

Fragmented Authority from Ancien Régime to Modernity: A Quantitative Analysis

Data Appendices 1-4

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For additional details, see the text of “Fragmented Authority from Ancien Régime to Modernity: A Quantitative Analysis” (Forthcoming, *Journal of Institutional Economics*).

## Appendix 1. Customs Zones

For additional details, see the text.

### *Part A. Internal Customs West of the Rhine*

*England.* See the text.

*France.* See the text.

*Netherlands.* I made use of the 12 present-day provinces to reconstruct customs divisions between the provinces of the Dutch Republic. For tractability, I abstracted away from local customs barriers within provinces themselves. The map of present-day Dutch provinces was from Sensen (2006) and the historical map of the Dutch Republic was from t'Hart, Joonker, and Van Zanden (1997). Note that the Dutch Republic also included the Generality Lands, assigned after the Peace of Westphalia in 1648:

*Drenthe.* Present-day province of Drenthe;

*Friesland.* Present-day province of Friesland;

*Gelderland.* Present-day province of Gelderland;

*Generality Lands.* Present-day provinces of North Brabant and Limburg;

*Groningen.* Present-day province of Groningen;

*Holland.* Present-day provinces of North Holland and South Holland;

*Overijssel.* Present-day province of Overijssel;

*Utrecht.* Present-day province of Utrecht;

*Zeeland.* Present-day province of Zeeland.

*Spain.* I approximated historical sub-polities in Spain by present-day provinces. The map of Spanish provinces with areas in square kilometers was from Martins (2006a). To determine Spanish customs zones, I used this map in conjunction with the map of historical sub-polities by Martins (2006b), which were then related to the historical literature on Spanish internal customs. The Balearic Islands including Mallorca (4,992 km) were included as part of the Catalonia sub-polity but the Canary Islands (7,492 sq km) and the islands of Ceuta (20 sq km) and Melilla (12 sq km) were excluded from the analysis because I was unable to determine the sub-polity with which they were associated:

*Aragon.* Present-day provinces of Huesca, Zaragoza, Tereul;

*Basque Territories.* Present-day provinces of Vizcaya, Guipuzcoa, Navarra, Alava;

*Castile.* Present-day provinces of A Coruna, Lugo, Pontevedra, Ourense, Asturias, Cantabria, La Rioja, Leon, Palencia, Burgos, Zamora, Valladolid, Soria, Salamanca, Avila, Segovia, Madrid, Guadalajara, Toledo, Cuenca, Ciudad Real, Albacete, Caceres, Badajoz, Murcia, Huelva, Sevilla, Cordoba, Jaen, Cadiz, Malaga, Granada, Almeria;

*Catalonia.* Present-day provinces of Lleida, Barceloa, Girona, Tarragona, Mallorca;

*Valencia.* Present-day provinces of Castellon de la Plana, Valencia, Alicante.

*Part B. External Customs East of the Rhine*

*German Territories.* See the text.

*Italian Peninsula.* There were many sovereign states on the Italian Peninsula in 1815: the Duchies of Modena, Parma, and Tuscany; the Kingdoms of Lombardo-Venetia, Sardinia-Piedmont, and the Two Sicilies; and the Papal States. A declaration for an Italian customs union was devised in 1847 but never put into practice. The Piedmont system of low domestic customs was implemented throughout Italy in 1859. Economic unification including customs between polities followed the establishment of the Kingdom of Italy in 1861.<sup>1</sup>

I approximated historical states in Italy by present-day provinces. The map of present-day provinces with areas in square kilometers was from Martins (2006c) and the historical map of states was from Hearder (1983). To establish customs zones in 1815, I superimposed Hearder's historical map on Martins' present-day one:

*Duchy of Modena.* Central one-third of present-day province of Emilia Romagna, Northern one-third of present-day province of Toscana;

*Duchy of Parma.* Northern one-third of present-day province of Emilia Romagna;

*Duchy of Tuscany.* Southern two-thirds of present-day province of Toscana;

*Kingdom of Lombardy-Venetia.* Present-day provinces of Friuli Venezia Giulia, Lombardia, Trentino Alto Adige, Veneto;

*Kingdom of Sardinia-Piedmont.* Present-day provinces of Liguria, Piemonte, Sardegna, Valle d'Aosta;

*Kingdom of the Two Sicilies.* Present-day provinces of Abruzzo, Molise, Campania, Puglia, Basilicata, Calabria, Sicilia;

*Papal States.* Southern one-third of present-day province of Emilia Romagna, Present-day provinces of Lazio, Marche, Umbria.

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<sup>1</sup> This account is based Hearder (1983), Carpanetto and Ricuperati (1987), and Toniolo (1990).

Appendix 2. Sample Cities and Surrounding Internal Customs Zones West of the Rhine in Sq Km, 1700-1815

