

## Appendix

Toledo Price Index (TPI) expressed in *maravedis* (Base 100 = 1521-1530 average) and in silver grams (gr. Ag.), 1521-1650. \*Conversion: grams of silver per maravedis, Hamilton (1934 and 1947). TPI\_NH refers to the omission of housing, also in constant *maravedis* of 1521-1530.

<b>Years</b>	<b>TPI (mrs.)</b>	<b>TPI_NH* (mrs.)</b>	<b>Gr. Ag./mrs.*</b>	<b>TPI (Gr. Ag.)</b>
1521	91.7	92.9	0.094	91.7
1522	116.1	116.9	0.094	116.1
1523	90.8	89.1	0.094	90.8
1524	84.9	83.5	0.094	84.9
1525	96.8	97.3	0.094	96.8
1526	94.5	94.5	0.094	94.5
1527	97.9	99.3	0.094	97.9
1528	92.3	91.2	0.094	92.3
1529	104.1	104.6	0.094	104.1
1530	130.9	130.7	0.094	130.9
1531	135.1	132.9	0.094	135.1
1532	92.6	88.7	0.094	92.6
1533	98.3	95.0	0.094	98.3
1534	130.0	127.9	0.094	130.0
1535	119.1	110.0	0.094	119.1
1536	117.8	108.7	0.094	117.8
1537	103.0	98.2	0.094	103.0
1538	128.8	125.6	0.094	128.8
1539	117.7	113.7	0.094	117.7
1540	119.0	114.7	0.094	119.0
1541	114.7	109.4	0.094	114.7
1542	132.2	128.0	0.094	132.2
1543	133.3	129.5	0.094	133.3
1544	141.8	133.0	0.094	141.8
1545	122.6	113.5	0.094	122.6
1546	152.7	144.2	0.094	152.7
1547	159.0	151.0	0.094	159.0
1548	168.4	160.8	0.094	168.4
1549	223.1	219.4	0.094	223.1
1550	183.1	178.0	0.094	183.1
1551	142.9	134.1	0.094	142.9
1552	151.8	145.8	0.094	151.8

<b>Years</b>	<b>TPI (mrs.)</b>	<b>TPI_NH* (mrs.)</b>	<b>Gr. Ag./mrs.*</b>	<b>TPI (Gr. Ag.)</b>
1553	150.7	143.7	0.094	150.7
1554	136.5	131.3	0.094	136.5
1555	145.2	137.9	0.094	145.2
1556	149.8	142.4	0.094	149.8
1557	183.4	173.9	0.094	183.4
1558	188.0	178.1	0.094	188.0
1559	185.1	177.3	0.094	185.1
1560	204.4	190.4	0.094	204.4
1561	208.2	194.3	0.094	208.2
1562	212.4	196.9	0.094	212.4
1563	193.9	176.8	0.094	193.9
1564	203.5	186.7	0.094	203.5
1565	214.1	197.5	0.094	214.1
1566	211.4	191.1	0.094	211.4
1567	222.2	201.5	0.094	222.2
1568	224.1	202.2	0.094	224.1
1569	213.5	190.6	0.094	213.5
1570	245.6	224.6	0.094	245.6
1571	270.9	243.1	0.094	270.9
1572	237.6	210.3	0.094	237.6
1573	232.2	205.7	0.094	232.2
1574	227.0	202.6	0.094	227.0
1575	246.9	220.6	0.094	246.9
1576	256.0	227.4	0.094	256.0
1577	248.2	223.0	0.094	248.2
1578	266.4	239.5	0.094	266.4
1579	266.9	238.4	0.094	266.9
1580	267.7	238.5	0.094	267.7
1581	300.9	272.2	0.094	300.9
1582	271.3	254.4	0.094	271.3
1583	264.2	243.2	0.094	264.2
1584	292.9	275.1	0.094	292.9
1585	306.2	286.3	0.094	306.2
1586	250.8	229.0	0.094	250.8
1587	277.8	259.2	0.094	277.8
1588	265.3	248.8	0.094	265.3
1589	318.5	300.7	0.094	318.5
1590	328.8	311.6	0.094	328.8

