Project 1

To obtain the data from the database, the SQL queries were:

- SELECT * FROM global_data;
- SELECT * FROM city_list;
- SELECT year, city, avg_temp FROM city_data WHERE city = 'Madrid';

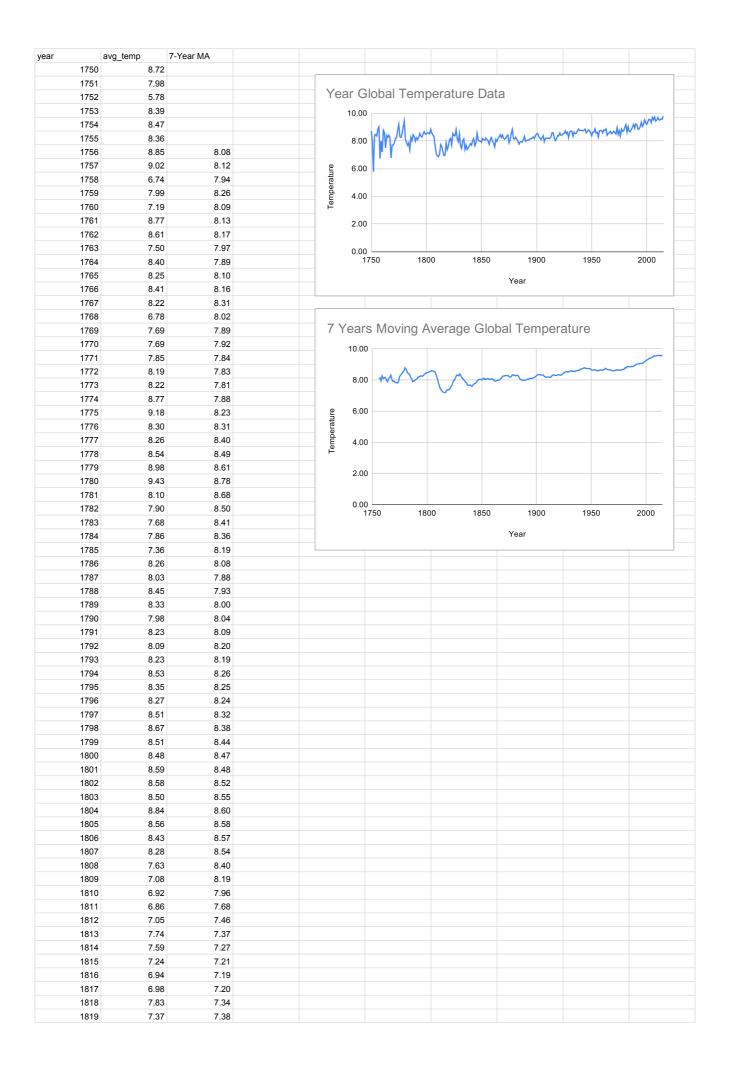
I have used the tool Google Sheets for the job. I have had to configure the spreadsheet to be used as a country in the United States, since in my case, Spain comes by default and gave an error when loading the data, they could not be operated on.

To calculate the moving average I use the function =*AVERAGE(B?:B?)*, where "B?" were the cells of the different groups from the previous seven years used to calculate the mean. I preferred to visualize the trends using the moving average that gives a smoother graph and where they can be better appreciated.

As observations:

- 1. The city of Madrid, the closest to my home, is hotter than the global average. This difference has been constant throughout the entire data series.
- 2. There are similarities in the change in the temperature trend, these are increasing both in the global data and in the Madrid data.
- 3. The temperature trend is clearly ascending at the global level of the data, except in brief periods of lower temperature, such as in the first two decades of the 19th century.
- 4. The curious effect can be seen in both data series, that after decades with lower temperatures, in the following years the increase in temperature is greater than in normal years, until a reversion to the average temperature is reached. This effect is clearly seen in both series during the third decade of the 19th century.
- 5. It can be seen that there have been more sudden changes in temperature, such as those discussed in the previous point, in Madrid than globally.

