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Project: Explore Weather Trends

Outline

- 1 Tools Used
- 2 Extracting data
- 3 Exploring Data
- 4 Calculate Moving Average
- 5 Visualizing data
- 6 Observations

1 Tools Used:

SQL, EXCEL

2 Extracting data

- First Extracting Data from Tables Using SQL:
Select * From city_list;
Select * From city_data
Select * From city_global

3 Exploring Data

downloading CSV files and opening it using Excel;

4 Calculate Moving Average

Calculating 10 Years Moving Average using Average ([Rang]);
function in EXCEL

This Table clarifies Calculations:

year	Damascus_avg_temp	Damascus_Moving_avg_temp (formula)	Damascus_Moving_avg_temp	Global_avg_temp	Global_Moving_avg_temp (formula)	Global_Moving_avg_temp
1808	14.91			7.63		
1809	17.04			7.08		
1810	17.09			6.92		
1811	17.12			6.86		
1812	17.07			7.05		
1813	17.62			7.74		
1814	17.68			7.59		
1815	17.42			7.24		
1816	16.97			6.94		
1817	17.15			6.98		

1818	17.99	=AVERAGE(D2:D12)	17.10	7.83	=AVERAGE(G2:G12)	7.26
1819	17.5	=AVERAGE(D3:D13)	17.33	7.37	=AVERAGE(G3:G13)	7.24
1820	17.67	=AVERAGE(D4:D14)	17.39	7.62	=AVERAGE(G4:G14)	7.29
1821	17.77	=AVERAGE(D5:D15)	17.45	8.09	=AVERAGE(G5:G15)	7.39
1822	17.66	=AVERAGE(D6:D16)	17.50	8.19	=AVERAGE(G6:G16)	7.51
1823	17.96	=AVERAGE(D7:D17)	17.58	7.72	=AVERAGE(G7:G17)	7.57
1824	18.75	=AVERAGE(D8:D18)	17.68	8.55	=AVERAGE(G8:G18)	7.65
1825	18.09	=AVERAGE(D9:D19)	17.72	8.39	=AVERAGE(G9:G19)	7.72
1826	18.01	=AVERAGE(D10:D20)	17.77	8.36	=AVERAGE(G10:G20)	7.82
1827	18.88	=AVERAGE(D11:D21)	17.95	8.81	=AVERAGE(G11:G21)	7.99
1828	18.08	=AVERAGE(D12:D22)	18.03	8.17	=AVERAGE(G12:G22)	8.10
1829	18.05	=AVERAGE(D13:D23)	18.04	7.94	=AVERAGE(G13:G23)	8.11
1830	18.36	=AVERAGE(D14:D24)	18.12	8.52	=AVERAGE(G14:G24)	8.21
1831	17.66	=AVERAGE(D15:D25)	18.12	7.64	=AVERAGE(G15:G25)	8.22
1832	17.08	=AVERAGE(D16:D26)	18.05	7.45	=AVERAGE(G16:G26)	8.16
1833	17.93	=AVERAGE(D17:D27)	18.08	8.01	=AVERAGE(G17:G27)	8.14
1834	17.79	=AVERAGE(D18:D28)	18.06	8.15	=AVERAGE(G18:G28)	8.18
1835	17.33	=AVERAGE(D19:D29)	17.93	7.39	=AVERAGE(G19:G29)	8.08
1836	17.77	=AVERAGE(D20:D30)	17.90	7.7	=AVERAGE(G20:G30)	8.01
1837	17.46	=AVERAGE(D21:D31)	17.85	7.38	=AVERAGE(G21:G31)	7.92
1838	17.26	=AVERAGE(D22:D32)	17.71	7.51	=AVERAGE(G22:G32)	7.81
1839	17.53	=AVERAGE(D23:D33)	17.66	7.63	=AVERAGE(G23:G33)	7.76
1840	17.57	=AVERAGE(D24:D34)	17.61	7.8	=AVERAGE(G24:G34)	7.74
1841	18.05	=AVERAGE(D25:D35)	17.58	7.69	=AVERAGE(G25:G35)	7.67
1842	18.01	=AVERAGE(D26:D36)	17.62	8.02	=AVERAGE(G26:G36)	7.70
1843	17.95	=AVERAGE(D27:D37)	17.70	8.17	=AVERAGE(G27:G37)	7.77
1844	17.81	=AVERAGE(D28:D38)	17.68	7.65	=AVERAGE(G28:G38)	7.74
1845	18.02	=AVERAGE(D29:D39)	17.71	7.85	=AVERAGE(G29:G39)	7.71
1846	18.69	=AVERAGE(D30:D40)	17.83	8.55	=AVERAGE(G30:G40)	7.81