No.	Polity	City	Province	Customs Zone	1700	1750	1788	1815
1	England	Bath	Not Applicable	England	151,201	151,201	151,201	151,201
2	England	Birmingham	Not Applicable	England	151,201	151,201	151,201	151,201
3	England	Blackburn	Not Applicable	England	151,201	151,201	151,201	151,201
4	England	Bolton	Not Applicable	England	151,201	151,201	151,201	151,201
5	England	Bristol	Not Applicable	England	151,201	151,201	151,201	151,201
6	England	Cambridge	Not Applicable	England	151,201	151,201	151,201	151,201
7	England	Carlisle	Not Applicable	England	151,201	151,201	151,201	151,201
8	England	Chatham	Not Applicable	England	151,201	151,201	151,201	151,201
9	England	Chester	Not Applicable	England	151,201	151,201	151,201	151,201
10	England	Colchester	Not Applicable	England	151,201	151,201	151,201	151,201
11	England	Coventry	Not Applicable	England	151,201	151,201	151,201	151,201
12	England	Derby	Not Applicable	England	151,201	151,201	151,201	151,201
13	England	Exeter	Not Applicable	England	151,201	151,201	151,201	151,201
14	England	Greenwich	Not Applicable	England	151,201	151,201	151,201	151,201
15	England	Huddersfield	Not Applicable	England	151,201	151,201	151,201	151,201
16	England	Hull	Not Applicable	England	151,201	151,201	151,201	151,201
17	England	Ipswich	Not Applicable	England	151,201	151,201	151,201	151,201
18	England	King's Lynn	Not Applicable	England	151,201	151,201	151,201	151,201
19	England	Leeds	Not Applicable	England	151,201	151,201	151,201	151,201
20	England	Leicester	Not Applicable	England	151,201	151,201	151,201	151,201
21	England	Liverpool	Not Applicable	England	151,201	151,201	151,201	151,201
22	England	London	Not Applicable	England	151,201	151,201	151,201	151,201
23	England	Manchester	Not Applicable	England	151,201	151,201	151,201	151,201
24	England	Newcastle	Not Applicable	England	151,201	151,201	151,201	151,201
25	England	Norwich	Not Applicable	England	151,201	151,201	151,201	151,201
26	England	Nottingham	Not Applicable	England	151,201	151,201	151,201	151,201
27	England	Oldham	Not Applicable	England	151,201	151,201	151,201	151,201
28	England	Oxford	Not Applicable	England	151,201	151,201	151,201	151,201
29	England	Plymouth	Not Applicable	England	151,201	151,201	151,201	151,201
30	England	Portsmouth	Not Applicable	England	151,201	151,201	151,201	151,201
31	England	Preston	Not Applicable	England	151,201	151,201	151,201	151,201
32	England	Reading	Not Applicable	England	151,201	151,201	151,201	151,201
33	England	Salford	Not Applicable	England	151,201	151,201	151,201	151,201
34	England	Sheffield	Not Applicable	England	151,201	151,201	151,201	151,201
35	England	Shrewsbury	Not Applicable	England	151,201	151,201	151,201	151,201
36	England	Stockport	Not Applicable	England	151,201	151,201	151,201	151,201

No.	Polity	City	Province	Customs Zone	1700	1750	1788	1815
37	England	Sunderland	Not Applicable	England	151,201	151,201	151,201	151,201
38	England	Warrington	Not Applicable	England	151,201	151,201	151,201	151,201
39	England	Wenlock	Not Applicable	England	151,201	151,201	151,201	151,201
40	England	Wigan	Not Applicable	England	151,201	151,201	151,201	151,201
41	England	Wolverhampton	Not Applicable	England	151,201	151,201	151,201	151,201
42	England	Worcester	Not Applicable	England	151,201	151,201	151,201	151,201
43	England	Yarmouth	Not Applicable	England	151,201	151,201	151,201	151,201
44	England	York	Not Applicable	England	151,201	151,201	151,201	151,201
45	France	Strasbourg	Bas Rhin	Effectively Foreign 1	37,056	37,056	37,056	543,965
46	France	Colmar	Haut Rhin	Effectively Foreign 1	37,056	37,056	37,056	543,965
47	France	Nancy	Meurthe et Moselle	Effectively Foreign 1	37,056	37,056	37,056	543,965
48	France	Metz	Moselle	Effectively Foreign 1	37,056	37,056	37,056	543,965
49	France	Avignon	Vaucluse	Effectively Foreign 2	3,567	3,567	3,567	543,965
50	France	Saint Quentin	Aisne	Five Great Farms	208,174	208,174	208,174	543,965
51	France	Moulins	Allier	Five Great Farms	208,174	208,174	208,174	543,965
52	France	Reims	Ardenne	Five Great Farms	208,174	208,174	208,174	543,965
53	France	Troyes	Aube	Five Great Farms	208,174	208,174	208,174	543,965
54	France	Bayeux	Calvados	Five Great Farms	208,174	208,174	208,174	543,965
55	France	Caen	Calvados	Five Great Farms	208,174	208,174	208,174	543,965
56	France	Falaise	Calvados	Five Great Farms	208,174	208,174	208,174	543,965
57	France	Lisieux	Calvados	Five Great Farms	208,174	208,174	208,174	543,965
58	France	Bourges	Cher	Five Great Farms	208,174	208,174	208,174	543,965
59	France	Dijon	Cote d'Or	Five Great Farms	208,174	208,174	208,174	543,965
60	France	Niort	Deux Sevres	Five Great Farms	208,174	208,174	208,174	543,965
61	France	Chartres	Eure et Loir	Five Great Farms	208,174	208,174	208,174	543,965
62	France	Tours	Indre et Loire	Five Great Farms	208,174	208,174	208,174	543,965
63	France	Orleans	Loiret	Five Great Farms	208,174	208,174	208,174	543,965
64	France	Blois	Lois et Chers	Five Great Farms	208,174	208,174	208,174	543,965
65	France	Angers	Maine et Loire	Five Great Farms	208,174	208,174	208,174	543,965
66	France	Cherbourg	Manche	Five Great Farms	208,174	208,174	208,174	543,965
67	France	Chalons sur Marne	Marne	Five Great Farms	208,174	208,174	208,174	543,965
68	France	Laval	Mayenne	Five Great Farms	208,174	208,174	208,174	543,965
69	France	Nevers	Nivere	Five Great Farms	208,174	208,174	208,174	543,965
70	France	Beauvais	Oise	Five Great Farms	208,174	208,174	208,174	543,965
71	France	Alencon	Orne	Five Great Farms	208,174	208,174	208,174	543,965
72	France	Angouleme	Orne	Five Great Farms	208,174	208,174	208,174	543,965
73	France	Paris	Paris	Five Great Farms	208,174	208,174	208,174	543,965
74	France	Chalons sure Saone	Saone et Loire	Five Great Farms	208,174	208,174	208,174	543,965

