

West Uttar Pradesh Plains Indian Weather Time Scales

Gangadhara Rao Irlapati

H.No.5-30-4/1, Saibaba Nagar, Jeedimetla, Hyderabad – 500 055, Telangana State, India

Email ID: scientistgangadhar@gmail.com

History: I have conducted many researches on the Indian weather and proposed hundreds and thousands of Indian weather Time Scale pertaining to the all Homogeneous Regions, Meteorological Subdivisions, states and districts of Indian which can help to forecast the weather changes in advance in 1980, Sri G. Surya Rao MLA had sent these Indian weather time scales to the chief minister of Andhra Pradesh for consideration and necessary action in 2004, some consultations were made with the planning department to implement the Indian weather time scale at the directorate of Economics & Statistics department in 2006, some correspondences were made with the environment, forest, science & Technology department for implementation of the Indian weather time scale the same scales were sent to the chief minister of Andhra Pradesh in 2003. And the same was again submitted to the chief minister of Andhra Pradesh in 2006. Many consultations were made with the commissioner for disaster Management in the years of 2008,2009 about the implementation of Indian weather time scale. In 2010, these scales were consulted with the A.P state council of science & Technology in 2008, Sri T. Subbirami Reddy, Honable Union Minister of state had recommended the Indian weather time scale to the Indian Meteorological department for implementation in the services to the country. Later consultations were made with the India meteorological department about the Indian weather time scale during the years of 2008-2008.

Abstract: I have conducted many extensive researches on the astronomical forces and its effects on the earth climate particularly on various regions of the India. The variations in the solar cycle affects and stimulate the earth climate. The moon affects and stimulate the ocean tides and atmosphere too. The movement of axis of the earth inclined at $23\frac{1}{2}$ degrees from vertical to its path around the sun affects and stimulate the earth weather and leads to formation of monsoons and seasons etc. So the astronomical forces affect and stimulate the earth climate it may be more or less but it is true. These scales may be taken as a part of scientific study of astronomical forces & its effects on the earth climate.

[Gangadhara Rao Irlapati. **West Uttar Pradesh Plains Indian Weather Time Scales.** *Academ Arena* 2018;10(3s): 197-203]. (ISSN 1553-992X). <http://www.sciencepub.net/academia>. 27. doi:[10.7537/marsaaj1003s1827](https://doi.org/10.7537/marsaaj1003s1827).

Keywords: Indian weather, astronomical forces.

Introduction:

In the time and scale of the universe some things from astronomy to atom including living beings have been repeating once in every certain time or period. For example, the south and north magnetic poles have been shifting in every certain period. The sun spots have been repeating once in every eleven years. The lunar and solar eclipses have also been occurring once in every 18.6 years. The seasons such as winter, autumn etc. also have been repeating once in every year in the same month of the year. The periodical menses in the females repeating once in every month.

Construction: On the basis of the said universal facts, I have prepared a time scale with 21 blocks, each block containing certain prescribed cycle of years in which similar calendar years repeating one after another that leads similar weather conditions of those previous years to future years likely repeating every year approximately. The rainfall of the years, have been entering in the scale in percentages or as it is pertaining to month, season, annual wise of the each and every year. If we managing the scale in this manner continuously, we may assuming the weather

conditions of the anterior years on the basis of the posteriors years weather. On the basis of the principle, we can assume that a considerable, of course it may be little chance of predication for an ensuing years by study the data of earlier years.

Studies Carried Out: Many experiments were carried out on the Indian weather Time Scale and it was successfully proved out.

Firstly, see the Indian weather time scale. In this scale, the June, July, August and September months of the summer monsoon season were taken in a table in which the each month is also divided into three parts the Telangana, Rayalaseema and Coastal Andhra regions. The monthly wise rainfall data of the months of the regions from 1870 to till available years are taken in the form of percentages or as it is and entering in the scale pertaining to the region wise of the each and every year. If we managing the scale in this manner continuously, we may assuming the weather conditions of the anterior years on the basis of the posterior years weather.

