

Supplementary materials for López, E., 'The legacy of E. Hamilton. New data for the study of prices in Spain, 1650-1800', *Investigaciones de Historia Económica-Economic History Research* 9.2 pp. 75-87 (supplementary materials).

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APPENDIX A.

Prices in grams of silver

- A1. Wheat
- A2. Chick-Peas
- A3. Beans
- A4. Mutton
- A5. Olive-Oil
- A6. Wine
- A7. Charcoal

Note: All the prices are labeled, first, by region (using Hamilton's divisions); second, by place of origin and, finally, when there are more than one series for the same place, by source.

APPENDIX B.

Municipal Taxes on wine and meat (beef and moutton) in the Kingdom of Castile

- B1. Municipal taxes on meat in he the Kingdom of Castile (c. 1720)
- B2. Municipal on wine in the Kingdom of Castile (c. 1720)

A1. WHEAT (1651-1800)

Prices in Grams of Silver per Hectolitre

Source: see text

	VALENCIA	ANDALUSIA	NEW CASTILE
	Valencia	Sevilla	Casarrubios del Monte
1651	126,65	240,52	67,73
1652	128,48	151,13	65,13
1653	119,65	247,67	72,92
1654	113,72	132,40	66,94
1655	110,06	65,23	67,17
1656	115,56	55,81	53,73
1657	103,86	81,08	58,95
1658	113,05	136,06	64,71
1659	108,15	143,35	67,53
1660	112,77	129,55	112,18
1661	113,99	90,15	99,07
1662	110,99	133,93	69,98
1663	89,25	159,46	63,36
1664	95,57		121,89
1665	105,34	180,90	119,34
1666	110,81	176,93	83,54
1667	103,06	116,43	66,03
1668	106,42	123,25	113,70
1669	105,69	88,75	65,12
1670	101,26	55,22	35,25
1671	98,42	66,62	49,50
1672	107,93	51,56	35,05
1673	91,46	48,26	36,05
1674	90,60		48,24
1675	90,93	62,20	61,53
1676	92,82	54,85	51,73
1677	114,47		75,53
1678	128,67	210,92	92,93
1679	115,81	105,37	60,83
1680	124,55	153,31	79,69
1681	112,46	143,73	48,12
1682	75,88	67,35	48,93
1683	91,72		103,95
1684	95,00	154,79	124,10
1685	92,83	134,57	92,36
1686	89,69	101,09	
1687	84,74	96,81	61,97

	VALENCIA	ANDALUSIA	NEW CASTILE
	Valencia	Sevilla	Casarrubios del Monte
1688	66,61	46,59	42,86
1689	65,01	41,93	39,42
1690	82,22		47,45
1691	73,31	34,88	50,51
1692	80,40	66,00	68,88
1693	80,38	37,27	45,92
1694	80,30	52,03	39,80
1695	77,14	54,65	39,03
1696	82,73	59,60	39,80
1697	92,34	68,85	38,27
1698	92,21	80,76	88,01
1699	80,22	86,97	88,78
1700	91,42	84,64	57,16
1701	93,54	60,65	47,45
1702	98,97	80,67	48,47
1703	90,80	75,91	45,92
1704	83,65	80,67	44,39
1705	78,21	66,84	45,15
1706	80,22	51,84	84,18
1707	71,95	72,26	62,76
1708	85,75	99,62	63,93
1709	118,02	135,34	68,51
1710	101,46	59,58	92,98
1711	86,45	59,01	77,22
1712	100,95	67,00	50,16
1713	99,81	61,60	52,20
1714	77,20	59,28	44,04
1715	63,33	54,52	42,82
1716	59,28	49,45	33,64
1717	52,82	39,10	33,03
1718	57,52	57,90	45,27
1719	72,64	35,22	32,42
1720	67,80	29,10	
1721	61,37	37,04	18,35
1722	70,20	55,24	
1723	85,72	79,81	59,95
1724	71,67	68,00	56,28
1725	73,78	37,24	37,93
1726	71,95	35,07	36,70
1727	58,17	37,86	29,36
1728	67,52	43,45	34,26

	VALENCIA	ANDALUSIA	NEW CASTILE
	Valencia	Sevilla	Casarrubios del Monte
1729	75,72	39,50	31,47
1730	77,82	65,33	52,77
1731	69,70	67,90	36,03
1732	65,62	53,94	36,05
1733	69,38	64,73	37,81
1734	88,52	102,92	66,16
1735	97,96	64,73	49,62
1736	79,52	76,42	44,89
1737	94,07	86,26	66,16
1738	83,73	64,96	61,46
1739	73,14	59,90	48,94
1740	71,30	64,67	62,60
1741	68,27	31,90	59,19
1742	66,73	52,55	48,94
1743	59,40	29,74	39,65
1744	62,39	32,63	45,53
1745	64,65	63,54	
1746	63,23	41,87	41,24
1747	66,68	41,87	
1748	81,01	46,90	58,05
1749	93,71	44,17	63,74
1750	93,80	89,06	63,74
1751	88,57	88,83	63,74
1752	83,03	108,97	50,08
1753	74,46	92,93	109,27
1754	69,33	0,00	63,74
1755	70,55	40,82	55,99
1756	62,93	38,59	35,42
1757	76,03	49,23	
1758	83,82		45,53
1759	80,02		43,25
1760	77,99		67,58
1761	82,29		56,49
1762	74,39	73,92	69,58
1763	93,83		91,06
1764	106,75		84,23
1765	98,52	83,15	110,97
1766	113,82	98,75	70,57
1767	115,26	125,80	99,88
1768	119,29		68,29
1769	109,22		105,28

	VALENCIA	ANDALUSIA	NEW CASTILE
	Valencia	Sevilla	Casarrubios del Monte
1770	98,30	94,08	77,40
1771	86,30	67,35	57,20
1772	110,46	103,94	87,07
1773	124,49	127,37	98,00
1774	103,37	93,71	64,92
1775	115,18	94,31	
1776	102,64		64,52
1777	100,41		64,88
1778	96,49		
1779	107,56		87,48
1780	124,85		132,32
1781	112,56		74,36
1782	87,12		79,83
1783	80,56		55,36
1784	98,55		
1785	113,17		
1786	117,84		
1787	112,24	134,49	118,43
1788	94,86		112,26
1789	112,50		125,22
1790	117,40		115,98
1791	102,93		73,40
1792	130,53		93,20
1793	139,81		130,07
1794	146,12		142,49
1795	164,11		102,33
1796	150,39		
1797			
1798			141,41
1799			127,38
1800			

A1b. WHEAT PRICE IN OLD CASTILE-LEÓN (1651-1800)

Prices in Grams of Silver per Hectolitre

In the chapter he devoted to the complicate world of Early Modern Spanish metrology, Hamilton expressed his doubts on the metric equivalence of the *fanega* of wheat in León. In Hamilton (1934, p. 169) he wrote:

“Comparisons of prices and the estimates of metrologists indicate that Burgos and Palencia adopted the Avila fanega and that the arid measures of Leon were about 20 per cent below the Castilian standards”

It it were true, the fanega of wheat in León would equal 44.40 litres approximately. However, it seems that Hamilton erred in this supposition. According to other sources, the equivalence would be higher, and closer to the Castilian standards, oscilating between the 55.22 (Sebastián Amarilla, 1992) and 55.44 litres (Aravaca y Torrent, 1867). In Figure 1, the representation of Mansilla's prices is based on the estimation of Hamilton even though it is most likely mistaken. In the following table I present wheat prices in grams of silver per hectolitre using those three equivalences of the fanega.

	Hamilton (1934)	Sebastián Amarilla (1992)	Aravaca (1867)
1651	84,66	69,33	69,07
1652	62,26	50,98	50,80
1653	53,17	43,54	43,38
1654	53,20	43,57	43,41
1655	53,21	43,57	43,41
1656	54,17	44,36	44,20
1657	51,15	41,88	41,73
1658	47,92	39,24	39,09
1659	72,89	59,69	59,47
1660	81,32	66,59	66,35
1661	77,53	63,49	63,26
1662	71,66	58,68	58,47
1663	53,68	43,96	43,80
1664	55,95	45,81	45,64
1665	72,79	59,61	59,39
1666	59,52	48,74	48,56
1667	88,17	72,20	71,93
1668	79,00	64,69	64,45
1669	71,19	58,29	58,08
1670	48,41	39,64	39,50
1671	45,46	37,23	37,09
1672	41,31	33,82	33,70
1673	40,68	33,31	33,19
1674	30,15	24,69	24,60
1675	43,20	35,38	35,25
1676	62,46	51,14	50,96
1677	53,16	43,53	43,37

	Hamilton (1934)	Sebastián Amarilla (1992)	Aravaca (1867)
1678	81,23	66,52	66,28
1679	57,12	46,77	46,60
1680	67,91	55,61	55,41
1681	55,22	45,22	45,05
1682	33,58	27,50	27,40
1683	41,17	33,72	33,59
1684	84,86	69,49	69,24
1685	88,16	72,19	71,93
1686	97,76	80,05	79,76
1687	43,57	35,68	35,55
1688	33,48	27,42	27,32
1689	30,14	24,68	24,59
1690	28,46	23,31	23,22
1691	44,96	36,82	36,68
1692	56,93	46,62	46,44
1693	67,61	55,36	55,16
1694	58,84	48,18	48,01
1695	38,91	31,86	31,74
1696	28,70	23,50	23,42
1697	27,74	22,72	22,63
1698	47,19	38,64	38,50
1699	79,64	65,21	64,97
1700	74,70	61,17	60,94
1701	45,28	37,08	36,94
1702	33,97	27,81	27,71
1703	43,05	35,25	35,12
1704	48,25	39,51	39,36
1705	52,42	42,93	42,77
1706	42,73	34,99	34,87
1707	56,44	46,22	46,05
1708	41,29	33,81	33,69
1709	61,40	50,28	50,09
1710	88,70	72,63	72,37
1711	43,21	35,38	35,25
1712	49,66	40,66	40,51
1713	45,50	37,26	37,12
1714	45,11	36,94	36,81
1715	49,70	40,70	40,55
1716	42,06	34,44	34,31
1717	31,60	25,88	25,78
1718	20,94	17,15	17,09
1719	20,39	16,70	16,64
1720	18,99	15,55	15,49
1721	16,06	13,15	13,10

	Hamilton (1934)	Sebastián Amarilla (1992)	Aravaca (1867)
1722	19,88	16,28	16,22
1723	26,68	21,85	21,77
1724	28,85	23,62	23,54
1725	25,23	20,66	20,59
1726	27,01	22,12	22,04
1727	34,98	28,65	28,54
1728	34,53	28,28	28,18
1729	40,40	33,09	32,96
1730	38,95	31,90	31,78
1731	28,55	23,38	23,30
1732	30,89	25,30	25,20
1733	50,58	41,42	41,27
1734	57,35	46,96	46,79
1735	44,30	36,28	36,15
1736	31,01	25,40	25,30
1737	46,89	38,40	38,26
1738	51,22	41,94	41,79
1739	40,31	33,01	32,89
1740	44,58	36,51	36,37
1741	52,64	43,11	42,95
1742	51,22	41,94	41,79
1743	29,88	24,47	24,38
1744	19,92	16,31	16,25
1745	28,66	23,47	23,38
1746	32,61	26,70	26,60
1747	41,74	34,18	34,05
1748	57,39	46,99	46,82
1749	67,70	55,44	55,23
1750	48,73	39,91	39,76
1751	42,05	34,43	34,30
1752	50,51	41,36	41,21
1753	66,87	54,76	54,56
1754	75,88	62,14	61,91
1755	53,83	44,08	43,92
1756	28,81	23,60	23,51
1757	28,93	23,69	23,60
1758	30,11	24,66	24,57
1759	36,28	29,71	29,60
1760	46,07	37,73	37,59
1761	66,63	54,57	54,37
1762	57,39	46,99	46,82
1763	64,74	53,01	52,82
1764	79,67	65,24	65,00
1765	79,67	65,24	65,00

	Hamilton (1934)	Sebastián Amarilla (1992)	Aravaca (1867)
1766	85,01	69,62	69,36
1767	42,68	34,95	34,82
1768	81,10	66,41	66,16
1769	85,01	69,62	69,36
1770	85,36	69,90	69,65
1771	100,30	82,14	81,84
1772	73,27	60,00	59,78
1773	64,92	53,16	52,97
1774	75,40	61,75	61,52
1775	45,79	37,50	37,36
1776	63,56	52,05	51,86
1777	68,34	55,97	55,76
1778	61,51	50,37	50,18
1779	61,51	50,37	50,18
1780	75,99	62,23	62,00
1781	79,96	65,48	65,24
1782	49,21	40,30	40,15
1783	62,19	50,93	50,74
1784	49,21	40,30	40,15
1785	55,36	45,33	45,17
1786	76,55	62,68	62,45
1787	71,98	58,94	58,73
1788	91,08	74,58	74,31
1789	91,08	74,58	74,31
1790	134,93	110,49	110,09
1791	91,75	75,14	74,86
1792	58,70	48,07	47,89
1793	89,51	73,30	73,03
1794	107,27	87,84	87,52
1795	107,16	87,75	87,43
1796	69,49	56,90	56,70
1797	73,35	60,06	59,84
1798	196,16	160,63	160,04
1799	77,59	63,53	63,30
1800	70,16	57,46	57,25

A2. CHICKPEAS (1651-1800)

Prices in Grams of Silver per Kilogram

Source: see text

Chickpea prices. Two proposals: Old Castile-León (1661-1800) and New Castile (1651-1800)

The series for Old Castile-León has been compiled from data collected for Segovia – measured in *arrobos* (1) and in *celemines* (2) -, Nieva, Salamanca, Ciudad Rodrigo, León, Valladolid (a) (See institutions and dates in Tables 1 and 2 in the text). Additional data is from the Cistercian monastery of San Joaquín y Santa Ana de Valladolid (Valladolid b) between 1751 and 1800¹. The proposal for New Castile was compiled using quarterly averages for purchases made by different institutions in Casarrubios (Convento de las Bernardas), Toledo (Dominicos de San Juan) and Madrid (Hospital Venerable Orden Tercera).