No.	Polity	City	Province	Customs Zone	1700	1750	1788	1815
75	France	Macon	Saone et Loire	Five Great Farms	208,174	208,174	208,174	543,965
76	France	Le Mans	Sarthe	Five Great Farms	208,174	208,174	208,174	543,965
77	France	Dieppe	Seine Maritime	Five Great Farms	208,174	208,174	208,174	543,965
78	France	Le Havre	Seine Maritime	Five Great Farms	208,174	208,174	208,174	543,965
79	France	Rouen	Seine Maritime	Five Great Farms	208,174	208,174	208,174	543,965
80	France	Abbeville	Somme	Five Great Farms	208,174	208,174	208,174	543,965
81	France	Amiens	Somme	Five Great Farms	208,174	208,174	208,174	543,965
82	France	Poitiers	Vienne	Five Great Farms	208,174	208,174	208,174	543,965
83	France	Auxerre	Yonne	Five Great Farms	208,174	208,174	208,174	543,965
84	France	Versailles	Yvelines	Five Great Farms	208,174	208,174	208,174	543,965
85	France	Aix en Provence	Bouches du Rhone	Reputedly Foreign 1A	23,534	23,534	23,534	543,965
86	France	Arles	Bouches du Rhone	Reputedly Foreign 1A	23,534	23,534	23,534	543,965
87	France	Marseille	Bouches du Rhone	Reputedly Foreign 1A	23,534	23,534	23,534	543,965
88	France	Toulon	Bouches du Rhone	Reputedly Foreign 1A	23,534	23,534	23,534	543,965
89	France	Carcassonne	Aude	Reputedly Foreign 1B	48,724	48,724	48,724	543,965
90	France	Nimes	Gard	Reputedly Foreign 1B	48,724	48,724	48,724	543,965
91	France	Toulouse	Haute Garonne	Reputedly Foreign 1B	48,724	48,724	48,724	543,965
92	France	Beziers	Herault	Reputedly Foreign 1B	48,724	48,724	48,724	543,965
93	France	Montpellier	Herault	Reputedly Foreign 1B	48,724	48,724	48,724	543,965
94	France	La Rochelle	Charente Maritime	Reputedly Foreign 1C	81,346	81,346	81,346	543,965
95	France	Rochefort	Charente Maritime	Reputedly Foreign 1C	81,346	81,346	81,346	543,965
96	France	Bordeaux	Gironde	Reputedly Foreign 1C	81,346	81,346	81,346	543,965
97	France	Limoges	Haute Vienne	Reputedly Foreign 1C	81,346	81,346	81,346	543,965
98	France	Cahors	Lot	Reputedly Foreign 1C	81,346	81,346	81,346	543,965
99	France	Agen	Lot et Garonne	Reputedly Foreign 1C	81,346	81,346	81,346	543,965
100	France	Clermont Ferrand	Puy de Dome	Reputedly Foreign 1C	81,346	81,346	81,346	543,965
101	France	Riom	Puy de Dome	Reputedly Foreign 1C	81,346	81,346	81,346	543,965
102	France	Bayonne	Pyrenees Atlantiques	Reputedly Foreign 1C	81,346	81,346	81,346	543,965
103	France	Perpignan	Pyrenees Orientales	Reputedly Foreign 1C	81,346	81,346	81,346	543,965
104	France	Albi	Tarn	Reputedly Foreign 1C	81,346	81,346	81,346	543,965
105	France	Castres	Tarn	Reputedly Foreign 1C	81,346	81,346	81,346	543,965
106	France	Montauban	Tarn et Garonne	Reputedly Foreign 1C	81,346	81,346	81,346	543,965
107	France	Le Puy	Haute Loire	Reputedly Foreign 1D	22,187	22,187	22,187	543,965
108	France	Grenoble	Isere	Reputedly Foreign 1D	22,187	22,187	22,187	543,965
109	France	Saint Etienne	Loire	Reputedly Foreign 1D	22,187	22,187	22,187	543,965
110	France	Lyon	Rhone	Reputedly Foreign 1D	22,187	22,187	22,187	543,965
111	France	Vienne	Rhone	Reputedly Foreign 1D	22,187	22,187	22,187	543,965
112	France	Cambrai	Nord	Reputedly Foreign 2	12,413	12,413	12,413	543,965

No.	Polity	City	Province	Customs Zone	1700	1750	1788	1815
113	France	Douai	Nord	Reputedly Foreign 2	12,413	12,413	12,413	543,965
114	France	Arras	Pas de Calais	Reputedly Foreign 2	12,413	12,413	12,413	543,965
115	France	Boulogne	Pas de Calais	Reputedly Foreign 2	12,413	12,413	12,413	543,965
116	France	Saint Omer	Pas de Calais	Reputedly Foreign 2	12,413	12,413	12,413	543,965
117	France	Besancon	Doubs	Reputedly Foreign 3	16,202	16,202	16,202	543,965
118	France	Brest	Finistere	Reputedly Foreign 4	34,024	34,024	34,024	543,965
119	France	Lorient	Finistere	Reputedly Foreign 4	34,024	34,024	34,024	543,965
120	France	Rennes	Ille et Vilaine	Reputedly Foreign 4	34,024	34,024	34,024	543,965
121	France	Saint Malo	Ille et Vilaine	Reputedly Foreign 4	34,024	34,024	34,024	543,965
122	France	Nantes	Loire Atlantique	Reputedly Foreign 4	34,024	34,024	34,024	543,965
123	Netherlands	Leeuwarden	Friesland	Friesland	3,349	3,349	3,349	33,873
124	Netherlands	Arnhem	Gelderland	Gelderland	4,975	4,975	4,975	33,873
125	Netherlands	Nijmegen	Gelderland	Gelderland	4,975	4,975	4,975	33,873
126	Netherlands	Maastricht	Limburg	Generality Lands	7,072	7,072	7,072	33,873
127	Netherlands	S Hertogenbosch	North Brabant	Generality Lands	7,072	7,072	7,072	33,873
128	Netherlands	Groningen	Groningen	Groningen	2,336	2,336	2,336	33,873
129	Netherlands	Amsterdam	North Holland	Holland	5,488	5,488	5,488	33,873
130	Netherlands	Haarlem	North Holland	Holland	5,488	5,488	5,488	33,873
131	Netherlands	Hoorn	North Holland	Holland	5,488	5,488	5,488	33,873
132	Netherlands	Zaandam	North Holland	Holland	5,488	5,488	5,488	33,873
133	Netherlands	Delft	South Holland	Holland	5,488	5,488	5,488	33,873
134	Netherlands	Den Haag	South Holland	Holland	5,488	5,488	5,488	33,873
135	Netherlands	Dordrecht	South Holland	Holland	5,488	5,488	5,488	33,873
136	Netherlands	Gouda	South Holland	Holland	5,488	5,488	5,488	33,873
137	Netherlands	Leiden	South Holland	Holland	5,488	5,488	5,488	33,873
138	Netherlands	Rotterdam	South Holland	Holland	5,488	5,488	5,488	33,873
139	Netherlands	Zwolle	Overijssel	Overijssel	3,327	3,327	3,327	33,873
140	Netherlands	Utrecht	Utrecht	Utrecht	1,386	1,386	1,386	33,873
141	Netherlands	Middelburg	Zeeland	Zeeland	1,788	1,788	1,788	33,873
142	Spain	Zaragoza	Zaragoza	Aragon	47,720	480,881	480,881	480,881
143	Spain	Bilbao	Vizcaya	Basque Country	17,553	17,553	17,553	480,881
144	Spain	Badajoz	Badajoz	Castile	372,801	480,881	480,881	480,881
145	Spain	Cadiz	Cadiz	Castile	372,801	480,881	480,881	480,881
146	Spain	Jerez de la Frontera	Cadiz	Castile	372,801	480,881	480,881	480,881
147	Spain	Alcazar de San Juan	Ciudad Real	Castile	372,801	480,881	480,881	480,881
148	Spain	Cordoba	Cordoba	Castile	372,801	480,881	480,881	480,881
149	Spain	Lucena	Cordoba	Castile	372,801	480,881	480,881	480,881
150	Spain	Santiago	Cordoba	Castile	372,801	480,881	480,881	480,881

