28	
1871	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.30	
1872	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.32	
1873	0.00	0.00	0.31	0.00	0.00	0.00	0.00	0.31	
1874	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.30	
1875	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.30	
1876	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.29	
1877	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.30	
1878	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.29	
1879	0.00	0.00	0.31	0.00	0.00	0.00	0.00	0.31	
1880	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.29	
1881	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.35	
1882	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.33	
1883	0.00	0.01	0.33	0.00	0.00	0.00	0.00	0.33	
1884	0.00	0.01	0.31	0.00	0.00	0.00	0.00	0.31	
1885	0.00	0.01	0.30	0.00	0.00	0.00	0.00	0.30	
1886	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.30	
1887	0.00	0.01	0.30	0.00	0.00	0.00	0.00	0.30	
1888	0.00	0.01	0.31	0.00	0.00	0.00	0.00	0.31	
1889	0.00	0.01	0.31	0.00	0.00	0.00	0.00	0.31	
1890	0.00	0.01	0.31	0.00	0.00	0.00	0.00	0.31	
1891	0.00	0.01	0.31	0.00	0.00	0.00	0.00	0.31	
1892	0.00	0.01	0.31	0.00	0.00	0.00	0.00	0.31	
1893	0.00	0.01	0.30	0.00	0.00	0.00	0.00	0.30	
1894	0.00	0.01	0.28	0.00	0.00	0.00	0.00	0.28	
1895	0.00	0.01	0.27	0.00	0.00	0.00	0.00	0.27	
1896	0.00	0.01	0.26	0.00	0.00	0.00	0.00	0.26	
1897	0.00	0.01	0.26	0.00	0.00	0.00	0.00	0.26	
1898	0.00	0.01	0.25	0.00	0.00	0.00	0.00	0.25	
1899	0.00	0.01	0.25	0.00	0.00	0.00	0.00	0.25	
1900	0.00	0.01	0.24	0.00	0.00	0.00	0.00	0.24	
1901	0.00	0.02	0.23	0.00	0.00	0.00	0.00	0.23	
1902	0.00	0.02	0.23	0.00	0.00	0.00	0.00	0.23	
1903	0.00	0.02	0.23	0.00	0.00	0.00	0.00	0.23	
1904	0.00	0.03	0.24	0.00	0.00	0.00	0.00	0.24	
1905	0.00	0.03	0.23	0.00	0.00	0.00	0.00	0.23	
1906	0.00	0.03	0.24	0.00	0.00	0.00	0.00	0.24	
1907	0.00	0.04	0.24	0.00	0.00	0.00	0.00	0.24	
1908	0.00	0.04	0.24	0.00	0.00	0.00	0.00	0.24	
1909	0.00	0.03	0.24	0.00	0.00	0.00	0.00	0.24	
1910	0.00	0.04	0.26	0.00	0.00	0.00	0.00	0.26	
1911	0.00	0.05	0.27	0.00	0.00	0.00	0.00	0.27	
1912	0.00	0.05	0.29	0.00	0.00	0.00	0.00	0.29	
1913	0.00	0.04	0.31	0.00	0.00	0.00	0.00	0.31	



## Appendix A (continued)

## N. Calabria

	(1)	(2)	(3)	Chemicals		(6)	(7)	(8)	*
	Princ. acids	Matches	Fats and oils	Ferti- lizer	Explo- sives	Coloring materials	Pharma- ceuticals	Electr. and gases	
1861	0.00	0.01	0.56	0.00	0.07	0.19	0.52	0.00	
1862	0.00	0.02	0.56	0.00	0.04	0.20	0.53	0.00	
1863	0.00	0.02	0.59	0.00	0.04	0.20	0.53	0.00	
1864	0.00	0.02	0.65	0.00	0.07	0.20	0.53	0.00	
1865	0.00	0.02	0.57	0.00	0.07	0.20	0.53	0.00	
1866	0.00	0.02	0.66	0.00	0.08	0.19	0.53	0.00	
1867	0.00	0.02	0.52	0.00	0.07	0.20	0.53	0.00	
1868	0.00	0.02	0.57	0.00	0.05	0.19	0.54	0.00	
1869	0.00	0.02	0.62	0.00	0.05	0.20	0.54	0.00	
1870	0.00	0.02	0.60	0.00	0.04	0.20	0.54	0.00	
1871	0.00	0.02	0.61	0.00	0.05	0.20	0.55	0.00	
1872	0.00	0.02	0.69	0.00	0.09	0.21	0.54	0.00	
1873	0.00	0.02	0.63	0.00	0.07	0.22	0.54	0.00	
1874	0.00	0.02	0.61	0.00	0.07	0.22	0.54	0.00	
1875	0.00	0.02	0.66	0.00	0.04	0.22	0.54	0.00	
1876	0.00	0.03	0.70	0.00	0.05	0.22	0.54	0.00	
1877	0.00	0.03	0.69	0.00	0.05	0.22	0.54	0.00	
1878	0.00	0.04	0.65	0.00	0.04	0.23	0.54	0.00	
1879	0.00	0.04	0.65	0.00	0.03	0.23	0.55	0.00	
1880	0.00	0.04	0.60	0.00	0.03	0.24	0.54	0.00	
1881	0.00	0.05	0.75	0.00	0.04	0.25	0.55	0.00	
1882	0.00	0.04	0.75	0.00	0.03	0.25	0.54	0.00	
1883	0.00	0.04	0.75	0.00	0.04	0.25	0.53	0.00	
1884	0.00	0.04	0.70	0.00	0.03	0.26	0.52	0.00	
1885	0.00	0.03	0.71	0.00	0.03	0.26	0.52	0.00	
1886	0.00	0.03	0.74	0.00	0.02	0.27	0.51	0.00	
1887	0.00	0.03	0.75	0.00	0.02	0.27	0.50	0.00	
1888	0.00	0.03	0.79	0.00	0.03	0.27	0.50	0.00	
1889	0.00	0.02	0.87	0.00	0.03	0.26	0.49	0.00	
1890	0.00	0.02	0.84	0.00	0.03	0.25	0.49	0.00	
1891	0.00	0.02	0.81	0.00	0.03	0.24	0.48	0.00	
1892	0.00	0.01	0.89	0.00	0.02	0.23	0.48	0.00	
1893	0.00	0.01	0.92	0.00	0.02	0.23	0.47	0.00	
1894	0.00	0.01	1.13	0.00	0.02	0.23	0.47	0.00	
1895	0.00	0.01	1.07	0.00	0.02	0.23	0.47	0.00	
1896	0.00	0.00	1.13	0.00	0.02	0.23	0.46	0.00	
1897	0.00	0.00	1.25	0.00	0.04	0.22	0.46	0.00	
1898	0.00	0.02	1.15	0.00	0.04	0.23	0.45	0.00	
1899	0.00	0.05	1.31	0.00	0.04	0.23	0.45	0.00	
1900	0.00	0.04	1.25	0.00	0.03	0.22	0.44	0.00	
1901	0.00	0.01	1.23	0.00	0.03	0.22	0.44	0.00	
1902	0.00	0.01	1.41	0.00	0.02	0.21	0.44	0.00	
1903	0.00	0.00	1.34	0.00	0.04	0.20	0.43	0.00	
1904	0.00	0.00	1.47	0.00	0.06	0.19	0.41	0.00	
1905	0.00	0.00	1.45	0.00	0.05	0.18	0.40	0.00	
1906	0.00	0.00	1.59	0.00	0.06	0.18	0.39	0.00	
1907	0.00	0.00	1.77	0.00	0.07	0.17	0.39	0.00	
1908	0.00	0.00	1.88	0.00	0.06	0.16	0.37	0.00	
1909	0.00	0.00	1.94	0.00	0.08	0.14	0.36	0.00	
1910	0.00	0.00	1.95	0.00	0.09	0.13	0.35	0.00	
1911	0.00	0.00	2.04	0.00	0.11	0.12	0.33	0.00	
1912	0.00	0.00	2.14	0.00	0.12	0.12	0.33	0.00	
1913	0.00	0.00	2.10	0.00	0.16	0.11	0.33	0.00	

## Appendix A (continued)

## N. Calabria (continued)

	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	*
	Other inorg.	Chemicals Other org.	Total	Coal and Refineries	petroleum Other	products Total	Rubber Total	Group total	
1861	0.00	0.03	1.39	0.00	0.00	0.00	0.00	1.39	
1862	0.00	0.02	1.37	0.00	0.00	0.00	0.00	1.37	
1863	0.00	0.03	1.40	0.00	0.00	0.00	0.00	1.40	
1864	0.00	0.05	1.52	0.00	0.00	0.00	0.00	1.52	
1865	0.00	0.04	1.43	0.00	0.00	0.00	0.00	1.43	
1866	0.00	0.03	1.51	0.00	0.00	0.00	0.00	1.51	
1867	0.00	0.03	1.36	0.00	0.00	0.00	0.00	1.36	
1868	0.00	0.03	1.39	0.00	0.00	0.00	0.00	1.39	
1869	0.00	0.03	1.45	0.00	0.00	0.00	0.00	1.45	
1870	0.00	0.04	1.44	0.00	0.00	0.00	0.00	1.44	
1871	0.00	0.04	1.47	0.00	0.00	0.00	0.00	1.47	
1872	0.00	0.06	1.61	0.00	0.00	0.00	0.00	1.61	
1873	0.00	0.05	1.54	0.00	0.00	0.00	0.00	1.54	
1874	0.00	0.06	1.52	0.00	0.00	0.00	0.00	1.52	
1875	0.00	0.04	1.54	0.00	0.00	0.00	0.00	1.54	
1876	0.00	0.05	1.59	0.00	0.00	0.00	0.00	1.59	
1877	0.00	0.05	1.58	0.00	0.00	0.00	0.00	1.58	
1878	0.00	0.05	1.55	0.00	0.00	0.00	0.00	1.55	
1879	0.00	0.06	1.55	0.00	0.00	0.00	0.00	1.55	
1880	0.00	0.04	1.50	0.00	0.00	0.00	0.00	1.50	
1881	0.00	0.07	1.70	0.00	0.00	0.00	0.00	1.70	
1882	0.00	0.07	1.68	0.00	0.00	0.00	0.00	1.68	
1883	0.00	0.08	1.70	0.00	0.00	0.00	0.00	1.70	
1884	0.00	0.08	1.63	0.00	0.00	0.00	0.00	1.63	
1885	0.00	0.08	1.63	0.00	0.00	0.00	0.00	1.63	
1886	0.00	0.07	1.65	0.00	0.00	0.00	0.00	1.65	
1887	0.01	0.09	1.66	0.00	0.00	0.00	0.00	1.66	
1888	0.01	0.08	1.70	0.00	0.00	0.00	0.00	1.70	
1889	0.00	0.10	1.78	0.00	0.00	0.00	0.00	1.78	
1890	0.00	0.11	1.73	0.00	0.00	0.00	0.00	1.73	
1891	0.00	0.10	1.68	0.00	0.00	0.00	0.00	1.68	
1892	0.00	0.11	1.75	0.00	0.00	0.00	0.00	1.75	
1893	0.00	0.14	1.79	0.00	0.00	0.00	0.00	1.79	
1894	0.00	0.15	2.01	0.00	0.00	0.00	0.00	2.01	
1895	0.00	0.15	1.95	0.00	0.00	0.00	0.00	1.95	
1896	0.00	0.17	2.01	0.00	0.00	0.00	0.00	2.01	
1897	0.00	0.18	2.15	0.00	0.00	0.00	0.00	2.15	
1898	0.00	0.18	2.06	0.00	0.00	0.00	0.00	2.06	
1899	0.00	0.21	2.29	0.00	0.00	0.00	0.00	2.29	
1900	0.00	0.21	2.19	0.00	0.00	0.00	0.00	2.19	
1901	0.00	0.23	2.16	0.00	0.00	0.00	0.00	2.16	
1902	0.00	0.31	2.40	0.00	0.00	0.00	0.00	2.40	
1903	0.00	0.31	2.32	0.00	0.00	0.00	0.00	2.32	
1904	0.03	0.44	2.61	0.00	0.00	0.00	0.00	2.61	
1905	0.00	0.40	2.48	0.00	0.00	0.00	0.00	2.48	
1906	0.01	0.47	2.70	0.00	0.00	0.00	0.00	2.70	
1907	0.00	0.53	2.93	0.00	0.00	0.00	0.00	2.93	
1908	0.04	0.63	3.14	0.00	0.00	0.00	0.00	3.14	
1909	0.00	0.46	2.98	0.00	0.00	0.00	0.00	2.98	
1910	0.00	0.63	3.14	0.00	0.00	0.00	0.00	3.14	
1911	0.00	0.73	3.34	0.00	0.00	0.00	0.00	3.34	
1912	0.00	0.76	3.47	0.00	0.00	0.00	0.00	3.47	
1913	0.00	0.67	3.38	0.00	0.00	0.00	0.00	3.38	