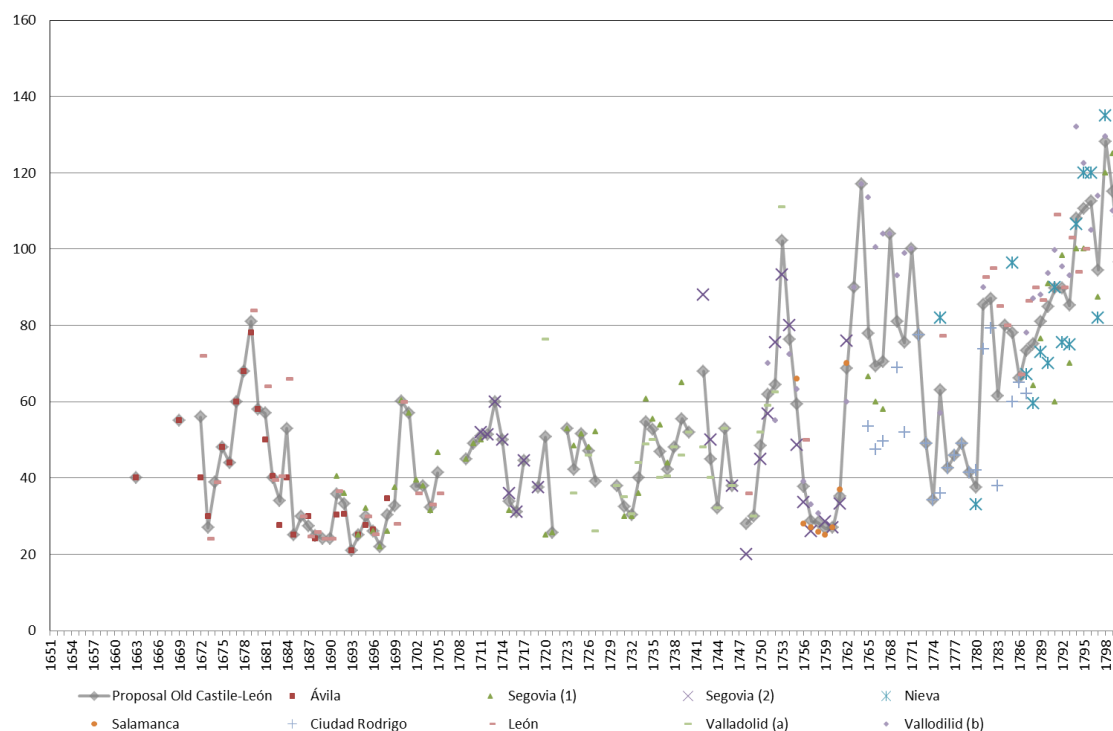


Figure a: Chickpea prices in Old Castile-León. *Maravedís per Fanega*

Source: EHP-MWS, Box 5 - Old Castile prices (3 folders). Archivo Histórico Nacional (AHN), Clero Secular Regular, Libros 16901 y 16919

¹ Prices from the Monastery of San Joaquín and Santa Ana of Valladolid have been converted to calendar years using this formula: (year 1+year 2)/2 when needed.

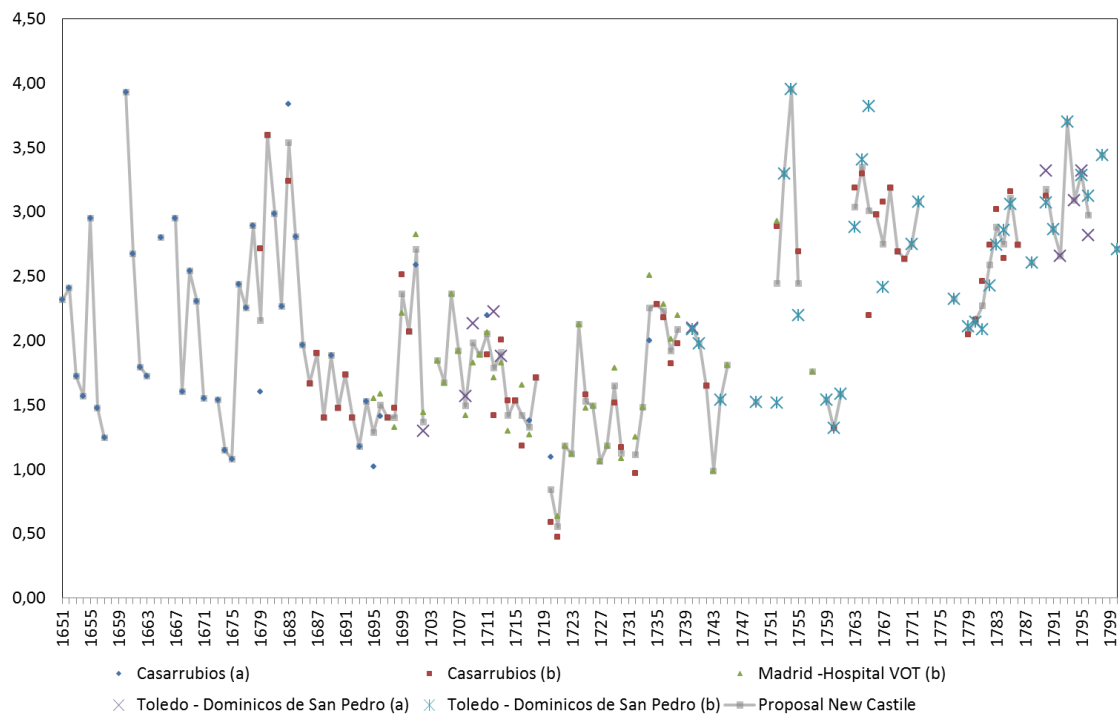


Figure b. Chickpea prices in New Castile: a proposal. Grams of Silver per Kg.

Source: EHP-MWS, Box 7 - New Castile, original price sheets, 1651-1800.

(a) Purchases in *Fanegas*

(b) Purchases in *Arrobas*

	VALENCIA	ANDALUSIA	NEW CASTILE	OLD CASTILE-LEÓN
	Valencia	Seville	Proposal New Castile	Proposal Old Castile-León
1651		3,28	2,32	
1652		2,85	2,41	
1653			1,72	
1654		2,01	1,57	
1655		1,38	2,95	
1656		1,38	1,48	
1657		1,26	1,25	
1658		3,14		
1659	1,94	3,31		
1660		1,59	3,93	
1661	1,72	1,34	2,67	
1662		1,68	1,79	
1663		2,27	1,72	1,50
1664		2,49		
1665		3,40	2,80	
1666		2,21		
1667		1,89	2,95	
1668		2,87	1,60	
1669		1,76	2,54	1,49
1670		1,82	2,31	

	VALENCIA	ANDALUSIA	NEW CASTILE	OLD CASTILE-LEÓN
	Valencia	Seville	Proposal New Castile	Proposal Old Castile-León
1671		1,75	1,55	
1672		1,28		1,44
1673			1,54	0,69
1674		0,93	1,15	0,99
1675		0,81	1,08	1,18
1676		0,81	2,44	1,05
1677		1,70	2,26	1,42
1678		1,78	2,89	1,57
1679		1,15	2,16	1,80
1680		2,51	3,60	2,31
1681			2,99	2,27
1682		1,94	2,26	1,97
1683		2,89	3,54	1,67
1684			2,80	2,61
1685		2,07	1,97	1,23
1686		1,13	1,67	1,48
1687		1,38	1,90	1,28
1688		0,84	1,40	0,98
1689		0,55	1,88	0,94
1690		0,64	1,48	0,94
1691		0,71	1,74	1,40
1692		0,79	1,40	1,30
1693		0,39	1,18	0,82
1694		0,67	1,53	0,98
1695			1,29	1,17
1696			1,50	1,02
1697		1,98	1,40	0,86
1698		1,56	1,40	1,19
1699		1,71	2,36	1,29
1700		1,35	2,07	2,36
1701	1,51	1,13	2,71	2,24
1702		1,41	1,37	1,48
1703	2,12	1,26		1,49
1704	1,54	1,75	1,85	1,27
1705		1,45	1,67	1,62
1706		1,29	2,36	
1707			1,92	
1708	1,87	0,91	1,49	
1709	0,94	1,39	1,98	1,41
1710	2,18	1,10	1,89	1,54
1711	1,36	0,91	2,05	1,60
1712		0,69	1,79	1,61

	VALENCIA	ANDALUSIA	NEW CASTILE	OLD CASTILE-LEÓN
	Valencia	Seville	Proposal New Castile	Proposal Old Castile-León
1713	1,40	0,82	1,91	1,88
1714	1,48	1,02	1,42	1,57
1715		0,82	1,54	1,06
1716	1,12	0,66	1,42	0,98
1717		0,94	1,32	1,40
1718	0,83	1,46	1,71	
1719	1,04	0,72		1,18
1720	1,04	0,69	0,84	1,59
1721		0,63	0,55	0,81
1722	1,04		1,18	
1723		1,18	1,12	1,66
1724	1,56	1,46	2,13	1,32
1725	1,71	1,18	1,53	1,62
1726	1,56	0,93	1,49	1,47
1727		0,54	1,06	1,23
1728			1,18	
1729	1,20	0,85	1,65	
1730	0,90		1,13	1,15
1731		1,26		0,98
1732	1,66	1,06	1,11	0,92
1733		0,86	1,48	1,21
1734	1,56		2,25	1,66
1735		1,63	2,28	1,60
1736		1,74	2,23	1,42
1737		1,42	1,92	1,28
1738		1,17	2,09	1,40
1739		0,82		1,62
1740	1,14		2,09	1,52
1741		1,05	1,98	
1742			1,65	1,98
1743			0,99	1,31
1744		0,55	1,54	0,93
1745		1,17	1,81	1,55
1746		0,58		1,11
1747		0,67		
1748				0,82
1749			1,52	0,88
1750		0,79		1,42
1751				1,81
1752		1,34	2,44	1,88
1753		2,01	3,30	2,98
1754			3,95	2,22

	VALENCIA	ANDALUSIA	NEW CASTILE	OLD CASTILE-LEÓN
	Valencia	Seville	Proposal New Castile	Proposal Old Castile-León
1755		0,99	2,44	1,73
1756	1,42	0,79		1,10
1757	1,42	1,17	1,76	0,84
1758		1,58		0,83
1759		1,34	1,54	0,78
1760		1,20	1,32	0,79
1761		1,05	1,59	1,03
1762		1,66		2,00
1763		2,10	3,03	2,63
1764		1,40	3,35	3,41
1765		1,75	3,01	2,27
1766		1,23	2,98	2,02
1767		1,52	2,75	2,06
1768		1,52	3,19	3,03
1769		1,60	2,69	2,36
1770		1,58	2,64	2,20
1771		1,52	2,75	2,92
1772		1,55	3,08	2,26
1773				1,38
1774				0,96
1775				1,77
1776				1,19
1777			2,32	1,29
1778				1,37
1779			2,08	1,16
1780			2,15	1,05
1781			2,27	2,39
1782			2,59	2,44
1783			2,88	1,72
1784			2,75	2,24
1785			3,11	2,19
1786			2,74	1,85
1787				2,04
1788			2,60	2,08
1789		1,86		2,24
1790			3,17	2,35
1791		2,28	2,87	2,48
1792		2,35	2,66	2,49
1793		2,92	3,70	2,36
1794	2,07	2,05	3,09	2,99
1795	3,36	3,59	3,30	3,06
1796		2,64	2,97	3,11