No.	Polity	City	Province	Customs Zone	1700	1750	1788	1815
151	Spain	Granada	Granada	Castile	372,801	480,881	480,881	480,881
152	Spain	Aracena	Huelva	Castile	372,801	480,881	480,881	480,881
153	Spain	Alcala la Real	Jaen	Castile	372,801	480,881	480,881	480,881
154	Spain	Andujar	Jaen	Castile	372,801	480,881	480,881	480,881
155	Spain	Baeza	Jaen	Castile	372,801	480,881	480,881	480,881
156	Spain	Jaen	Jaen	Castile	372,801	480,881	480,881	480,881
157	Spain	Ubeda	Jaen	Castile	372,801	480,881	480,881	480,881
158	Spain	Madrid	Madrid	Castile	372,801	480,881	480,881	480,881
159	Spain	Antequera	Malaga	Castile	372,801	480,881	480,881	480,881
160	Spain	Malaga	Malaga	Castile	372,801	480,881	480,881	480,881
161	Spain	Ronda	Malaga	Castile	372,801	480,881	480,881	480,881
162	Spain	Cartagena	Murcia	Castile	372,801	480,881	480,881	480,881
163	Spain	Murcia	Murcia	Castile	372,801	480,881	480,881	480,881
164	Spain	Palencia	Palencia	Castile	372,801	480,881	480,881	480,881
165	Spain	Ecija	Sevilla	Castile	372,801	480,881	480,881	480,881
166	Spain	Moron de la Frontera	Sevilla	Castile	372,801	480,881	480,881	480,881
167	Spain	Osuna	Sevilla	Castile	372,801	480,881	480,881	480,881
168	Spain	Sevilla	Sevilla	Castile	372,801	480,881	480,881	480,881
169	Spain	Toledo	Toledo	Castile	372,801	480,881	480,881	480,881
170	Spain	Valladolid	Valladolid	Castile	372,801	480,881	480,881	480,881
171	Spain	Barcelona	Barcelona	Catalonia	37,105	480,881	480,881	480,881
172	Spain	Palma	Mallorca	Catalonia	37,105	480,881	480,881	480,881
173	Spain	Alicante	Alicante	Valencia	23,255	480,881	480,881	480,881
174	Spain	Orihuela	Alicante	Valencia	23,255	480,881	480,881	480,881
175	Spain	Valencia	Valencia	Valencia	23,255	480,881	480,881	480,881

*Sources:* See the text and Appendix 1.



Appendix 3. Sample Cities and Surrounding Internal Customs Zones West of the Rhine in 1000s of Urban Residents, 1700-1800

No.	Polity	City	Province	Customs Zone	1700	1750	1800
1	France	Strasbourg	Bas Rhin	Effectively Foreign 1	30	40	48
2	France	Colmar	Haut Rhin	Effectively Foreign 1	7	UNK	13
3	France	Nancy	Meurthe et Moselle	Effectively Foreign 1	15	22	29
4	France	Metz	Moselle	Effectively Foreign 1	22	29	39
5	France	Avignon	Vaucluse	Effectively Foreign 2	23	22	21
6	France	Saint Quentin	Aisne	Five Great Farms	UNK	UNK	10
7	France	Moulins	Allier	Five Great Farms	11	11	13
8	France	Reims	Ardennes	Five Great Farms	25	30	31
9	France	Troyes	Aube	Five Great Farms	21	18	21
10	France	Bayeux	Calvados	Five Great Farms	7	8	10
11	France	Caen	Calvados	Five Great Farms	27	35	34
12	France	Falaise	Calvados	Five Great Farms	9	UNK	10
13	France	Lisieux	Calvados	Five Great Farms	UNK	UNK	11
14	France	Bourges	Cher	Five Great Farms	15	25	18
15	France	Dijon	Cote d'Or	Five Great Farms	22	22	22
16	France	Niort	Deux Sevres	Five Great Farms	UNK	UNK	14
17	France	Chartres	Eure et Loir	Five Great Farms	12	10	12
18	France	Tours	Indre et Loire	Five Great Farms	30	22	23
19	France	Orleans	Loiret	Five Great Farms	30	37	43
20	France	Blois	Lois et Chers	Five Great Farms	11	11	11
21	France	Angers	Maine et Loire	Five Great Farms	27	23	25
22	France	Cherbourg	Manche	Five Great Farms	4	5	14
23	France	Chalons sur Marne	Marne	Five Great Farms	11	15	11
24	France	Laval	Mayenne	Five Great Farms	10	10	12
25	France	Nevers	Nivere	Five Great Farms	UNK	UNK	11
26	France	Beauvais	Oise	Five Great Farms	12	12	13
27	France	Alencon	Orne	Five Great Farms	12	12	13
28	France	Angouleme	Orne	Five Great Farms	UNK	UNK	14
29	France	Paris	Paris	Five Great Farms	510	576	581
30	France	Chalons sure Saone	Saone et Loire	Five Great Farms	UNK	UNK	11
31	France	Macon	Saone et Loire	Five Great Farms	UNK	UNK	10
32	France	Le Mans	Sarthe	Five Great Farms	17	16	18
33	France	Dieppe	Seine Maritime	Five Great Farms	15	18	17
34	France	Le Havre	Seine Maritime	Five Great Farms	9	14	19