<b>Years</b>	<b>TPI (mrs.)</b>	<b>TPI_NH* (mrs.)</b>	<b>Gr. Ag./mrs.*</b>	<b>TPI (Gr. Ag.)</b>
1591	296.1	271.3	0.094	296.1
1592	332.6	298.9	0.094	332.6
1593	304.6	271.9	0.094	304.6
1594	378.6	343.5	0.094	378.6
1595	301.6	268.1	0.094	301.6
1596	305.9	274.1	0.094	305.9
1597	307.1	274.4	0.094	307.1
1598	348.1	319.5	0.094	348.1
1599	449.8	416.7	0.094	449.8
1600	379.9	342.8	0.094	379.9
1601	328.9	298.4	0.094	328.8
1602	354.6	323.1	0.094	354.5
1603	335.7	306.3	0.093	332.3
1604	364.0	331.0	0.092	356.8
1605	316.6	286.1	0.092	310.3
1606	482.9	440.0	0.092	473.5
1607	466.4	420.4	0.092	457.3
1608	409.5	370.9	0.092	401.5
1609	371.5	335.1	0.092	364.2
1610	332.6	301.7	0.092	326.0
1611	334.3	301.2	0.092	327.7
1612	350.3	317.5	0.092	343.4
1613	356.0	323.7	0.092	349.0
1614	420.8	385.9	0.092	412.5
1615	414.9	377.4	0.092	406.8
1616	421.0	382.3	0.093	416.9
1617	437.8	395.9	0.092	429.2
1618	397.2	361.6	0.092	389.3
1619	339.1	306.5	0.091	329.2
1620	360.7	329.8	0.091	346.3
1621	364.5	331.1	0.090	347.2
1622	339.4	313.6	0.089	320.8
1623	404.7	373.6	0.085	365.8
1624	412.8	384.6	0.084	367.9
1625	400.1	373.5	0.076	324.4
1626	422.8	396.5	0.063	282.4
1627	472.1	444.1	0.066	332.1
1628	538.9	505.5	0.068	392.3

<b>Years</b>	<b>TPI (mrs.)</b>	<b>TPI_NH* (mrs.)</b>	<b>Gr. Ag./mrs.*</b>	<b>TPI (Gr. Ag.)</b>
1629	474.5	443.7	0.080	401.4
1630	515.3	481.4	0.078	427.3
1631	548.3	510.3	0.079	462.8
1632	455.9	426.1	0.079	385.0
1633	458.5	427.9	0.076	369.4
1634	391.6	365.6	0.074	309.7
1635	400.2	375.4	0.074	313.0
1636	406.5	381.0	0.074	318.5
1637	447.5	419.4	0.073	347.8
1638	515.5	481.7	0.071	391.3
1639	451.1	422.5	0.070	334.2
1640	358.8	336.4	0.064	244.3
1641	495.4	460.1	0.057	300.8
1642	598.6	564.6	0.043	271.4
1643	461.1	428.6	0.074	365.1
1644	489.6	457.6	0.072	376.8
1645	493.3	465.3	0.069	364.3
1646	519.3	489.5	0.067	371.3
1647	592.7	552.2	0.070	440.4
1648	525.2	495.4	0.067	375.5
1649	547.9	518.6	0.065	381.4
1650	576.3	554.4	0.062	378.8