	VALENCIA	ANDALUSIA	NEW CASTILE	OLD CASTILE-LEÓN
	Valencia	Seville	Proposal New Castile	Proposal Old Castile-León
1797		2,68		2,62
1798		1,96	3,44	3,55
1799		2,49		3,18
1800		2,67	2,71	2,67

A3. BEANS (1651-1800)

Prices in Grams of Silver per Kilogram

Source: see text

	VALENCIA	NEW CASTILE	OLD CASTILE-LEÓN	OLD CASTILE-LEÓN
	Valencia	Casarrubios del Monte	Valladolid	Mansilla
1651				
1652				
1653				
1654				
1655				
1656				
1657				
1658				
1659				
1660				
1661				2,22
1662				1,91
1663				1,94
1664				
1665				
1666				
1667				
1668				
1669				
1670				
1671				1,22
1672				
1673				
1674				
1675				
1676				
1677				
1678				
1679				
1680				
1681				1,87
1682				
1683				
1684				1,48
1685				0,89
1686				
1687		2,55		0,84

	VALENCIA	NEW CASTILE	OLD CASTILE-LEÓN	OLD CASTILE-LEÓN
	Valencia	Casarrubios del Monte	Valladolid	Mansilla
1688		2,07		0,94
1689		2,22		0,71
1690		2,14		1,06
1691		2,22		
1692		2,07		
1693		1,33		
1694		1,99		
1695		1,63		
1696				
1697		1,48		1,41
1698		1,48		1,29
1699				
1700		2,66		1,41
1701	0,87	2,07		1,18
1702				
1703	1,16	1,64		0,82
1704	1,06	1,63		0,82
1705				0,88
1706		1,99		0,71
1707		2,36		0,88
1708		1,59		
1709		1,30		
1710		1,36		
1711		1,30		1,13
1712		1,23		
1713		1,24		0,85
1714				
1715		1,36		0,80
1716		0,94		0,75
1717	0,66	0,71		
1718		1,06		
1719		0,56		0,75
1720		0,37		
1721				0,75
1722		0,91		0,66
1723		0,83		0,47
1724		1,18		0,77
1725				0,75
1726		1,65		
1727		1,51		
1728		1,18		
1729		1,37		0,56

	VALENCIA	NEW CASTILE	OLD CASTILE-LEÓN	OLD CASTILE-LEÓN
	Valencia	Casarrubios del Monte	Valladolid	Mansilla
1730				0,65
1731				0,67
1732		1,44		
1733				0,82
1734		2,25		
1735		2,51		
1736		1,94		
1737		2,05		0,91
1738		2,20		1,05
1739		2,36		0,70
1740		1,98		
1741		2,09		
1742	0,43	1,30		
1743	0,75	1,59		
1744		1,61		
1745		1,63		0,68
1746		1,45		0,70
1747		1,49		0,96
1748		1,25		0,96
1749		1,34		
1750	1,03	1,66		
1751		1,95	1,03	
1752	1,00	1,65		
1753				
1754	1,07	2,20	1,66	
1755	1,22	2,47	1,30	
1756	1,07	2,07	1,41	1,14
1757	0,85	1,48	1,19	0,99
1758		1,85	1,17	0,70
1759	1,00	1,64	1,09	
1760		1,50	0,76	
1761	0,85	1,50	1,30	
1762	1,07	1,70	1,19	
1763		2,27	1,52	
1764		2,87	1,85	
1765	1,35	3,30	1,74	1,75
1766	1,19	2,84	1,21	
1767	1,36	2,47	1,40	0,55
1768		1,87	1,09	
1769		1,81	1,57	
1770	1,19	2,91	1,95	1,40
1771		2,52	1,85	

	VALENCIA	NEW CASTILE	OLD CASTILE-LEÓN	OLD CASTILE-LEÓN
	Valencia	Casarrubios del Monte	Valladolid	Mansilla
1772		1,98	1,30	
1773		2,42	1,47	
1774	1,22	2,58	1,41	
1775		2,75	1,56	1,75
1776		2,22	1,60	1,01
1777	1,68	2,22	1,77	1,35
1778	1,60	2,11	1,88	1,43
1779	1,40	2,36		1,16
1780	1,60	2,33		1,01
1781	1,76	2,32	1,60	
1782	1,91	2,96	1,56	1,35
1783	1,67	2,35	1,56	1,71
1784	1,59	1,64	1,46	1,56
1785	1,71	2,43	1,25	
1786	1,82	2,13	1,56	0,45
1787	1,38	2,10	1,45	1,71
1788	1,43	2,71	1,85	1,59
1789	1,45	2,60	1,85	1,49
1790	1,59	3,00	1,54	
1791	1,54	4,86	1,54	1,70
1792	1,64	2,87	1,34	
1793	1,73	2,73	2,26	
1794		3,00	2,06	
1795			1,90	1,83
1796		2,80	2,68	
1797	1,80	3,44	2,16	
1798		3,23	2,37	
1799	1,73	3,07	2,83	2,08
1800	1,91	2,81	2,42	

A4. MUTTON (1651-1800)

Prices in Grams of Silver per Kilogram

Source: see text

	VALENCIA	ANDALUSIA	NEW CASTILE	NEW CASTILE	OLD CASTILE-LEÓN
	Valencia	Seville	Toledo	Madrid	Valladolid
1651	6,42	6,39			4,14
1652	6,29	6,29			4,55
1653	6,56	7,74	7,05		4,77
1654	6,84	7,07	6,60		5,16
1655	7,15	6,47	6,65		4,97
1656	7,15	5,83	6,06		4,22
1657	7,04	4,57	5,75		3,53
1658	7,04	5,03	6,03		3,72
1659	7,15	6,53			3,34
1660	7,08	6,19	5,31		3,17
1661		5,80	6,09		3,64
1662		4,80	5,54		3,10
1663	7,15	5,39	5,88		3,01
1664			6,29		3,34
1665		5,69	6,26		4,49
1666		4,89	5,90		
1667		5,44	6,06		3,83
1668		5,76	6,29		3,87
1669		5,10	4,79		3,48
1670		4,50	4,48		3,08
1671		4,15	4,09		2,69
1672		3,80	4,12		1,85
1673		4,44	4,12		2,27
1674		3,98	4,24		2,29
1675		4,07	4,35		2,84
1676		3,71	5,29		3,57
1677		4,22			3,86
1678		3,23	5,13		3,43
1679	4,53	3,56	4,69		3,70
1680	4,53	4,96	6,47		5,89
1681		3,54	5,62		3,75
1682		3,83	6,27		3,50
1683		4,35	6,27		
1684		5,96			4,09
1685		6,93			3,85
1686		4,07			3,00
1687		4,37	4,66		2,47

	VALENCIA	ANDALUSIA	NEW CASTILE	NEW CASTILE	OLD CASTILE-LEÓN
	Valencia	Seville	Toledo	Madrid	Valladolid
1688		3,38	4,09		2,36
1689		3,63	4,02		2,50
1690			3,78	4,56	2,15
1691		2,60	3,75		2,05
1692		3,41	3,85		1,97
1693		3,45	3,83		2,01
1694		3,57	3,91	5,88	3,39
1695		5,22		6,66	4,10
1696		5,87		6,19	4,13
1697			5,29	5,76	3,88
1698		3,84	4,97	5,76	3,48
1699		3,86	4,25	5,00	2,75
1700		4,02	3,48	4,48	2,69
1701		3,38	3,67	4,35	3,29
1702		4,02	3,98	4,56	3,64
1703	5,91	3,25		4,78	3,48
1704	5,91	3,31	4,26	4,78	
1705		3,67	4,29	4,45	
1706		4,04	4,74	5,00	
1707	4,06		4,49	5,00	3,04
1708	3,82	3,00	3,94	4,17	2,97
1709	3,82	3,39	3,99	4,25	3,26
1710	5,74	2,95	3,82	4,17	3,17
1711		3,00	3,70	4,25	3,18
1712	5,66	2,77	3,82	4,25	3,13
1713	5,74	3,04	3,78	4,34	3,05
1714	3,90	2,47	3,82	4,34	2,87
1715	3,67	2,39	4,17	4,52	2,93
1716	5,42	2,64	4,07	4,43	3,05
1717		2,53	3,82	3,99	3,13
1718	3,67	2,40	3,56	3,99	2,67
1719	3,67		3,71	4,17	2,17
1720	3,67	2,08	3,49	4,17	2,35
1721	3,67	1,98	3,41	4,08	3,13
1722		2,31	3,67	4,34	2,69
1723		1,91	3,52	4,17	2,41
1724	3,51	2,19	3,21	3,99	2,59
1725	3,67	2,67	3,60	3,91	2,88
1726	3,67	2,92	3,85	3,99	2,82
1727	3,67	2,68	4,12	4,38	3,24
1728	3,54	3,13	4,10	4,69	2,95
1729	3,54	2,30	3,73	4,20	3,26

	VALENCIA	ANDALUSIA	NEW CASTILE	NEW CASTILE	OLD CASTILE-LEÓN
	Valencia	Seville	Toledo	Madrid	Valladolid
1730	3,54		3,23	3,69	3,19
1731	3,54	2,38	3,42	3,94	2,91
1732	3,54	2,57	3,60	4,19	2,62
1733		2,68	3,84	4,19	2,29
1734	3,91	2,68	4,02	4,53	2,35
1735	3,77	2,93	4,28	4,53	2,77
1736	3,69	3,02	3,94	4,53	2,93
1737	4,02	2,13	3,91	4,53	2,81
1738	3,93	3,55	3,96	4,20	2,50
1739	4,04	2,42	3,84	4,04	2,26
1740	3,93	2,91	3,69	4,04	2,26
1741	3,71	2,44	3,77		2,26
1742	3,78	2,46	3,69	4,69	2,34
1743	3,49	2,50	3,55	3,72	2,75
1744	3,49	2,05	3,37	3,72	2,10
1745	3,49	2,49	2,99	3,72	1,49
1746	3,49	2,17	2,26	3,64	1,29
1747	3,35	2,18	2,26	3,23	1,62
1748	3,49	2,00	2,26	3,23	1,52
1749	3,35	1,85	2,26	3,23	1,41
1750	3,71	1,91	3,09	3,55	2,50
1751	3,78	2,45	3,39	3,88	3,23
1752	3,35	2,25	3,55	3,88	3,07
1753	4,51	3,85	3,98	4,47	3,68
1754	4,53	4,36	4,40	5,09	3,80
1755	4,58	3,72	3,96	4,85	4,04
1756	3,71	3,03	3,51	4,60	3,55
1757	3,77	2,91	3,23	4,04	3,15
1758	4,22	3,31	3,15	3,88	3,07
1759	4,04	3,11	3,15	3,80	2,75
1760	2,65	3,47	3,17	3,55	2,67
1761	3,47	3,07	3,23	3,55	2,89
1762	3,37	3,31	3,27	3,55	3,15
1763	3,16	3,39	3,55	3,72	3,23
1764	3,31	3,31	3,72	3,88	3,23
1765	3,26	3,47	3,55	3,88	3,43
1766	3,64	3,96	3,82	3,96	3,55
1767	4,17	4,42	4,20	4,52	3,55
1768	3,78	3,55	3,99	4,52	3,55
1769	4,36	3,96	3,93	4,52	3,45
1770	4,44	3,64	3,92	4,52	3,55
1771	4,44	4,12	3,88	4,52	3,44

	VALENCIA	ANDALUSIA	NEW CASTILE	NEW CASTILE	OLD CASTILE-LEÓN
	Valencia	Seville	Toledo	Madrid	Valladolid
1772	4,43	3,72	3,68	4,52	3,55
1773	4,09	3,36	3,20	4,38	3,31
1774		3,05	2,83	4,35	3,21
1775	4,22	3,26	2,99	4,35	3,37
1776	3,85	3,10		4,35	3,24
1777		3,18	2,91	4,35	3,10
1778		3,30	2,95	4,35	3,28
1779	4,96	2,93	3,18	4,35	3,30
1780	4,00	4,11	3,57	4,35	3,34
1781	5,72	4,35	4,04	4,66	3,88
1782	5,15	4,50	3,73	4,81	4,37
1783	6,01	4,19	4,07	5,28	4,31
1784	4,87	3,22	4,23	5,28	3,69
1785	3,50	3,63	4,04	5,20	3,48
1786	3,65	4,42	3,55	4,81	3,73
1787	4,38	4,24	3,51	4,63	3,75
1788	4,52	3,52		4,60	3,75
1789	4,52	4,33		4,60	4,01
1790	4,52	3,98		4,75	3,97
1791	4,37	3,91		4,90	3,81
1792	4,37	3,83	4,52	4,90	4,23
1793	4,45	3,75	4,44	4,90	4,25
1794	4,82	5,06	4,60	5,21	4,27
1795	7,04	4,65	4,52	5,36	
1796	6,92	4,79	4,60	5,52	
1797	6,32	5,25	4,90	5,52	4,77
1798	6,46	4,90	5,07	5,82	
1799	7,34	5,36		6,21	5,32
1800	6,20	5,82	5,21	6,90	5,45