No.	Polity	City	Province	Customs Zone	1700	1750	1800
35	France	Rouen	Seine Maritime	Five Great Farms	64	67	81
36	France	Abbeville	Somme	Five Great Farms	15	15	18
37	France	Amiens	Somme	Five Great Farms	30	33	36
38	France	Poitiers	Vienne	Five Great Farms	18	18	20
39	France	Auxerre	Yonne	Five Great Farms	UNK	UNK	12
40	France	Versailles	Yvelines	Five Great Farms	25	30	27
41	France	Aix en Provence	Bouches du Rhone	Reputedly Foreign 1A	28	25	19
42	France	Arles	Bouches du Rhone	Reputedly Foreign 1A	20	23	20
43	France	Marseille	Bouches du Rhone	Reputedly Foreign 1A	75	68	78
44	France	Toulon	Bouches du Rhone	Reputedly Foreign 1A	25	26	32
45	France	Carcassonne	Aude	Reputedly Foreign 1B	11	12	14
46	France	Nimes	Gard	Reputedly Foreign 1B	19	30	40
47	France	Toulouse	Haute Garonne	Reputedly Foreign 1B	38	45	45
48	France	Beziers	Herault	Reputedly Foreign 1B	12	13	14
49	France	Montpellier	Herault	Reputedly Foreign 1B	25	35	31
50	France	La Rochelle	Charente Maritime	Reputedly Foreign 1C	14	16	18
51	France	Rochefort	Charente Maritime	Reputedly Foreign 1C	10	UNK	15
52	France	Bordeaux	Gironde	Reputedly Foreign 1C	50	67	88
53	France	Limoges	Haute Vienne	Reputedly Foreign 1C	12	18	16
54	France	Cahors	Lot	Reputedly Foreign 1C	UNK	UNK	10
55	France	Agen	Lot et Garonne	Reputedly Foreign 1C	10	10	10
56	France	Clermont Ferrand	Puy de Dome	Reputedly Foreign 1C	12	24	30
57	France	Riom	Puy de Dome	Reputedly Foreign 1C	UNK	UNK	13
58	France	Bayonne	Pyrenees Atlantiques	Reputedly Foreign 1C	UNK	UNK	12
59	France	Perpignan	Pyrenees Orientales	Reputedly Foreign 1C	UNK	UNK	13
60	France	Albi	Tarn	Reputedly Foreign 1C	10	8	10
61	France	Castres	Tarn	Reputedly Foreign 1C	9	9	13
62	France	Montauban	Tarn et Garonne	Reputedly Foreign 1C	18	16	19
63	France	Le Puy	Haute Loire	Reputedly Foreign 1D	10	10	12
64	France	Grenoble	Isere	Reputedly Foreign 1D	20	24	23
65	France	Saint Etienne	Loire	Reputedly Foreign 1D	UNK	UNK	18
66	France	Lyon	Rhone	Reputedly Foreign 1D	97	114	100
67	France	Vienne	Rhone	Reputedly Foreign 1D	7	UNK	10
68	France	Cambrai	Nord	Reputedly Foreign 2	12	12	14
69	France	Douai	Nord	Reputedly Foreign 2	13	21	18
70	France	Arras	Pas de Calais	Reputedly Foreign 2	15	17	19

No.	Polity	City	Province	Customs Zone	1700	1750	1800
71	France	Boulogne	Pas de Calais	Reputedly Foreign 2	UNK	UNK	12
72	France	Saint Omer	Pas de Calais	Reputedly Foreign 2	15	UNK	20
73	France	Besancon	Doubs	Reputedly Foreign 3	17	21	24
74	France	Brest	Finistere	Reputedly Foreign 4	7	20	22
75	France	Lorient	Finistere	Reputedly Foreign 4	UNK	UNK	15
76	France	Rennes	Ille et Vilaine	Reputedly Foreign 4	30	30	28
77	France	Saint Malo	Ille et Vilaine	Reputedly Foreign 4	25	15	17
78	France	Nantes	Loire Atlantique	Reputedly Foreign 4	42	57	74
<i>Total Urban Population (in 1000s)</i>					<i>1,804</i>	<i>1,992</i>	<i>2,382</i>

	1700	1750	1800
Effectively Foreign 1	74	91	
Effectively Foreign 2	23	22	
Five Great Farms	999	1,093	
Reputedly Foreign 1A	148	142	
Reputedly Foreign 1B	105	135	2,382
Reputedly Foreign 1C	145	168	
Reputedly Foreign 1D	134	148	
Reputedly Foreign 2	55	50	
Reputedly Foreign 3	17	21	
Reputedly Foreign 4	104	122	

*Total Urban Populations within Customs Zones (in 1,000s)*

\*UNK = Unknown

Sources: See the text and Appendix 1.