1847	18.22	=AVERAGE(D31:D41)	17.87	8.09	=AVERAGE(G31:G41)	7.85
1848	18.12	=AVERAGE(D32:D42)	17.93	7.98	=AVERAGE(G32:G42)	7.90
1849	18.14	=AVERAGE(D33:D43)	18.01	7.98	=AVERAGE(G33:G43)	7.95
1850	17.56	=AVERAGE(D34:D44)	18.01	7.9	=AVERAGE(G34:G44)	7.97
1851	18.46	=AVERAGE(D35:D45)	18.09	8.18	=AVERAGE(G35:G45)	8.01
1852	18.24	=AVERAGE(D36:D46)	18.11	8.1	=AVERAGE(G36:G46)	8.04
1853	18.75	=AVERAGE(D37:D47)	18.18	8.04	=AVERAGE(G37:G47)	8.04
1854	17.79	=AVERAGE(D38:D48)	18.16	8.21	=AVERAGE(G38:G48)	8.05
1855	18.21	=AVERAGE(D39:D49)	18.20	8.11	=AVERAGE(G39:G49)	8.09
1856	17.71	=AVERAGE(D40:D50)	18.17	8	=AVERAGE(G40:G50)	8.10
1857	17.38	=AVERAGE(D41:D51)	18.05	7.76	=AVERAGE(G41:G51)	8.03
1858	18.03	=AVERAGE(D42:D52)	18.04	8.1	=AVERAGE(G42:G52)	8.03
1859	18.2	=AVERAGE(D43:D53)	18.04	8.25	=AVERAGE(G43:G53)	8.06
1860	18.59	=AVERAGE(D44:D54)	18.08	7.96	=AVERAGE(G44:G54)	8.06
1861	17.03	=AVERAGE(D45:D55)	18.04	7.85	=AVERAGE(G45:G55)	8.05
1862	17	=AVERAGE(D46:D56)	17.90	7.56	=AVERAGE(G46:G56)	7.99
1863	17.55	=AVERAGE(D47:D57)	17.84	8.11	=AVERAGE(G47:G57)	8.00
1864	18.32	=AVERAGE(D48:D58)	17.80	7.98	=AVERAGE(G48:G58)	7.99
1865	18.66	=AVERAGE(D49:D59)	17.88	8.18	=AVERAGE(G49:G59)	7.99
1866	18.48	=AVERAGE(D50:D60)	17.90	8.29	=AVERAGE(G50:G60)	8.00
1867	18.49	=AVERAGE(D51:D61)	17.98	8.44	=AVERAGE(G51:G61)	8.04
1868	18.02	=AVERAGE(D52:D62)	18.03	8.25	=AVERAGE(G52:G62)	8.09
1869	18.65	=AVERAGE(D53:D63)	18.09	8.43	=AVERAGE(G53:G63)	8.12
1870	18.37	=AVERAGE(D54:D64)	18.11	8.2	=AVERAGE(G54:G64)	8.11
1871	17.6	=AVERAGE(D55:D65)	18.02	8.12	=AVERAGE(G55:G65)	8.13
1872	18.38	=AVERAGE(D56:D66)	18.14	8.19	=AVERAGE(G56:G66)	8.16
1873	18.73	=AVERAGE(D57:D67)	18.30	8.35	=AVERAGE(G57:G67)	8.23
1874	17.92	=AVERAGE(D58:D68)	18.33	8.43	=AVERAGE(G58:G68)	8.26
1875	16.97	=AVERAGE(D59:D69)	18.21	7.86	=AVERAGE(G59:G69)	8.25