A5. OLIVE OIL (1651-1800)

Prices in Grams of Silver per Hectolitre

Source: see text

	VALENCIA	VALENCIA	ANDALUSIA
	Valencia	Valencia	Seville
	<i>Hospital dels Inocens</i>	<i>Colegio Santo Tomás</i>	<i>Hospital de la Sangre</i>
1651	463,69		361,13
1652	475,97		271,09
1653	360,93		218,55
1654	376,26		267,63
1655	339,91		250,35
1656	437,66		213,26
1657	329,59		195,52
1658	369,87		204,97
1659	258,37		247,57
1660	286,66		187,90
1661	251,49	324,19	274,26
1662	294,72		266,93
1663	274,87	321,24	206,89
1664	335,78	404,75	403,53
1665	425,90	478,11	403,77
1666	396,65	465,72	282,61
1667	359,72	426,51	276,38
1668	370,75	394,63	240,12
1669	465,97	523,65	391,54
1670	388,76		212,92
1671	283,12	424,99	156,70
1672	319,04	359,72	216,99
1673	201,16	290,41	162,96
1674	210,47	279,28	175,94
1675	225,55	279,28	149,00
1676	342,11	364,27	148,39
1677	408,80	422,29	211,57
1678	347,17	397,16	246,99
1679	348,19	413,52	172,37
1680	299,01	460,07	274,60
1681	430,96	305,08	255,58
1682	250,02	277,34	264,28
1683	314,14		412,44
1684	316,25	331,16	413,04
1685	266,31	298,73	246,11
1686	243,77	309,08	178,02

	VALENCIA	VALENCIA	ANDALUSIA
	Valencia	Valencia	Seville
	<i>Hospital dels Inocens</i>	<i>Colegio Santo Tomás</i>	<i>Hospital de la Sangre</i>
1687	274,77	325,64	260,65
1688	215,25		219,31
1689	204,21	365,65	179,62
1690	219,58	315,98	214,18
1691	251,22	279,03	302,05
1692	271,55	319,66	190,88
1693	234,50	304,89	176,43
1694	285,98	313,25	172,33
1695	269,78	276,30	181,37
1696	267,50	270,58	169,54
1697	367,81	384,53	198,37
1698	326,45	369,13	206,17
1699	388,05	587,70	298,95
1700	405,47	436,12	245,95
1701	337,45	364,29	249,61
1702	288,62	364,29	257,66
1703	324,52	376,61	289,67
1704	277,18	306,65	234,80
1705	288,88	295,65	166,60
1706	245,50	250,78	169,46
1707	275,09	289,74	191,92
1708	251,83	212,70	140,73
1709	292,94	326,34	147,48
1710	249,62	234,40	111,17
1711	272,38	339,15	134,24
1712	295,79	264,63	196,81
1713	303,97	290,24	212,02
1714	297,50	333,17	217,56
1715	301,62	347,86	252,95
1716	332,14	331,94	196,59
1717	262,71	316,65	164,35
1718	235,82	287,87	174,05
1719	304,40	328,30	172,85
1720	281,56	308,74	174,95
1721	215,55	211,46	133,92
1722	261,07	231,55	166,83
1723	228,49	212,70	175,55
1724	229,99		175,55
1725	203,17	221,95	147,89
1726	271,67		162,31
1727	206,72	228,35	135,26

	VALENCIA	VALENCIA	ANDALUSIA
	Valencia	Valencia	Seville
	<i>Hospital dels Inocens</i>	<i>Colegio Santo Tomás</i>	<i>Hospital de la Sangre</i>
1728	269,01	296,84	211,55
1729	255,34	256,30	170,45
1730	199,34		106,58
1731	234,24		160,21
1732	233,90	255,61	180,25
1733	260,58	260,00	177,64
1734	230,76		186,34
1735	236,97	285,48	177,64
1736	240,59	236,78	160,21
1737	227,92	275,10	203,76
1738	291,26	290,23	181,20
1739	263,02	265,23	173,21
1740	289,58	294,12	178,95
1741	276,85	245,91	172,83
1742	299,25	227,90	171,14
1743	242,50		203,03
1744	253,09		183,72
1745	233,74	211,11	192,96
1746	247,37	190,89	181,20
1747	251,46	170,11	158,55
1748	296,91		192,90
1749	242,24		139,69
1750	284,90		176,17
1751	305,55		199,44
1752	316,78		156,04
1753	261,79	260,36	149,32
1754	310,81		196,84
1755	314,77	336,00	208,83
1756	305,68	336,00	210,16
1757	318,34		213,33
1758	290,81		204,89
1759	297,76	301,91	185,50
1760	280,94	317,49	179,40
1761	293,47	296,07	212,32
1762	208,87	202,57	202,76
1763	234,71		210,64
1764	277,89	319,44	214,81
1765	328,53	324,31	298,34
1766	357,43	342,82	348,67
1767	319,18	381,77	230,77
1768	430,47	389,56	278,94

	VALENCIA	VALENCIA	ANDALUSIA
	Valencia	Valencia	Seville
	<i>Hospital dels Inocens</i>	<i>Colegio Santo Tomás</i>	<i>Hospital de la Sangre</i>
1769	468,45		362,11
1770	389,89		318,71
1771	449,56	405,15	341,15
1772	466,71	567,63	359,95
1773	375,56	348,55	250,70
1774	406,97	459,63	254,99
1775	457,27	555,39	289,18
1776	360,43	306,42	294,02
1777	377,92	354,94	276,24
1778	340,89	402,18	240,63
1779	348,55	454,52	269,90
1780	354,94	412,71	276,72
1781	389,28	497,30	312,85
1782	352,38	405,05	250,92
1783	383,03	416,22	277,44
1784	461,23	538,79	332,62
1785	484,21	522,83	389,00
1786	453,81	431,29	315,84
1787	391,00	438,57	280,09
1788	329,56	517,97	280,38
1789	336,18	471,97	306,30
1790	302,46	397,74	226,67
1791	448,66	517,97	288,58
1792	487,09	517,97	292,23
1793	480,04	577,05	386,25
1794	434,48	506,63	369,82
1795	521,56	618,32	323,80
1796	469,20	550,61	400,12
1797	604,36	870,85	683,45
1798	733,60	869,59	724,54
1799	611,61	725,07	353,87
1800	440,65	521,75	360,81

	NEW CASTILE	NEW CASTILE	NEW CASTILE
	Toledo	Casarrubios del Monte	Madrid
	<i>Hospital Tavera</i>	<i>Convento Bernardas</i>	<i>Hospital VOT*</i>
1651	474,24		
1652	571,84		
1653	457,82		
1654			
1655	555,86		
1656	369,16	381,89	
1657	299,40	325,86	
1658	334,79		
1659	387,41		
1660	372,51	272,25	
1661	363,48		
1662	357,23		
1663	395,19	313,57	
1664	495,91	477,79	
1665	565,91	495,97	
1666	426,07	423,35	
1667	439,93	445,17	
1668	509,34	442,49	
1669	495,03	486,26	
1670	307,03	318,83	
1671	278,60	239,75	
1672	305,18	309,98	
1673	252,41	242,45	
1674	267,18	255,11	
1675	260,15	220,59	
1676	325,29	326,66	
1677	322,98	322,95	
1678	309,73	307,27	
1679	341,71	355,89	
1680	500,28	503,50	
1681	424,19	427,34	
1682	327,08	275,34	
1683	263,08	633,66	
1684	751,05	564,60	
1685	356,43		
1686	343,70	237,62	
1687	435,29	261,98	
1688	321,52	311,37	
1689	324,11	248,76	
1690	433,21	322,08	
1691		390,35	

	NEW CASTILE Toledo <i>Hospital Tavera</i>	NEW CASTILE Casarrubios del Monte <i>Convent Bernardas</i>	NEW CASTILE Madrid <i>Hospital VOT*</i>
1692	317,00	333,41	338,45
1693	257,22	221,68	270,76
1694		253,95	
1695	338,45	324,91	406,14
1696	250,45	230,66	264,59
1697	324,91	315,95	324,91
1698	429,83		433,21
1699	436,03	379,06	484,73
1700	417,42	407,64	385,83
1701		371,49	377,91
1702	381,70	293,32	309,68
1703	354,24	345,22	351,98
1704	313,08	297,83	311,37
1705	275,14	257,22	287,48
1706	257,22	263,99	236,91
1707		266,26	284,29
1708	224,69	167,72	183,00
1709	227,24	148,78	216,41
1710	220,92	192,07	190,32
1711		238,06	286,75
1712	304,62	324,62	313,80
1713	282,12	248,88	243,47
1714	330,94	259,70	328,44
1715		340,85	357,08
1716		265,11	259,70
1717		259,70	
1718		189,36	
1719			
1720		259,70	
1721	238,06	200,18	
1722	221,82	227,24	
1723	194,77	194,77	
1724	216,41	226,28	
1725	200,18	211,00	297,57
1726	213,23	205,59	211,00
1727	181,15		162,31
1728	228,59	227,24	218,32
1729	212,43	202,85	229,54
1730	156,74	167,19	177,64
1731		231,25	
1732	190,70	193,31	198,54

	NEW CASTILE Toledo <i>Hospital Tavera</i>	NEW CASTILE Casarrubios del Monte <i>Convent Bernardas</i>	NEW CASTILE Madrid <i>Hospital VOT*</i>
1733	182,86	201,15	190,55
1734	208,99	271,68	
1735		297,81	
1736	216,83	240,34	235,11
1737	188,09	276,91	284,75
1738		302,01	284,39
1739	241,61	246,64	269,14
1740	242,88	271,81	281,87
1741	192,46	251,67	
1742		241,61	
1743	241,61	241,61	241,61
1744	266,77	251,90	271,81
1745	241,61		
1746	175,67	203,56	
1747			
1748	254,19	241,53	
1749	188,75	240,98	
1750	322,14	281,87	
1751			
1752	239,09		
1753	226,51		
1754	328,51		
1755	312,07		
1756			
1757	306,01		
1758	276,00		
1759	221,47		
1760	221,47		
1761	291,94		
1762	264,26		
1763	231,54		
1764	271,81		
1765	281,87		
1766	440,43		
1767	236,57		
1768	310,59		
1769	451,38		
1770	346,05		
1771	442,95		
1772	453,01		
1773	321,40		

	NEW CASTILE Toledo <i>Hospital Tavera</i>	NEW CASTILE Casarrubios del Monte <i>Convent Bernardas</i>	NEW CASTILE Madrid <i>Hospital VOT*</i>
1774	373,21		
1775	420,44		
1776	407,35		
1777	348,18		
1778	304,66		
1779	357,85		
1780	362,69		
1781	425,56		
1782	436,36		
1783	444,90		
1784	304,66		
1785	469,08		
1786	336,09		
1787	408,41		
1788			
1789	400,99		
1790	443,95		
1791			
1792	377,68		
1793	541,82		
1794	601,49		
1795			
1796	415,31		
1797	725,60	613,90	
1798	954,74		
1799	529,88		
1800	443,95		

*Venerable Orden Tercera

	OLD CASTILE-LEÓN	OLD CASTILE-LEÓN	OLD CASTILE-LEÓN
	Valladolid	Valladolid	Mansilla
	<i>Hospital Esgueva</i>	<i>Monasterio San Joaquín</i>	<i>Monasterio Ntra. Sra. Sandoval</i>
1651	379,05		414,91
1652	723,27		532,34
1653	457,90		323,75
1654	524,25		757,64
1655	637,58		711,65
1656	476,74		452,87
1657	407,24		395,92
1658	474,51		422,72
1659	519,12		391,94
1660	448,85		506,88
1661	379,12		380,86
1662	418,71		335,10
1663	458,50		468,23
1664	522,53		649,87
1665	652,13		648,34
1666	516,62		496,37
1667			559,79
1668	422,42		555,82
1669	554,24		644,90
1670	378,15		337,42
1671	295,20		315,02
1672	408,04		363,48
1673	285,81		317,89
1674	303,41		316,45
1675	297,26		322,92
1676	374,43		384,93
1677	408,96		398,83
1678	421,38		373,76
1679	409,46		377,20
1680	582,09		565,05
1681	407,09		456,29
1682	321,69		393,56
1683	537,00		598,43
1684	762,54		541,82
1685	400,45		433,84
1686			345,04
1687			409,68
1688	277,39		330,58
1689	263,52		306,39
1690	332,87		348,31
1691	436,89		409,59