## Consumption baskets of a male family head in Toledo for 1521-1550, 1551-1600 and 1601-1650

	Basket 1521-1550			Basket 1551-1600			Basket 1601-1650		
	Daily kcal per person	Yearly quantity per person	Price mrs. per unit	Daily kcal per person	Yearly quantity per person	Price mrs. per unit	Daily kcal per person	Yearly quantity per person	Price mrs. per unit
Wheat	1,858.4	230.7	4.1	2,032.9	681.5	8.5	2,177.7	709.9	16.0
Bacon	-	-	-	50.2	7.6	52.4	32.3	4.9	92.8
Beef	212.0	36.2	10.2	134.8	62.1	27.3	-	-	-
Mutton	75.7	13.0	17.2	44.8	20.8	41.9	133.9	62.1	73.3
Dried fish	-	-	-	37.1	11.3	49.4	30.9	9.5	83.0
Milk	-	-	-	25.5	1.4	64.2	25.5	1.4	116.5
Cheese	10.0	1.0	38.8	3.7	1.1	73.3	-	-	-
Eggs	-	-	-	-	-	-	1.3	0.8	105.9
Olive oil (cooking)	123.3	5.0	21.3	123.3	10.8	38.4	123.3	10.8	57.2
Green grapes	-	-	-	7.5	10.8	8.3	7.5	10.8	11.7
Raisins	-	-	-	18.8	6.8	25.8	18.8	6.8	37.4
Almonds	-	-	-	11.5	1.9	70.1	11.5	1.9	126.2
Chestnuts	-	-	-	9.3	5.4	30.8	9.3	5.4	44.2
Honey	-	-	-	7.9	2.7	34.6	7.9	2.7	37.4
Vinegar	0.1	1.0	7.4	0.1	2.7	7.2	0.1	2.7	8.3
Wine	221.0	124.1	6.0	221.0	248.2	10.0	286.0	321.2	17.4
Linen	-	4.0	38.0	-	10.5	78.4	-	10.5	104.8
Esparto	-	1.0	1.8	-	3.0	3.1	-	3.0	5.2
Twine	-	-	-	-	3.0	9.7	-	3.0	17.4
Housing rent	-	14.8	310.1	-	44.3	864.6	-	44.3	1042.1
Housing maintenance	-	-	-	-	-	-	-	-	-
Charcoal	-	73.0	1.6	-	164.3	3.5	-	164.3	6.3
Olive oil (fuel)	-	2.0	21.3	-	4.8	38.4	-	4.8	57.2
Household goods / Other	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>2,500.5</b>	<b>-</b>	<b>-</b>	<b>2,728.5</b>	<b>-</b>	<b>-</b>	<b>2,805.9</b>	<b>-</b>	<b>-</b>

Note: Wheat (2,940 kcal/kg), bacon (6,550 kcal/kg), beef (2,140 kcal/kg), mutton (2,125 kcal/kg), dried fish (3,220 kcal/kg), cheese (3,330 kcal/kg), eggs (1,570 kcal/kg), green grapes (681.4 kcal/kg), raisins (2,750 kcal/kg), almonds (6,100 kcal/kg), chesnuts (1,700 kcal/kg), honey (2,880 kcal/kg), lime, plaster, and charcoal are expressed in kilograms. Milk (620 kcal/kg), olive oil (9,000 kcal/kg), vinegar (40 kcal/kg), and wine (650 kcal/kg) are expressed in liters. Linen, esparto, and hemp are expressed in meters. Twine is expressed in hectograms. Bricks, and tiles are expressed in units. Housing consumption is expressed in squared meters. Paper is expressed in *hands*.

Sources: ABCT, *Obra y Fábrica, Libros de la Obra*, 796-908; AMT, *Caja de Vino*, 2405-2409; and Hamilton 1983.

<b>Years</b>	<b>Allen's <i>Madrid</i> Welfare Ratios</b>	<b>Toledo Welfare Ratios</b>
1551	0.61	0.51
1552		
1553	0.58	0.48
1554	0.67	0.63
1555	0.69	0.59
1556	0.54	0.49
1557	0.54	0.47
1558	0.51	0.46
1559	0.49	0.44
1560	0.56	0.46
1561	0.71	0.62
1562		
1563	0.80	0.66
1564	0.76	0.63
1565	0.82	0.68
1566	0.86	0.73
1567	0.76	0.65
1568	0.78	0.65
1569	0.74	0.60
1570	0.72	0.59
1571	0.67	0.54
1572	0.74	0.60
1573	0.79	0.63
1574	0.80	0.64
1575		
1576		
1577	0.81	0.66
1578	0.69	0.55
1579	0.61	0.48
1580	0.63	0.48
1581	0.86	0.60
1582	0.83	0.67
1583	0.76	0.62
1584	0.69	0.56
1585	0.75	0.59
1586	0.81	0.65
1587	0.75	0.59
1588	0.83	0.69
1589	0.69	0.57
1590	0.67	0.55
1591	0.69	0.55
1592	0.73	0.55
1593	0.76	0.60
1594	0.63	0.48
1595	0.82	0.60
1596	0.78	0.59
1597	0.69	0.59
1598	0.69	0.52
1599	0.59	0.44
1600	0.63	0.48