## Appendix A (continued)

## O. Sicily

	(1)	(2)	(3)	Chemicals		(6)	(7)	(8)	*
	Princ. acids	Matches	Fats and oils	Ferti- lizer	Explo- sives	Coloring materials	Pharma- ceuticals	Electr. and gases	
1861	0.00	0.16	1.17	0.00	0.40	0.62	0.78	0.00	
1862	0.00	0.16	1.20	0.00	0.35	0.67	0.78	0.00	
1863	0.00	0.16	1.23	0.00	0.37	0.65	0.77	0.00	
1864	0.00	0.16	1.30	0.00	0.42	0.68	0.76	0.00	
1865	0.00	0.17	1.24	0.00	0.40	0.69	0.76	0.00	
1866	0.00	0.17	1.33	0.00	0.46	0.66	0.76	0.00	
1867	0.00	0.17	1.20	0.00	0.44	0.68	0.75	0.00	
1868	0.00	0.17	1.27	0.00	0.41	0.67	0.75	0.00	
1869	0.00	0.18	1.34	0.00	0.39	0.70	0.75	0.00	
1870	0.00	0.18	1.32	0.00	0.37	0.71	0.75	0.00	
1871	0.00	0.19	1.35	0.00	0.38	0.73	0.74	0.00	
1872	0.00	0.18	1.45	0.00	0.53	0.72	0.75	0.00	
1873	0.00	0.19	1.41	0.00	0.55	0.72	0.75	0.00	
1874	0.00	0.19	1.41	0.00	0.52	0.69	0.75	0.00	
1875	0.00	0.20	1.48	0.00	0.39	0.66	0.76	0.00	
1876	0.00	0.19	1.56	0.00	0.53	0.63	0.76	0.00	
1877	0.00	0.21	1.56	0.01	0.49	0.61	0.76	0.00	
1878	0.00	0.23	1.51	0.01	0.56	0.59	0.76	0.00	
1879	0.00	0.24	1.48	0.01	0.64	0.56	0.77	0.00	
1880	0.00	0.24	1.44	0.01	0.63	0.55	0.77	0.00	
1881	0.00	0.25	1.58	0.01	0.68	0.54	0.79	0.00	
1882	0.00	0.23	1.58	0.02	0.75	0.54	0.78	0.00	
1883	0.00	0.23	1.58	0.02	0.77	0.56	0.78	0.00	
1884	0.00	0.21	1.55	0.02	0.70	0.58	0.77	0.00	
1885	0.00	0.19	1.56	0.02	0.76	0.61	0.77	0.00	
1886	0.01	0.18	1.60	0.03	0.74	0.64	0.77	0.00	
1887	0.01	0.16	1.63	0.02	0.72	0.65	0.77	0.00	
1888	0.01	0.15	1.63	0.02	0.67	0.65	0.78	0.00	
1889	0.01	0.13	1.69	0.02	0.63	0.63	0.78	0.00	
1890	0.01	0.12	1.64	0.02	0.63	0.62	0.79	0.00	
1891	0.02	0.11	1.58	0.01	0.67	0.61	0.79	0.00	
1892	0.01	0.10	1.63	0.01	0.71	0.59	0.79	0.00	
1893	0.01	0.09	1.64	0.00	0.67	0.59	0.79	0.00	
1894	0.01	0.07	1.81	0.00	0.64	0.60	0.80	0.00	
1895	0.01	0.06	1.74	0.00	0.62	0.61	0.80	0.00	
1896	0.01	0.04	1.78	0.00	0.64	0.61	0.81	0.00	
1897	0.01	0.04	1.87	0.00	0.74	0.61	0.81	0.00	
1898	0.01	0.03	1.76	0.00	0.75	0.63	0.82	0.00	
1899	0.01	0.03	1.88	0.00	0.85	0.65	0.83	0.00	
1900	0.03	0.02	1.79	0.03	0.80	0.63	0.81	0.00	
1901	0.05	0.03	1.73	0.07	0.82	0.64	0.82	0.00	
1902	0.08	0.04	1.88	0.09	0.78	0.64	0.84	0.00	
1903	0.11	0.03	1.78	0.12	0.87	0.64	0.83	0.00	
1904	0.12	0.03	1.97	0.15	0.86	0.65	0.82	0.00	
1905	0.14	0.03	2.00	0.20	0.90	0.64	0.81	0.00	
1906	0.16	0.03	2.21	0.23	0.83	0.69	0.82	0.00	
1907	0.18	0.03	2.48	0.27	0.76	0.71	0.84	0.00	
1908	0.24	0.03	2.69	0.32	0.72	0.74	0.83	0.00	
1909	0.29	0.03	2.85	0.34	0.72	0.76	0.84	0.00	
1910	0.38	0.02	2.95	0.41	0.72	0.78	0.85	0.00	
1911	0.39	0.02	3.13	0.39	0.75	0.83	0.85	0.00	
1912	0.53	0.02	3.30	0.46	0.72	0.85	0.87	0.00	
1913	0.67	0.01	3.29	0.47	0.76	0.83	0.88	0.00	

## Appendix A (continued)

## O. Sicily (continued)

	(9)	(10)	(11)	(12)		(14)	(15)	(16)	*
	Other inorg.	Chemicals Other org.	Total	Coal and Refineries	petroleum Other	products Total	Rubber Total	Group total	
1861	0.21	0.10	3.42	0.00	0.00	0.00	0.00	3.42	
1862	0.20	0.08	3.43	0.00	0.00	0.00	0.00	3.43	
1863	0.20	0.12	3.50	0.00	0.00	0.00	0.00	3.50	
1864	0.21	0.17	3.71	0.00	0.00	0.00	0.00	3.71	
1865	0.22	0.14	3.62	0.00	0.00	0.00	0.00	3.62	
1866	0.24	0.12	3.74	0.00	0.00	0.00	0.00	3.74	
1867	0.25	0.09	3.58	0.00	0.00	0.00	0.00	3.58	
1868	0.25	0.10	3.62	0.00	0.00	0.00	0.00	3.62	
1869	0.26	0.10	3.71	0.00	0.00	0.00	0.00	3.71	
1870	0.26	0.13	3.72	0.00	0.00	0.00	0.00	3.72	
1871	0.30	0.12	3.82	0.00	0.00	0.00	0.00	3.82	
1872	0.33	0.21	4.17	0.00	0.00	0.00	0.00	4.17	
1873	0.34	0.18	4.15	0.00	0.00	0.00	0.00	4.15	
1874	0.36	0.20	4.12	0.00	0.00	0.00	0.00	4.12	
1875	0.38	0.14	4.01	0.00	0.00	0.00	0.00	4.01	
1876	0.44	0.16	4.27	0.00	0.00	0.00	0.00	4.27	
1877	0.48	0.17	4.29	0.00	0.00	0.00	0.00	4.29	
1878	0.55	0.17	4.37	0.00	0.00	0.00	0.00	4.37	
1879	0.62	0.19	4.52	0.00	0.00	0.00	0.00	4.52	
1880	0.71	0.15	4.50	0.00	0.00	0.00	0.00	4.50	
1881	0.80	0.24	4.88	0.00	0.00	0.00	0.01	4.89	
1882	0.84	0.22	4.97	0.00	0.01	0.01	0.01	4.99	
1883	0.90	0.26	5.10	0.00	0.01	0.01	0.01	5.12	
1884	1.00	0.28	5.12	0.00	0.01	0.01	0.01	5.14	
1885	1.17	0.27	5.35	0.00	0.02	0.02	0.01	5.39	
1886	1.18	0.25	5.39	0.00	0.02	0.02	0.01	5.42	
1887	1.35	0.29	5.60	0.00	0.02	0.02	0.01	5.63	
1888	0.86	0.28	5.05	0.00	0.02	0.02	0.01	5.08	
1889	0.83	0.35	5.08	0.00	0.02	0.02	0.02	5.12	
1890	0.83	0.36	5.02	0.00	0.03	0.03	0.02	5.07	
1891	1.16	0.33	5.27	0.00	0.02	0.02	0.01	5.29	
1892	1.61	0.38	5.83	0.00	0.01	0.01	0.01	5.86	
1893	1.34	0.48	5.61	0.00	0.01	0.01	0.01	5.64	
1894	1.29	0.51	5.74	0.00	0.01	0.01	0.02	5.76	
1895	1.36	0.52	5.72	0.00	0.01	0.01	0.01	5.74	
1896	1.25	0.56	5.71	0.00	0.02	0.02	0.01	5.74	
1897	1.36	0.60	6.05	0.00	0.01	0.01	0.01	6.07	
1898	1.79	0.59	6.38	0.00	0.01	0.01	0.01	6.40	
1899	1.83	0.70	6.77	0.00	0.06	0.06	0.01	6.85	
1900	2.22	0.71	7.05	0.00	0.03	0.03	0.01	7.09	
1901	2.15	0.78	7.10	0.00	0.04	0.04	0.00	7.14	
1902	1.94	1.06	7.36	0.00	0.06	0.06	0.00	7.41	
1903	2.43	1.05	7.86	0.00	0.06	0.06	0.00	7.92	
1904	2.74	1.48	8.83	0.00	0.05	0.05	0.00	8.89	
1905	2.77	1.35	8.85	0.00	0.05	0.05	0.00	8.90	
1906	2.66	1.58	9.21	0.00	0.05	0.05	0.00	9.26	
1907	2.50	1.80	9.56	0.00	0.07	0.07	0.00	9.64	
1908	2.53	2.11	10.20	0.00	0.07	0.07	0.01	10.28	
1909	2.24	1.55	9.62	0.00	0.09	0.09	0.01	9.72	
1910	2.64	2.12	10.86	0.00	0.08	0.08	0.01	10.95	
1911	2.71	2.48	11.55	0.00	0.09	0.09	0.01	11.65	
1912	2.78	2.55	12.09	0.00	0.10	0.10	0.01	12.20	
1913	2.51	2.26	11.69	0.03	0.08	0.11	0.01	11.82	

## Appendix A (continued)

## P. Sardinia

	(1)	(2)	(3)	Chemicals		(6)	(7)	(8)	*
	Princ. acids	Matches	Fats and oils	Ferti- lizer	Explo- sives	Coloring materials	Pharma- ceuticals	Electr. and gases	
1861	0.00	0.00	0.02	0.00	0.03	0.24	0.06	0.00	
1862	0.00	0.00	0.02	0.00	0.02	0.25	0.06	0.00	
1863	0.00	0.00	0.02	0.00	0.02	0.23	0.06	0.00	
1864	0.00	0.00	0.02	0.00	0.03	0.22	0.06	0.00	
1865	0.00	0.00	0.02	0.00	0.03	0.21	0.06	0.00	
1866	0.00	0.00	0.02	0.00	0.03	0.18	0.06	0.00	
1867	0.00	0.00	0.02	0.00	0.03	0.18	0.06	0.00	
1868	0.00	0.00	0.02	0.00	0.02	0.16	0.06	0.00	
1869	0.00	0.00	0.02	0.00	0.02	0.15	0.06	0.00	
1870	0.00	0.00	0.02	0.00	0.03	0.14	0.06	0.00	
1871	0.00	0.00	0.03	0.00	0.03	0.13	0.06	0.00	
1872	0.00	0.00	0.03	0.00	0.06	0.13	0.06	0.00	
1873	0.00	0.00	0.03	0.00	0.08	0.13	0.06	0.00	
1874	0.00	0.00	0.03	0.00	0.09	0.13	0.06	0.00	
1875	0.00	0.00	0.03	0.00	0.10	0.13	0.07	0.00	
1876	0.00	0.00	0.03	0.00	0.14	0.13	0.07	0.00	
1877	0.00	0.00	0.04	0.00	0.16	0.13	0.07	0.00	
1878	0.00	0.00	0.05	0.00	0.18	0.13	0.07	0.00	
1879	0.00	0.00	0.06	0.00	0.19	0.13	0.07	0.00	
1880	0.00	0.00	0.08	0.00	0.19	0.13	0.07	0.00	
1881	0.00	0.01	0.09	0.00	0.19	0.13	0.08	0.00	
1882	0.00	0.01	0.11	0.00	0.22	0.14	0.07	0.00	
1883	0.00	0.01	0.12	0.00	0.23	0.15	0.08	0.00	
1884	0.00	0.01	0.13	0.00	0.23	0.15	0.07	0.00	
1885	0.00	0.01	0.15	0.00	0.23	0.16	0.07	0.00	
1886	0.00	0.01	0.17	0.00	0.22	0.17	0.07	0.00	
1887	0.00	0.01	0.19	0.00	0.24	0.17	0.07	0.00	
1888	0.00	0.01	0.20	0.00	0.19	0.18	0.07	0.00	
1889	0.00	0.01	0.22	0.00	0.32	0.17	0.07	0.00	
1890	0.00	0.00	0.24	0.00	0.42	0.17	0.08	0.00	
1891	0.00	0.00	0.26	0.00	0.54	0.17	0.08	0.00	
1892	0.01	0.00	0.28	0.00	0.46	0.16	0.08	0.00	
1893	0.02	0.00	0.30	0.00	0.42	0.17	0.08	0.00	
1894	0.02	0.00	0.32	0.00	0.31	0.16	0.08	0.00	
1895	0.02	0.00	0.35	0.00	0.32	0.17	0.08	0.00	
1896	0.02	0.00	0.38	0.00	0.39	0.17	0.07	0.00	
1897	0.02	0.00	0.41	0.00	0.49	0.17	0.07	0.00	
1898	0.02	0.00	0.45	0.00	0.56	0.18	0.07	0.00	
1899	0.02	0.00	0.49	0.00	0.51	0.19	0.07	0.00	
1900	0.03	0.00	0.52	0.00	0.44	0.19	0.07	0.00	
1901	0.02	0.00	0.55	0.00	0.35	0.19	0.07	0.00	
1902	0.01	0.01	0.59	0.00	0.23	0.19	0.07	0.00	
1903	0.00	0.01	0.64	0.00	0.12	0.19	0.07	0.00	
1904	0.02	0.00	0.60	0.00	0.18	0.19	0.07	0.00	
1905	0.04	0.00	0.55	0.00	0.29	0.18	0.07	0.00	
1906	0.04	0.00	0.52	0.00	0.40	0.19	0.08	0.00	
1907	0.02	0.00	0.48	0.00	0.55	0.19	0.08	0.00	
1908	0.02	0.00	0.42	0.00	0.71	0.19	0.09	0.00	
1909	0.01	0.00	0.36	0.00	0.95	0.19	0.10	0.00	
1910	0.01	0.00	0.26	0.00	1.06	0.18	0.11	0.00	
1911	0.00	0.00	0.15	0.00	0.87	0.19	0.11	0.00	
1912	0.01	0.00	0.15	0.00	0.52	0.19	0.12	0.00	
1913	0.02	0.00	0.16	0.00	0.36	0.18	0.12	0.00	