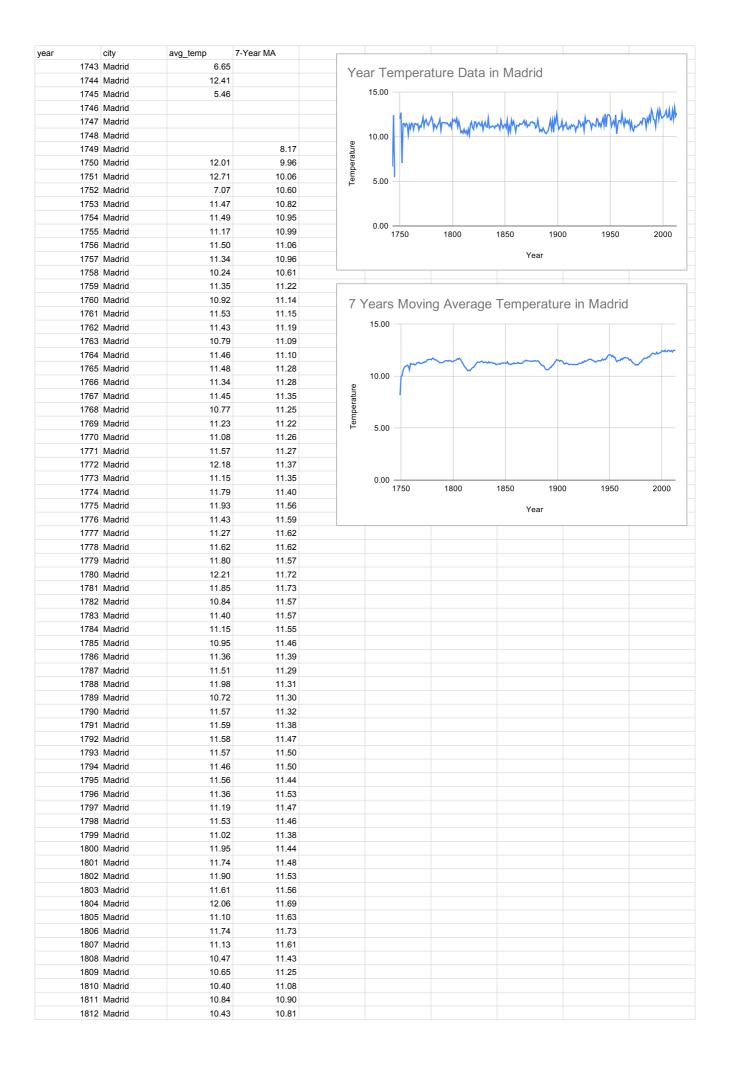
Below are the different data and graphs to support the analysis:



1820	7.62	7.37			
1821	8.09	7.44			
1822	8.19	7.57			
1823	7.72	7.69			
1824	8.55	7.91			
1825	8.39	7.99			
4000					
1826	8.36	8.13			
1827	8.81	8.30			
1828	8.17	8.31			
1829	7.94	8.28			
1830	8.52	8.39			
1831	7.64	8.26			
1832	7.45	8.13			
4000	0.04				
1833	8.01	8.08			
1834	8.15	7.98			
1835	7.39	7.87			
1836	7.70	7.84			
1837	7.38	7.67			
1838	7.51	7.66			
1839	7.63	7.68			
1840	7.80	7.65			
1841	7.69	7.59			
1842	8.02	7.68			
1843	8.17	7.74			
1844					
	7.65	7.78			
1845	7.85	7.83			
1846	8.55	7.96			
1847	8.09	8.00			
1848	7.98	8.04			
1849	7.98	8.04			
1850	7.90	8.00			
1851	8.18	8.08			
	0.10				
1852	8.10	8.11			
1853	8.04	8.04			
1854	8.21	8.06			
1855	8.11	8.07			
1856	8.00	8.08			
1857	7.76	8.06			
1858	8.10	8.05			
1859	8.25	8.07			
1860	7.96	8.06			
1861	7.85	8.00			
1862	7.56	7.93			
	7.50				
1863	8.11	7.94			
1864	7.98	7.97			
1865	8.18	7.98			
1866	8.29	7.99			
1867	8.44	8.06			
1868	8.25	8.12			
1869	8.43	8.24			
1870	8.20	8.25			
1871	8.12	8.27			
1872	8.19	8.27			
1873	8.35	8.28			
1874	8.43	8.28			
1875	7.86	8.23			
1876	8.08	8.18			
1877	8.54	8.22			
1878	8.83	8.33			
1879	8.17	8.32			
1880	8.12	8.29			
1881	8.27	8.27			
1882	8.13	8.31			
1883	7.98	8.29			
1884	7.77	8.18			
1885	7.92	8.05			
1886	7.95	8.02			
	7.91	7.99			
		7.99			
1887	1.51				
1887					
1887 1888	8.09	7.96			
1887					