No.	Polity	City	Province	Customs Zone	1700	1750	1800
1	Netherlands	Leeuwarden	Friesland	Friesland	15	14	16
2	Netherlands	Arnhem	Gelderland	Gelderland	6	6	10
3	Netherlands	Nijmegen	Gelderland	Gelderland	11	11	13
4	Netherlands	Maastricht	Limburg	Generality Lands	26	18	18
5	Netherlands	S Hertogenbosch	North Brabant	Generality Lands	13	14	13
6	Netherlands	Groningen	Groningen	Groningen	20	21	24
7	Netherlands	Amsterdam	North Holland	Holland	200	210	217
8	Netherlands	Haarlem	North Holland	Holland	33	27	21
9	Netherlands	Hoorn	North Holland	Holland	13	10	10
10	Netherlands	Zaandam	North Holland	Holland	26	28	25
11	Netherlands	Delft	South Holland	Holland	18	15	17
12	Netherlands	Den Haag	South Holland	Holland	33	38	38
13	Netherlands	Dordrecht	South Holland	Holland	22	16	18
14	Netherlands	Gouda	South Holland	Holland	15	15	12
15	Netherlands	Leiden	South Holland	Holland	55	38	31
16	Netherlands	Rotterdam	South Holland	Holland	48	44	57
17	Netherlands	Zwolle	Overijssel	Overijssel	10	12	12
18	Netherlands	Utrecht	Utrecht	Utrecht	30	25	32
19	Netherlands	Middelburg	Zeeland	Zeeland	25	24	20
<i>Total Urban Population (in 1000s)</i>					<i>619</i>	<i>586</i>	<i>604</i>
					<u>1700</u>	<u>1750</u>	<u>1800</u>
					Friesland	15	14
					Gelderland	17	17
					Generality Lands	39	32
<i>Total Urban Populations within Customs Zones (in 1,000s)</i>					Groningen	20	21
					Holland	463	441
					Overijssel	10	12
					Utrecht	30	25
					Zeeland	25	24

Sources: See the text and Appendix 1.

No.	Polity	City	Province	Customs Zone	1700	1750	1800
1	Spain	Zaragoza	Zaragoza	Aragon	30	UNK	40
2	Spain	Bilbao	Vizcaya	Basque Country	6	7	11
3	Spain	Badajoz	Badajoz	Castile	UNK	UNK	10
4	Spain	Cadiz	Cadiz	Castile	23	60	70
5	Spain	Jerez de la Frontera	Cadiz	Castile	13	UNK	35
6	Spain	Alcazar de San Juan	Ciudad Real	Castile	UNK	UNK	10
7	Spain	Cordoba	Cordoba	Castile	28	UNK	40
8	Spain	Lucena	Cordoba	Castile	UNK	UNK	18
9	Spain	Santiago	Cordoba	Castile	UNK	UNK	25
10	Spain	Granada	Granada	Castile	UNK	UNK	55
11	Spain	Aracena	Huelva	Castile	UNK	UNK	10
12	Spain	Alcala la Real	Jaen	Castile	UNK	UNK	12
13	Spain	Andujar	Jaen	Castile	UNK	UNK	10
14	Spain	Baeza	Jaen	Castile	7	UNK	10
15	Spain	Jaen	Jaen	Castile	20	22	28
16	Spain	Ubeda	Jaen	Castile	10	UNK	14
17	Spain	Madrid	Madrid	Castile	110	109	167
18	Spain	Antequera	Malaga	Castile	UNK	UNK	15
19	Spain	Malaga	Malaga	Castile	30	32	36
20	Spain	Ronda	Malaga	Castile	UNK	UNK	15
21	Spain	Cartagena	Murcia	Castile	12	UNK	33
22	Spain	Murcia	Murcia	Castile	25	32	40
23	Spain	Palencia	Palencia	Castile	4	UNK	10
24	Spain	Ecija	Sevilla	Castile	10	UNK	28
25	Spain	Moron de la Frontera	Sevilla	Castile	UNK	UNK	11
26	Spain	Osuna	Sevilla	Castile	UNK	UNK	14
27	Spain	Sevilla	Sevilla	Castile	96	66	96
28	Spain	Toledo	Toledo	Castile	20	UNK	25
29	Spain	Valladolid	Valladolid	Castile	18	19	21
30	Spain	Barcelona	Barcelona	Catalonia	43	50	115
31	Spain	Palma	Mallorca	Catalonia	UNK	UNK	29
32	Spain	Alicante	Alicante	Valencia	UNK	UNK	13
33	Spain	Orihuela	Alicante	Valencia	UNK	UNK	19
34	Spain	Valencia	Valencia	Valencia	50	UNK	80
<i>Total Urban Population (in 1000s)</i>					555	397	1,165

*Total Urban Populations within Customs Zones (in 1,000s)*

	1700	1750	1800
Aragon	30		
Castile	426	390	1,154
Catalonia	43		
Valencia	50		
Basque Country	6	7	11

\*UNK = Unknown

*Sources:* See the text and Appendix 1.

Appendix 4. Sample Cities and Surrounding External Customs Zones East of the Rhine in Sq Km, 1815-1871