## Appendix A (continued)

## P. Sardinia (continued)

	(9)	(10)	(11)	(12)		(14)	(15)	(16)	*
	Other inorg.	Chemicals Other org.	Total	Coal	and petroleum Refineries	products Other	Total	Rubber Total	
1861	0.03	0.00	0.39	0.00	0.00	0.00	0.00	0.39	
1862	0.03	0.00	0.38	0.00	0.00	0.00	0.00	0.38	
1863	0.02	0.00	0.35	0.00	0.00	0.00	0.00	0.35	
1864	0.02	0.00	0.36	0.00	0.00	0.00	0.00	0.36	
1865	0.02	0.00	0.34	0.00	0.00	0.00	0.00	0.34	
1866	0.02	0.00	0.32	0.00	0.00	0.00	0.00	0.32	
1867	0.02	0.00	0.30	0.00	0.00	0.00	0.00	0.30	
1868	0.01	0.00	0.27	0.00	0.00	0.00	0.00	0.27	
1869	0.01	0.00	0.26	0.00	0.00	0.00	0.00	0.26	
1870	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.25	
1871	0.01	0.00	0.27	0.00	0.00	0.00	0.00	0.27	
1872	0.02	0.00	0.30	0.00	0.00	0.00	0.00	0.30	
1873	0.01	0.00	0.32	0.00	0.00	0.00	0.00	0.32	
1874	0.01	0.00	0.33	0.00	0.00	0.00	0.00	0.33	
1875	0.01	0.00	0.34	0.00	0.00	0.00	0.00	0.34	
1876	0.02	0.00	0.39	0.00	0.00	0.00	0.00	0.39	
1877	0.02	0.00	0.42	0.00	0.00	0.00	0.00	0.42	
1878	0.02	0.00	0.45	0.00	0.00	0.00	0.00	0.45	
1879	0.02	0.00	0.47	0.00	0.00	0.00	0.00	0.47	
1880	0.03	0.00	0.50	0.00	0.00	0.00	0.00	0.50	
1881	0.04	0.00	0.54	0.00	0.00	0.00	0.00	0.54	
1882	0.04	0.00	0.59	0.00	0.00	0.00	0.00	0.59	
1883	0.05	0.00	0.63	0.00	0.00	0.00	0.00	0.63	
1884	0.04	0.00	0.63	0.00	0.00	0.00	0.00	0.63	
1885	0.04	0.00	0.66	0.00	0.00	0.00	0.00	0.66	
1886	0.05	0.00	0.68	0.00	0.00	0.00	0.00	0.68	
1887	0.05	0.00	0.73	0.00	0.00	0.00	0.00	0.73	
1888	0.05	0.00	0.70	0.00	0.00	0.00	0.00	0.70	
1889	0.03	0.00	0.83	0.00	0.00	0.00	0.00	0.83	
1890	0.04	0.00	0.94	0.00	0.00	0.00	0.00	0.94	
1891	0.04	0.00	1.08	0.00	0.00	0.00	0.00	1.08	
1892	0.05	0.00	1.04	0.00	0.00	0.00	0.00	1.04	
1893	0.04	0.00	1.02	0.00	0.00	0.00	0.00	1.02	
1894	0.02	0.00	0.92	0.00	0.00	0.00	0.00	0.92	
1895	0.02	0.00	0.95	0.00	0.00	0.00	0.00	0.95	
1896	0.02	0.00	1.06	0.00	0.00	0.00	0.00	1.06	
1897	0.00	0.00	1.17	0.00	0.00	0.00	0.00	1.17	
1898	0.01	0.00	1.31	0.00	0.00	0.00	0.00	1.31	
1899	0.02	0.00	1.32	0.00	0.00	0.00	0.00	1.32	
1900	0.01	0.00	1.27	0.00	0.00	0.00	0.00	1.27	
1901	0.01	0.00	1.20	0.00	0.00	0.00	0.00	1.20	
1902	0.02	0.00	1.13	0.00	0.00	0.00	0.00	1.13	
1903	0.02	0.00	1.05	0.00	0.00	0.00	0.00	1.05	
1904	0.01	0.00	1.08	0.00	0.00	0.00	0.00	1.08	
1905	0.01	0.00	1.15	0.00	0.00	0.00	0.00	1.15	
1906	0.01	0.00	1.24	0.00	0.00	0.00	0.00	1.24	
1907	0.00	0.00	1.33	0.00	0.00	0.00	0.00	1.33	
1908	0.01	0.00	1.43	0.00	0.00	0.00	0.00	1.43	
1909	0.01	0.00	1.61	0.00	0.00	0.00	0.00	1.61	
1910	0.01	0.00	1.63	0.00	0.00	0.00	0.00	1.63	
1911	0.02	0.00	1.34	0.00	0.00	0.00	0.00	1.34	
1912	0.01	0.00	1.00	0.00	0.00	0.00	0.00	1.00	
1913	0.01	0.00	0.86	0.00	0.00	0.00	0.00	0.86	

Note: numbers need not add, due to rounding.

Source: see text.

## Appendix B

### Sources and Methods

As is well known, the reports of the *Corpo delle miniere* provide systematic information on the chemical industry in 1865, 1879, and from 1893 on (and occasional partial data for other years); but their coverage was essentially limited to just over half the relevant product groups. Where possible, the present regional series are built up from the mining engineers' local output data (*Direzione generale della statistica*, 1868; *Ministero di Agricoltura, industria e commercio*, 1881, 1877-1882, 1883-1914). Where such data are lacking, the national series are typically disaggregated on the basis of periodic survey evidence. The primary evidence here is that on the distribution of the labor force in the demographic censuses of 1871, 1881, 1901, and 1911, and the partial employment and horsepower figures in the occasional surveys, including Ellena's in 1876, Dirstat's in 1903, and of course the industrial census of 1911 (*Ministero di Agricoltura, industria e commercio*, 1876, 1884, 1904, 1915; Ellena, 1880; *Direzione generale della statistica*, 1906; *Ministero di Agricoltura, industria e commercio*, 1913-1916). These data are used to generate benchmark estimates of regional shares, which are then simply interpolated and extrapolated. A brief description of the derivation of the industry-specific estimates follows; a more detailed account is available on request.

The principal acids industry refers to the (non-electrochemical) production of sulfuric, nitric, and hydrochloric acid. Because these acids were produced in varying concentrations, the regional disaggregation is based on the reported value of output, weighted by the acid-specific ratio of value added to value. This detailed calculation was performed for 1865, 1879, 1887, and the odd-numbered years from 1893; regional value added in the other years was then estimated by disaggregating national value added on the basis of interpolated regional shares.

From 1896 to 1913 the regional shares of the production of matches are based directly on the local output data generated by the production tax; in earlier years the disaggregation is census-based.

In the virtual absence of output data, the regional estimates for fats and oils are obtained through separate survey-based disaggregations, using both labor and power data, of

the national production of essential oils, of beeswax products, and of the large residual that covers soap, stearine candles, and the like.

The regional estimates of fertilizer production are obtained by disaggregating the national series. The regional shares are estimated from superphosphate production data in the odd-numbered years from 1893, and from the distribution of the labor force in 1881; they are assumed constant before 1881, and interpolated in other years.

The regional estimates for the explosives industry are built up from four partial series. The first refers to clandestine production; the national black-powder estimates are attributed to Sicily, and the national nitroglycerine estimates are distributed among the other regions in proportion to their value added in mining. The second refers to intermediate explosives such as dynamite; the regional estimates allocate the national series with shares calculated from comprehensive output data in 1887-1888 and the odd-numbered years from 1893, and either local data or simple interpolation in other years. The third refers to other explosives; the national series is allocated with shares estimated from the reported value of output in 1887-1888 and the odd-numbered years from 1893, from census data labor-force data, with region-specific weights, in 1871 and 1881, and by simple interpolation or extrapolation in other years. The fourth refers to the completion of munitions; the regional estimates are obtained from the national series through shares estimated from labor-force data in the census years, and otherwise interpolated or extrapolated.

The regional estimates for coloring materials disaggregate three national series, referred respectively to specialized workshop production, dye production by dyers, and paint production by painters. Workshop production is disaggregated on the basis of census-based benchmarks, again obtained with time-variant region-specific weights (that backcast the 1911 industrial census). The regional distribution of dye production by dyers is estimated from the distribution of the latter at the census dates. Paint production by painters is estimated from regional paint-consumption estimates which allow for the relocation of the capital in the early years.

The regional estimates of the production of pharmaceuticals disaggregate two national series, referred respectively to production by specialized workshops, and to production by pharmacists. Both are disaggregated with census labor-force data, unweighted



in the case of pharmacists, and weighted to reflect differential power use in the case of specialized shops.

The electrochemicals and gases industry was exhaustively documented by the *Corpo delle miniere*; the regional totals are obtained as the sum of 23 product-specific physical series, with (national) value added weights.

The production of other inorganic chemicals was also extensively documented by the *Corpo delle miniere*; the regional totals are obtained as the sum of 29 product-specific physical series, with (national) value added weights. Prior to 1893, the physical series themselves extensively interpolated and extrapolated.

The national other organic chemicals series is disaggregated using the regional shares calculated for 1911, the first year in which the industry is identified by the census. The rapid growth of the industry, and its roots in region-specific raw materials, limit the resulting distortion.

The regional estimates for the refineries allocate national value added on the basis of simple physical-output regional totals, again extensively interpolated and extrapolated over the early decades.

The other coal and petroleum products industry was extensively documented by the *Corpo delle miniere*; the regional totals are obtained as the sum of 8 product-specific physical series, with (national) value added weights. Prior to 1893, the physical series themselves are extensively interpolated and extrapolated.

In the virtual absence of output data, the regional estimates for the rubber industry are obtained by disaggregating the national series using census labor-force data.

Appendix C  
Regional Production: Electrochemicals, 1861-1913<sup>a</sup> (tons<sup>b</sup>)

	Piedmont							Liguria	Lombardy			*
	(3)	(9)	(10)	(18)	(19)	(21)	(22)	(23)	(21)	(1)	(3)	
	Liquid carbon dioxide	Liquid ammonia	Liquid sulfur dioxide	Calcium carbide	Calcium cyanamide	Barium salts	Sodium sulfide	Ferro-silicon	Barium salts	Arc nitric acid	Liquid carbon dioxide	Linde oxygen
1889	1	0	0	0	0	0	0	0	0	0	0	.0
1890	3	0	0	0	0	0	0	0	0	0	0	.0
1891	10	0	0	0	0	0	0	0	0	0	0	.0
1892	12	0	0	0	0	0	0	0	0	0	0	.0
1893	13	0	0	0	0	0	0	0	0	0	0	.0
1894	8	0	0	0	0	0	0	0	0	0	0	.0
1895	18	0	2	0	0	0	0	0	0	0	0	.0
1896	21	0	1	0	0	0	0	0	0	0	0	.0
1897	25	0	5	0	0	0	0	0	0	0	0	.0
1898	28	0	6	0	0	0	0	0	0	0	0	.0
1899	39	0	7	60	0	6	8	0	0	0	0	.0
1900	34	0	1	300	0	704	6	0	0	0	0	.0
1901	39	0	14	600	0	300	0	0	0	0	0	.0
1902	39	0	13	2,000	0	2,030	0	0	0	0	0	.0
1903	48	0	0	2,000	0	1,800	0	0	0	0	0	.0
1904	61	0	0	2,700	0	0	0	0	0	0	0	.0
1905	80	0	0	3,100	0	0	0	0	0	0	0	.0
1906	80	0	0	3,150	0	0	0	0	14	0	150	.0
1907	58	0	0	3,925	0	0	0	0	15	0	120	.0
1908	73	4	0	4,344	0	0	0	0	11	0	95	.0
1909	96	0	0	3,257	0	0	0	22	11	0	140	.0
1910	80	5	0	1,303	0	0	0	380	0	500	350	0.5
1911	0	10	0	2,384	470	0	0	62	0	900	850	349.6
1912	0	8	0	1,071	965	0	0	720	0	1,100	450	370.6
1913	0	8	0	3,847	2,306	600	500	510	0	1,700	400	370.6

<sup>a</sup>To conserve space the null columns, years (1861-1888), and regions (Emilia, Apulia, Basilicata, Calabria, Sicily and Sardinia) are not reported.

<sup>b</sup>in cols. 4, 5 and 6, thousand cubic meters.

Appendix C, cont.

	Lombardy (cont.)									Venetia *		
	(7)	(11)	(12)	(13)	(14)	(15)	(18)	(21)	(22)	(23)	(3)	(18)
	Liquid nitrogen	Solid caustic soda	Liquid caustic soda	Bleaching powder	Sodium hypo-chlorite	Potassium chlorate	Calcium carbide	Barium salts	Sodium sulfide	Ferro-silicon	Liquid carbon dioxide	Calcium carbide
1889	0	0	0	0	0	0	0	0	0	0	0	0
1890	0	0	0	0	0	0	0	0	0	0	0	0
1891	0	0	0	0	0	0	0	0	0	0	0	0
1892	0	0	0	0	0	0	0	0	0	0	0	0
1893	0	0	0	0	0	0	0	0	0	0	0	0
1894	0	0	0	0	0	0	0	0	0	0	0	0
1895	0	0	0	0	0	0	0	0	0	0	0	0
1896	0	0	0	0	0	0	0	0	0	0	0	0
1897	0	0	0	0	0	0	0	0	0	0	0	0
1898	0	0	0	0	0	0	0	0	0	0	0	0
1899	0	0	0	0	0	0	0	0	0	0	0	0
1900	0	0	0	0	0	0	0	0	0	0	0	0
1901	0	0	0	0	0	0	0	0	0	0	0	0
1902	0	0	0	0	0	0	0	265	0	0	0	0
1903	0	0	0	0	0	0	0	412	0	0	0	0
1904	0	0	0	0	0	0	200	70	0	0	0	0
1905	0	0	0	0	0	0	570	1,005	140	0	28	0
1906	0	0	1,500	1,200	0	0	570	1,490	450	0	39	0
1907	0	0	1,500	1,200	0	0	570	3,804	486	0	39	0
1908	0	0	4,197	3,368	0	0	4,800	4,356	470	0	39	0
1909	0	0	5,500	4,000	265	0	5,000	1,640	385	0	52	0
1910	0	0	5,555	3,800	290	500	5,000	2,075	302	150	65	0
1911	10	32	5,200	3,820	450	500	2,633	2,286	274	1,389	67	0
1912	50	525	6,715	4,632	1,047	581	3,000	1,577	272	2,106	58	0
1913	10	777	6,878	4,068	2,252	514	3,300	1,773	255	4,103	0	800

Appendix C, cont.