	OLD CASTILE-LEÓN	OLD CASTILE-LEÓN	OLD CASTILE-LEÓN
	Valladolid	Valladolid	Mansilla
	<i>Hospital Esgueva</i>	<i>Monasterio San Joaquín</i>	<i>Monasterio Ntra. Sra. Sandoval</i>
1692			367,67
1693	320,42		333,90
1694	315,53		340,16
1695	319,00		353,34
1696	263,52		309,61
1697			393,47
1698	429,95		404,22
1699	523,57		561,17
1700	402,21		447,22
1701	377,94		387,02
1702	482,98		541,82
1703	409,15		425,72
1704	332,87		412,82
1705	298,19		313,60
1706	266,99		283,81
1707	312,06		316,06
1708	210,63		257,78
1709	254,97		240,60
1710			280,98
1711	308,34		360,90
1712	399,09		360,90
1713	326,54		335,12
1714	426,80		422,76
1715	399,09		376,36
1716	328,41		367,77
1717	256,11		293,87
1718	269,97		242,32
1719	266,06		322,23
1720	249,75		247,47
1721	201,83		245,75
1722	241,11		252,63
1723	232,80		237,16
1724	249,43		257,78
1725	210,63		232,00
1726	249,43		237,16
1727	194,00		237,16
1728	277,14		268,09
1729	239,67		228,91
1730	267,63		224,04
1731	262,28		248,94
1732	239,98		224,04

	OLD CASTILE-LEÓN	OLD CASTILE-LEÓN	OLD CASTILE-LEÓN
	Valladolid	Valladolid	Mansilla
	<i>Hospital Esgueva</i>	<i>Monasterio San Joaquín</i>	<i>Monasterio Ntra. Sra. Sandoval</i>
1733	251,57		258,89
1734	288,81		338,55
1735	367,55		323,62
1736	256,93		348,51
1737	262,28		315,32
1738	293,93		350,15
1739	205,03		297,38
1740	278,46		316,57
1741			297,38
1742	288,78		316,57
1743	330,03		335,76
1744	276,75		335,76
1745	270,73		282,99
1746	216,58		292,59
1747	216,58		292,59
1748	270,73		326,16
1749	226,90		306,98
1750	257,84		302,18
1751	356,72	297,88	444,38
1752	288,78	278,16	303,78
1753	268,15	402,23	352,54
1754		391,91	431,69
1755		340,34	436,48
1756		277,43	354,94
1757		238,95	359,74
1758		309,40	332,56
1759		286,32	297,38
1760		295,42	321,37
1761		318,81	316,57
1762		309,71	354,94
1763		295,91	326,16
1764		306,22	355,88
1765		350,66	439,49
1766		401,16	503,63
1767		391,46	350,15
1768		361,58	489,24
1769		396,92	508,43
1770		448,94	463,66
1771		475,18	508,43
1772		412,54	486,85
1773		329,27	501,17

OLD CASTILE-LEÓN	OLD CASTILE-LEÓN	OLD CASTILE-LEÓN
Valladolid	Valladolid	Mansilla
<i>Hospital Esgueva</i>	<i>Monasterio San Joaquín</i>	<i>Monasterio Ntra. Sra. Sandoval</i>
1774	440,93	466,65
1775	423,15	423,95
1776	423,15	419,35
1777	420,24	419,35
1778	375,65	410,13
1779	356,71	439,32
1780		460,82
1781	385,56	466,96
1782	415,72	470,04
1783	413,68	460,82
1784	458,27	470,04
1785	493,94	519,19
1786	474,13	506,90
1787	457,79	485,33
1788	479,28	494,32
1789	513,51	600,46
1790	484,17	485,22
1791	484,17	564,07
1792	533,08	597,43
1793	595,94	655,05
1794	642,25	655,05
1795	598,96	652,02
1796	660,38	800,62
1797	948,92	1052,69
1798	1031,92	909,79
1799	799,33	751,16
1800	584,14	700,54

A6. WINE (1651-1800)

Prices in Grams of Silver per Hectolitre

Source: see text

	VALENCIA Valencia (a) <i>Hospital dels Inocens</i>	VALENCIA Valencia (a) <i>Convento de Santa Catalina</i>	VALENCIA Valencia (a) <i>Colegio de Santo Tomas</i>
1651	82,09	100,12	
1652	86,44	107,82	
1653	89,91	105,28	
1654	77,57	132,04	
1655	87,98	109,91	
1656	103,22	109,18	
1657	68,83	96,85	
1658	77,81	78,35	
1659	71,41	48,61	
1660	66,38	63,12	
1661	60,74	83,79	
1662	72,18	77,26	71,82
1663	100,12	69,46	
1664	53,19	74,00	
1665	57,56	70,99	
1666	61,09	90,42	80,70
1667	72,58	98,08	
1668	60,11	79,02	
1669	43,71	87,43	
1670	48,20	82,94	
1671	46,25	77,46	
1672	74,26	96,59	
1673	51,42	68,75	67,25
1674	41,05	67,25	
1675	41,85	74,52	61,20
1676	51,98	76,39	51,56
1677	51,51	81,16	
1678	59,24	79,07	
1679	40,77	70,08	60,53
1680	38,74	55,23	58,28
1681	39,71	51,65	62,77
1682	51,37	54,41	57,06
1683	63,60		53,80
1684	52,48		63,18
1685	46,04		51,63
1686	33,35		46,87

	VALENCIA Valencia (a) <i>Hospital dels Inocens</i>	VALENCIA Valencia (a) <i>Convento de Santa Catalina</i>	VALENCIA Valencia (a) <i>Colegio de Santo Tomas</i>
1687	30,60		36,68
1688	51,78		
1689	37,70		65,21
1690	40,33		63,18
1691	42,82		
1692	42,59		57,57
1693	30,92		49,71
1694	35,74		48,73
1695	51,66		62,38
1696	49,41		56,53
1697	53,00		58,48
1698	37,87		49,71
1699	55,07		58,48
1700	48,73		50,39
1701	36,25		
1702	41,61		
1703	52,63		74,08
1704	54,58		73,43
1705	47,76		70,18
1706	44,84		55,84
1707	45,15		36,25
1708	45,70		42,55
1709	50,43		47,28
1710	60,15		
1711	52,01		50,43
1712	38,35		34,51
1713	48,33		53,58
1714	37,82		40,98
1715	38,87		52,53
1716	40,19		56,74
1717	36,25		51,48
1718			38,73
1719			55,87
1720			50,51
1721	45,18		55,16
1722	50,43		50,43
1723	54,77		50,43
1724	49,64		50,43
1725	57,39		52,53
1726	43,60		42,16
1727	47,28		47,28

	VALENCIA Valencia (a) <i>Hospital dels Inocens</i>	VALENCIA Valencia (a) <i>Convento de Santa Catalina</i>	VALENCIA Valencia (a) <i>Colegio de Santo Tomas</i>
1728	57,47		60,83
1729	44,40		50,62
1730	42,24		42,62
1731	31,94		42,62
1732	46,52		42,62
1733	39,88		40,12
1734	42,36		41,07
1735	50,15		40,12
1736	42,27		40,12
1737	35,33		32,39
1738	38,04		
1739	45,31		43,96
1740	49,58		46,99
1741	36,10		43,15
1742	37,62	58,97	34,52
1743	32,36	29,34	43,09
1744	36,68		49,63
1745	39,20	38,84	50,70
1746	29,97		44,59
1747	34,34		38,36
1748	37,39		37,40
1749	31,45		35,96
1750	35,06		43,15
1751	59,54	57,54	
1752	56,14		67,61
1753	37,08		54,66
1754	33,76	39,87	47,47
1755	42,26		55,45
1756	45,01		58,26
1757	60,23		67,96
1758	41,83		57,66
1759	45,40		54,30
1760	34,23	42,43	53,46
1761	37,91		57,36
1762	34,73		47,47
1763	48,77		
1764	50,87		47,47
1765	39,14		47,47
1766	48,31		45,43
1767	43,56		56,10
1768	35,20		51,78

	VALENCIA	VALENCIA	VALENCIA
	Valencia (a)	Valencia (a)	Valencia (a)
	<i>Hospital dels Inocens</i>	<i>Convento de Santa Catalina</i>	<i>Colegio de Santo Tomas</i>
1769	42,55		
1770			34,52
1771	46,03		52,50
1772	67,67		53,80
1773	46,54		68,83
1774	50,22		69,42
1775	64,36		
1776	60,15		
1777	68,95		96,17
1778	73,90		106,07
1779	45,22		71,99
1780	43,00		
1781	48,44		
1782	42,64		
1783	47,78		47,73
1784	59,40		48,44
1785	64,35		51,80
1786	57,20		44,96
1787	33,32		
1788	51,30		64,57
1789	54,23		82,36
1790			69,80
1791	61,42		68,40
1792	94,49		115,87
1793	91,82		111,24
1794	70,77		106,10
1795	69,80		85,16
1796	73,99		
1797	80,97		98,51
1798	69,15		78,18
1799	69,18		83,06
1800	74,83		89,34

(a) Purchases in *Botas*

	ANDALUSIA	ANDALUSIA	ANDALUSIA
	Seville (a)	Seville (a)	Seville (a)
	<i>Hospital de la Sangre</i>	<i>Hospital del Amor de Dios</i>	<i>Hospital del Espíritu Santo</i>
1651	243,06		
1652	200,09		
1653	183,40		
1654	242,02		
1655	129,06		
1656	124,06		
1657	104,33		
1658	120,72		
1659	157,26		
1660	104,92		
1661	107,11	151,99	
1662	137,91		
1663	186,29		
1664			
1665	111,96		
1666	82,05		
1667	74,33		
1668	80,49		
1669	82,34		
1670	83,36		214,87
1671	92,96		151,52
1672	124,05		
1673	106,33		
1674	84,49		
1675	108,09		
1676	92,38		
1677	84,77		
1678	69,52		
1679	67,67		110,73
1680			
1681			
1682	176,60	190,45	
1683	183,40	183,40	
1684		141,51	
1685		71,32	
1686	40,75	93,94	
1687	83,87	105,38	
1688	77,20	102,35	
1689	70,43	162,53	
1690		138,95	
1691	65,01	114,45	

	ANDALUSIA	ANDALUSIA	ANDALUSIA
	Seville (a)	Seville (a)	Seville (a)
	<i>Hospital de la Sangre</i>	<i>Hospital del Amor de Dios</i>	<i>Hospital del Espíritu Santo</i>
1692	48,76	124,34	
1693	41,99	78,56	
1694	69,53	182,29	
1695	54,18		
1696	46,95	105,90	
1697	44,70		
1698	52,37	92,42	
1699	104,29	159,82	
1700	111,41	129,48	
1701	73,36	128,88	
1702	85,69	117,97	
1703	94,89	129,13	
1704	62,30		
1705	53,33		
1706	52,03	73,14	
1707	51,20	65,01	
1708	50,95		
1709	107,93	90,22	
1710	173,21	197,03	
1711	109,79	138,57	
1712	110,42	112,59	
1713	49,80	60,63	
1714	60,63		
1715	60,63		
1716	63,51		
1717	86,35		
1718	71,45	57,75	
1719	77,95	129,91	
1720	97,43		
1721	103,93		
1722	109,70		
1723	121,25		
1724	121,25		
1725	110,42		
1726	73,62	77,95	
1727	116,92		
1728	121,25	116,92	
1729	102,54		
1730		125,45	
1731			
1732	100,36		

	ANDALUSIA	ANDALUSIA	ANDALUSIA
	Seville (a)	Seville (a)	Seville (a)
	<i>Hospital de la Sangre</i>	<i>Hospital del Amor de Dios</i>	<i>Hospital del Espíritu Santo</i>
1733			
1734			
1735			
1736			117,09
1737			102,22
1738			92,66
1739			
1740			103,40
1741	68,49	80,57	120,86
1742	80,57		
1743	78,56		
1744			
1745		92,66	
1746			
1747	60,43		
1748	77,90	80,57	
1749	76,55	82,59	
1750	77,99	94,00	
1751	128,92		
1752	129,39	128,92	
1753	120,86	128,92	
1754	105,50		
1755	112,80	132,95	
1756	132,95	139,66	
1757	147,05	141,00	
1758	151,08	148,39	
1759	136,98	123,55	
1760	151,08	110,79	
1761		123,55	
1762	149,06	130,93	
1763	150,41	134,96	
1764	157,71	131,94	
1765	154,25	119,85	
1766	130,72	112,80	
1767	157,76	112,80	
1768	154,51	116,83	
1769	124,89	120,86	
1770	101,12		
1771	97,73		
1772	122,76		
1773	110,12		