Example for assuming the dry season or suppose to predict the rainfall situation in the summer season

of the ensuing year 2019: study the 7th cycle in which wet conditions in 10 years and dry conditions in 14 years were occurred in the month of June: wet conditions in 2 years and dry conditions in 22 years were occurred in the month of July: wet conditions in 4 years and dry conditions in 20 years were occurred in the month of August and wet conditions in 8 years and dry conditions in 16 years were occurred in the month of September. On the whole, wet conditions in 24 times and dry conditions in 72 times repeated in the summer monsoon season of the 7th cycle (As a result, there were dry conditions occurred in the 2002 year also). Therefore it is a considerable chance to predict that a dry season will be repeated in the ensuing year of 2019.

Example for assuming the wet season or suppose to predict the rainfall situation in the summer season of the ensuing year 2022: study the 10th cycle in which wet conditions in 13 years and dry conditions in 8 years were occurred in the month of June: wet conditions in 13 years and dry conditions in 8 years

were occurred in the month of July: wet conditions in 9 years and dry conditions in 12 years were occurred in the month of August and wet conditions in 19 years and dry conditions in 2 years were occurred in the month of September. On the whole, wet conditions in 54 times and dry conditions 30 times were repeated in the summer monsoon season of the 10th cycle. As a result, there were wet conditions occurred in the 2005 years also. Therefore, it is a considerable chance to predict that a wet season will be occurred in the ensuing year of 2022.

In the same manner, we can study the remaining All Indian weather time scales of all Homogeneous regions and subdivisions, states and districts of India.

Conslusions:

We can make many more modifications thus bringing many more developments in the Indian weather time scale and its all additional Indian weather time scale.