	Ven. (c.)	Tuscany		Marches	Umbria						Latium		*
	(21)	(3)	(18)	(18)	(6)	(18)	(19)	(20)	(21)	(22)	(4)	(5)	
	Barium salts	Liquid carbon dioxide	Calcium carbide	Calcium carbide	Linde oxygen	Calcium carbide	Calcium cyanamide	Carbon electrodes	Barium salts	Sodium sulfide	Hydrogen	Cell oxygen	
1889	0	0	0	0	.0	0	0	0	0	0	.0	.0	
1890	0	0	0	0	.0	0	0	0	0	0	.0	.0	
1891	0	0	0	0	.0	0	0	0	0	0	.0	.0	
1892	0	0	0	0	.0	0	0	0	0	0	.0	.0	
1893	50	0	0	0	.0	0	0	0	0	0	.0	.0	
1894	50	29	0	0	.0	0	0	0	0	0	.0	.0	
1895	145	72	0	0	.0	0	0	0	0	0	.0	.0	
1896	200	80	0	0	.0	0	0	0	0	0	.0	.0	
1897	221	80	0	0	.0	500	0	0	0	0	6.0	3.0	
1898	200	60	0	0	.0	600	0	0	0	0	10.9	5.6	
1899	300	60	0	0	.0	1,000	0	0	0	0	10.9	5.6	
1900	300	60	0	0	.0	2,500	0	0	0	0	10.9	5.6	
1901	200	60	0	0	.0	9,000	0	0	750	0	40.0	20.0	
1902	200	135	0	0	.0	13,425	0	400	1,750	0	40.0	20.0	
1903	220	135	0	0	.0	14,245	0	600	1,006	0	40.0	20.0	
1904	250	135	0	0	.0	24,415	0	292	0	0	40.0	20.0	
1905	280	200	0	0	.0	24,544	0	850	80	0	42.0	21.0	
1906	280	200	0	0	.0	24,637	0	1,095	60	0	42.0	21.0	
1907	0	443	0	0	.0	26,067	0	1,276	18	0	43.0	22.0	
1908	0	450	35	0	.0	24,908	0	1,610	0	0	38.0	19.0	
1909	110	400	518	0	.0	31,842	1,800	1,700	140	0	25.5	13.6	
1910	300	400	0	0	19.7	29,106	2,819	1,635	75	0	8.0	4.0	
1911	300	500	430	8,000	23.8	19,303	4,000	1,476	90	130	8.0	4.0	
1912	400	600	2,087	5,000	59.0	25,585	11,730	1,520	120	130	8.0	4.0	
1913	2,150	800	2,137	5,000	62.0	33,484	16,250	1,860	60	0	8.0	4.0	

Appendix C, cont.

	Abruzzi											Campania
	(2) Synthetic hydrochloric acid	(6) Linde oxygen	(8) Liquid chlorine	(11) Solid caustic soda	(13) Bleaching powder	(14) Sodium hypo- chlorite	(16) Sodium chlorate	(17) Carbon tetra- chloride	(18) Calcium carbide	(19) Calcium cyana- mide	(23) Ferro- silicon	(3) Liquid carbon dioxide
1889	0	.0	0	0	0	0	0	0	0	0	0	0
1890	0	.0	0	0	0	0	0	0	0	0	0	0
1891	0	.0	0	0	0	0	0	0	0	0	0	0
1892	0	.0	0	0	0	0	0	0	0	0	0	0
1893	0	.0	0	0	0	0	0	0	0	0	0	0
1894	0	.0	0	0	0	0	0	0	0	0	0	0
1895	0	.0	0	0	0	0	0	0	0	0	0	0
1896	0	.0	0	0	0	0	0	0	0	0	0	0
1897	0	.0	0	0	0	0	0	0	0	0	0	0
1898	0	.0	0	0	0	0	0	0	0	0	0	0
1899	0	.0	0	0	0	0	0	0	0	0	0	0
1900	0	.0	0	0	0	0	0	0	0	0	0	0
1901	0	.0	0	0	0	0	0	0	0	0	0	0
1902	0	.0	0	0	0	0	0	0	0	0	0	0
1903	0	.0	0	2,500	5,000	0	0	0	0	0	0	0
1904	0	.0	0	2,200	5,000	0	0	0	0	0	0	0
1905	0	.0	0	2,200	5,000	0	0	0	0	3	0	0
1906	0	.0	0	1,700	3,700	0	0	0	0	1,200	0	0
1907	0	7.0	75	2,300	4,500	0	220	50	0	1,500	175	0
1908	0	7.0	102	2,715	5,761	0	217	8	1,669	3,000	808	0
1909	0	11.2	60	2,709	5,580	0	147	0	2,516	3,500	606	90
1910	95	6.2	184	3,078	4,946	0	203	47	1,106	896	1,190	190
1911	672	.0	128	3,341	5,223	0	197	23	0	0	418	150
1912	927	.0	160	3,514	4,123	0	183	123	550	0	0	110
1913	749	.0	143	3,193	4,166	185	183	70	550	0	190	125

Source: see text.

Appendix D  
Regional Production: Other Inorganic Chemicals, 1861-1913<sup>a</sup> (tons)

	Piedmont									*
	(1)	(2)	(4)	(9)	(11)	(12)	(13)	(15)	(16)	
	Refined sulfur	Sulfur dust	Aluminum sulfate	Copper sulfate	Hydrogen peroxide	Ferrous sulfate	Nitrated lead oxide	Mag-nesium sulfate	Potassium dichro-mate	
1861	0	0	0	0	0	312	0	160	0	
1862	0	0	0	0	0	312	0	160	0	
1863	0	0	0	0	0	312	0	160	0	
1864	0	0	0	0	0	312	0	160	0	
1865	0	0	0	0	0	312	0	160	0	
1866	0	0	0	0	0	352	0	160	0	
1867	0	0	0	0	0	392	0	181	0	
1868	0	0	0	0	0	433	0	202	0	
1869	0	0	0	0	0	476	0	222	0	
1870	0	0	0	0	0	519	0	242	0	
1871	0	0	0	0	0	529	0	261	0	
1872	0	0	0	0	0	540	0	280	0	
1873	0	0	0	0	0	551	0	298	0	
1874	0	0	0	0	0	563	0	316	0	
1875	0	0	0	0	0	550	0	334	0	
1876	0	0	0	0	0	562	0	351	0	
1877	0	0	0	0	0	573	0	368	0	
1878	0	0	0	0	0	585	0	384	0	
1879	0	0	0	0	0	597	0	400	0	
1880	0	0	0	0	0	656	0	400	0	
1881	0	0	0	0	0	720	0	400	0	
1882	0	0	0	0	0	790	0	400	0	
1883	0	0	0	0	0	809	0	400	0	
1884	0	0	0	0	0	831	0	400	0	
1885	0	0	0	1	0	887	0	400	0	
1886	100	0	0	1	0	918	0	400	0	
1887	175	0	0	3	0	953	0	376	0	
1888	960	0	0	6	0	1,518	0	437	0	
1889	900	0	150	12	0	367	0	688	0	
1890	0	800	0	16	0	320	0	742	0	
1891	0	800	0	16	0	310	0	815	0	
1892	0	0	0	8	0	263	0	831	0	
1893	0	100	0	10	0	289	0	706	0	
1894	0	100	0	430	0	574	0	1,050	0	
1895	0	100	0	410	0	390	0	955	0	
1896	0	200	0	510	150	170	0	864	0	
1897	0	300	0	744	40	309	6	1,120	0	
1898	0	400	0	683	15	421	10	1,242	0	
1899	0	300	0	502	0	352	10	1,294	0	
1900	0	3,300	0	729	0	395	16	1,497	0	
1901	0	5,000	0	1,200	0	204	17	1,480	0	
1902	0	3,700	0	1,181	0	187	0	1,360	0	
1903	0	700	0	1,336	0	165	9	1,052	0	
1904	0	1,200	0	1,728	0	164	22	1,392	0	
1905	0	2,200	0	6,178	0	197	53	1,560	0	
1906	0	1,600	0	8,167	0	230	53	1,510	0	
1907	0	2,000	0	8,795	0	660	6	1,435	0	
1908	0	1,300	0	10,104	0	560	0	1,590	0	
1909	0	1,900	0	11,541	0	260	0	1,540	0	
1910	0	1,900	0	11,021	0	521	0	1,020	0	
1911	0	2,400	0	12,049	0	190	0	502	0	
1912	0	2,400	0	22,179	0	650	0	621	0	
1913	0	2,300	0	29,312	0	320	0	815	100	

<sup>a</sup>To conserve space the null columns and regions (Basilicata) are not reported.

## Appendix D, cont.

	Piedmont (cont.)							Liguria *	
	(19)	(20)	(24)	(25)	(26)	(27)	(29)	(1)	(2)
	Soda crystals	Sodium dichro- mate	Sodium sulfate	Glauber's salt	Sodium bi- sulfite	Sodium thio- sulfate	Zinc salts	Refined sulfur	Sulfur dust
1861	0	0	0	0	0	0	0	0	300
1862	0	0	0	0	0	0	0	0	300
1863	0	0	0	0	0	0	0	0	300
1864	0	0	0	0	0	0	0	0	300
1865	0	0	0	0	0	0	0	0	400
1866	0	0	0	0	0	0	0	0	400
1867	0	0	0	0	0	0	0	0	400
1868	0	0	0	0	0	0	0	0	400
1869	0	0	0	0	0	0	0	0	500
1870	0	0	3	0	0	0	0	0	500
1871	0	0	3	0	0	0	0	0	500
1872	0	0	3	0	0	0	0	0	600
1873	0	0	3	0	0	0	0	0	600
1874	0	0	6	0	0	0	0	0	700
1875	0	0	9	3	0	0	0	0	700
1876	0	0	12	3	0	0	0	0	800
1877	0	0	15	3	0	0	0	0	900
1878	0	0	21	3	0	0	0	0	900
1879	0	0	30	6	0	0	0	0	1,000
1880	0	0	64	12	0	0	0	0	1,100
1881	0	0	96	18	0	0	0	0	1,100
1882	0	0	140	23	0	0	0	0	1,200
1883	0	0	174	29	0	0	0	0	1,300
1884	0	0	226	52	0	0	0	500	1,400
1885	0	0	283	61	0	0	0	1,000	1,500
1886	0	0	324	69	0	0	0	500	2,000
1887	0	0	390	77	0	0	0	0	2,600
1888	0	0	795	140	0	0	0	0	3,200
1889	320	0	913	174	0	0	0	0	3,700
1890	480	0	798	166	0	0	0	0	4,300
1891	250	0	1,503	301	0	0	0	0	4,900
1892	0	0	1,649	330	0	0	0	0	5,400
1893	0	0	2,070	0	0	0	0	0	6,000
1894	0	0	1,350	600	0	0	0	0	6,600
1895	0	0	1,565	190	0	0	0	0	7,100
1896	0	0	2,252	0	0	0	0	0	7,700
1897	0	9	1,866	1,063	20	0	0	0	8,300
1898	0	7	1,232	897	39	0	0	0	8,800
1899	0	15	1,495	400	31	0	15	0	9,400
1900	0	12	1,484	482	30	0	20	0	10,000
1901	0	3	1,326	906	41	0	5	0	10,500
1902	0	0	1,323	1,291	74	0	3	0	11,100
1903	0	1	1,147	923	172	0	0	0	11,900
1904	0	12	1,614	736	182	0	0	0	12,000
1905	0	0	2,453	898	160	10	0	0	12,000
1906	0	0	2,613	1,100	140	50	0	0	12,000
1907	0	0	2,770	900	198	90	0	0	12,000
1908	0	0	2,890	850	282	80	0	0	16,100
1909	0	0	3,252	1,050	200	72	0	0	16,700
1910	0	0	3,355	840	217	134	0	0	16,700
1911	0	0	3,468	710	343	105	0	0	17,000
1912	0	0	3,631	900	237	90	0	0	17,400
1913	0	300	4,166	1,700	497	120	0	0	17,200

Appendix D, cont.

Liguria (cont.)										*
(9)	(13)	(16)	(17)	(19)	(20)	(22)	(23)	(24)		
Copper sulfate	Nitrated lead oxide	Potassium dichromate	Salt-petre	Soda crystals	Sodium dichromate	Solid sodium silicate	Liquid sodium silicate	Sodium sulfate		
1861	0	0	0	320	150	0	0	0	0	0
1862	0	0	0	240	150	0	0	0	0	0
1863	0	0	0	200	150	0	0	0	0	0
1864	0	0	0	220	150	0	0	0	0	0
1865	0	0	0	200	150	0	0	0	0	0
1866	0	0	0	229	100	0	0	0	0	0
1867	0	0	0	194	50	0	0	0	0	0
1868	0	0	0	134	0	0	0	0	0	0
1869	0	0	0	115	0	0	0	0	0	0
1870	0	0	0	24	0	0	0	0	0	0
1871	0	0	0	148	0	0	0	0	0	0
1872	0	0	0	229	0	0	0	0	0	0
1873	0	0	0	183	0	0	0	0	0	0
1874	0	0	0	135	0	0	0	0	0	0
1875	0	0	0	111	0	0	0	0	0	0
1876	0	0	0	285	0	0	0	0	0	0
1877	0	0	0	293	0	0	0	0	0	0
1878	0	0	0	331	0	0	0	0	0	0
1879	0	0	0	339	0	0	0	0	0	0
1880	0	0	0	506	0	0	0	0	0	0
1881	0	0	0	745	0	0	0	0	0	0
1882	0	0	0	763	0	0	0	0	0	0
1883	0	0	0	882	0	0	0	0	0	0
1884	0	0	0	763	0	0	0	0	0	0
1885	0	0	0	887	0	0	0	0	0	0
1886	0	0	0	1,015	0	0	0	0	0	0
1887	0	0	0	1,074	0	0	0	0	0	0
1888	0	0	0	1,134	0	0	0	0	0	0
1889	0	0	0	810	0	0	0	0	0	0
1890	0	0	0	866	0	0	0	0	0	0
1891	0	0	0	883	0	0	76	200	0	0
1892	0	0	0	1,227	0	0	152	400	0	0
1893	0	0	0	1,000	0	0	228	1,000	0	0
1894	0	0	0	800	0	0	228	1,400	0	0
1895	0	0	0	750	0	0	84	1,421	0	0
1896	565	0	0	800	0	0	84	1,821	0	0
1897	952	0	0	1,500	0	0	210	2,553	0	0
1898	668	0	170	850	0	800	210	2,953	0	0
1899	670	0	195	900	0	820	154	3,204	0	0
1900	945	0	175	1,500	0	690	160	3,620	0	0
1901	1,538	0	262	1,600	0	493	160	4,020	0	0
1902	1,317	0	290	1,000	0	650	163	4,297	0	0
1903	2,512	0	260	1,200	0	670	166	4,375	0	0
1904	2,164	0	303	1,500	0	600	166	4,375	400	0
1905	2,917	0	300	1,800	1,500	610	100	2,625	500	0
1906	4,704	0	320	1,800	1,500	540	100	2,625	600	0
1907	9,926	80	210	2,000	1,500	590	100	2,625	600	0
1908	9,785	0	200	1,900	1,500	600	105	2,775	650	0
1909	3,613	0	260	1,900	1,200	410	138	3,625	700	0
1910	3,298	0	342	1,500	1,650	476	133	3,500	815	0
1911	9,550	0	487	1,500	2,150	422	105	2,750	764	0
1912	5,000	0	386	1,600	2,320	422	90	2,380	820	0
1913	3,700	0	429	1,600	3,090	494	76	1,988	1,000	0