	ANDALUSIA	ANDALUSIA	ANDALUSIA
	Seville (a)	Seville (a)	Seville (a)
	<i>Hospital de la Sangre</i>	<i>Hospital del Amor de Dios</i>	<i>Hospital del Espíritu Santo</i>
1774	118,05		
1775	118,05		
1776	112,25		
1777	116,12		
1778	146,83		
1779	136,38		
1780	109,17		
1781	112,61		
1782	131,10		
1783	157,60		
1784	174,20		
1785	195,01		
1786	195,17		
1787	175,91		
1788	172,50		
1789	181,89		152,83
1790			152,83
1791			
1792			221,16
1793			156,65
1794			164,29
1795			156,65
1796			150,29
1797			229,25
1798			178,30
1799			183,40
1800			193,58

(a) Purchases in *arrobas/cántaras*

	NEW CASTILE	NEW CASTILE	NEW CASTILE	NEW CASTILE	NEW CASTILE
	Alcalá (b)	Casarrubios del Monte (a)	Toledo (b)	Toledo (a)	Madrid (b)
	<i>Colegio San Ildefonso</i>	<i>Convento Bernardas</i>	<i>Hospital Tavera</i>	<i>Hospital Tavera</i>	<i>Hospital VOT*</i>
1651	162,95	106,79	172,59	127,22	
1652	171,61	108,08	248,11	133,85	
1653	150,68	121,81	248,54	142,18	
1654	165,66	174,92	260,09	199,18	
1655	180,19	150,74	285,82	154,82	
1656	234,04	203,83		193,78	
1657	146,13	110,38		142,74	
1658		106,78	226,52		
1659	146,37	111,20	230,17	105,20	
1660	158,58	122,18	188,99		
1661	118,18	73,38	140,69	100,71	
1662	106,20	88,68	211,12	90,60	
1663	139,64	141,35	201,97	173,38	
1664	134,55	93,32	174,91	115,95	
1665	164,69	130,28	200,19	136,65	
1666	153,16	113,70	194,75	122,32	
1667	114,25	95,34	153,61	106,09	
1668	88,36	59,17		102,19	
1669	88,78	89,68	136,58	93,85	
1670	109,72	66,84	135,56	94,52	
1671	109,57	88,08	136,84	111,50	
1672	125,64	103,22	155,63	138,91	
1673	120,77	100,33	126,45	107,80	
1674	114,32	84,26	123,18	104,62	
1675	88,00	53,13		85,67	
1676	103,36	66,45	144,86	98,60	
1677	101,40	51,89	143,15	89,52	
1678	81,86	48,66		87,24	
1679	100,73	71,95	112,55	85,99	
1680	201,05	132,80	211,10	186,47	
1681	163,35	128,27	201,05	197,59	
1682	149,12	111,96	248,54	184,85	
1683	133,59	87,49	219,54		
1684	146,02	79,22		166,60	
1685	130,48	77,99	134,62	127,76	
1686	111,84	67,81		132,66	
1687	97,38	73,67	106,23	97,80	
1688		91,27	138,77	138,30	
1689	99,12	91,99	128,85	119,25	
1690	136,44	100,92	118,94	127,92	317,18
1691	173,77	113,79	146,20		

	NEW CASTILE	NEW CASTILE	NEW CASTILE	NEW CASTILE	NEW CASTILE
	Alcalá (b)	Casarrubios del Monte (a)	Toledo (b)	Toledo (a)	Madrid (b)
	<i>Colegio San Ildefonso</i>	<i>Convento Bernardas</i>	<i>Hospital Tavera</i>	<i>Hospital Tavera</i>	<i>Hospital VOT*</i>
1692		149,41	171,81	231,69	
1693		86,21	145,37	179,03	
1694		85,24	136,91		348,90
1695		117,82	158,59	158,59	359,44
1696		124,84	181,51		380,62
1697		60,93	132,57		253,74
1698		101,26	116,46		269,60
1699		175,08	193,28		380,62
1700		89,61	133,81		269,60
1701		95,71	128,85		317,18
1702		85,63	123,90		301,32
1703		117,16	173,46	189,56	325,11
1704		100,05	143,14	142,17	253,74
1705		78,99	148,68		317,18
1706		63,19	109,03	94,78	237,88
1707		79,64	131,33		
1708		52,27	87,15	75,76	178,26
1709		70,50	112,20	84,18	190,14
1710		129,07	152,26	126,26	209,95
1711		82,77	99,03	84,18	205,98
1712		53,74	83,19	58,92	190,14
1713		67,25	97,05	58,92	182,22
1714		60,68	85,17	63,13	221,83
1715		62,61	95,07	63,13	190,14
1716		97,85	118,84	109,43	
1717		54,19	78,23	46,30	190,14
1718		56,45	67,34	63,13	
1719		81,02	106,95		253,52
1720		87,33	116,20	79,97	205,98
1721		82,34	110,91	84,18	207,77
1722		106,27	110,91	92,59	233,71
1723		135,56	146,57	151,52	266,05
1724		84,70	99,03	92,59	247,58
1725		101,54	102,99	101,01	249,56
1726		142,22	126,76		261,44
1727		124,95	120,82		278,28
1728		129,18	107,94		291,15
1729		106,16	80,12		265,77
1730		95,35	101,37		244,82
1731		75,19	68,86		244,82
1732		95,51	114,76	73,16	244,82

	NEW CASTILE	NEW CASTILE	NEW CASTILE	NEW CASTILE	NEW CASTILE
	Alcalá (b)	Casarrubios del Monte (a)	Toledo (b)	Toledo (a)	Madrid (b)
	<i>Colegio San Ildefonso</i>	<i>Convento Bernardas</i>	<i>Hospital Tavera</i>	<i>Hospital Tavera</i>	<i>Hospital VOT*</i>
1733		81,46	91,81		153,01
1734		82,14	96,92		153,01
1735		100,25	110,93		183,61
1736		95,85	99,46		170,23
1737		92,12	99,46		183,61
1738		83,54	92,13		176,89
1739		119,67	103,19		176,89
1740		103,76	117,93		
1741		110,94	114,24		
1742		69,99	99,50		147,41
1743		50,90	66,34		117,93
1744		84,19	88,45		171,37
1745		85,16	106,87		224,80
1746		56,78	77,39		193,48
1747		46,50	73,71		157,24
1748		75,13	82,92		206,38
1749		75,98	88,45		235,86
1750		63,48	81,08	50,21	235,86
1751		107,68	132,67		250,60
1752		141,61	176,89		261,66
1753		65,10	88,45		240,77
1754		104,25	108,72		256,13
1755		129,22	153,86		294,82
1756		124,53	158,47	115,40	276,40
1757		127,97	136,36	137,05	294,82
1758		116,48	132,67	140,04	294,82
1759		63,30	92,13	133,13	243,23
1760		67,87	81,08		235,86
1761		90,06	136,36		243,23
1762		79,92	128,99		246,91
1763		80,44	103,19		235,86
1764		129,87	128,99		280,08
1765		123,34	121,61		294,82
1766		116,49	135,43		294,82
1767		71,13	110,56		265,34
1768		71,13	66,34		235,86
1769		69,17	79,23		235,86
1770		67,22	81,08		235,86
1771		67,22	77,39		
1772		78,97	88,45		235,86
1773		88,39	99,83		228,19

NEW CASTILE	NEW CASTILE	NEW CASTILE	NEW CASTILE	NEW CASTILE
Alcalá (b)	Casarrubios del Monte (a)	Toledo (b)	Toledo (a)	Madrid (b)
<i>Colegio San Ildefonso</i>	<i>Convento Bernardas</i>	<i>Hospital Tavera</i>	<i>Hospital Tavera</i>	<i>Hospital VOT*</i>
1774	98,43	102,68		254,92
1775	87,77	99,14		247,62
1776	107,53	116,84		254,92
1777	115,51	131,00		254,92
1778	77,99	74,35		226,60
1779	86,36	74,35		226,60
1780	74,96	74,35		240,76
1781	102,83	92,06		269,09
1782	70,38	95,60		
1783	127,90	113,30		254,92
1784	109,10	111,53		283,25
1785	136,61	113,30		
1786	86,52	81,43		
1787	86,59	63,32		243,91
1788	148,54	90,87	94,37	265,63
1789	118,83	73,40		251,65
1790		76,89		
1791	62,91	76,89		251,65
1792		101,36		265,63
1793	155,97	129,32		335,53
1794	113,88	125,82		335,53
1795		111,84		298,83
1796		132,81		316,89
1797		111,84		321,55
1798		101,36	96,55	270,29
1799	112,64	104,85		279,61
1800		137,18		279,61

*VOT – Venerable Orden Tercera

(a) Purchases in *arrobas*/cántaras

(b) Purchases in azumbres

	OLD CASTILE-LEÓN	OLD CASTILE-LEÓN
	Valladolid (a)	Mansilla (a)
	<i>Hospital Esgueva</i>	<i>Monasterio Ntra. Sra. Sandoval</i>
1651	130,83	145,02
1652	150,77	123,23
1653	152,23	111,43
1654		98,63
1655	151,83	
1656	204,57	140,31
1657	139,59	51,64
1658	116,53	60,38
1659	104,53	59,34
1660	119,00	77,78
1661	116,43	73,85
1662	125,91	61,30
1663	128,86	
1664	107,28	71,37
1665	142,50	114,18
1666	111,44	
1667	105,32	67,71
1668	136,83	
1669	77,29	61,73
1670	79,62	65,09
1671	60,78	28,32
1672	97,47	64,91
1673	99,24	88,60
1674	79,00	55,17
1675		43,63
1676	65,98	68,92
1677	65,20	68,53
1678		51,68
1679		54,05
1680		117,55
1681		87,03
1682		67,24
1683	97,36	58,83
1684	95,09	75,66
1685	103,48	71,39
1686	109,48	35,16
1687	115,37	51,09
1688	126,52	56,25
1689	66,29	51,87
1690	146,28	70,57
1691	143,25	33,12

	OLD CASTILE-LEÓN Valladolid <i>Hospital Esgueva</i>	OLD CASTILE-LEÓN Mansilla <i>Monasterio Ntra. Sra. Sandoval</i>
1692	113,77	104,58
1693	105,81	53,63
1694	75,85	62,68
1695		71,34
1696	97,52	85,81
1697	48,76	63,50
1698	97,52	88,49
1699	89,39	96,53
1700		78,65
1701	55,45	50,00
1702	101,58	54,42
1703	120,46	91,17
1704	145,40	51,00
1705	59,60	42,43
1706	75,85	64,36
1707	91,43	91,17
1708	35,66	36,44
1709	69,29	55,96
1710		114,67
1711	64,06	51,44
1712	95,27	36,44
1713	80,11	40,01
1714	67,12	37,15
1715		52,20
1716		71,80
1717		35,36
1718		36,94
1719	34,64	70,73
1720		64,30
1721		60,73
1722	90,94	91,78
1723		51,44
1724		41,44
1725		60,73
1726		73,54
1727		79,30
1728		95,73
1729		43,70
1730		55,19
1731		57,95
1732		57,79

OLD CASTILE-LEÓN		OLD CASTILE-LEÓN
Valladolid		Mansilla
<i>Hospital Esgueva</i>		<i>Monasterio Ntra. Sra. Sandoval</i>
1733		57,95
1734		67,61
1735		77,27
1736	72,83	70,37
1737	78,67	74,51
1738	73,02	78,43
1739	109,38	77,10
1740	80,95	51,84
1741	69,20	35,89
1742	61,44	48,52
1743	66,36	49,19
1744	87,68	77,10
1745	81,28	57,16
1746	66,36	46,53
1747	64,46	47,86
1748	76,31	71,78
1749	72,04	55,83
1750	63,75	50,91
1751	129,81	112,66
1752	149,77	75,77
1753	87,56	87,74
1754	120,39	115,65
1755	153,56	120,97
1756	162,10	109,01
1757	149,77	112,99
1758	109,46	90,39
1759	68,82	59,82
1760	75,71	70,45
1761	103,21	78,43
1762	86,20	69,13
1763	74,03	63,81
1764	148,39	148,89
1765	144,03	147,56
1766	138,66	124,97
1767	90,39	102,20
1768	94,93	119,64
1769	96,35	114,31
1770	71,68	63,81
1771	60,77	62,81
1772	83,26	75,77
1773	94,03	97,75

	OLD CASTILE-LEÓN Valladolid <i>Hospital Esgueva</i>	OLD CASTILE-LEÓN Mansilla <i>Monasterio Ntra. Sra. Sandoval</i>
1774	88,70	101,53
1775	100,03	
1776	98,37	82,33
1777	120,99	103,45
1778	63,38	95,79
1779	81,77	57,47
1780	112,92	107,80
1781	91,82	112,08
1782	63,74	108,29
1783	92,09	67,01
1784	89,32	126,44
1785	63,38	137,93
1786	43,07	38,31
1787	56,62	72,33
1788	122,27	119,76
1789	106,93	95,52
1790	129,79	117,25
1791	142,01	107,79
1792	108,71	105,97
1793	171,08	136,16
1794	172,61	133,00
1795		128,71
1796		
1797		121,65
1798		81,32
1799	167,22	62,41
1800	108,68	86,99

(a) Purchases in *arrobas/cántaras*

A7. Charcoal (1651-1800)

Prices in Grams of Silver per Hectolitre

Source: EHP-MWS. Box 5, Old Castile Worksheets; Andalusia Final Commodity List. Box 7. New Castile Original Price Sheets; Santo Tomas, prices/commodity worksheets; Worksheets and Calculations for Prices

Standardising charcoal prices is a difficult task since sources provide prices in a variety of measures with obscure metric equivalences. In Old and New Castile, as well as in Andalusia, Hamilton computed prices in *maravedís* per *arroba*. Without any other information, Castile data has been converted according to the weight of the Castile *arroba* (1 *arroba* = 25lb = 11.5 kg) although there is not certainty on the accuracy of the correspondence in this case. Regarding Old Castile-León, there is no data for Valladolid (Esgueva) after 1756. The series has been completed with data from the city's Cistercian monastery of San Joaquín and Santa Ana. The few years for which data exists for both locations suggests a higher price at the *Hospital de Esgueva*. Price trends seem to be similar, however.