	2020	June			July			August			SEPTEMBER			OVERALL SEASON			REMARKS
		T	R	C	T	R	C	T	R	C	T	R	C	T	R	C	
1	1992	77.18	-9.5	-54.0	-39.2	+5	-15.8	+4.70	-11.2	-10.8	-35.2	-19.1	-26	-1	-12	-6	
	1964	-31.6	+21.3	-15.0	-36.6	+108	-13.4	799.5	-17.8	-11.8	+1503	+139	+95.4	+17	+16	+44	
	1936	+31.7	-9.16	-13.0	-14.1	-35.3	-7.00	-12.5	-65.7	-32.3	+7.82	+21.2	-39.2	-3	-29	-5	
	1908	-32.3	-62.9	+69.9	+5.8	-29.4	-50.9	-9.13	-57.2	-25.2	+10.8	+84.9	+48.4	+38	-9	-2	
	1880	+21.5	+15.2	-99	-24.0	-50.2	-46	-60.7	+2.63	-99.4	+56.2	+19.7	-51	-11	-18	-30	
2	2017																
	1995	-1.01	-11.5	-36.2	-13.6	+6.5	-20.9	-46.7	-20	-23.0	-71.7	-17.3	-49.3	-33.5	-27.1	-16.3	
	1978	-78.2	-7.7	+26.2	-1.17	+57.5	+6.9	+47.0	-13.1	+31.7	+169.0	+100	+8.0	+50	+37	+55	
	1961	+34.0	+27.8	+70.9	-37.9	+32.9	-24.3	-8.35	-4.9	+13.3	+20.0	-49.6	-6.1	+12	+1	+30	
	1939	-38.0	-20.5	-36.2	-44.6	-34.6	-42.3	-27.5	+13.9	7398	-3.95	+81.7	-13.5	-28	-12	-23	
	1922	-12.3	-50.4	-90.2	-27.6	-516	-31	-36.8	-30.3	-42.0	+22.6	-1.2	-48.3	-18	-29	-15	
	1905	-17.6	+8.61	-29.3	-64.4	-62.2	-72.7	+16.8	+103	-10.5	734.8	-58.1	-6.5	-5	-4	-18	
	1883	+60	+23.3	-25.1	-8.24	-23.5	-55.1	+32.2	+36.4	-10.6	+85.1	-32.1	-56.6	+31	-4	-21	
3	2024																
	1996	+13.5	+29.4	+13.7	-32.4	-21.4	-17.3	+21.1	+96.6	-9.8	-4.49	+51.2	+19.3	-3.6	+83.1	+46	
	1966	-330	-26.3	-38.7	-28.0	-39.4	-39.4	-82.5	-34.2	-99.4	+1.007	+55.6	-26.6	-20	-18	-39	
	1940	-19.8	+24.3	-2.0	+9.24	-159	-34.0	-89.9	-33.9	-18.4	-26.2	+35.0	-21.5	-5	-5	-3	
	1912	-61.1	-53.3	-74.3	+12.5	-20	-5.6	-11.8	+20.0	+15.3	-12.1	+41.4	70.3	-15	+1	+10	
	1884	-38.8	-53.7	-69.4	+40.7	-43.1	-33.7	-23.1	-25.0	-15.3	+65.6	-30.9	+8.1	+12	-48	-1	
4	1999	-24.2	-25.8	-13.9	-23.5	-30.1	-46.8	-2.28	+7.8	-40.9	+25.8	-24.0	-18.4	-9.1	-20	-15.9	
	1982	+5.15	+59.3	-34.4	+27.6	+0.5	-24.1	-28.6	-66.3	-40.9	+12.4	+17.0	-27.0	+1	-5	+13	
	1965	-51.1	+40.2	-36.6	-44.5	-23.3	-24.2	-27.0	+2.08	-9.7	+80.8	-7.04	72.0	+10	+3	+3	
	1943	+13.5	-54.8	-20.8	-31.4	-30.9	-35.8	-50.5	-9.5	+27.8	+99.1	+1.76	-14.9	-5	-20	-20	
	1926	-69.7	+32.3	+298.6	-10.8	-33.5	+1.8	-19.4	-31.4	-36.5	-18.6	-36.7	-5.3	-25	-2	-1	