1876	18.46	=AVERAGE(D60:D70)	18.19	8.08	=AVERAGE(G60:G70)	8.24
1877	18.87	=AVERAGE(D61:D71)	18.22	8.54	=AVERAGE(G61:G71)	8.26
1878	18.76	=AVERAGE(D62:D72)	18.25	8.83	=AVERAGE(G62:G72)	8.30
1879	19.05	=AVERAGE(D63:D73)	18.34	8.17	=AVERAGE(G63:G73)	8.29
1880	17.82	=AVERAGE(D64:D74)	18.27	8.12	=AVERAGE(G64:G74)	8.26
1881	18.42	=AVERAGE(D65:D75)	18.27	8.27	=AVERAGE(G65:G75)	8.27
1882	17.66	=AVERAGE(D66:D76)	18.28	8.13	=AVERAGE(G66:G76)	8.27
1883	18.15	=AVERAGE(D67:D77)	18.26	7.98	=AVERAGE(G67:G77)	8.25
1884	17.67	=AVERAGE(D68:D78)	18.16	7.77	=AVERAGE(G68:G78)	8.20
1885	18.56	=AVERAGE(D69:D79)	18.22	7.92	=AVERAGE(G69:G79)	8.15
1886	17.89	=AVERAGE(D70:D80)	18.30	7.95	=AVERAGE(G70:G80)	8.16
1887	18.48	=AVERAGE(D71:D81)	18.30	7.91	=AVERAGE(G71:G81)	8.14
1888	18.4	=AVERAGE(D72:D82)	18.26	8.09	=AVERAGE(G72:G82)	8.10
1889	18.59	=AVERAGE(D73:D83)	18.24	8.32	=AVERAGE(G73:G83)	8.06
1890	18.4	=AVERAGE(D74:D84)	18.19	7.97	=AVERAGE(G74:G84)	8.04
1891	18.34	=AVERAGE(D75:D85)	18.23	8.02	=AVERAGE(G75:G85)	8.03
1892	18.6	=AVERAGE(D76:D86)	18.25	8.07	=AVERAGE(G76:G86)	8.01
1893	17.91	=AVERAGE(D77:D87)	18.27	8.06	=AVERAGE(G77:G87)	8.01
1894	17.55	=AVERAGE(D78:D88)	18.22	8.16	=AVERAGE(G78:G88)	8.02
1895	17.99	=AVERAGE(D79:D89)	18.25	8.15	=AVERAGE(G79:G89)	8.06
1896	18.18	=AVERAGE(D80:D90)	18.21	8.21	=AVERAGE(G80:G90)	8.08
1897	17.53	=AVERAGE(D81:D91)	18.18	8.29	=AVERAGE(G81:G91)	8.11
1898	18.11	=AVERAGE(D82:D92)	18.15	8.18	=AVERAGE(G82:G92)	8.14
1899	18.26	=AVERAGE(D83:D93)	18.13	8.4	=AVERAGE(G83:G93)	8.17
1900	18.62	=AVERAGE(D84:D94)	18.14	8.5	=AVERAGE(G84:G94)	8.18
1901	19.08	=AVERAGE(D85:D95)	18.20	8.54	=AVERAGE(G85:G95)	8.23
1902	18.7	=AVERAGE(D86:D96)	18.23	8.3	=AVERAGE(G86:G96)	8.26
1903	17.93	=AVERAGE(D87:D97)	18.17	8.22	=AVERAGE(G87:G97)	8.27
1904	17.92	=AVERAGE(D88:D98)	18.17	8.09	=AVERAGE(G88:G98)	8.28