For New Castile the most complete series are for the *Convento de las Bernardas de Casarrubios* and the *Hospital de San Juan de Toledo*. Hamilton used this last source as a basis but made numerous interpolations from the Casarrubios prices, particularly between 1701 and 1750, using a ratio of 0.8; however between 1789 and 1800 he used Casarrubios prices without this correcting factor. Despite this series dispensing with both interpolated and corrected prices for Casarrubios, it differs little from that calculated by Hamilton for New Castile. The prices for *Hospital de la Venerable Orden Tercera* compose a short series for Madrid. Here charcoal was some 50% more expensive than in Toledo during the first half of the 18th century.

In Valencia prices were given in *diners* per *arroba*; however, things are far more muddled as there were *arrobas* of 30, 32 and 36 pounds. Hamilton gave no indication in his papers or published books regarding the subject. In *American Treasure* when compiling the series for charcoal for 1501-1650 he mentions the difficulties in converting the *sàrria*, which was a common measure used in calculating charcoal prices in the Kingdom of Valencia. Using several comparable prices of quintals and *sàrrias*, Hamilton calculated its weight to be 1.67 quintals of 144 pounds (Hamilton 1975, 197). For the period 1501 to 1650 there is no doubt that the prices refer to *diners* per *sàrria* but for 1651-1800 the prices he gives in the final summary, which are those he includes in the indices, are given in *diners* per *arroba*, and neither their metric equivalent nor their correlation with the *sàrria* is clear. In the database there is also another measure without an equivalent, the *galerada*, presumably the Valencia equivalent of the Castilian *carro* (cart).

R.C. Allen (2001) wrote that conversions used in compiling the price series for charcoal were not at all clear². By comparing the entries for *diners* per *sàrria* with those of *diners* per *arroba* in Hamilton's papers, the most accurate equivalence would be 5 *arrobas* per *sàrria*. Knowing that a *sàrria* is equivalent to 85.3704 kg according to Hamilton's reckonings, the hypothetic *arroba* of charcoal would weigh 17,06148 kilograms (using Allen's figures it would be 17,07408 kg). However, if we use the *arroba grossa* of 36 pounds it makes the metric weight of a Valencia *arroba* of charcoal 12.78 kg. If the *arroba* of 30 pounds is used, it gives 10.65 kg per *arroba*. This creates a quandry. Using his equivalents for the *sàrria*, (1.67 quintales of 144 libras) we could infer that Hamilton is talking about a 36 pound *arroba* (1 quintal = 4 *arrobas* = 144 pounds; 1 *arroba* = 36 pounds). In the literature we have consulted there is no

² "Conversions, Sources & Comments". www.nuffield.ox.ac.uk/users/Allen/studer/valencia.xls

reference to any *arroba* of charcoal; indirectly, nevertheless, references to different uses of *arrobas* suggest a 36 pound *arroba* = 12,78 kg. That is why all calculations and conversions have been made using this measure. Apart from all the difficulties and different alternatives involved in converting to metric equivalents, the fact that for the second period the charcoal price entries come from two locations makes things even more interesting. The *Hospital dels Innocents* prices are for *sàrrias*, while those from the *Colegio de San Telmo* are in *arrobas*. It is quite likely then that the problem is not only metrological but by corresponding to purchases for different establishments the prices could also differ. If we use the *arroba grossa* the price of charcoal at the college would be 11.7% higher than at the hospital, and for the few years for which there are entries for purchases of sacks of charcoal for both establishments, there are more significant price differences.

That Hamilton chose the *Colegio de San Telmo's arroba* of charcoal as a reference as it had the most regular entries does not mean that this source offers a complete series for the whole period considered. The data for the second half of the 17th century is concentrated in the 1670s and 1680s, and were not regular again until 1710. What do exist for these dates are entries for the hospital's purchases, and Hamilton inter- and extrapolates data from them to complete the series. For conversion purposes he uses the ratio between the *sàrria* (hospital) and the *arroba* (colegio), apparently calculated in the early years of the period and which makes the *sàrria* price 4.95 times that of the *arroba*, very close to Allen's 5. By way of comparison, in the first quarter of 1702, the ratio of *sàrrias* to *arrobas* bought at the hospital was 4.5:1. However this relationship between *Hospital* and *Colegio* prices tended to fluctuate. In 1694 the factor was 2.5 and in 1710 it was 7.59, very similar to 1672 (7.7), while in 1671 it was 5.7. Though it reduced the scope of the series I made calculations using only the entries recorded for the Colegio de Santo Tomás. The result is very similar to Hamilton's, except in the first years in which the extrapolations seem to somewhat overestimate the prices.

	VALENCIA	ANDALUSIA
	Valencia	Seville
1651		0,64
1652		0,67
1653		0,74
1654		0,60
1655		0,63
1656		0,56
1657		0,44
1658		0,43
1659		0,52
1660		0,49
1661		0,50
1662		0,49
1663		0,51
1664		
1665	0,43	0,60
1666	0,47	0,48

	VALENCIA	ANDALUSIA
	Valencia	Seville
1667		0,45
1668	0,45	0,46
1669	0,38	0,38
1670		0,44
1671	0,43	0,39
1672	0,47	0,36
1673	0,47	0,34
1674	0,46	0,38
1675	0,45	0,40
1676	0,44	0,35
1677		0,43
1678	0,44	0,34
1679	0,45	0,41
1680	0,42	0,62
1681	0,44	0,48
1682	0,34	0,47
1683	0,36	0,33
1684	0,38	0,39
1685	0,40	0,37
1686	0,37	0,39
1687	0,37	0,39
1688		0,38
1689		0,37
1690	0,35	0,39
1691	0,34	0,29
1692	0,36	0,32
1693	0,34	0,30
1694	0,35	0,33
1695		0,42
1696		0,44
1697		0,42
1698		0,38
1699		0,37
1700		0,40
1701		0,38
1702		0,36
1703		0,36
1704		0,34
1705		0,38
1706		0,32
1707	0,32	0,32
1708		0,32

	VALENCIA	ANDALUSIA
	Valencia	Seville
1709		0,45
1710	0,26	0,34
1711	0,27	0,23
1712	0,27	0,34
1713	0,23	0,33
1714	0,28	0,22
1715	0,27	0,29
1716	0,21	0,25
1717	0,22	0,30
1718	0,21	0,24
1719	0,17	0,22
1720	0,17	0,24
1721	0,26	0,25
1722	0,28	0,23
1723	0,29	0,25
1724	0,23	0,24
1725	0,25	0,30
1726	0,24	
1727	0,28	0,22
1728	0,24	0,29
1729	0,24	0,30
1730	0,23	0,26
1731	0,29	0,22
1732	0,28	0,28
1733	0,28	0,27
1734	0,29	0,24
1735	0,26	0,36
1736	0,26	0,38
1737	0,26	0,24
1738	0,26	0,26
1739	0,28	0,27
1740	0,31	0,28
1741	0,22	0,25
1742	0,28	0,31
1743	0,31	0,24
1744	0,28	0,22
1745	0,24	0,24
1746	0,24	0,24
1747	0,24	0,22
1748	0,24	0,23
1749	0,26	0,14
1750	0,25	0,14

	VALENCIA	ANDALUSIA
	Valencia	Seville
1751	0,31	0,08
1752	0,29	0,16
1753	0,33	0,11
1754	0,34	0,16
1755	0,33	0,28
1756	0,34	0,27
1757	0,30	0,25
1758	0,33	0,39
1759	0,33	0,27
1760	0,32	0,25
1761	0,32	0,25
1762	0,34	0,23
1763	0,35	0,27
1764	0,35	0,21
1765	0,36	0,23
1766	0,41	0,25
1767	0,39	0,33
1768	0,40	0,26
1769		0,39
1770	0,35	0,29
1771	0,35	0,34
1772	0,37	0,30
1773	0,37	0,27
1774	0,39	0,26
1775	0,39	0,26
1776	0,39	0,27
1777	0,38	0,30
1778	0,35	0,30
1779	0,38	0,26
1780	0,34	0,30
1781	0,35	0,31
1782	0,38	0,41
1783	0,33	0,29
1784	0,44	0,38
1785	0,43	0,43
1786	0,37	0,50
1787	0,38	0,45
1788	0,35	0,43
1789	0,33	0,41
1790	0,43	0,37
1791	0,43	0,39
1792	0,41	0,43

	VALENCIA	ANDALUSIA
	Valencia	Seville
1793	0,43	0,33
1794	0,50	0,41
1795	0,53	0,46
1796	0,60	0,45
1797	0,58	0,52
1798	0,58	0,50
1799	0,49	0,62
1800	0,53	0,59

	NEW CASTILE	NEW CASTILE	NEW CASTILE
	Toledo	Casarrubios	Madrid
1651	0,40	0,40	
1652	0,51	0,46	
1653	0,44	0,44	
1654	0,41	0,42	
1655	0,43		
1656	0,39	0,38	
1657	0,38	0,34	
1658	0,36	0,30	
1659	0,34	0,24	
1660	0,29	0,26	
1661	0,31	0,24	
1662		0,23	
1663	0,31	0,27	
1664		0,30	
1665	0,42	0,34	
1666	0,33	0,21	
1667	0,32	0,31	
1668	0,30	0,31	
1669	0,24	0,20	
1670	0,33	0,32	
1671	0,32	0,21	
1672		0,23	
1673		0,27	
1674	0,27	0,26	
1675		0,24	
1676	0,27	0,27	
1677	0,31	0,26	
1678		0,28	
1679	0,30	0,28	
1680	0,34	0,30	
1681	0,26	0,37	
1682	0,37	0,46	
1683		0,37	
1684	0,34		
1685	0,29	0,39	
1686	0,41	0,30	
1687	0,39	0,25	
1688	0,33	0,33	
1689	0,30	0,28	
1690	0,38	0,25	
1691	0,33	0,23	
1692	0,32	0,22	

	NEW CASTILE	NEW CASTILE	NEW CASTILE
	Toledo	Casarrubios	Madrid
1693	0,31	0,23	
1694	0,31	0,26	0,24
1695	0,32	0,34	0,29
1696	0,29	0,27	0,32
1697	0,27	0,27	0,30
1698	0,25	0,31	
1699		0,24	0,43
1700	0,34		0,38
1701	0,35	0,24	0,45
1702	0,34	0,24	0,48
1703	0,29	0,22	0,48
1704	0,26	0,37	0,48
1705	0,30	0,24	0,44
1706	0,30	0,28	0,42
1707	0,28	0,30	0,43
1708	0,24		0,35
1709	0,20	0,25	0,35
1710	0,21	0,27	0,35
1711		0,23	0,35
1712	0,25		0,35
1713	0,20		
1714	0,21	0,28	
1715		0,27	0,34
1716			0,35
1717	0,25	0,25	0,32
1718	0,18	0,23	
1719		0,20	
1720		0,18	
1721		0,19	
1722		0,21	
1723		0,16	
1724		0,22	0,32
1725		0,26	0,38
1726	0,19	0,25	0,38
1727	0,24	0,25	0,33
1728	0,22	0,23	0,33
1729	0,22	0,27	0,35
1730	0,17	0,23	0,32
1731		0,25	0,31
1732	0,21	0,23	0,31
1733	0,20	0,23	0,30
1734	0,20	0,23	