	1909	-6.87	-45.4	-32.6	+0.71	-45.4	-22.4	-35.9	+2.06	-4.5	+1.24	+26	+4.3	-12	+44	+7	
	1887	+20.1	+185	+2.4	-23.5	+5.41	-32.6	783.3	+133	+506	+148.0	+16	+31.9	+49	+62	+40	
	1870		+11.5	-64.1		-89.5	-42.4		+50.6	-22.8		-58.1	+25.5	-29	+25	-7	
5	2000	+56.9	+75.4	+47.8	-22.9	-7.8	-34.8	+66.5	+145	764.9	-57.0	-25.1	-57.9	+11	+39	+23	
	1972	70.93	+39.5	-77.6	-42.6	-67.6	-49.6	-58.4	-85.1	+29.9	-37.2	+39.9	+446.6	-1	-24	-34	
	1944	-17.7	+99.9	-0.2	-1.96	+5.6	-17.4	-31.0	+33.6	-35.4	+74.8	-1.92	-10.9	-39	+15	-2	
	1916	+42.2	-36.5	-2.4	+9.79	+12	+36	-24.3	+17.9	-11.5	+92.0	+54.0	-38.4	+19	+45	+18	
	1888	-18.3	-55.3	-56.2	-4.76	-53.2	-32.5	-43.6	-42.2	-57.4	-49.3	+72	-57.6	-28	-14	-39	
6	2018																
	2001	714.4	-61.8	-13.4	-6.5	-44.4	-52.0	-53.8	-22.4	-94.3	-28.4	+10.9	+15.1	-25.1	+2.1	-1.2	
	1979	-18.7	-26.9	-23.0	-530	-40.4	-60.9	-50.4	-578	-64.2	+99.3	+37.8	+12.1	-8	-20	-21	
	1962	-48.5	+54.0	-36.1	-24.9	-47.1	+2.5	-27.6	+6.1	-10.5	+103	+4.4	+58.9	+14	-11	+30	
	1945	+17.1	-58.3	-67.7	+14.2	+112	-6.7	-2.23	+17.7	-26.6	+18.9	-15.6	+6.3	+8	+15	-1	
	1923	-80.1	-11.2	-75.5	+3.97	-53.4	-57.5	-54.2	-80.7	-99.4	+73.8	+33.5	-99.3	-17	-29	-13	
	1906	+95.6	+57.6	+180.6	-10.7	+18.0	-34.9	-3.33	+13.8	+10.9	+34.8	+47.4	-45.6	+10	+29	+18	
	1889	-16.6	-25.8	+50.1	+2.55	+43.6	-27.4	+24.0	+28.8	-33.2	+76.8	+17.8	+45.2	+16	-34	+23	
7	2019																
	2002	-23.0	+16.5	+478	-70.2	-50.1	-69.6	+5.43	-44.2	+64.9	-58.4	-23.4	57.9	-37.1	-31.5	-35.1	
	1985	+19.3	-21.8	-4.6	-15.4	-85.6	-6.8	-44.5	-18.3	-24.8	-39.2	-62.0	-44.1	-23	-20	-4	
	1963	-24.0	-7.7	-36.3	-43.0	+4.5	-22.2	-25.0	+60.6	-7.2	-27.1	-35.4	-4.3	+11	+2	-3	
	1946	+270	-31.6	-22.0	+5.69	-39.7	-9.8	-18.3	-16.6	-30.5	-47.4	+6.4	-16.1	-8	-20	-15	
	1929	-31.6	-20.2	+46.2	-56.6	-44.5	-65.4	-39.9	-69.5	-22.5	+79.3	+58.1	-4.1	-18	-12	-3	
	1907	722	-19.7	+48.8	-42.6	-19.7	-35.1	7	-74.6	-53.6	-18.4	-1.2	-64.4	-8	-28	-19	
	1890	+1.86	+84.1	+2.3	-7.57	-11.6	-39.7	-25.0	+9.21	-50.7	+78.5	+38.5	-30.7	+10	+22	-15	
	1873	-13.5	-47.7	-48.2	-64.5	-53.2	-39.4	-31.5	-24.7	-16.7	+39.8	+25.6	-39.9	-27	-19	-20	