## Appendix D, cont.

	Liguria (cont.)		Lombardy							*
	(25)	(29)	(2)	(3)	(4)	(5)	(9)	(10)	(11)	
	Glauber's salt	Zinc salts	Sulfur dust	Alum	Aluminum sulfate	Arsenic anhydride	Copper sulfate	Hydrofluoric acid	Hydrogen peroxide	
1861	0	0	0	0	0	0	0	0	0	
1862	0	0	0	0	0	0	0	0	0	
1863	0	0	0	0	0	0	0	0	0	
1864	0	0	0	0	0	0	0	0	0	
1865	0	0	0	0	0	0	0	0	0	
1866	0	0	0	0	0	0	0	0	0	
1867	0	0	0	0	0	0	0	0	0	
1868	0	0	0	0	0	0	0	0	0	
1869	0	0	0	0	0	0	0	0	0	
1870	0	0	0	0	0	0	0	0	0	
1871	0	0	0	0	0	0	0	0	0	
1872	0	0	0	0	0	0	0	0	0	
1873	0	0	0	0	275	0	0	0	0	
1874	0	0	0	0	437	0	0	0	0	
1875	0	0	0	0	485	0	0	0	0	
1876	0	0	0	0	592	0	0	0	0	
1877	0	0	0	0	237	0	0	0	0	
1878	0	0	0	0	841	0	0	0	0	
1879	0	0	0	0	720	0	0	0	0	
1880	0	0	0	0	750	0	0	0	0	
1881	0	0	0	0	680	0	0	0	0	
1882	0	0	0	0	990	0	0	0	0	
1883	0	0	0	0	990	0	0	0	0	
1884	0	0	0	0	1,000	0	24	0	0	
1885	0	0	0	0	170	0	48	0	0	
1886	0	0	0	0	200	0	120	0	0	
1887	0	0	0	0	1,600	0	241	0	0	
1888	0	0	0	100	1,850	0	482	0	0	
1889	0	0	200	365	1,812	0	964	0	0	
1890	0	0	300	365	1,812	0	1,282	0	0	
1891	0	0	300	74	1,020	0	1,301	0	0	
1892	0	0	200	600	1,000	0	626	0	0	
1893	0	0	0	600	1,000	0	819	0	0	
1894	0	0	0	170	1,200	0	1,050	0	0	
1895	0	0	0	280	1,500	100	920	0	0	
1896	0	0	0	300	1,050	200	1,250	0	10	
1897	0	0	0	300	1,170	100	1,180	0	141	
1898	0	0	0	400	1,800	100	1,400	0	135	
1899	0	0	0	130	910	120	1,400	0	85	
1900	0	0	0	230	880	120	2,190	0	85	
1901	0	0	0	220	780	0	2,000	0	80	
1902	0	0	0	120	880	0	1,620	0	0	
1903	826	0	0	90	750	0	1,690	0	0	
1904	820	330	0	85	650	0	1,880	0	0	
1905	900	180	0	80	880	0	1,846	0	0	
1906	1,190	430	0	78	900	0	1,500	70	280	
1907	925	430	0	75	910	0	1,460	50	320	
1908	925	530	0	70	650	16	1,150	35	117	
1909	990	330	0	80	1,000	0	1,100	7	160	
1910	1,000	130	0	82	773	0	843	11	300	
1911	1,000	30	0	78	749	0	804	11	300	
1912	667	70	0	47	843	0	1,476	2	130	
1913	999	280	0	47	1,108	0	1,276	2	50	

## Appendix D, cont.

Lombardy (cont.)										*
(12)	(13)	(14)	(15)	(16)	(19)	(21)	(22)	(23)		
Ferrous sulfate	Nitrated lead oxide	Magnesium carbonate	Magnesium sulfate	Potassium dichromate	Soda crystals	Disodium phosphate	Solid sodium silicate	Liquid sodium silicate		
1861	0	0	0	15	0	0	0	0	0	0
1862	0	0	0	15	0	0	0	0	0	0
1863	0	0	0	15	0	0	0	0	0	0
1864	0	0	0	15	0	0	0	0	0	0
1865	0	0	0	15	0	0	0	0	0	0
1866	0	0	0	15	0	75	0	0	0	0
1867	0	0	0	19	0	150	0	0	0	0
1868	0	0	0	23	0	225	0	0	0	0
1869	0	0	0	28	0	250	0	0	0	0
1870	0	0	0	33	0	275	0	0	0	0
1871	0	0	0	39	0	300	0	0	0	0
1872	0	0	0	45	0	325	0	0	0	0
1873	0	0	0	52	0	350	0	0	0	0
1874	0	0	0	59	0	375	0	0	0	0
1875	0	0	0	66	0	400	0	0	0	0
1876	0	0	0	74	0	425	0	0	0	0
1877	0	0	0	82	0	450	0	0	0	0
1878	0	0	0	91	0	475	0	0	0	0
1879	0	0	0	100	0	500	0	0	0	0
1880	0	0	0	80	0	500	0	0	0	0
1881	0	0	0	60	0	500	0	0	0	0
1882	0	0	0	40	0	500	0	0	0	0
1883	40	0	0	29	0	500	0	0	0	0
1884	80	0	0	0	0	500	0	0	0	0
1885	120	0	0	0	0	500	0	0	0	0
1886	160	0	0	0	0	500	0	0	0	0
1887	200	6	0	0	0	500	0	0	0	0
1888	225	40	0	0	0	1,100	0	0	0	0
1889	250	35	0	0	0	500	0	50	100	0
1890	275	35	0	0	0	500	0	250	500	0
1891	300	35	0	0	0	2,033	25	500	1,000	0
1892	325	35	0	0	0	2,400	30	750	1,600	0
1893	350	30	0	0	0	2,767	35	901	1,950	0
1894	1,200	50	0	0	0	3,133	40	822	1,174	0
1895	700	40	0	0	0	3,500	45	418	825	0
1896	780	90	0	0	0	3,500	50	274	2,741	0
1897	900	74	0	0	0	3,000	0	0	1,925	0
1898	1,120	450	0	0	0	2,500	0	0	2,063	0
1899	838	20	0	0	0	2,000	0	0	2,166	0
1900	593	25	0	0	0	1,500	0	0	2,153	0
1901	594	5	100	18	0	1,000	0	0	2,153	0
1902	844	3	120	18	0	500	0	0	2,153	0
1903	600	2	120	18	0	0	0	0	2,153	0
1904	590	3	120	18	0	0	0	0	2,153	0
1905	645	1	120	18	0	30	0	0	2,153	0
1906	633	15	120	90	0	30	210	0	2,153	0
1907	650	20	120	450	0	380	300	107	2,434	0
1908	620	20	120	450	0	325	95	118	2,462	0
1909	686	20	120	400	0	25	20	118	2,462	0
1910	498	58	700	980	33	0	384	128	2,491	0
1911	288	58	310	950	33	0	369	128	2,491	0
1912	213	27	250	1,496	0	0	94	116	2,458	0
1913	84	27	120	1,040	0	0	94	165	2,586	0

## Appendix D, cont.

	Lombardy (cont.)						Venetia *		
	(24)	(25)	(26)	(27)	(28)	(29)	(1)	(2)	(3)
	Sodium sulfate	Glauber's salt	Sodium bi-sulfite	Sodium thio-sulfate	Pink-salt	Zinc salts	Refined sulfur	Sulfur dust	Alum
1861	0	0	0	0	0	0	30	1,800	0
1862	0	0	0	0	0	0	36	1,900	0
1863	0	0	0	0	0	0	59	2,100	0
1864	0	0	0	0	0	0	68	2,200	0
1865	0	0	0	0	0	0	40	2,400	0
1866	0	0	0	0	0	0	40	2,600	0
1867	0	0	0	0	0	0	40	2,800	0
1868	0	0	0	0	0	0	40	3,000	0
1869	0	0	0	0	0	0	40	3,200	0
1870	4	0	0	0	0	0	40	3,500	0
1871	4	0	0	0	0	0	40	3,700	0
1872	4	0	0	0	0	0	40	3,900	0
1873	4	0	0	0	0	0	40	4,200	0
1874	8	0	0	0	0	0	40	4,500	0
1875	12	4	0	0	0	0	40	4,900	0
1876	16	4	0	0	0	0	40	5,300	0
1877	20	4	0	0	0	0	40	5,700	0
1878	28	4	0	0	0	0	40	6,100	0
1879	40	8	0	0	0	0	40	6,500	0
1880	87	16	0	0	0	0	40	7,000	0
1881	132	24	0	0	0	0	4,400	7,500	0
1882	192	32	0	0	0	0	8,800	8,100	0
1883	240	40	0	0	0	0	13,200	8,700	0
1884	312	72	0	0	0	0	17,100	9,300	0
1885	392	84	0	0	0	0	21,000	10,000	0
1886	448	96	0	0	0	0	23,000	10,000	0
1887	540	107	0	0	0	0	25,000	10,000	0
1888	708	125	0	0	0	0	12,500	5,000	0
1889	891	170	0	0	0	0	7,700	2,600	0
1890	992	207	0	0	50	0	6,200	3,600	84
1891	1,155	231	0	0	100	0	13,100	10,000	230
1892	1,428	286	0	0	150	0	9,605	6,100	400
1893	1,300	650	0	0	200	0	11,500	7,300	400
1894	4,600	200	0	0	250	0	10,684	8,400	400
1895	4,660	600	0	0	300	0	9,100	7,900	180
1896	2,740	1,080	0	0	350	0	10,189	9,100	50
1897	2,700	1,100	0	0	350	0	11,112	7,700	50
1898	3,300	1,800	0	0	340	0	9,800	8,100	0
1899	2,460	1,140	0	0	340	0	11,945	9,200	0
1900	2,590	1,190	0	0	320	2	12,930	9,000	0
1901	2,533	1,180	0	0	310	1	9,170	6,100	0
1902	2,360	1,230	0	0	310	0	4,210	3,500	0
1903	2,980	1,280	0	0	280	0	4,300	3,700	0
1904	3,540	1,450	0	0	250	0	7,000	4,300	0
1905	3,880	1,450	0	0	250	0	1,000	4,000	0
1906	3,890	2,200	520	85	200	0	2,000	4,000	0
1907	5,080	3,950	530	165	200	0	2,059	2,300	300
1908	4,877	4,297	420	135	195	0	2,200	2,000	45
1909	4,300	4,370	270	155	198	0	2,564	1,700	50
1910	5,136	3,829	752	155	76	0	2,783	2,300	300
1911	5,749	3,413	235	16	14	0	3,309	2,700	300
1912	9,038	2,000	406	86	14	0	2,994	3,300	300
1913	7,136	1,999	350	160	14	0	2,542	3,200	2

## Appendix D, cont.

Venetia (cont.)										*
(4)	(9)	(11)	(12)	(14)	(15)	(19)	(21)	(24)		
Aluminum sulfate	Copper sulfate	Hydrogen peroxide	Ferrous sulfate	Magnesium carbonate	Magnesium sulfate	Soda crystals	Disodium phosphate	Sodium sulfate		
1861	0	0	0	1,249	0	0	0	0	0	0
1862	0	0	0	831	0	0	0	0	0	0
1863	0	0	0	651	0	0	0	0	0	0
1864	0	0	0	809	0	0	0	0	0	0
1865	0	0	0	754	0	0	0	0	0	0
1866	0	0	0	838	0	0	0	0	0	0
1867	0	0	0	922	0	0	0	0	0	0
1868	0	0	0	1,005	0	0	0	0	0	0
1869	0	0	0	1,087	0	0	0	0	0	0
1870	0	0	0	1,169	0	0	0	0	0	0
1871	0	0	0	1,178	0	0	0	0	0	0
1872	0	0	0	1,186	0	0	0	0	0	0
1873	0	0	0	1,194	0	0	0	0	0	0
1874	0	0	0	1,202	0	0	0	0	0	0
1875	0	0	0	1,160	0	0	0	0	0	0
1876	0	0	0	1,168	0	0	0	0	0	0
1877	0	0	0	1,177	0	0	0	0	0	0
1878	0	0	0	1,185	0	0	0	0	0	0
1879	0	0	0	1,194	0	0	0	0	0	0
1880	0	0	0	1,251	0	10	0	0	0	0
1881	0	0	0	1,311	0	20	0	0	0	0
1882	0	0	0	1,372	0	30	0	0	0	0
1883	0	0	0	1,342	0	36	0	0	0	0
1884	0	9	0	1,318	0	50	0	0	0	0
1885	0	18	0	1,345	0	50	0	0	0	0
1886	0	44	0	1,331	0	50	0	0	0	0
1887	180	88	0	1,323	0	62	0	0	0	0
1888	500	177	0	1,325	0	82	0	0	0	0
1889	240	353	5	1,117	0	81	1,300	0	0	0
1890	311	469	11	1,172	0	104	1,667	0	244	244
1891	327	477	15	1,030	0	100	270	0	316	316
1892	600	229	35	878	25	169	235	0	330	330
1893	600	300	60	531	50	250	200	0	400	400
1894	600	500	60	328	60	250	200	0	400	400
1895	400	220	125	470	60	200	120	4	0	0
1896	400	300	200	270	60	120	100	12	150	150
1897	400	400	250	400	60	100	100	20	180	180
1898	400	990	800	97	80	100	0	210	220	220
1899	600	1,600	960	0	63	30	260	320	0	0
1900	610	3,760	1,000	0	80	25	200	300	0	0
1901	620	4,590	850	0	85	20	150	250	0	0
1902	620	4,400	810	0	88	0	0	230	0	0
1903	680	5,718	870	120	90	0	150	280	350	350
1904	800	5,999	400	327	90	0	120	280	341	341
1905	980	8,256	420	375	90	0	300	250	404	404
1906	1,100	9,072	420	401	90	0	270	280	95	95
1907	1,200	11,572	460	436	90	150	270	300	95	95
1908	600	9,424	229	396	100	40	275	51	901	901
1909	650	5,500	200	235	90	60	0	60	700	700
1910	1,100	13,000	300	685	90	200	70	300	1,480	1,480
1911	1,100	13,000	300	35	90	200	70	300	1,480	1,480
1912	1,100	13,000	300	680	90	200	80	300	90	90
1913	1,100	1,000	0	10	90	2	90	30	1,500	1,500