1891 1892 1893	8.02	8.03			
1893					
1893	8.07	8.05			
	8.06	8.06			
1894	8.16	8.10			
1895					
	8.15	8.11			
1896	8.21	8.09			
1897	8.29	8.14			
1898	8.18	8.16			
1899	8.40	8.21			
1900	8.50	8.27			
1901	8.54	8.32			
1902	8.30	8.35			
1903	8.22	8.35			
1904	8.09	8.32			
1905	8.23	8.33			
1906	8.38	8.32			
1907	7.95	8.24			
1908	8.19	8.19			
1909	8.18	8.18			
1910	8.22	8.18			
1911	8.18	8.19			
1912	8.17	8.18			
1913	8.30	8.17			
1914	8.59	8.26			
1915	8.59	8.32			
1916	8.23	8.33			
1917	8.02	8.30			
1918	8.13	8.29			
1919	8.38	8.32			
1920	8.36	8.33			
1921	8.57	8.33			
1922	8.41	8.30			
1923	8.42	8.33			
1924	8.51	8.40			
1925	8.53	8.45			
1926	8.73	8.50			
1927	8.52	8.53			
1928	8.63	8.54			
1929	8.24	8.51			
1930	8.63	8.54			
1931	8.72	8.57			
1932	8.71	8.60			
1933	8.34	8.54			
1934	8.63	8.56			
1935	8.52	8.54			
1936	8.55	8.59			
1937	8.70	8.60			
1938	8.86	8.62			
1939	8.76	8.62			
1940	8.76	8.68			
1941	8.77	8.70			
1942	8.73	8.73			
1943	8.76	8.76			
1944	8.85	8.78			
1945	8.58	8.74			
1946	8.68	8.73			
1947	8.80	8.74			
1948	8.75	8.74			
1949	8.59	8.72			
1950	8.37	8.66			
1951	8.63	8.63			
1952	8.64	8.64			
1953	8.87	8.66			
1954	8.56	8.63			
1955	8.63	8.61			
1956	8.28	8.57			
1957	8.73	8.62			
1958	8.77	8.64			
1959	8.73	8.65			
4000	8.58	8.61			
1060	8.80	8.65			
1960 1961		0.05			