1905	17.91	=AVERAGE(D89:D99)	18.20	8.23	=AVERAGE(G89:G99)	8.28
1906	18.19	=AVERAGE(D90:D100)	18.22	8.38	=AVERAGE(G90:G100)	8.30
1907	17.52	=AVERAGE(D91:D101)	18.16	7.95	=AVERAGE(G91:G101)	8.28
1908	17.66	=AVERAGE(D92:D102)	18.17	8.19	=AVERAGE(G92:G102)	8.27
1909	18.72	=AVERAGE(D93:D103)	18.23	8.18	=AVERAGE(G93:G103)	8.27
1910	17.81	=AVERAGE(D94:D104)	18.19	8.22	=AVERAGE(G94:G104)	8.25
1911	17.41	=AVERAGE(D95:D105)	18.08	8.18	=AVERAGE(G95:G105)	8.23
1912	18.09	=AVERAGE(D96:D106)	17.99	8.17	=AVERAGE(G96:G106)	8.19
1913	17.65	=AVERAGE(D97:D107)	17.89	8.3	=AVERAGE(G97:G107)	8.19
1914	17.8	=AVERAGE(D98:D108)	17.88	8.59	=AVERAGE(G98:G108)	8.23
1915	18.46	=AVERAGE(D99:D109)	17.93	8.59	=AVERAGE(G99:G109)	8.27
1916	18.68	=AVERAGE(D100:D110)	18.00	8.23	=AVERAGE(G100:G110)	8.27
1917	18.52	=AVERAGE(D101:D111)	18.03	8.02	=AVERAGE(G101:G111)	8.24
1918	18.11	=AVERAGE(D102:D112)	18.08	8.13	=AVERAGE(G102:G112)	8.25
1919	18.44	=AVERAGE(D103:D113)	18.15	8.38	=AVERAGE(G103:G113)	8.27
1920	17.67	=AVERAGE(D104:D114)	18.06	8.36	=AVERAGE(G104:G114)	8.29
1921	17.74	=AVERAGE(D105:D115)	18.05	8.57	=AVERAGE(G105:G115)	8.32
1922	18.64	=AVERAGE(D106:D116)	18.16	8.41	=AVERAGE(G106:G116)	8.34
1923	18.76	=AVERAGE(D107:D117)	18.22	8.42	=AVERAGE(G107:G117)	8.36
1924	18.57	=AVERAGE(D108:D118)	18.31	8.51	=AVERAGE(G108:G118)	8.38
1925	18.52	=AVERAGE(D109:D119)	18.37	8.53	=AVERAGE(G109:G119)	8.38
1926	18.52	=AVERAGE(D110:D120)	18.38	8.73	=AVERAGE(G110:G120)	8.39
1927	18.73	=AVERAGE(D111:D121)	18.38	8.52	=AVERAGE(G111:G121)	8.42
1928	18.94	=AVERAGE(D112:D122)	18.42	8.63	=AVERAGE(G112:G122)	8.47
1929	18.44	=AVERAGE(D113:D123)	18.45	8.24	=AVERAGE(G113:G123)	8.48
1930	18.98	=AVERAGE(D114:D124)	18.50	8.63	=AVERAGE(G114:G124)	8.50
1931	18.68	=AVERAGE(D115:D125)	18.59	8.72	=AVERAGE(G115:G125)	8.54
1932	18.56	=AVERAGE(D116:D126)	18.67	8.71	=AVERAGE(G116:G126)	8.55
1933	18.05	=AVERAGE(D117:D127)	18.61	8.34	=AVERAGE(G117:G127)	8.54