### Notes on Prices

Hamilton's price series for New Castile correspond to wheat, barley, bacon, beef, mutton, kid, chicken, hen, dried fish, sardines, milk, cheese, eggs, olive oil, lard, butter, raisins, green grapes, cherries, apples, pears, plums, oranges, dates, chestnuts, almonds, lentils, turnips, carrots, sugar, honey, vinegar, cinnamon, saffron, pepper, olives, wine, moonshine, twine, lime, plaster, tallow candles, yellow wax, brooms, and paper.

The new sources offer available prices for wheat (1521-1650), barley (1580-1650), hens (1521-1550), olive oil (1521-1650), vinegar (1521-1540), wine (1565-1650), linen (1521-1650), wool (1521-1650), *esparto* (1521-1650), shoes (1521-1650), urban rent (1521-1650), bricks (1521-1650), tiles (1521-1650), charcoal (1521-1650), yellow wax (1521-1650), hemp (1521-1650) and paper (1521-1550).

The *Primada* wheat prices have been obtained from two different items: 1) Alms bread (*Pan de la limosna*), containing wheat prices and quantities of grain purchased to make bread for poor people; and 2) *Seises* bread (*pan de los Seises*), containing wheat purchases for feeding the Cathedral choirboys (*Seises*). In both cases, prices reflect the cost of wheat grain required for bread preparation.

### Notes on consumer baskets

The Toledan basket for 1521-1550 contains prices for wheat (Hamilton 1934), beef (Hamilton 1934), mutton (Hamilton 1934), cheese (Hamilton, 1934), olive oil (*Primada*), vinegar (*Primada*), wine (Hamilton 1983), linen (*Primada*), *esparto* (*Primada*), housing rent (Drelichman & González Agudo 2014), lime (Hamilton 1934), plaster (Hamilton 1934), bricks (*Primada*), tiles (*Primada*), charcoal (*Primada*), hemp (*Primada*) and paper (*Primada*).

The basket for 1551-1600 contains prices for wheat (Hamilton 1934), bacon (Hamilton 1934), beef (Hamilton 1934), mutton (Hamilton 1934), dried fish (Hamilton 1934), milk (Hamilton 1934), cheese (Hamilton 1934), olive oil (*Primada*), green grapes (Hamilton 1934), raisins (Hamilton 1934), almonds (Hamilton 1934), chestnuts (Hamilton 1934), honey (Hamilton

1934), vinegar (*Primada*), wine (Hamilton 1934 and *Primada*), linen (*Primada*), esparto (*Primada*), twine (Hamilton 1934), housing rent (Drelichman & González Agudo 2014), lime (Hamilton 1934), plaster (Hamilton 1934), bricks (*Primada*), tiles (*Primada*), charcoal (*Primada*), hemp (*Primada*) and paper (*Primada*).

The basket for 1601-1650 comprises prices for wheat (Hamilton 1934), bacon (Hamilton 1934), mutton (Hamilton 1934), dried fish (Hamilton 1934), milk (Hamilton 1934), eggs (Hamilton 1934), olive oil (*Primada*), green grapes (Hamilton 1934), raisins (Hamilton 1934), almonds (Hamilton 1934), chestnuts (Hamilton 1934), honey (Hamilton 1934), vinegar (*Primada*), wine (*Primada*), linen (*Primada*), *esparto* (*Primada*), twine (Hamilton 1934), housing rent (Drelichman & González Agudo 2014), lime (Hamilton 1934), plaster (Hamilton 1934), bricks (*Primada*), tiles (*Primada*), charcoal (*Primada*), hemp (*Primada*) and paper (*Primada*).