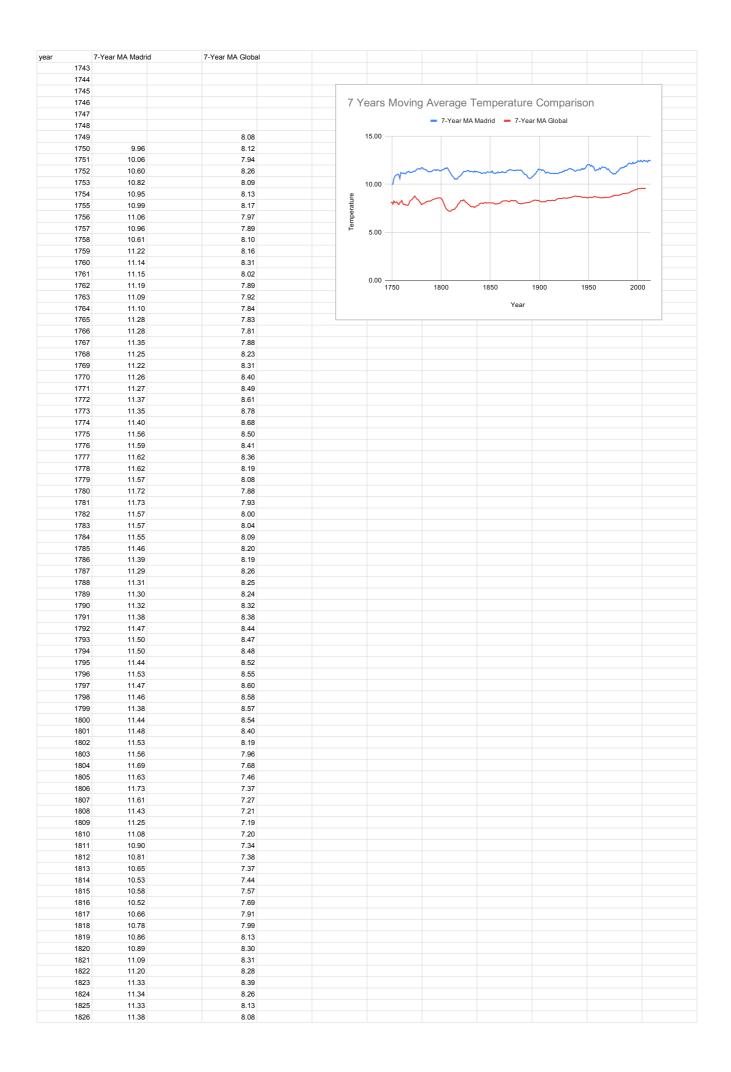
1962	8.75	8.66			
1963	8.86	8.75			
1964	8.41	8.70			
1965	8.53	8.67			
1966	8.60	8.65			
1967	8.70	8.66			
1968	8.52	8.62			
1969	8.60	8.60			
1970	8.70	8.58			
1971	8.60	8.61			
1971	8.50	8.60			
1973	8.95	8.65			
1974	8.47	8.62			
1975	8.74	8.65			
1976	8.35	8.62			
1977	8.85	8.64			
1978	8.69	8.65			
1979	8.73	8.68			
1980	8.98	8.69			
1981	9.17	8.79			
1982	8.64	8.77			
1983	9.03	8.87			
1984	8.69	8.85			
1985	8.66	8.84			
1986	8.83	8.86			
1987	8.99	8.86			
1988	9.20	8.86			
1989	8.92	8.90			
1990	9.23	8.93			
1991	9.18	9.00			
1992	8.84	9.03			
1993	8.87	9.03			
1994	9.04	9.04			
1995	9.35	9.06			
1996	9.04	9.08			
1997	9.20	9.07			
1998	9.52	9.12			
1999	9.29	9.19			
2000	9.20	9.23			
2001	9.41	9.29			
2002	9.57	9.32			
2003	9.53	9.39			
2004	9.32	9.41			
2005	9.70	9.43			
2006	9.53	9.47			
2007	9.73	9.54			
2008	9.43	9.54			
2009	9.51	9.54			
2010	9.70	9.56			
2011	9.52	9.59			
2012	9.51	9.56			
2013	9.61	9.57			
2014	9.57	9.55			
2015	9.83	9.61			