## Appendix D, cont.

	Venetia (cont.)		Emilia				Tuscany			*
	(25)	(26)	(1)	(2)	(9)	(12)	(2)	(3)	(4)	
	Glauber's salt	Sodium bi- sulfite	Refined sulfur	Sulfur dust	Copper sulfate	Ferrous sulfate	Sulfur dust	Alum	Aluminum sulfate	
1861	0	0	2,550	3,100	0	50	0	150	0	
1862	0	0	2,389	3,300	0	50	0	130	0	
1863	0	0	3,313	3,600	0	50	0	137	0	
1864	0	0	3,502	3,800	0	50	0	137	0	
1865	0	0	3,799	4,100	0	50	0	138	0	
1866	0	0	3,743	4,400	0	40	0	68	0	
1867	0	0	4,560	4,700	0	30	0	105	0	
1868	0	0	6,142	5,100	0	20	0	137	0	
1869	0	0	9,202	5,400	0	10	0	85	0	
1870	0	0	11,050	5,900	0	0	0	77	0	
1871	0	0	10,680	6,200	0	0	0	70	0	
1872	0	0	8,415	6,700	0	0	0	92	0	
1873	0	0	12,577	7,200	0	0	0	94	0	
1874	0	0	18,950	7,700	0	0	0	0	0	
1875	0	0	17,457	8,300	0	0	0	0	0	
1876	0	0	20,241	9,000	0	0	0	0	0	
1877	0	0	25,081	9,600	0	0	0	0	0	
1878	0	0	29,690	10,300	0	0	0	0	0	
1879	0	0	24,820	11,100	0	0	0	0	0	
1880	0	0	22,726	11,900	0	0	0	0	0	
1881	0	0	22,422	12,800	0	0	0	0	0	
1882	0	0	16,938	13,700	0	0	0	0	0	
1883	0	0	19,553	14,700	0	0	0	0	0	
1884	0	0	19,466	15,900	0	0	0	0	0	
1885	0	0	19,288	17,000	0	0	0	0	0	
1886	0	0	14,856	14,800	0	0	0	0	0	
1887	0	0	21,158	16,700	0	0	0	0	0	
1888	0	0	25,612	18,700	0	0	0	0	0	
1889	0	0	17,506	12,900	0	0	0	0	0	
1890	51	0	13,523	13,200	0	0	0	0	0	
1891	63	0	16,253	13,300	0	0	0	0	0	
1892	65	0	14,994	13,400	0	0	0	0	0	
1893	0	0	15,212	14,400	0	0	0	0	150	
1894	0	0	14,563	14,300	0	0	0	0	200	
1895	0	0	12,205	14,700	0	0	0	0	200	
1896	0	0	13,446	13,300	0	0	0	0	0	
1897	0	0	14,156	16,800	0	0	0	0	0	
1898	0	0	14,266	16,200	0	0	0	0	0	
1899	0	0	14,913	18,900	0	0	0	0	0	
1900	0	0	16,328	19,600	0	0	0	0	0	
1901	0	0	15,745	19,800	0	0	0	0	0	
1902	0	0	11,554	14,800	0	0	100	0	0	
1903	0	0	11,420	14,800	0	0	100	0	0	
1904	0	0	13,185	17,100	0	0	0	0	0	
1905	0	150	16,340	19,300	0	0	0	0	0	
1906	370	260	16,840	16,900	200	0	0	0	0	
1907	0	300	14,730	17,700	200	0	0	0	0	
1908	0	107	15,720	18,000	0	0	0	0	0	
1909	0	120	16,332	16,800	0	0	0	0	0	
1910	0	400	17,241	17,400	0	0	0	0	0	
1911	0	400	18,857	18,600	0	0	0	0	0	
1912	1,400	0	16,630	17,400	0	0	0	0	0	
1913	0	40	20,490	21,300	0	0	0	0	0	

## Appendix D, cont.

Tuscany (cont.)										*
(6)	(7)	(8)	(9)	(11)	(12)	(13)	(15)	(17)		
Borax	Refined boric acid	Carbon disulfide	Copper sulfate	Hydrogen peroxide	Ferrous sulfate	Nitrated lead oxide	Mag-nesium sulfate	Salt-petre		
1861	0	0	0	0	0	0	0	0	640	
1862	0	0	0	0	0	0	0	0	480	
1863	0	0	0	0	0	0	0	0	400	
1864	0	0	0	0	0	0	0	0	440	
1865	0	0	0	0	0	0	0	0	400	
1866	0	0	0	0	0	0	0	0	436	
1867	0	0	0	0	0	0	0	0	353	
1868	0	0	0	0	0	0	0	0	233	
1869	0	0	0	0	0	0	0	0	192	
1870	0	0	0	0	0	0	0	0	38	
1871	0	0	0	0	0	0	0	0	226	
1872	0	0	0	0	0	0	0	0	336	
1873	0	0	0	0	0	0	0	0	258	
1874	0	0	0	0	0	0	0	0	183	
1875	0	0	0	0	0	75	0	0	145	
1876	0	0	30	0	0	75	0	0	357	
1877	0	0	60	0	0	75	0	0	354	
1878	0	0	90	0	0	75	0	0	385	
1879	0	0	120	0	0	75	0	0	380	
1880	0	0	150	0	0	75	0	10	547	
1881	0	0	187	0	0	75	0	20	778	
1882	0	0	230	0	0	75	0	30	769	
1883	0	0	282	0	0	75	0	36	859	
1884	0	0	341	15	0	75	0	50	718	
1885	0	0	407	29	0	0	0	50	807	
1886	400	0	479	74	0	0	0	50	893	
1887	600	0	550	147	0	0	0	62	913	
1888	700	50	550	294	0	45	0	82	933	
1889	1,100	50	545	588	0	90	0	81	645	
1890	950	50	539	782	0	135	0	104	667	
1891	2,056	50	527	794	0	180	0	135	659	
1892	1,471	50	514	382	0	225	0	150	887	
1893	1,099	87	500	500	0	175	0	150	700	
1894	1,141	170	525	900	0	215	0	150	450	
1895	944	253	650	1,500	27	215	0	150	375	
1896	944	253	600	2,036	100	215	0	150	300	
1897	990	260	600	2,060	80	200	0	150	0	
1898	702	166	600	2,542	100	215	0	150	275	
1899	710	129	600	3,542	250	315	0	200	450	
1900	858	284	600	4,059	350	315	0	200	200	
1901	544	347	600	4,288	400	315	0	200	200	
1902	375	239	120	4,283	600	315	0	300	450	
1903	377	187	120	4,358	500	315	0	300	450	
1904	569	314	340	5,336	500	315	0	300	250	
1905	1,007	749	335	6,183	800	315	0	300	150	
1906	1,062	562	335	7,796	800	315	0	300	150	
1907	881	466	335	8,124	1,000	315	0	300	50	
1908	1,025	429	350	7,646	1,100	315	0	300	150	
1909	1,110	578	520	5,797	1,200	675	0	400	150	
1910	912	695	550	4,807	1,550	650	0	400	250	
1911	738	444	590	5,858	1,650	650	0	400	300	
1912	813	760	500	7,297	1,450	650	2	400	200	
1913	1,071	743	500	6,280	1,150	650	6	400	250	

## Appendix D, cont.

	Tuscany (cont.)					Marches		Umbria	Latium *
	(18)	(19)	(24)	(25)	(29)	(1)	(2)	(27) Sodium thio- sulfate	(3) Alum
	Calcined soda	Soda crystals	Sodium sulfate	Glauber's salt	Zinc salts	Refined sulfur	Sulfur dust		
1861	0	0	0	0	0	3,279	1,600	0	575
1862	0	0	0	0	0	3,072	1,700	0	575
1863	0	0	0	0	0	4,258	1,900	0	575
1864	0	0	0	0	0	4,502	2,000	0	575
1865	0	0	0	0	0	4,883	2,200	0	575
1866	0	0	0	0	0	4,338	2,300	0	575
1867	0	0	0	0	0	4,779	2,500	0	575
1868	0	0	0	0	0	5,829	2,700	0	575
1869	0	0	0	0	0	7,912	2,900	0	575
1870	0	0	91	0	0	8,605	3,100	0	575
1871	0	0	91	0	0	7,528	3,300	0	575
1872	100	0	91	0	0	5,359	3,500	0	575
1873	300	0	91	0	0	7,219	3,800	0	575
1874	500	0	182	0	0	9,767	4,100	0	401
1875	700	0	273	91	0	8,040	4,400	0	401
1876	900	0	364	91	0	8,279	4,800	0	129
1877	1,100	0	455	91	0	9,037	5,100	0	2,050
1878	1,300	0	637	91	0	9,327	5,500	0	2,930
1879	1,500	0	910	182	0	8,153	5,900	0	2,100
1880	1,350	0	939	171	0	7,794	6,300	0	2,985
1881	1,200	0	873	159	0	9,257	6,800	0	3,279
1882	1,050	0	872	145	0	7,008	7,300	0	2,705
1883	900	0	791	132	0	8,894	7,800	0	1,975
1884	750	0	770	178	0	8,109	8,400	0	1,690
1885	600	0	734	157	0	6,207	9,000	0	1,550
1886	450	0	640	137	0	5,638	8,200	0	1,320
1887	300	0	585	116	0	2,852	8,900	0	1,500
1888	0	160	196	35	0	2,967	11,300	0	1,070
1889	0	90	296	56	0	5,222	9,900	0	955
1890	0	180	366	76	10	7,524	11,200	0	795
1891	0	640	526	105	20	7,233	12,400	0	30
1892	0	800	593	119	30	6,961	10,600	0	670
1893	0	500	500	200	30	6,545	9,400	0	695
1894	0	500	560	200	20	6,928	9,800	0	495
1895	0	300	500	200	3	6,924	10,600	0	655
1896	0	0	500	200	3	6,597	12,700	0	500
1897	0	0	500	200	3	10,294	13,400	0	680
1898	0	0	500	200	3	8,628	12,400	0	765
1899	0	0	500	300	40	10,255	14,400	0	815
1900	0	0	500	300	40	12,769	16,900	0	867
1901	0	0	500	300	40	12,246	15,700	0	855
1902	0	0	700	300	50	11,989	13,600	0	3,875
1903	0	0	700	400	50	16,660	17,700	0	3,890
1904	0	0	700	400	5	11,840	17,900	0	2,405
1905	0	0	700	400	5	12,173	16,800	0	2,895
1906	0	0	700	400	5	11,050	14,400	0	2,800
1907	0	0	700	400	0	11,010	14,400	0	2,800
1908	0	0	700	400	0	10,360	13,300	0	2,760
1909	0	0	700	500	0	8,878	13,200	0	2,450
1910	0	0	750	600	0	9,430	13,300	0	2,128
1911	0	0	750	600	0	10,378	13,700	0	2,347
1912	0	0	750	600	0	12,040	15,400	25	952
1913	0	0	750	600	0	11,440	13,500	60	960

## Appendix D, cont.

	Latium (cont.)								Abruzzi
	(4)	(8)	(9)	(12)	(19)	(23)	(24)	(25)	(9)
	Aluminum sulfate	Carbon disulfide	Copper sulfate	Ferrous sulfate	Soda crystals	Liquid sodium silicate	Sodium sulfate	Glauber's salt	Copper sulfate
1861	0	0	0	0	0	0	0	0	0
1862	0	0	0	0	0	0	0	0	0
1863	0	0	0	0	0	0	0	0	0
1864	0	0	0	0	0	0	0	0	0
1865	0	0	0	0	0	0	0	0	0
1866	0	0	0	0	0	0	0	0	0
1867	0	0	0	0	0	0	0	0	0
1868	0	0	0	0	0	0	0	0	0
1869	0	0	0	0	0	0	0	0	0
1870	0	0	0	0	0	0	2	0	0
1871	0	0	0	0	0	0	2	0	0
1872	0	0	0	0	0	0	2	0	0
1873	0	0	0	0	0	0	2	0	0
1874	0	0	0	0	0	0	4	0	0
1875	0	0	0	0	0	0	6	2	0
1876	0	0	0	0	0	0	8	2	0
1877	0	0	0	0	0	0	10	2	0
1878	0	0	0	0	0	0	14	2	0
1879	0	0	0	0	0	0	20	4	0
1880	58	0	0	0	0	0	10	2	0
1881	286	0	0	0	0	0	0	0	0
1882	440	0	0	0	0	0	0	0	0
1883	280	0	0	0	0	0	0	0	0
1884	780	0	0	0	0	0	0	0	0
1885	460	0	0	0	0	0	0	0	0
1886	240	0	0	0	0	0	0	0	0
1887	200	0	0	0	0	0	0	0	0
1888	210	0	1	0	0	0	0	0	0
1889	180	0	1	0	0	0	0	0	0
1890	160	0	2	0	0	0	0	0	0
1891	220	0	2	0	0	0	0	0	0
1892	210	0	1	0	0	0	0	0	0
1893	210	0	1	0	0	0	0	0	0
1894	380	0	1	0	0	0	0	0	0
1895	830	0	1	0	0	0	0	0	0
1896	910	0	1	0	0	450	0	0	0
1897	740	0	1	0	0	900	0	0	0
1898	715	0	1	0	0	900	0	0	0
1899	820	0	1	0	0	900	0	0	0
1900	913	0	1,501	100	0	1,500	100	0	0
1901	860	0	1,751	100	0	1,500	100	0	0
1902	920	0	1,800	0	0	1,500	100	0	0
1903	780	0	1,800	0	0	1,500	100	0	750
1904	760	0	130	50	60	0	30	0	0
1905	880	0	130	50	60	0	30	0	790
1906	800	0	130	50	60	0	30	0	1,900
1907	900	0	197	50	0	0	30	0	2,000
1908	850	0	0	0	0	0	100	0	1,500
1909	1,100	0	0	0	0	0	90	0	0
1910	900	75	0	0	0	0	120	0	1,312
1911	644	200	0	0	0	0	145	0	765
1912	784	170	0	0	0	0	150	0	1,360
1913	1,100	200	0	0	0	0	150	0	929