No.	Territory	City	State or Province	Affiliated Sovereign State in 1815	1815	1850	1871
1	German	Braunschweig	Niedersachsen	Duchy of Brunswick	4,761	47,624	357,022
2	German	Flensburg	Schleswig-Holstein	Duchy of Schleswig	7,727	15,769	357,022
3	German	Bremen	Bremen	Free City of Bremen	404	404	357,022
4	German	Frankfurt A M	Hessen	Free city of Frankfurt A M	422	422	357,022
5	German	Altona	Hamburg	Free City of Hamburg	755	755	357,022
6	German	Hamburg	Hamburg	Free City of Hamburg	755	755	357,022
7	German	Lubeck	Schleswig-Holstein	Free City of Lubeck	315	315	357,022
8	German	Mannheim	Baden-Wurtemberg	Grand Duchy of Baden	17,876	35,752	357,022
9	German	Rostock	Mecklenburg-Vorpommern	Grand Duchy of Mecklenburg-Schwerin	11,590	11,590	357,022
10	German	Kassel	Hessen	Hesse-Cassel (Electoral Hesse)	10,346	250,451	357,022
11	German	Hanau	Hessen	Hesse-Darmstadt (Grand Duchy of Hesse)	12,332	250,451	357,022
12	German	Mainz	Rheinland-Pfalz	Hesse-Darmstadt (Grand Duchy of Hesse)	12,332	250,451	357,022
13	German	Ansbach	Bayern	Kingdom of Bavaria	70,548	250,451	357,022
14	German	Augsburg	Bayern	Kingdom of Bavaria	70,548	250,451	357,022
15	German	Bamberg	Bayern	Kingdom of Bavaria	70,548	250,451	357,022
16	German	Furth	Bayern	Kingdom of Bavaria	70,548	250,451	357,022
17	German	Munich	Bayern	Kingdom of Bavaria	70,548	250,451	357,022
18	German	Nuremberg	Bayern	Kingdom of Bavaria	70,548	250,451	357,022
19	German	Regensburg	Bayern	Kingdom of Bavaria	70,548	250,451	357,022
20	German	Wurzburg	Bayern	Kingdom of Bavaria	70,548	250,451	357,022
21	German	Emden	Niedersachsen	Kingdom of Hanover	33,330	47,624	357,022
22	German	Hanover	Niedersachsen	Kingdom of Hanover	33,330	47,624	357,022
23	German	Hildesheim	Niedersachsen	Kingdom of Hanover	33,330	47,624	357,022
24	German	Luneburg	Niedersachsen	Kingdom of Hanover	33,330	47,624	357,022
25	German	Berlin	Berlin	Kingdom of Prussia	99,771	250,451	357,022
26	German	Brandenburg	Brandenburg	Kingdom of Prussia	99,771	250,451	357,022
27	German	Potsdam	Brandenburg	Kingdom of Prussia	99,771	250,451	357,022
28	German	Aachen	Nordrhein-Westfalen	Kingdom of Prussia	99,771	250,451	357,022
29	German	Barmen	Nordrhein-Westfalen	Kingdom of Prussia	99,771	250,451	357,022
30	German	Bonn	Nordrhein-Westfalen	Kingdom of Prussia	99,771	250,451	357,022
31	German	Cologne	Nordrhein-Westfalen	Kingdom of Prussia	99,771	250,451	357,022
32	German	Dusseldorf	Nordrhein-Westfalen	Kingdom of Prussia	99,771	250,451	357,022
33	German	Elberfeld	Nordrhein-Westfalen	Kingdom of Prussia	99,771	250,451	357,022
34	German	Munster	Nordrhein-Westfalen	Kingdom of Prussia	99,771	250,451	357,022

No.	Territory	City	State or Province	Affiliated Sovereign State in 1815	1815	1850	1871
35	German	Halberstadt	Sachsen-Anhalt	Kingdom of Prussia	99,771	250,451	357,022
36	German	Halle	Sachsen-Anhalt	Kingdom of Prussia	99,771	250,451	357,022
37	German	Magdeburg	Sachsen-Anhalt	Kingdom of Prussia	99,771	250,451	357,022
38	German	Quedlinburg	Sachsen-Anhalt	Kingdom of Prussia	99,771	250,451	357,022
39	German	Erfurt	Thuringen	Kingdom of Prussia	99,771	250,451	357,022
40	German	Bautzen	Sachsen	Kingdom of Saxony	18,413	250,451	357,022
41	German	Dresden	Sachsen	Kingdom of Saxony	18,413	250,451	357,022
42	German	KarlMarxStadt	Sachsen	Kingdom of Saxony	18,413	250,451	357,022
43	German	Leipzig	Sachsen	Kingdom of Saxony	18,413	250,451	357,022
44	German	Stuttgart	Baden-Wurtemberg	Kingdom of Wurttemberg	17,876	250,451	357,022
45	German	Ulm	Baden-Wurtemberg	Kingdom of Wurttemberg	17,876	250,451	357,022
46	German	Gotha	Thuringen	Thuringen States	9,703	250,451	357,022
47	Italian	Modena	Emilia Romagna	Duchy of Modena	14,888	14,888	301,338
48	Italian	Reggio	Emilia Romagna	Duchy of Modena	14,888	14,888	301,338
49	Italian	Parma	Emilia Romagna	Duchy of Parma	7,301	7,301	301,338
50	Italian	Piacenza	Emilia Romagna	Duchy of Parma	7,301	7,301	301,338
51	Italian	Firenze	Toscana	Duchy of Tuscany	15,331	15,331	301,338
52	Italian	Livorno	Toscana	Duchy of Tuscany	15,331	15,331	301,338
53	Italian	Lucca	Toscana	Duchy of Tuscany	15,331	15,331	301,338
54	Italian	Pisa	Toscana	Duchy of Tuscany	15,331	15,331	301,338
55	Italian	Siena	Toscana	Duchy of Tuscany	15,331	15,331	301,338
56	Italian	Trieste	Friuli Venezia Giulia	Kingdom of Lombardy-Venetia	63,715	63,715	301,338
57	Italian	Udine	Friuli Venezia Giulia	Kingdom of Lombardy-Venetia	63,715	63,715	301,338
58	Italian	Bergamo	Lombardia	Kingdom of Lombardy-Venetia	63,715	63,715	301,338
59	Italian	Brescia	Lombardia	Kingdom of Lombardy-Venetia	63,715	63,715	301,338
60	Italian	Como	Lombardia	Kingdom of Lombardy-Venetia	63,715	63,715	301,338
61	Italian	Cremona	Lombardia	Kingdom of Lombardy-Venetia	63,715	63,715	301,338
62	Italian	Lodi	Lombardia	Kingdom of Lombardy-Venetia	63,715	63,715	301,338
63	Italian	Mantua	Lombardia	Kingdom of Lombardy-Venetia	63,715	63,715	301,338
64	Italian	Milano	Lombardia	Kingdom of Lombardy-Venetia	63,715	63,715	301,338
65	Italian	Monza	Lombardia	Kingdom of Lombardy-Venetia	63,715	63,715	301,338
66	Italian	Pavia	Lombardia	Kingdom of Lombardy-Venetia	63,715	63,715	301,338
67	Italian	Vigevano	Lombardia	Kingdom of Lombardy-Venetia	63,715	63,715	301,338
68	Italian	Chioggia	Veneto	Kingdom of Lombardy-Venetia	63,715	63,715	301,338
69	Italian	Padova	Veneto	Kingdom of Lombardy-Venetia	63,715	63,715	301,338
70	Italian	Treviso	Veneto	Kingdom of Lombardy-Venetia	63,715	63,715	301,338