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	4 Madrid	10.26	10.53				
181	5 Madrid	10.85	10.58				
181	6 Madrid	10.20	10.52				
181	7 Madrid	11.37	10.66				
181	8 Madrid	11.67	10.78				
181	9 Madrid	11.02	10.86				
182	0 Madrid	10.83	10.89				
102	1 Madrid	11.67	11.09				
	1 Madrid	11.07	11.09				
182	2 Madrid	11.67	11.20				
192	3 Madrid	11.08	11.33				
182	4 Madrid	11.43	11.34				
182	5 Madrid	11.62	11.33				
182	6 Madrid	11.34	11.38				
182	7 Madrid	11.22	11.43				
182	8 Madrid	11.65	11.43				
182	9 Madrid	10.77	11.30				
193	0 Madrid	11.31	11.33				
183	1 Madrid	11.65	11.37				
183	2 Madrid	11.15	11.30				
183	3 Madrid	11.07	11.26				
183	4 Madrid	12.09	11.38				
	5 Madrid						
		10.98	11.29	-			
183	6 Madrid	11.11	11.34				
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183	8 Madrid	11.23	11.25				
183	9 Madrid	11.16	11.25				
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184	2 Madrid	11.17	11.14				
	3 Madrid	11.41	11.18				
184	4 Madrid	11.23	11.20				
104	5 Madrid	10.83	11.14				
184	6 Madrid	11.85	11.24				
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184	8 Madrid	10.97	11.25				
184	9 Madrid	11.30	11.27				
	0 Madrid	11.40	11.27				
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185	2 Madrid	11.84	11.38				
185	3 Madrid	10.42	11.18				
185	4 Madrid	11.19	11.16				
185	5 Madrid	10.61	11.11				
185	6 Madrid	11.87	11.19				
105	7 Madrid	11.34	11.18				
185	8 Madrid	11.74	11.29				
185	9 Madrid	11.25	11.20				
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	2 Madrid	11.29	11.33				
186	3 Madrid	11.19	11.24				
186	4 Madrid	11.49	11.26				
	5 Madrid	11.40	11.21				
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186	7 Madrid	11.61	11.38				
	8 Madrid	11.84	11.46				
186	9 Madrid	11.34	11.47				
	0 Madrid	11.70	11.54				
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187	1 Madrid	11.10	11.49				
187	2 Madrid	11.31	11.47				
187	3 Madrid	11.25	11.45				
187	4 Madrid	11.60	11.45				
	5 Madrid	11.63	11.42				
187	6 Madrid	11.69	11.47				
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187		11.57	11.51				
	8 Madrid		11.46				
		10.98					
187	9 Madrid	10.98					
187		11.12	11.44				
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1890 Madrid	1888	Madrid 10.4	10.75			
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1891 Madrid 11.75 10.82						
1992 Madrid	1890	Madrid 10.5	10.03			
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1896 Madrid 10.87 1895 Madrid 10.50 11.81 11.106 11.886 Madrid 10.50 11.90 11.						
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1807 Madrid	1895	Madrid 11.8	1 11.06			
1807 Madrid	1896	Madrid 10.5	11.08			
1888 Madrid						
1809 Madrid	1897	Madrid 12.0	11.30			
1809 Madrid	1898	Madrid 11.5	3 11.41			
1900 Madrid 11.54 11.54 11.54 1901 Madrid 10.84 11.54 1902 Madrid 11.08 11.43 1.09 11.43 1.09 1.09 11.43 1.09 1.09 11.46 1.09 11.48 1.09 1.09 11.24 11.21 1.09 1.09 Madrid 11.24 11.17 1.09 1.09 Madrid 10.85 11.39 1.09 Madrid 11.24 11.17 1.09 Madrid 10.80 11.24 11.17 1.09 Madrid 10.90 11.24 1.11.27 1.09 Madrid 10.90 11.24 1.11.17 1.09 Madrid 10.90 11.24 1.11.11 1.09 1.09 Madrid 10.90 11.24 1.11.11 1.09	1000					
1901 Madrid 10.84 11.54	1099					
1902 Madrid	1900	Madrid 11.5	11.54			
1902 Madrid	1901	Madrid 10.8	1 11 54			
1903 Machid						
1904 Madrid 10.85 11.39 1905 Madrid 10.85 11.39 1906 Madrid 11.26 11.21 1907 Madrid 11.26 11.21 1907 Madrid 11.24 11.17 1908 Madrid 11.57 11.27 1909 Madrid 10.90 11.24 1910 Madrid 10.90 11.24 1910 Madrid 10.82 11.20 1911 Madrid 10.82 11.20 1911 Madrid 10.82 11.20 1911 Madrid 10.85 11.13 1912 Madrid 10.95 11.13 1912 Madrid 10.95 11.13 1913 Madrid 11.36 11.14 1914 Madrid 11.38 11.13 1915 Madrid 11.38 11.14 1914 Madrid 11.39 11.10 1916 Madrid 11.30 11.10 1916 Madrid 11.32 11.10 1917 Madrid 10.63 11.12 1918 Madrid 11.30 11.12 1919 Madrid 11.82 11.19 1919 Madrid 11.82 11.19 1919 Madrid 11.80 11.81	1902	Madrid 11.0	3 11.43			