## Appendix D, cont.

	Campania									*
	(1)	(2)	(3)	(4)	(9)	(11)	(12)	(24)	(25)	
	Refined sulfur	Sulfur dust	Alum	Aluminum sulfate	Copper sulfate	Hydrogen peroxide	Ferrous sulfate	Sodium sulfate	Glauber's salt	
1861	0	0	1,280	0	0	0	480	0	0	
1862	0	0	1,280	0	0	0	480	0	0	
1863	0	0	1,280	0	0	0	480	0	0	
1864	0	0	1,280	0	0	0	480	0	0	
1865	0	0	1,280	0	0	0	480	0	0	
1866	0	0	1,306	0	0	0	384	0	0	
1867	0	0	1,333	0	0	0	288	0	0	
1868	0	0	1,359	0	0	0	192	0	0	
1869	0	0	1,386	0	0	0	96	0	0	
1870	0	0	1,412	0	0	0	0	0	0	
1871	0	0	1,439	0	0	0	0	0	0	
1872	0	0	1,465	0	0	0	0	0	0	
1873	0	0	1,491	0	0	0	0	0	0	
1874	0	0	1,518	0	0	0	0	0	0	
1875	0	0	1,544	0	0	0	0	0	0	
1876	0	0	1,571	0	0	0	0	0	0	
1877	0	0	1,597	0	0	0	0	0	0	
1878	0	0	1,624	0	0	0	0	0	0	
1879	0	0	1,650	0	0	0	0	0	0	
1880	0	0	1,400	0	0	0	0	0	0	
1881	0	0	1,400	0	0	0	0	0	0	
1882	0	0	1,520	0	0	0	0	0	0	
1883	0	0	1,450	0	0	0	110	0	0	
1884	0	0	1,425	0	2	0	220	0	0	
1885	0	0	1,400	0	4	0	330	0	0	
1886	0	0	4,000	0	10	0	440	0	0	
1887	0	1,500	760	0	21	0	550	0	0	
1888	0	3,000	210	265	41	0	525	0	0	
1889	0	4,500	60	285	82	0	0	0	0	
1890	0	6,000	50	270	110	0	0	0	0	
1891	0	7,500	695	210	111	0	0	0	0	
1892	0	9,000	25	80	54	0	0	0	0	
1893	0	10,500	50	90	70	0	0	0	0	
1894	0	12,000	0	100	100	0	100	30	30	
1895	0	13,500	0	20	100	0	100	40	20	
1896	0	15,000	0	30	95	0	110	50	30	
1897	0	7,700	0	0	0	0	100	200	0	
1898	0	5,900	0	0	80	0	20	500	0	
1899	0	9,000	0	0	80	0	20	400	0	
1900	0	9,200	0	0	7	0	20	400	0	
1901	0	9,300	0	0	7	0	20	400	0	
1902	0	8,000	0	0	0	0	0	300	0	
1903	0	3,900	0	0	0	0	0	298	0	
1904	0	2,800	0	0	0	0	0	300	0	
1905	575	3,300	0	0	0	0	0	345	0	
1906	667	2,000	0	0	900	0	0	720	0	
1907	697	1,700	0	0	3,000	19	0	517	0	
1908	1,592	2,600	0	0	3,000	23	270	480	0	
1909	455	2,100	0	0	1,000	23	180	365	0	
1910	400	2,000	0	0	2,000	23	0	1,574	0	
1911	440	1,600	0	0	1,600	16	0	676	315	
1912	40	1,800	0	0	2,000	16	30	3,000	480	
1913	0	1,800	0	0	2,000	16	500	600	500	

## Appendix D, cont.

	Apulia						Calabria	Sicily *	
	(8)	(12)	(15)	(22)	(23)	(24)	(25)	(8)	(1)
	Carbon disulfide	Ferrous sulfate	Mag-nesium sulfate	Solid sodium silicate	Liquid sodium silicate	Sodium sulfate	Glauber's salt	Carbon disulfide	Refined sulfur
1861	0	0	0	0	0	0	0	0	221
1862	0	0	0	0	0	0	0	0	221
1863	0	0	0	0	0	0	0	0	221
1864	0	0	0	0	0	0	0	0	221
1865	0	0	0	0	0	0	0	0	221
1866	0	0	0	0	0	0	0	0	221
1867	0	0	0	0	0	0	0	0	221
1868	0	0	0	0	0	0	0	0	221
1869	0	0	0	0	0	0	0	0	221
1870	0	0	0	0	0	0	0	0	221
1871	0	0	0	0	0	0	0	0	221
1872	0	0	0	0	0	0	0	0	221
1873	0	0	0	0	0	0	0	0	221
1874	0	0	0	0	0	0	0	0	221
1875	0	0	0	0	0	0	0	0	221
1876	15	0	0	0	0	0	0	1	221
1877	30	0	0	0	0	0	0	2	2,000
1878	45	0	0	0	0	0	0	3	6,000
1879	60	0	0	0	0	0	0	4	10,000
1880	92	0	0	0	0	0	0	5	15,000
1881	138	0	0	0	0	0	0	7	17,550
1882	206	0	0	0	0	0	0	10	17,550
1883	305	0	0	40	105	0	0	13	17,550
1884	447	0	0	80	210	0	0	17	24,750
1885	651	0	0	120	315	0	0	23	37,346
1886	943	0	0	160	420	0	0	30	31,000
1887	1,360	0	0	200	525	0	0	40	25,501
1888	1,230	0	0	216	569	0	0	39	32,435
1889	1,148	0	0	358	941	0	0	20	21,988
1890	1,074	0	0	499	1,313	0	0	0	23,290
1891	993	0	0	438	495	0	0	0	22,810
1892	919	0	0	456	569	0	0	0	27,810
1893	850	0	0	269	707	0	0	0	37,450
1894	940	0	0	347	914	0	0	0	39,120
1895	950	0	0	600	0	33	33	0	47,100
1896	1,500	0	0	600	0	67	67	0	40,840
1897	2,000	0	0	600	0	100	100	0	50,310
1898	2,220	0	0	630	0	400	100	0	66,800
1899	2,220	0	0	630	0	500	100	0	73,100
1900	4,500	0	0	2,000	0	500	100	0	115,930
1901	2,280	0	0	392	1,031	500	100	0	104,270
1902	1,500	0	100	457	1,203	500	0	0	99,730
1903	958	0	0	675	0	340	0	0	107,084
1904	961	0	0	720	0	312	0	222	131,670
1905	961	30	0	720	0	500	0	10	150,686
1906	961	0	0	720	0	400	0	60	140,433
1907	1,800	0	0	684	1,800	800	0	30	132,121
1908	1,500	0	0	834	2,194	900	70	300	127,123
1909	800	100	0	705	1,856	1,000	0	0	116,350
1910	800	0	0	705	1,856	2,376	175	0	139,239
1911	1,430	0	0	675	1,776	600	0	0	133,818
1912	1,430	0	0	850	0	1,500	0	0	136,810
1913	1,430	0	0	850	0	1,500	0	0	117,241

## Appendix D, cont.

	Sicily (cont.)			Sardinia
	(2)	(8)	(17)	(17)
	Sulfur dust	Carbon disulfide	Salt- petre	Salt- petre
1861	12,100	0	427	213
1862	12,800	0	320	160
1863	14,100	0	267	133
1864	14,700	0	294	146
1865	16,000	0	267	133
1866	17,300	0	291	145
1867	18,500	0	236	117
1868	19,800	0	156	77
1869	21,100	0	128	64
1870	23,000	0	25	13
1871	24,300	0	151	75
1872	26,200	0	224	112
1873	28,100	0	172	86
1874	30,100	0	122	61
1875	32,600	0	96	48
1876	35,200	4	239	119
1877	37,700	8	236	118
1878	40,300	12	257	128
1879	43,500	16	254	127
1880	46,700	23	365	182
1881	49,900	32	519	259
1882	53,700	45	513	256
1883	57,500	63	573	286
1884	62,000	88	479	239
1885	66,500	123	538	268
1886	70,500	172	596	297
1887	89,100	240	609	304
1888	40,500	200	623	310
1889	48,500	168	430	215
1890	48,000	139	445	222
1891	78,300	112	439	219
1892	113,000	87	592	295
1893	83,300	66	467	233
1894	77,900	228	300	150
1895	78,100	276	250	125
1896	73,800	298	200	100
1897	79,600	253	0	0
1898	102,400	263	183	92
1899	99,800	263	300	150
1900	105,100	213	133	67
1901	109,400	76	133	67
1902	91,000	146	300	150
1903	119,200	920	300	150
1904	129,100	1,000	167	83
1905	118,000	1,000	100	50
1906	116,900	900	100	50
1907	101,900	1,500	33	17
1908	108,600	1,400	100	50
1909	100,300	730	100	50
1910	116,700	800	167	83
1911	123,000	1,060	200	100
1912	127,100	1,131	133	67
1913	116,900	1,190	167	83

Source: see text.

Appendix E  
Regional Production: Coal and Petroleum Products, 1861-1913<sup>a</sup> (tons)

	Piedmont			Liguria			Lombardy			*
	(1) Refinery products	(2) Bri- quettes	(4) Arti- ficial asphalt	(1) Refinery products	(2) Bri- quettes	(3) Metal- lurgical coke	(1) Refinery products	(2) Bri- quettes	(6) Asphalt mastic	
1861	720	0	700	0	20,000	11,300	0	0	120	
1862	720	0	700	0	20,000	11,300	0	0	120	
1863	720	0	700	0	20,000	11,300	0	0	120	
1864	720	0	700	0	20,000	11,300	0	0	120	
1865	720	0	700	0	20,000	11,300	0	0	120	
1866	720	0	700	0	1,463	10,000	0	0	120	
1867	694	0	700	59	2,905	8,000	0	0	120	
1868	613	0	600	66	4,991	6,000	0	0	120	
1869	538	0	600	74	7,720	4,000	0	0	120	
1870	467	0	500	83	10,425	2,000	0	0	120	
1871	400	0	500	92	13,771	0	0	0	120	
1872	337	0	400	103	17,758	0	0	0	120	
1873	279	0	400	115	22,384	0	0	0	120	
1874	224	0	300	128	27,648	0	0	0	120	
1875	173	0	300	143	33,549	0	0	0	120	
1876	125	0	200	160	40,753	0	0	0	0	
1877	80	0	100	178	48,591	0	0	0	0	
1878	39	0	100	199	58,397	0	0	0	0	
1879	0	0	0	221	34,750	0	0	0	0	
1880	14	8,999	0	230	33,640	0	0	146	0	
1881	30	18,648	0	239	32,565	0	0	303	0	
1882	48	30,000	0	246	31,524	0	1	488	0	
1883	68	42,356	0	254	30,517	0	1	689	0	
1884	91	56,420	0	261	29,542	0	1	918	0	
1885	116	72,193	0	268	28,598	0	2	1,175	0	
1886	145	90,380	0	275	27,685	0	2	1,470	0	
1887	176	110,637	0	281	26,800	0	3	1,800	0	
1888	212	150,000	0	288	49,600	0	3	1,800	0	
1889	252	180,000	0	293	25,500	0	4	1,700	0	
1890	296	200,000	0	299	25,000	0	4	1,900	0	
1891	346	200,000	0	413	34,200	0	5	1,900	0	
1892	401	210,000	0	266	36,200	0	6	4,000	0	
1893	463	120,000	0	245	23,200	0	7	7,000	0	
1894	532	120,000	0	246	17,170	0	8	16,300	0	
1895	610	118,000	0	248	15,770	0	9	2,300	0	
1896	696	132,000	0	250	17,500	0	11	2,400	0	
1897	793	200,000	0	12	22,000	0	252	2,700	0	
1898	2,555	240,000	0	37	26,000	0	277	2,800	0	
1899	2,555	200,000	0	0	26,000	0	486	2,800	0	
1900	3,416	220,000	0	133	28,200	15,600	646	2,950	0	
1901	1,680	220,000	0	150	30,400	25,000	0	1,700	0	
1902	980	96,500	0	250	37,000	30,000	268	1,300	0	
1903	730	96,500	0	150	29,800	21,000	356	1,295	0	
1904	1,200	290,000	0	180	42,000	30,000	325	1,600	0	
1905	2,585	263,000	0	200	48,000	36,000	510	1,200	0	
1906	798	229,817	0	200	46,000	38,000	884	650	0	
1907	284	227,417	0	200	46,500	35,000	795	700	0	
1908	439	259,200	0	300	39,000	60,000	2,111	720	0	
1909	226	257,000	0	300	74,600	50,000	1,995	700	0	
1910	176	257,000	0	200	75,380	45,000	2,621	700	0	
1911	204	300,000	0	300	58,600	60,000	2,587	750	0	
1912	16	285,000	0	860	51,665	60,000	2,392	705	0	
1913	34	270,000	0	360	59,111	45,000	2,132	5,505	0	

<sup>a</sup>To conserve space the null columns and regions (Umbria, Basilicata, Calabria) are not reported.