	JUNE			JULY			AUGUST			SEPTEMBER			OCTOBER			REMARKS
	T	R	C	T	R	C	T	R	C	T	R	C	T	R	C	
8	2025															
	2003	+11.3	-14.8	-21.6	-7.57	+22.3	-0.9	77.85	-6.2	-28.8	-1.86	-20.1	-13.2	-8.2	8	+3.2
	1986	79.92	+5.6	-19.6	-21.4	-28.4	+52.9	+47.3	-54.8	+31.1	-34.3	+20.3	-43.6	-1	-5	-3
	1969	+6.09	+11.3	-37.4	77.99	+11.0	-5.0	-26.4	+53.5	-57.1	-78.9	-73.9	-20.6	+9	+44	-22
	1947	-56.9	-16	-46.5	-29.3	+25.6	-3.5	-25.0	+85.6	-7.2	764.9	70.8	+28.8	+35	-3	+19
	1930	740.5	+42.7	+39.8	-46.6	-61.0	-44.4	-41.8	-62.7	-48.7	+41.0	+35.1	-17.6	-17	-39	-8
	1913	-32.1	-66.5	-13.3	+25.3	-18.9	-9.7	-48.6	-69.7	-63.8	-3.9	-3.52	-33	-18	+74	-17
	1874	-45.9	+39.5	+7.3	-4.1	+50.6	-13.4	-43.8	-58.1	-59.8	+15	+252.0	+32.3	-2	-12	+14
9	2004															
	1975	-30.7	-2.6	-63.3	+77.3	-23.9	+24.8	+2.73	+83.1	+17.4	20	-54.4	-52.3	+18	2	+7
	1948	-69.0	-48.1	-61.5	-45.8	-35.6	-26.6	-58.7	-15.6	-48.9	+66.3	-19.3	-8.1	-10	-30	-19
	1920	-39.6	-39.5	-42.3	-40.6	-71.8	-99.4	+55.5	-36.6	-47.4	-22.7	+24.3	-35.6	66	-30	-38
	1892	+20.1	+16.5	+2.4	-23.5	+5.41	-32.6	783.3	+133.1	+50.6	+148.0	+16	+31.9	+49	+62	+40
10	2005															
	1983	+7.42	+17.6	+19.8	+2.92	-88.9	+7.0	+85.1	+77.8	+22.4	+127	+160	+39.6	+51	+65	+50
	1960	-29.2	+5.97	-12.1	-39.3	+23.1	-17.2	-67.6	-88.5	-59.9	7105.2	+167	+60.4	-9	+29	+12
	1949	-26.3	+51.6	-8.4	-24.4	+13.7	+3.1	-11.9	+29.5	+8.9	+106.1	+109.0	+61.1	+5	+50	+47
	1927	+55.6	+25.9	+34.2	+4.10	+26.3	-23.5	-35.7	+46.0	-9.3	+7.67	+94.1	+16.4	+1	+24	+23
	1910	+81.6	-22.2	+20	-36.6	+76.6	+2.1	-34.1	+62.9	-17.8	+76.6	+55.2	+4.8	+10	+45	+22
	1893	+42.3	+35.4	-13.4	+10.5	+98.2	-55.1	+67.6	-35	-10.6	+15.0	-8.96	-56.6	+45	+16	+19
	1871	-41.2	-59.5	+399.6	-44.5	+31.0	+65.6	-77.8	+6200	-99.9	+65.4	+26.6	+714	-36	-7	-18
11	2006															
	1889	+71.8	-47.9	-20.3	+72.1	+26.5	+80.2	+2.64	-79.6	-10.5	753.3	+59.8	99.3	+43	+49	+42
	1967	+17.4	-25.4	-1.7	+51.5	+6.11	-0.4	-25.2	-72.2	-55	+28.3	+8	-16.7	+19	-10	+2
	1950	-51.7	-12.2	-40.7	-38.7	-20.8	-9.4	-67.6	-7.19	-59.9	+31.5	+11.3	+2.8	+1	-5	-9
	1933	+87.3	-76.1	-52.5	+116	-18.9	-6.9	-22.9	+80.3	-29.6	749.7	-48.4	-32.1	+11	-11	-5
	1911	+0.78	+3.47	-22.9	-36.6	-26.4	-22.2	-28.4	-59.8	-62.5	+1.00	-22	-13.5	-20	-32	-18
	1894	+7.9	-45.4	-8.2	+25.4	+15.3	-51.4	+14.6	-78.6	-31.4	+3.0	-17.3	-0.06	+19	+11	-7
	1877	-43.2	+5.41	-70	-75.6	-65.4	-53.4	-58.5	-48.5	-58.3	+15.9	+7.20	+21.4	-39	-19	+21
12	2007															
	1990	+48.6	-29.3	-9.3	-39.0	-45.2	-54.4	+49.2	2.2	+6.1	+10	+32.3	-99.3	+11	+8	-2
	1973	+0.31	+0.5	-33.6	-9.41	-29.8	-48.7	+42.2	+15.4	-19.9	-40.0	+10.1	-31.5	+1	-8	-21
	1951	-17.0	-15.9	+3.1	-5.77	-7.8	+26.6	-405	-62.2	-28.4	-0.3	-33.6	-31.4	-10	-33	+11
	1934	-3.04	+25.6	-4.5	+22.8	+27.0	+5.9	+0.3	-68.0	-18.8	+11.5	-62.4	-40.4	+5	-30	-1
	1917	+43.9	+36.3	+87.7	+7.94	-38.8	-38.4	-17.2	+52.1	+3.2	+11.3	+22.0	+30	+25	+17	+38