1934	18.69	=AVERAGE(D118:D128)	18.61	8.63	=AVERAGE(G118:G128)	8.56
1935	19.14	=AVERAGE(D119:D129)	18.66	8.52	=AVERAGE(G119:G129)	8.56
1936	18.93	=AVERAGE(D120:D130)	18.70	8.55	=AVERAGE(G120:G130)	8.57
1937	19.13	=AVERAGE(D121:D131)	18.75	8.7	=AVERAGE(G121:G131)	8.56
1938	18.26	=AVERAGE(D122:D132)	18.71	8.86	=AVERAGE(G122:G132)	8.59
1939	18.95	=AVERAGE(D123:D133)	18.71	8.76	=AVERAGE(G123:G133)	8.61
1940	18.79	=AVERAGE(D124:D134)	18.74	8.76	=AVERAGE(G124:G134)	8.65
1941	19.06	=AVERAGE(D125:D135)	18.75	8.77	=AVERAGE(G125:G135)	8.67
1942	18.64	=AVERAGE(D126:D136)	18.75	8.73	=AVERAGE(G126:G136)	8.67
1943	18.26	=AVERAGE(D127:D137)	18.72	8.76	=AVERAGE(G127:G137)	8.67
1944	18.47	=AVERAGE(D128:D138)	18.76	8.85	=AVERAGE(G128:G138)	8.72
1945	18.13	=AVERAGE(D129:D139)	18.71	8.58	=AVERAGE(G129:G139)	8.71
1946	18.75	=AVERAGE(D130:D140)	18.67	8.68	=AVERAGE(G130:G140)	8.73
1947	19.44	=AVERAGE(D131:D141)	18.72	8.8	=AVERAGE(G131:G141)	8.75
1948	18	=AVERAGE(D132:D142)	18.61	8.75	=AVERAGE(G132:G142)	8.75
1949	17.7	=AVERAGE(D133:D143)	18.56	8.59	=AVERAGE(G133:G143)	8.73
1950	18.5	=AVERAGE(D134:D144)	18.52	8.37	=AVERAGE(G134:G144)	8.69
1951	18.95	=AVERAGE(D135:D145)	18.54	8.63	=AVERAGE(G135:G145)	8.68
1952	19.06	=AVERAGE(D136:D146)	18.54	8.64	=AVERAGE(G136:G146)	8.67
1953	17.95	=AVERAGE(D137:D147)	18.47	8.87	=AVERAGE(G137:G147)	8.68
1954	18.81	=AVERAGE(D138:D148)	18.52	8.56	=AVERAGE(G138:G148)	8.67
1955	19.35	=AVERAGE(D139:D149)	18.60	8.63	=AVERAGE(G139:G149)	8.65
1956	18.53	=AVERAGE(D140:D150)	18.64	8.28	=AVERAGE(G140:G150)	8.62
1957	18.58	=AVERAGE(D141:D151)	18.62	8.73	=AVERAGE(G141:G151)	8.62
1958	19.04	=AVERAGE(D142:D152)	18.59	8.77	=AVERAGE(G142:G152)	8.62
1959	17.99	=AVERAGE(D143:D153)	18.59	8.73	=AVERAGE(G143:G153)	8.62
1960	19.59	=AVERAGE(D144:D154)	18.76	8.58	=AVERAGE(G144:G154)	8.62
1961	18.41	=AVERAGE(D145:D155)	18.75	8.8	=AVERAGE(G145:G155)	8.66
1962	19.52	=AVERAGE(D146:D156)	18.80	8.75	=AVERAGE(G146:G156)	8.67