## Appendix E, cont.

	Venetia				Emilia		Tuscany		*
	(1)	(2)	(4)	(7)	(1)	(2)	(1)	(2)	
	Refinery products	Briquettes	Artificial asphalt	Paving stones	Refinery products	Briquettes	Refinery products	Briquettes	Metal-lurgical coke
1861	0	0	200	200	0	0	0	0	0
1862	0	0	200	200	0	0	0	0	0
1863	0	0	200	200	0	0	0	0	0
1864	0	0	200	200	0	0	0	0	0
1865	0	0	200	200	0	0	0	0	0
1866	0	0	200	200	0	0	0	732	0
1867	0	0	200	200	0	0	0	1,453	0
1868	0	0	200	200	1	0	0	2,496	0
1869	0	0	200	200	1	0	0	3,860	0
1870	0	0	100	200	2	0	0	5,213	0
1871	0	0	100	200	2	0	0	6,886	0
1872	0	0	100	200	3	0	0	8,879	0
1873	0	0	100	200	3	0	0	11,192	0
1874	0	0	100	200	3	0	0	13,824	0
1875	0	0	100	200	4	0	0	16,775	0
1876	0	0	100	0	4	0	0	20,377	0
1877	0	0	0	0	4	0	0	24,296	0
1878	0	0	0	0	5	0	0	29,198	0
1879	0	0	0	0	0	0	0	34,750	0
1880	9	6,345	0	0	30	489	0	33,349	0
1881	18	13,147	0	0	58	1,014	0	32,004	0
1882	26	21,151	0	0	86	1,631	0	30,713	0
1883	34	29,861	0	0	114	2,302	0	29,475	0
1884	41	39,777	0	0	142	3,067	0	28,286	0
1885	48	50,897	0	0	171	3,924	0	27,145	0
1886	54	63,719	0	0	199	4,913	0	26,051	0
1887	60	78,000	0	0	228	6,014	0	25,000	0
1888	66	80,000	0	0	258	13,952	0	30,000	0
1889	71	78,000	0	0	288	13,600	0	30,000	0
1890	76	85,000	0	0	320	12,000	0	30,000	0
1891	81	118,000	0	0	676	12,400	0	30,000	0
1892	54	100,300	0	0	2,156	5,519	0	30,000	0
1893	51	120,350	0	0	2,749	4,740	0	51,322	0
1894	0	76,800	0	0	1,874	585	0	50,000	0
1895	0	76,000	0	0	4,453	0	0	50,000	0
1896	0	65,000	0	0	3,018	0	0	51,750	0
1897	0	80,000	0	0	2,116	1,550	0	51,750	0
1898	0	80,000	0	0	1,969	3,800	0	51,750	0
1899	0	80,000	0	0	2,123	14,800	0	51,750	0
1900	0	80,000	0	0	1,661	17,500	0	135,490	0
1901	0	100,000	0	0	2,128	17,750	0	140,800	0
1902	0	100,000	0	0	2,915	18,250	0	143,300	20,900
1903	0	120,000	0	0	2,562	20,300	0	154,498	65,867
1904	0	120,000	0	0	3,648	21,300	0	74,500	83,201
1905	0	120,000	0	0	5,945	21,200	0	74,500	133,587
1906	0	120,350	0	0	8,328	14,600	0	74,500	128,369
1907	0	122,010	0	0	8,710	31,200	0	66,950	104,716
1908	0	121,164	0	0	7,700	25,200	0	100,000	45,000
1909	5	124,685	0	0	7,426	18,900	0	107,165	200,420
1910	0	122,484	0	0	7,759	24,348	400	104,614	237,800
1911	0	0	0	0	11,320	24,000	390	123,146	178,493
1912	0	75,000	0	0	8,940	20,180	390	121,500	251,171
1913	0	75,000	0	0	6,907	11,260	390	123,700	290,705

## Appendix E, cont.

	Marches		Latium						*	
	(1)	(2)	(1)	(2)	(4)	(5)	(6)	(8)		(9)
	Refinery products	Briquettes	Refinery products	Briquettes	Artificial asphalt	Asphalt powder	Asphalt mastic	Crude bitumen		Refined bitumen
1861	47	0	0	0	0	0	100	0	0	
1862	47	0	0	0	0	0	100	0	0	
1863	47	0	0	0	0	0	100	0	0	
1864	47	0	0	0	0	0	100	0	0	
1865	47	0	0	0	0	0	100	0	0	
1866	47	20,805	0	0	0	0	100	0	0	
1867	45	21,642	0	0	100	0	100	0	0	
1868	40	22,513	0	0	200	0	500	0	0	
1869	35	23,420	0	0	200	0	500	0	0	
1870	30	24,362	0	0	300	0	400	0	0	
1871	26	25,343	0	0	400	0	400	0	0	
1872	22	26,363	0	0	400	0	200	0	0	
1873	18	27,424	0	0	500	0	520	0	0	
1874	15	28,528	0	0	600	0	51	0	0	
1875	11	29,676	0	0	700	0	35	0	0	
1876	8	30,870	0	0	800	0	100	0	0	
1877	5	32,113	0	0	800	0	100	0	0	
1878	3	33,405	0	0	900	0	100	0	0	
1879	0	69,500	0	0	1,100	0	50	0	0	
1880	0	67,402	0	0	1,100	0	450	0	0	
1881	0	65,366	0	0	1,100	0	500	0	0	
1882	0	63,393	0	0	1,100	0	400	0	0	
1883	0	61,479	0	0	1,100	0	233	0	0	
1884	0	59,622	0	0	1,200	0	250	0	0	
1885	0	57,822	0	0	1,200	0	280	0	0	
1886	0	56,076	0	0	1,300	0	500	0	0	
1887	0	54,383	0	0	1,300	0	100	0	0	
1888	0	52,387	0	0	1,400	0	173	0	0	
1889	0	66,600	0	1,700	1,400	0	0	4	4	
1890	0	90,000	0	2,700	1,400	0	152	0	0	
1891	0	98,750	0	14,500	1,500	0	0	0	0	
1892	0	73,500	0	14,500	1,500	0	0	0	0	
1893	0	78,378	0	14,500	1,600	0	0	0	0	
1894	0	96,549	0	4,000	1,600	0	0	0	0	
1895	0	111,760	0	2,500	1,700	0	0	0	0	
1896	0	74,909	0	21,500	1,700	0	0	0	0	
1897	0	66,000	33	32,000	1,800	0	0	0	0	
1898	0	70,000	4	30,800	1,800	0	0	0	0	
1899	0	85,000	2	21,000	1,900	0	0	0	0	
1900	0	100,000	0	33,100	2,000	0	0	0	0	
1901	0	100,000	0	33,200	2,000	0	0	0	0	
1902	0	100,000	12	59,400	2,000	0	0	0	0	
1903	0	90,000	12	39,400	2,100	0	0	0	0	
1904	0	95,000	282	49,400	2,200	0	0	0	0	
1905	0	80,000	282	34,900	2,200	0	0	0	0	
1906	0	80,000	282	51,400	2,200	0	0	0	0	
1907	0	80,000	46	42,000	1,500	2,000	0	0	0	
1908	0	80,000	261	53,815	2,600	997	12	0	0	
1909	0	80,000	135	61,251	8,300	0	0	0	0	
1910	0	81,973	30	67,880	8,600	0	0	0	0	
1911	0	80,000	13	68,280	7,400	0	0	0	0	
1912	0	80,000	13	77,500	6,200	0	0	0	0	
1913	0	80,000	20	81,500	6,000	0	0	0	0	

## Appendix E, cont.

	Abruzzi						Campania *		
	(1)	(5)	(6)	(7)	(8)	(9)	(1)	(2)	(3)
	Refinery products	Asphalt powder	Asphalt mastic	Paving stones	Crude bitumen	Refined bitumen	Refinery products	Briquettes	Metal-lurgical coke
1861	0	0	0	0	0	0	0	0	0
1862	0	0	0	0	0	0	0	0	0
1863	0	0	0	0	0	0	0	0	0
1864	0	0	0	0	0	0	0	0	0
1865	0	0	0	0	0	0	0	0	0
1866	0	0	0	0	0	0	0	0	0
1867	0	0	0	0	0	0	0	0	0
1868	0	0	0	0	0	0	59	0	0
1869	0	0	0	0	0	0	114	0	0
1870	0	0	0	0	0	0	165	0	0
1871	0	0	0	0	0	0	212	0	0
1872	0	0	0	0	0	0	256	0	0
1873	0	0	0	0	0	0	296	0	0
1874	0	0	0	0	0	0	333	0	0
1875	0	0	0	0	0	0	367	0	0
1876	0	0	2,852	0	415	245	398	0	0
1877	0	0	219	0	135	118	426	0	0
1878	0	0	723	0	559	486	452	0	0
1879	0	0	1,320	0	1,020	887	475	0	0
1880	3	0	556	0	430	374	423	3,888	0
1881	6	0	792	0	613	533	374	8,057	0
1882	8	0	190	0	131	72	328	12,962	0
1883	11	0	1,234	0	729	586	285	18,300	0
1884	13	0	5,000	0	749	450	244	24,376	0
1885	15	197	2,698	20	530	360	207	31,191	0
1886	17	205	3,683	123	504	287	172	39,048	0
1887	19	200	3,600	120	493	281	141	47,800	0
1888	21	300	4,100	30	804	543	112	49,060	0
1889	22	201	553	0	106	71	86	49,850	0
1890	24	2,500	3,600	0	900	450	62	53,650	0
1891	36	2,000	3,300	0	580	475	73	55,755	0
1892	16	1,850	4,600	400	750	620	84	58,050	0
1893	16	1,600	5,100	400	480	505	98	60,500	0
1894	0	2,000	4,100	130	493	290	112	63,900	0
1895	6	6,038	6,202	161	658	590	128	29,360	0
1896	19	3,900	5,600	450	579	440	147	31,000	0
1897	19	10,220	6,947	167	715	610	167	65,000	0
1898	32	7,269	8,155	325	809	1,170	167	59,000	0
1899	51	15,744	10,526	526	880	1,463	167	59,000	0
1900	55	15,738	7,722	616	963	1,551	167	59,000	0
1901	73	10,743	11,700	933	763	1,388	180	62,950	0
1902	28	10,528	8,566	730	759	780	210	105,680	0
1903	27	12,865	8,026	1,151	612	635	740	127,500	0
1904	15	10,055	9,216	629	510	977	918	159,600	0
1905	16	7,498	8,537	564	428	839	387	154,970	0
1906	0	11,930	12,420	246	514	990	465	159,700	0
1907	0	11,700	11,224	815	514	779	606	134,100	0
1908	0	13,000	10,327	516	531	509	300	86,000	0
1909	0	17,297	8,422	731	471	471	606	153,000	0
1910	0	17,551	11,901	943	457	672	1,222	153,318	113,760
1911	0	24,601	13,756	1,444	548	268	891	106,200	125,000
1912	0	26,148	14,612	1,164	549	283	1,070	121,700	126,535
1913	0	35,200	12191	1,790	393	426	1,094	127,000	162,737

## Appendix E, cont.

	Campania (cont.)		Apulia	Sicily				Sardinia
	(4)	(6)	(2)	(1)	(2)	(5)	(6)	(2)
	Arti- ficial asphalt	Asphalt mastic	Bri- quettes	Refinery products	Bri- quettes	Asphalt powder	Asphalt mastic	Bri- quettes
1861	0	0	0	0	0	0	0	0
1861	0	4,320	0	0	0	0	0	0
1862	0	4,000	0	0	0	0	0	0
1863	0	4,240	0	0	0	0	0	0
1864	0	4,080	0	0	0	0	0	0
1865	0	4,400	0	0	0	0	0	0
1866	0	4,160	0	0	0	0	0	0
1867	0	4,320	0	0	0	0	0	0
1868	100	4,240	0	0	0	0	0	0
1869	100	4,080	0	0	0	0	0	0
1870	100	4,160	0	0	0	0	0	0
1871	100	4,480	0	0	0	0	0	0
1872	100	4,640	0	0	0	0	0	0
1873	200	0	0	0	0	0	0	0
1874	200	0	0	0	0	0	0	0
1875	200	0	0	0	0	0	0	0
1876	200	0	0	0	0	0	0	0
1877	300	4,480	0	0	0	0	0	0
1878	300	0	0	0	0	0	0	0
1879	300	1,568	0	0	0	0	0	0
1880	300	120	5,694	0	0	0	0	47
1881	400	1,200	11,799	0	0	0	0	98
1882	400	1,416	18,981	0	0	0	500	157
1883	400	1,480	26,799	0	0	0	1,000	222
1884	400	1,600	35,697	0	0	0	1,200	296
1885	400	1,560	45,677	0	0	0	2,000	378
1886	400	1,840	57,184	0	0	0	1,280	474
1887	400	2,800	70,000	0	0	576	1,335	580
1888	400	2,960	75,450	0	0	1,084	1,390	0
1889	400	0	73,500	0	0	1,592	1,445	0
1890	500	0	75,800	0	0	2,100	1,500	0
1891	500	0	78,500	0	0	1,550	1,150	0
1892	500	0	80,000	0	0	1,000	800	0
1893	500	0	80,000	0	0	650	650	0
1894	500	0	82,600	0	0	650	650	0
1895	500	0	45,780	0	0	600	900	0
1896	600	0	46,000	0	0	300	1,800	0
1897	600	0	46,000	0	0	100	600	0
1898	600	0	45,000	0	0	120	750	0
1899	600	0	45,000	0	0	10,000	2,000	0
1900	600	0	45,000	0	0	7,100	400	0
1901	700	0	48,000	0	0	6,000	1,050	0
1902	700	0	52,000	0	0	12,700	380	0
1903	700	0	45,700	0	0	12,700	380	0
1904	700	0	49,800	0	410	8,240	1,700	0
1905	300	0	44,000	0	480	7,800	1,600	0
1906	1,400	0	49,500	0	2,760	8,000	800	0
1907	900	0	33,500	18	2,710	10,250	1,800	0
1908	0	0	54,300	20	3,300	7,500	1,900	0
1909	0	0	43,796	25	4,400	9,291	2,953	0
1910	0	0	58,337	23	4,400	8,586	2,052	0
1911	0	0	52,000	35	6,000	7,311	2,799	0
1912	0	0	59,300	40	10,100	8,500	2,000	0
1913	0	0	77,500	355	10,710	5,373	1,770	0

Source: see text.



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