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1905 Madrid 10.85 11.39 1906 Madrid 11.26 11.21 1 1.00 1907 Madrid 11.24 11.17 1908 Madrid 11.24 11.17 1908 Madrid 11.57 11.27 1909 Madrid 10.90 11.24 1910 Madrid 10.82 11.20 1911 Madrid 10.82 11.20 1911 Madrid 10.85 11.13 1912 Madrid 10.95 11.13 1913 Madrid 11.36 11.14 1912 Madrid 11.36 11.14 1914 Madrid 11.36 11.14 1915 Madrid 11.30 11.10 1918 Madrid 11.30 11.10 1918 Madrid 11.20 11.10 1918 Madrid 11.21 11.11 1919 Madrid 11.22 11.10 1918 Madrid 11.22 11.10 1918 Madrid 11.22 11.11 1919 Madrid 11.03 11.12 11.11 1919 Madrid 11.03 11.12 11.11 1919 Madrid 11.03 11.12 11.14 1919 Madrid 11.03 11.12 11.19 1912 Madrid 11.66 11.26 11.26 1922 Madrid 11.66 11.26 11.26 1922 Madrid 11.57 11.38 1925 Madrid 11.57 11.38 1925 Madrid 11.57 11.38 1925 Madrid 11.57 11.32 1928 Madrid 11.57 11.38 1929 Madrid 11.57 11.32 1929 Madrid 11.58 11.55 1929 Madrid 11.58 11.55 1929 Madrid 11.58 11.55 1939 Madrid 11.58 11.55 1939 Madrid 11.59 11.55 1939 Madrid 11.59 11.55 1939 Madrid 11.59 11.55 1939 Madrid 11.59 11.59 1939 Madrid						
1906 Madrid 11.26 11.27						
1906 Madrid 11.26 11.27	1905	Madrid 10.8	5 11.39			
1907 Madrid 11.57 11.77 11.09 Madrid 10.90 11.24 11.17 11.09 Madrid 10.90 11.24 11.17 11.09 Madrid 10.82 11.20 11.01 Madrid 10.82 11.20 11.11 11	1906	Madrid 11.2	3 11 21			
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1949 Madrid 12.43 12.05						
1950 Madrid 12.17 12.06	1950	Madrid 12.1	7 12.06			
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1952 Madrid 11.50 11.89	1952	Madrid 11.5	לו 11.89			
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1956	Madrid 10.	34 11.5	2			
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1965	Madrid 11.	55 11.7	7			
1966	Madrid 11.	79 11.7	7			
1967	Madrid 11.	50 11.7	6			
1968	Madrid 11.	85 11.6	5			
1969	Madrid 10.	94 11.5	4			
1970	Madrid 11.	61 11.6	0			
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1981	Madrid 12.	10 11.5	0			
1982	Madrid 12.	05 11.6	3			
1983	Madrid 11.	98 11.7	3			
1984	Madrid 11.	05 11.69	9			
1985	Madrid 12.	04 11.7	7			
1986	Madrid 11.	65 11.7	3			
1987	Madrid 12.	36 11.8	9			
1988	Madrid 11.	83 11.8	5			
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2003	Madrid 12.	92 12.5	0			
2004	Madrid 12.	17 12.3	8			
2005	Madrid 12.	26 12.3	6			
2006	Madrid 13.	06 12.4	9			
2007	Madrid 11.	89 12.4	5			
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1827	11.43	7.98			
1828	11.43	7.87			
1829	11.30	7.84			
1830	11.33	7.67			
1831	11.37	7.66			
1832	11.30	7.68			
1833	11.26	7.65			
	11.38	7.59			
1834					
1835	11.29	7.68			
1836	11.34	7.74			
1837	11.31	7.78			
1838	11.25	7.83			
1839	11.25	7.96			
1840	11.23	8.00			
1841	11.11	8.04			
1842	11.14	8.04			
1843	11.18	8.00			
1844	11.20	8.08			
1845	11.14	8.11			
1846	11.24	8.04			
1847	11.29	8.06			
1848	11.25	8.07			
1849	11.27	8.08			
1850	11.27	8.06			
1851	11.24	8.05			
1852	11.38	8.07			
1853	11.18	8.06			
1854	11.16	8.00			
		7.93			
1855	11.11				
1856	11.19	7.94			
1857	11.18	7.97			
1858	11.29	7.98			
1859	11.20	7.99			
1860	11.22	8.06			
1861	11.24	8.12			
1862	11.33	8.24			
1863	11.24	8.25			
1864	11.26	8.27			
1865	11.21	8.27			
1866	11.23	8.28			
1867	11.38	8.28			
1868	11.46	8.23			
1869	11.47	8.18			
1870	11.54	8.22			
1871	11.49	8.33			
1872	11.47	8.32			
1873	11.45	8.29			
1874	11.45	8.27			
1875	11.42	8.31			
1876	11.47	8.29			
1877	11.44	8.18			
1878	11.51	8.05			
1879	11.46	8.02			
1880	11.44	7.99			
1881	11.49	7.96			
1882	11.42	7.99			
1883	11.26	7.99			
1884	11.16	8.03			
1885	11.02	8.05			
1886	11.02	8.06			
1887	10.96	8.10			
1888	10.75	8.11			
1889	10.73	8.09			
1890	10.63	8.14			
1891	10.62	8.16			
1892	10.72	8.21			
1893	10.84	8.27			
1894	10.86	8.32			
1895	11.06	8.35			
		8.35			
1896	11.08				
1897	11.30	8.32			
1898	11.41	8.33			
1899	11.59	8.32			
1900	11.54	8.24			
1901	11.54	8.19			
1902	11.43	8.18			
1903	11.52	8.18			
1904	11.48	8.19			
1905	11.39	8.18			
1906	11.21	8.17			
1907	11.17	8.26			
1908	11.27	8.32			
	44.04	8.33			
1909	11.24				
	11.24 11.20	8.30			
1909					