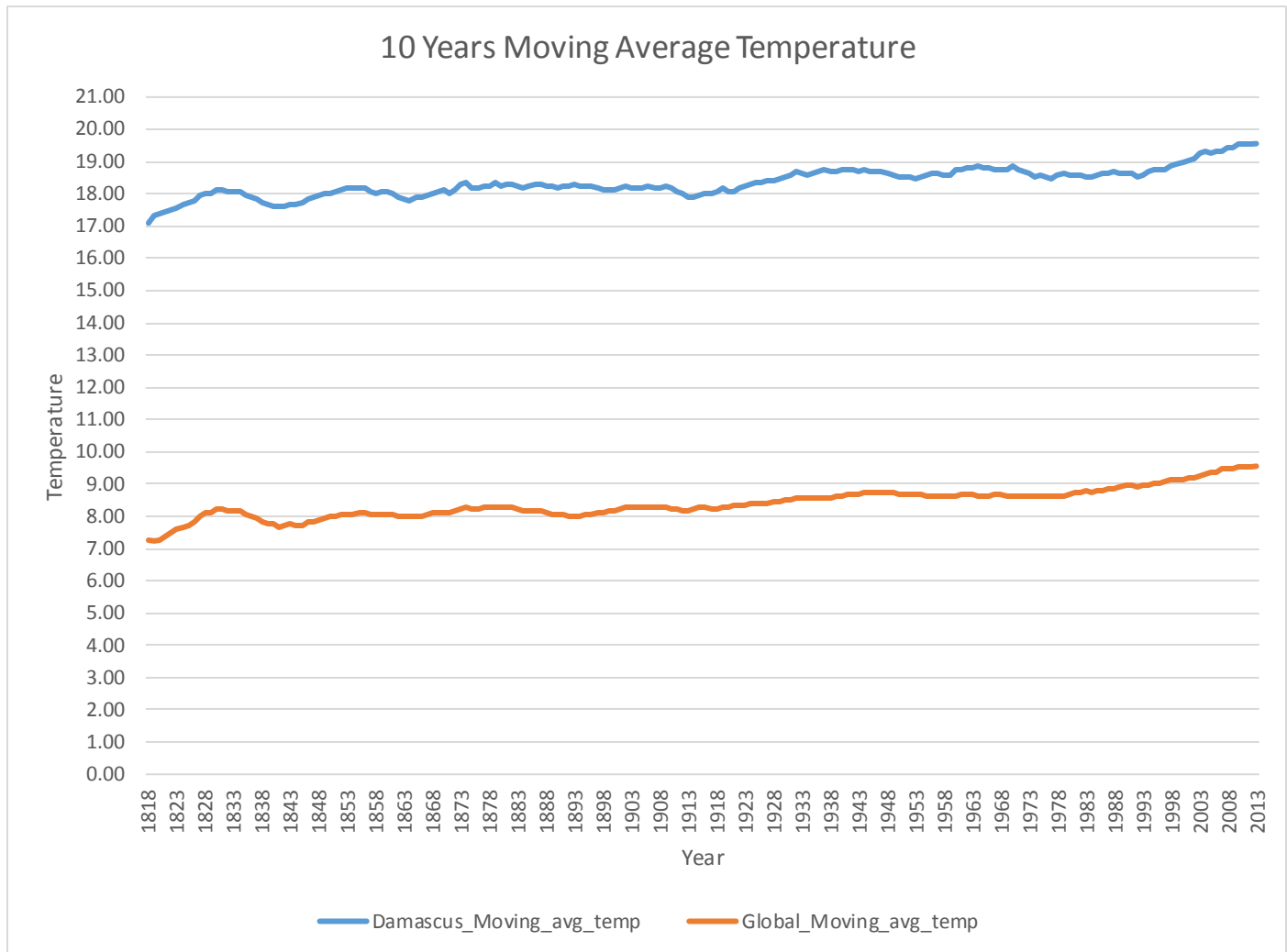
1963	19.33	=AVERAGE(D147:D157)	18.83	8.86	=AVERAGE(G147:G157)	8.69
1964	18.05	=AVERAGE(D148:D158)	18.84	8.41	=AVERAGE(G148:G158)	8.65
1965	18.69	=AVERAGE(D149:D159)	18.83	8.53	=AVERAGE(G149:G159)	8.64
1966	19.26	=AVERAGE(D150:D160)	18.82	8.6	=AVERAGE(G150:G160)	8.64
1967	17.8	=AVERAGE(D151:D161)	18.75	8.7	=AVERAGE(G151:G161)	8.68
1968	18.78	=AVERAGE(D152:D162)	18.77	8.52	=AVERAGE(G152:G162)	8.66
1969	19.01	=AVERAGE(D153:D163)	18.77	8.6	=AVERAGE(G153:G163)	8.64
1970	18.88	=AVERAGE(D154:D164)	18.85	8.7	=AVERAGE(G154:G164)	8.64
1971	18.35	=AVERAGE(D155:D165)	18.73	8.6	=AVERAGE(G155:G165)	8.64
1972	18.18	=AVERAGE(D156:D166)	18.71	8.5	=AVERAGE(G156:G166)	8.62
1973	18.52	=AVERAGE(D157:D167)	18.62	8.95	=AVERAGE(G157:G167)	8.63
1974	18.45	=AVERAGE(D158:D168)	18.54	8.47	=AVERAGE(G158:G168)	8.60
1975	18.39	=AVERAGE(D159:D169)	18.57	8.74	=AVERAGE(G159:G169)	8.63
1976	18.24	=AVERAGE(D160:D170)	18.53	8.35	=AVERAGE(G160:G170)	8.61
1977	18.61	=AVERAGE(D161:D171)	18.47	8.85	=AVERAGE(G161:G171)	8.63
1978	18.9	=AVERAGE(D162:D172)	18.57	8.69	=AVERAGE(G162:G172)	8.63
1979	19.33	=AVERAGE(D163:D173)	18.62	8.73	=AVERAGE(G163:G173)	8.65
1980	18.65	=AVERAGE(D164:D174)	18.59	8.98	=AVERAGE(G164:G174)	8.69
1981	18.8	=AVERAGE(D165:D175)	18.58	9.17	=AVERAGE(G165:G175)	8.73
1982	18.12	=AVERAGE(D166:D176)	18.56	8.64	=AVERAGE(G166:G176)	8.73
1983	17.99	=AVERAGE(D167:D177)	18.55	9.03	=AVERAGE(G167:G177)	8.78
1984	18.49	=AVERAGE(D168:D178)	18.54	8.69	=AVERAGE(G168:G178)	8.76
1985	18.99	=AVERAGE(D169:D179)	18.59	8.66	=AVERAGE(G169:G179)	8.78
1986	18.73	=AVERAGE(D170:D180)	18.62	8.83	=AVERAGE(G170:G180)	8.78
1987	18.64	=AVERAGE(D171:D181)	18.66	8.99	=AVERAGE(G171:G181)	8.84
1988	18.77	=AVERAGE(D172:D182)	18.67	9.2	=AVERAGE(G172:G182)	8.87
1989	18.73	=AVERAGE(D173:D183)	18.66	8.92	=AVERAGE(G173:G183)	8.89
1990	18.9	=AVERAGE(D174:D184)	18.62	9.23	=AVERAGE(G174:G184)	8.94
1991	18.83	=AVERAGE(D175:D185)	18.64	9.18	=AVERAGE(G175:G185)	8.96