No.	Territory	City	State or Province	Affiliated Sovereign State in 1815	1815	1850	1871
71	Italian	Venezia	Veneto	Kingdom of Lombardy-Venetia	63,715	63,715	301,338
72	Italian	Verona	Veneto	Kingdom of Lombardy-Venetia	63,715	63,715	301,338
73	Italian	Vicenza	Veneto	Kingdom of Lombardy-Venetia	63,715	63,715	301,338
74	Italian	Genoa	Liguria	Kingdom of Sardinia-Piedmont	58,173	58,173	301,338
75	Italian	Alessandria	Piemonte	Kingdom of Sardinia-Piedmont	58,173	58,173	301,338
76	Italian	Asti	Piemonte	Kingdom of Sardinia-Piedmont	58,173	58,173	301,338
77	Italian	Cuneo	Piemonte	Kingdom of Sardinia-Piedmont	58,173	58,173	301,338
78	Italian	Fossano	Piemonte	Kingdom of Sardinia-Piedmont	58,173	58,173	301,338
79	Italian	Mondovi	Piemonte	Kingdom of Sardinia-Piedmont	58,173	58,173	301,338
80	Italian	Novara	Piemonte	Kingdom of Sardinia-Piedmont	58,173	58,173	301,338
81	Italian	Savigliano	Piemonte	Kingdom of Sardinia-Piedmont	58,173	58,173	301,338
82	Italian	Torino	Piemonte	Kingdom of Sardinia-Piedmont	58,173	58,173	301,338
83	Italian	Vercelli	Piemonte	Kingdom of Sardinia-Piedmont	58,173	58,173	301,338
84	Italian	Sassari	Sardegna	Kingdom of Sardinia-Piedmont	58,173	58,173	301,338
85	Italian	Reggio di Calabria	Calabria	Kingdom of the Two Sicilies	98,973	98,973	301,338
86	Italian	Napoli	Campania	Kingdom of the Two Sicilies	98,973	98,973	301,338
87	Italian	Altamura	Puglia	Kingdom of the Two Sicilies	98,973	98,973	301,338
88	Italian	Bari	Puglia	Kingdom of the Two Sicilies	98,973	98,973	301,338
89	Italian	Foggia	Puglia	Kingdom of the Two Sicilies	98,973	98,973	301,338
90	Italian	Lecce	Puglia	Kingdom of the Two Sicilies	98,973	98,973	301,338
91	Italian	Monopoli	Puglia	Kingdom of the Two Sicilies	98,973	98,973	301,338
92	Italian	Taranto	Puglia	Kingdom of the Two Sicilies	98,973	98,973	301,338
93	Italian	Acireale	Sicilia	Kingdom of the Two Sicilies	98,973	98,973	301,338
94	Italian	Caltagirone	Sicilia	Kingdom of the Two Sicilies	98,973	98,973	301,338
95	Italian	Caltanisseta	Sicilia	Kingdom of the Two Sicilies	98,973	98,973	301,338
96	Italian	Castelvetrano	Sicilia	Kingdom of the Two Sicilies	98,973	98,973	301,338
97	Italian	Castrogiovanni	Sicilia	Kingdom of the Two Sicilies	98,973	98,973	301,338
98	Italian	Catania	Sicilia	Kingdom of the Two Sicilies	98,973	98,973	301,338
99	Italian	Girgenti	Sicilia	Kingdom of the Two Sicilies	98,973	98,973	301,338
100	Italian	Marsala	Sicilia	Kingdom of the Two Sicilies	98,973	98,973	301,338
101	Italian	Mascali	Sicilia	Kingdom of the Two Sicilies	98,973	98,973	301,338
102	Italian	Mazzerino	Sicilia	Kingdom of the Two Sicilies	98,973	98,973	301,338
103	Italian	Messina	Sicilia	Kingdom of the Two Sicilies	98,973	98,973	301,338
104	Italian	Modica/Pozzallo	Sicilia	Kingdom of the Two Sicilies	98,973	98,973	301,338
105	Italian	Noto	Sicilia	Kingdom of the Two Sicilies	98,973	98,973	301,338
106	Italian	Palermo	Sicilia	Kingdom of the Two Sicilies	98,973	98,973	301,338

No.	Territory	City	State or Province	Affiliated Sovereign State in 1815	1815	1850	1871
107	Italian	Piazza/Enna	Sicilia	Kingdom of the Two Sicilies	98,973	98,973	301,338
108	Italian	Ragusa	Sicilia	Kingdom of the Two Sicilies	98,973	98,973	301,338
109	Italian	Siracusa	Sicilia	Kingdom of the Two Sicilies	98,973	98,973	301,338
110	Italian	Termini	Sicilia	Kingdom of the Two Sicilies	98,973	98,973	301,338
111	Italian	Trapani	Sicilia	Kingdom of the Two Sicilies	98,973	98,973	301,338
112	Italian	Bologna	Emilia Romagna	Papal States	42,732	42,732	301,338
113	Italian	Ferrara	Emilia Romagna	Papal States	42,732	42,732	301,338
114	Italian	Roma	Lazio	Papal States	42,732	42,732	301,338
115	Italian	Viterbo	Lazio	Papal States	42,732	42,732	301,338
116	Italian	Ancona	Marche	Papal States	42,732	42,732	301,338
117	Italian	Perugia	Umbria	Papal States	42,732	42,732	301,338

*Sources:* See the text and Appendix 1.

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