1912	11.13	8.32		
1913	11.14	8.33		
1914	11.13	8.33		
1915	11.10	8.30		
1916	11.14	8.33		
1917	11.12	8.40		
1918	11.11	8.45		
1919				
	11.12	8.50		
1920	11.19	8.53		
1921	11.26	8.54		
1922	11.23	8.51		
1923	11.24	8.54		
1924	11.38	8.57		
1925	11.32	8.60		
1926	11.48	8.54		
1927	11.44	8.56		
1928	11.45	8.54		
1929	11.55	8.59		
1930	11.62	8.60		
1931	11.61	8.62		
1932	11.64	8.62		
1933	11.55	8.68		
1934	11.52	8.70		
1935	11.45	8.73		
1936	11.35	8.76		
1937	11.39	8.78		
1938	11.45	8.74		
1939	11.50	8.73		
1940	11.50	8.74		
1941	11.47	8.74		
1942	11.52	8.72		
1943	11.65	8.66		
1944	11.54	8.63		
1945	11.63	8.64		
1946	11.61	8.66		
1947	11.73	8.63		
1948	11.93	8.61		
		8.57		
1949	12.05			
1950	12.06	8.62		
1951	12.04	8.64		
1952	11.89	8.65		
1953	11.98	8.61		
1954	11.83	8.65		
1955	11.82	8.66		
1956	11.52	8.75		
1957	11.40	8.70		
1958	11.49	8.67		
1959	11.53	8.65		
1960	11.51	8.66		
1961	11.69	8.62		
1962	11.59	8.60		
1963	11.71	8.58		
1964	11.81	8.61		
1965	11.77	8.60		
1966	11.77	8.65		
1967	11.76	8.62		
1968	11.65	8.65		
1969	11.54	8.62		
1970	11.60	8.64		
1971	11.44	8.65		
1972	11.31	8.68		
1973	11.23	8.69		
1974	11.17	8.79		
		8.77		
1975	11.07			
1976	11.12	8.87		
1977	11.07	8.85		
1978	11.17	8.84		
1979	11.33	8.86		
1980	11.36	8.86		
1981	11.50	8.86		
1982	11.63	8.90		
1983	11.73	8.93		
1984	11.69	9.00		
1985	11.77	9.03		
1986	11.76	9.03		
1987	11.89	9.04		
		9.06		
1988	11.85			
1989	11.99	9.08		
1990	12.09	9.07		
1991	12.22	9.12		
1992	12.20	9.19		
1993	12.12	9.23		
1994	12.13	9.29		
1995	12.30	9.32		
	12.14	9.39		
1996				

1997	12.19	9.41				
1998	12.26	9.43				
1999	12.29	9.47				
2000	12.44	9.54				
2001	12.43	9.54				
2002	12.36	9.54				
2003	12.50	9.56				
2004	12.38	9.59				
2005	12.36	9.56				
2006	12.49	9.57				
2007	12.45	9.55				
2008	12.39	9.61				
2009	12.45					
2010	12.32					
2011	12.48					
2012	12.49					
2013	12.44					