1992	17.73	=AVERAGE(D176:D186)	18.54	8.84	=AVERAGE(G176:G186)	8.93
1993	18.72	=AVERAGE(D177:D187)	18.59	8.87	=AVERAGE(G177:G187)	8.95
1994	19.34	=AVERAGE(D178:D188)	18.72	9.04	=AVERAGE(G178:G188)	8.95
1995	18.79	=AVERAGE(D179:D189)	18.74	9.35	=AVERAGE(G179:G189)	9.01
1996	19.23	=AVERAGE(D180:D190)	18.76	9.04	=AVERAGE(G180:G190)	9.04
1997	18.55	=AVERAGE(D181:D191)	18.75	9.2	=AVERAGE(G181:G191)	9.08
1998	19.73	=AVERAGE(D182:D192)	18.85	9.52	=AVERAGE(G182:G192)	9.13
1999	19.73	=AVERAGE(D183:D193)	18.93	9.29	=AVERAGE(G183:G193)	9.13
2000	19.09	=AVERAGE(D184:D194)	18.97	9.2	=AVERAGE(G184:G194)	9.16
2001	19.75	=AVERAGE(D185:D195)	19.04	9.41	=AVERAGE(G185:G195)	9.18
2002	19.47	=AVERAGE(D186:D196)	19.10	9.57	=AVERAGE(G186:G196)	9.21
2003	19.3	=AVERAGE(D187:D197)	19.25	9.53	=AVERAGE(G187:G197)	9.27
2004	19.22	=AVERAGE(D188:D198)	19.29	9.32	=AVERAGE(G188:G198)	9.32
2005	19.15	=AVERAGE(D189:D199)	19.27	9.7	=AVERAGE(G189:G199)	9.38
2006	19.07	=AVERAGE(D190:D200)	19.30	9.53	=AVERAGE(G190:G200)	9.39
2007	19.47	=AVERAGE(D191:D201)	19.32	9.73	=AVERAGE(G191:G201)	9.45
2008	19.75	=AVERAGE(D192:D202)	19.43	9.43	=AVERAGE(G192:G202)	9.48
2009	19.6	=AVERAGE(D193:D203)	19.42	9.51	=AVERAGE(G193:G203)	9.47
2010	21.07	=AVERAGE(D194:D204)	19.54	9.7	=AVERAGE(G194:G204)	9.51
2011	18.95	=AVERAGE(D195:D205)	19.53	9.52	=AVERAGE(G195:G205)	9.54
2012	19.72	=AVERAGE(D196:D206)	19.52	9.51	=AVERAGE(G196:G206)	9.55
2013	19.83	=AVERAGE(D197:D207)	19.56	9.61	=AVERAGE(G197:G207)	9.55

5 Visualizing data

Using Charts in Excel to visualize data

To take a clear view, 10 Years Moving Average were created.



6 Observations

- 1 Temperature average over two hundred years (1818-2013) in Damascus/Syria is hotter than Global temperature average.
- 2 There is a consistent difference over the last two hundred years with about 10 degrees between damascus and global temperature average.
- 3 In general, Damascus temperature average is affected by changes happening to global temperature average
- 4 The overall trend looks like world is getting hotter. The changes of global temperature average over last two hundred years ranges between 0.5 to 1 up and down, but since 1998 the global temperature average is increasing consistently.