	NEW CASTILE	NEW CASTILE	NEW CASTILE
	Toledo	Casarrubios	Madrid
1735	0,17	0,23	0,34
1736	0,21	0,30	0,36
1737	0,18		0,34
1738	0,17	0,27	0,36
1739	0,16	0,27	0,35
1740	0,16	0,27	0,35
1741		0,27	
1742	0,23	0,26	
1743	0,22	0,26	
1744	0,19	0,26	
1745	0,17	0,25	
1746	0,16	0,25	
1747	0,16	0,25	
1748	0,16		
1749	0,16	0,26	
1750	0,16	0,26	
1751	0,16		
1752		0,27	
1753	0,30	0,37	
1754	0,27		
1755	0,35		
1756	0,26	0,33	
1757	0,24		0,39
1758	0,26		
1759	0,25	0,33	
1760	0,23		
1761	0,27		
1762	0,23		
1763	0,24		
1764	0,23		
1765	0,25		
1766	0,27		
1767	0,25		
1768	0,25		
1769	0,25		
1770	0,26		
1771	0,24		
1772	0,24		
1773	0,24		
1774	0,25		
1775	0,24	0,27	
1776	0,26		

	NEW CASTILE	NEW CASTILE	NEW CASTILE
	Toledo	Casarrubios	Madrid
1777	0,26		
1778	0,30	0,30	
1779	0,27	0,32	
1780	0,28	0,30	
1781	0,26		
1782	0,28	0,30	
1783	0,27		
1784	0,30		
1785	0,26	0,29	
1786	0,27	0,36	
1787			
1788			
1789		0,38	
1790		0,40	
1791		0,34	
1792		0,36	
1793		0,34	
1794		0,36	
1795		0,35	
1796		0,37	
1797			
1798		0,41	
1799		0,40	
1800		0,39	

	OLD CASTILE-LEÓN	OLD CASTILE-LEÓN
	Valladolid	Valladolid
	<i>Hospital Esgueva</i>	<i>Monasterio San Joaquín</i>
1651	0,28	
1652	0,30	
1653	0,33	
1654	0,28	
1655	0,28	
1656	0,28	
1657	0,23	
1658	0,22	
1659	0,23	
1660	0,27	
1661	0,26	
1662	0,23	
1663	0,22	
1664	0,25	
1665	0,28	
1666	0,21	
1667	0,25	
1668	0,29	
1669	0,28	
1670		
1671	0,31	
1672	0,20	
1673	0,19	
1674	0,19	
1675	0,17	
1676	0,16	
1677	0,23	
1678	0,22	
1679		
1680		
1681	0,25	
1682	0,20	
1683	0,17	
1684	0,25	
1685	0,24	
1686	0,19	
1687	0,19	
1688	0,19	
1689	0,17	
1690	0,14	
1691	0,12	

	OLD CASTILE-LEÓN	OLD CASTILE-LEÓN
	Valladolid	Valladolid
	<i>Hospital Esgueva</i>	<i>Monasterio San Joaquín</i>
1692		
1693	0,17	
1694	0,17	
1695	0,21	
1696	0,21	
1697	0,21	
1698	0,19	
1699	0,15	
1700	0,26	
1701	0,24	
1702	0,22	
1703	0,21	
1704	0,20	
1705	0,30	
1706	0,22	
1707	0,22	
1708	0,20	
1709	0,19	
1710	0,16	
1711	0,18	
1712	0,19	
1713	0,19	
1714	0,19	
1715	0,15	
1716	0,12	
1717	0,12	
1718	0,13	
1719	0,13	
1720	0,13	
1721	0,14	
1722		
1723		
1724	0,20	
1725	0,19	
1726	0,19	
1727	0,18	
1728	0,18	
1729	0,16	
1730	0,21	
1731	0,18	
1732		

	OLD CASTILE-LEÓN	OLD CASTILE-LEÓN
	Valladolid	Valladolid
	<i>Hospital Esgueva</i>	<i>Monasterio San Joaquín</i>
1733	0,16	
1734	0,15	
1735	0,15	
1736	0,17	
1737	0,15	
1738	0,13	
1739	0,18	
1740	0,20	
1741		
1742	0,17	
1743	0,14	
1744	0,22	
1745	0,15	
1746	0,14	
1747	0,16	
1748	0,12	
1749	0,13	
1750	0,21	
1751	0,18	0,18
1752	0,18	0,17
1753	0,23	0,20
1754		0,21
1755	0,31	0,15
1756	0,25	0,21
1757	0,31	0,22
1758		0,22
1759		0,23
1760		0,23
1761		0,23
1762		0,22
1763		0,22
1764		0,24
1765		0,25
1766		0,25
1767		0,23
1768		0,22
1769		0,31
1770		0,33
1771		0,25
1772		0,23
1773		0,19

OLD CASTILE-LEÓN	
Valladolid	Valladolid
<i>Hospital Esgueva</i>	<i>Monasterio San Joaquín</i>
1774	0,20
1775	0,21
1776	0,21
1777	0,24
1778	0,24
1779	0,22
1780	
1781	0,19
1782	0,21
1783	0,24
1784	0,25
1785	0,28
1786	0,31
1787	0,33
1788	0,31
1789	0,27
1790	0,25
1791	0,25
1792	0,26
1793	0,26
1794	0,29
1795	0,32
1796	0,35
1797	0,38
1798	0,33
1799	0,29
1800	0,32

APPENDIX B.

Municipal Taxes on meat (beef and moutton) and wine in the Kingdom of Castile

B1. Municipal taxes on meat in he the Kingdom of Castile (c. 1720)

Sevilla*	"The city of Seville has too many of these ordinary taxes which are charged by the Million and can be found in the chapters that deal with these Services, fourteen mrs. on every pound of meat weighed at butcher's shops in the City, and its Ventorrillos (roadside inns)"
Cádiz	"four mrs. on every pound of meat weighed at butcher's shops"
Granada	"... twenty-eight mrs. On every arralde of meat, weighed at butcher's shops and other public places, of four sixteen ounce pounds, and a levy of seven mrs. These have been reduced on the orders of the Superintendent General to four quarters per arralde, y four mrs. per pound"
Málaga	"On every 16 ounce pound of meat, a charge of one <i>maravedí</i> two <i>reals</i> on every head of cow, and pork, and 1½ <i>reales</i> on every head of sheep, and goat".
Córdoba	"a tax of two mrs. on every 32 ounce pound of meat, weighed at butcher's shops",
Jaén	".. one <i>maravrdí</i> on every pound of all meats weighed at butcher's shops"
Úbeda	"... four mrs. On every pound of meat weighed at butcher's shops" "Also, one <i>real</i> on every head of livestock killed at the butcher's shops"
Murcia	"...four mrs. on every pound of meat weighed at the butcher's shops in the city"
Toledo	"a charge of 662.490 mrs. duly levied, corresponding to every pound according to its class" "...four <i>reales</i> on every pig that enters, and is purchased in said city" "All butcher's shop employees' salaries will be levied"
Ocaña	"five mrs per pound of mutton and chevon, weighed in city butcher's shops." "Also, two mrs. per pound of lamb purchased in said city and weighed in its butcher's shops"
Alcalá de Henares	"... four mrs. on every pound of mutton, weighed in butcher's shops of the city and purchased by the laity"
Guadalajara	"... four mrs on every pound of meat weighed in butcher's shops in the city"
Cuenca	"... two mrs. on every pound of meats weighed, and purchased in butcher's shops in the city"
Logroño	"... four (mrs) on each meat (pound) "
Segovia	"... four mrs. on every forty ounce pound of meat, that is purchased in the city"
Salamanca	"... one <i>maravedí</i> on every pound of meat sold, and purchased in city butcher's shops"
Valladolid	"... one <i>maravedí</i> on every pound of beef, and mutton that is weighed in the butcher's shops in the city" "One <i>real</i> on every head of cattle sold at the market"
Zamora	"... and on every pound of meat (that is purchased) two mrs."

*In Seville, a meat pound is equal to 32 ounces
Aznar (1727), p. 130-159.

B2. Municipal on wine in the Kingdom of Castile (c. 1720)

Seville	Half a <i>real</i> per <i>arroba</i> of wine 1 <i>real</i> per <i>arroba</i> of wine “entering from Aljarafe, and Vanda Morisca” 1½ <i>reales</i> per <i>arroba</i> of wine “entering from la Sierra” 1 <i>real</i> on every jug of wine 22 <i>reales</i> de vellón “on every butt of wine” ½ <i>real</i> per <i>arroba</i> of wine “entering from Aljarafe, Benguila, y Sierra”
Cádiz	“An eighth of what is sold on every <i>arroba</i> of wine” “Another eighth in the same way as above, and on the product itself” 3 <i>ducados</i> on every butt of wine 2 <i>reales</i> on every <i>arroba</i> of wine from Lucena
Jerez	1 <i>ducado</i> on every butt of wine “on every cask of wine taken out of the Kingdom”
Málaga	12 <i>maravedís</i> on every <i>arroba</i> “consumed there”
Córdoba	13.5 <i>reales</i> “on every small load of wine” 19 <i>reales</i> “on large loads that enter from Campiña in the city and Alondiga 3 <i>reales</i> on every large load, and two on small ones for wine entering from Campiña, and from Sierra by outsiders”
Jaén	36 <i>maravedís</i> per <i>arroba</i> of wine “entering the city to supply the taverns” 68 <i>maravedís</i> on every <i>arroba</i> of wine “entering the city to supply the public taverns”
Cartagena	4 <i>maravedís</i> per <i>azumbre</i> of vino
Lorca	1 <i>real</i> on an <i>arroba</i> of wine 4 <i>maravedís</i> on every <i>azumbre</i> of vino “sold to the public in taverns”
Toledo	8 <i>maravedís</i> on every <i>azumbre</i> of wine 7 <i>maravedís</i> on every <i>arroba</i> of wine
Cuenca	28 <i>maravedís</i> on every <i>arroba</i> of wine
Burgos	16 <i>maravedís</i> per <i>cántaro</i> of red wine 32 <i>maravedís</i> per <i>cántaro</i> of white wine
Aranda de Duero	4 <i>maravedís</i> per <i>cuartillo</i> (approx. 1 pint) retail
Oviedo	2 <i>maravedís</i> per <i>cuartillo</i> retail
La Coruña	¾ of the price of an octava (eighth) of an <i>arroba</i> of wine
Santiago	Four <i>reales</i> per <i>moyo</i> of vino
Segovia	32 <i>maravedís</i> per <i>arroba</i> of wine
Soria	1½ <i>reales</i> per <i>arroba</i> of wine
Ávila	54 <i>maravedís</i> per <i>arroba</i> of wine consumed in taverns there
Salamanca	20 <i>maravedís</i> on a <i>cántaro</i> of vino 1 <i>real</i> per <i>cántaro</i> of wine for the Ordinary and Extraordinary payment. 5 <i>maravedís</i> per <i>azumbre</i> applied to different uses
Valladolid	72 <i>maravedís</i> on every <i>cántaro</i> of vino consumed in the city
Medina del Campo	16 <i>maravedís</i> per <i>cántaro</i> of red wine y 32 per <i>cántaro</i> of white wine
Palencia	46 <i>maravedís</i> on every <i>arroba</i> of wine
Toro	28 <i>maravedís</i> per <i>cántaro</i> of vino “purchased wholesale and retail in the city” 4 <i>maravedís</i> on a <i>cántaro</i> of wine
Carrión	½ <i>real</i> per <i>cántaro</i> of wine
Mérida	4 <i>maravedís</i> per <i>cuartillo</i> of white wine, “sold retail in public taverns”
Zamora	96 <i>maravedís</i> on every <i>cántaro</i> of wine

Source: Aznar (1727), pp. 130-159.

Bibliografía

- Aravaca y Torrent, A. (1867). *Balanza métrica, ó sea Igualdad de las pesas y medidas legales de Castilla, las de las cuarenta y nueve provincias de España, sus posesiones de Ultramar, isla de Cuba, Puerto-Rico y Filipinas, y las de Francia, Inglaterra y Portugal: todas con el sistema métrico y viceversa*: Imp. de José Domenech.
- Aznar, B. F. (1727). *Discurso que formò, tocante a la real hacienda, y administracion de ella ... en el se incluyen ... todas las rentas que su magestad goza en las dos Castillas, Galicia, y Asturias : y se declara tambien quales rentas se pueden suprimir, ò moderar, por ser muy perjudicial su practica, y continuacion : y quales pueden quedar en su sèr, sin novedad alguna*. Madrid: s.n.
- Hamilton, E. J. (1934). *American treasure and the price revolution in Spain, 1501-1650*: Cambridge, Mass., Harvard University Press, 1934.
- Sebastián Amarilla, J. A. (1992). *Agricultura y rentas monásticas en tierras de León : Santa María de Sandoval(1167-1835) / José Antonio Sebastián Amarilla*. Universidad Complutense de Madrid, Madrid.