	1895	-17.5	-44.5	-21.4	-7.9	+27.6	-17.4	-15.4	-27.6	-4.8	-60.3	+41.3	+25.5	+45	+2	+19
13	2008															
	1980	+66.0	-17.6	+80	-34.3	-28.4	-11.6	-99.9	7017	-6.6	+2.48	-447	-37.1	+5	-25	+20
	1962	-50	+34	-37.8	-59.7	-45.3	-45.0	-60.4	-42.1	-51.0	-40.1	-63.6	-53.2	-30	-41	-39
	1924	-4.86	-58.8	-56.6	-36.1	-13.3	-45.2	-16.7	-38.6	-32.8	+105.9	+81.4	+7.4	-7	-3	+8
	1896	-34.0	-32.3	-22.8	-18.7	-38.8	-29.3	+0.18	-21.8	-25.3	+08.2	-31.2	-16.5	-24	-32	6
14	2009															
	1987	-31.1	-36.5	-53.8	-12.6	-6.2	-53.6	+0.63	+30	-20.9	-52.1	-18.0	-60.6	-18	-21	-33
	1970	775.9	-5.1	+41.5	-39.9	-2.8	-39.7	+63.4	+77.2	+9.0	+36.3	+83.0	+477.5	+25	+39	-5
	1953	-20.3	-26.5	+0.8	-56.1	+4.1	-40.1	-35.7	-48.4	-20.4	714.6	+54.8	-10.3	+25	+10	-3
	1931	+50	-440	+768.9	+12.3	-2.70	-24.0	+38.0	-26.8	+39.2	+14.3	-33.2	+12.8	+18	-11	-12
	1914	7159.0	-13.6	-7.9	+11.6	-23.1	-19.7	-6.43	+42.1	-31.3	+67.9	+60.8	+44	+27	+20	+18
	1897	-34	-42.6	-57.2	+47.5	-9.47	-48.1	-34.6	+32.1	-26.5	+42.4	+12.8	+39.4	-1	+35	-2
	1875	-	+11.5	-64.1	-89.5	-47.4	-	+50.6	22.8	-	+58.1	+25.5	-29	+25	-7	-
15	2010															
	1993	-37.1	-46.1	-58.6	-17.1	+19.3	-36.9	-27.9	+43.4	-40.1	2.40	+9.9	-1.8	-17.5	-12.8	-6.3
	1971	77.89	-31.3	-32.3	-61.3	-26.6	-57.4	-19.4	-25.4	-24.6	-14.3	-46.7	+5.1	-29	-35	-10
	1954	-27.1	-54.6	-9.4	-30.0	+33.4	-4.8	-40.2	-17.3	-26.6	778.9	-52.8	789.9	+24	-10	+19
	1937	-50.8	+15.9	-89.6	+10.9	-9.48	-35.2	-43.5	+63.1	-31.4	+11.3	+86.7	+444.8	-18	-11	-28
	1915	+99.4	-39.0	+18.1	-15.2	+58.2	-24.4	-8.40	-49.2	+24.4	-12.6	+58.3	-14.9	+10	+6	+21
	1898	-20	-37.2	+5.3	+47.8	-30.2	-18.1	-34.6	-42.1	-51.4	+42.4	+106.4	-8.5	+18	+3	-3
	1881	-18.9	+15.0	+41.2	-56.7	-78.3	-73.3	-34.2	+75.1	-123	+41.0	+12	+10.4	-36	+5	+4
16	2011															
	1994	-29.0	-40	-55.7	-20.0	-98.9	-9.7	+6.71	-10.8	-37.2	-71.7	-71.3	-49.3	-23.5	-34.9	-21.4
	1977	70.93	+39.5	-17.6	-42.6	-67.6	-49.6	-58.4	-85.1	+22.9	-37.2	+39.9	+446.6	-39	-24	-34
	1955	-49.8	-48.3	-37.6	-55.5	+17.2	-39.2	-16.5	+94.7	+3.2	+29.2	+10.6	+1.0	+35	+20	+3
	1938	795.6	733.3	+25	715.8	-34.1	-36.1	+25.3	+13.9	77.7	+89.8	+81.7	782.2	+48	+58	-45
	1921	+44.2	-4.16	-39.8	-660	+75.5	+2	-47.2	+45.7	-30.7	+50.5	-23.2	+2.5	-1	-5	+13
	1899	-17.2	-85.4	-57.8	-74.7	-88.4	-68.4	-38.1	-37.7	-34.1	-10	+43.5	-22.9	-43	-36	-32
	1882	+20.1	+165	+2.4	-23.5	+5.41	-32.6	783.3	+133.1	+50.6	+148.0	+16	+31.9	+49	+62	+40
17	2012															
	1984	-34.6	-56.1	-37.4	+0.50	+49.4	-15.2	-58.5	-84.1	-71.6	+24.6	-22	-37.8	-20	-30	-23
	1956	76.875	+21.8	+32.8	70.96	+80.9	+37.8	-30.7	-38.4	-14.3	+503.6	+38	+19.6	+20	+20	+40
	1928	+37.3	+21.8	-56.2	-21.5	-38.5	-20.2	-27.5	-17.4	-29.7	+102	-3.44	+9.5	+9	-5	-2
	1900	-10.9	-30.1	-47.8	+29.3	+48.5	-19.3	-38.7	-78.6	-63.6	+90.3	+53.8	+10.0	+10	-2	-12
	1872	-44.5	-13.8	-0.2	-29.9	-17.7	-18.1	-45.0	-99.1	-9.49	+44.4	+54.3	+16	-25	+4	+18

	June			July			August			SEPTEMBER			OVERALL SEASON			REMARKS
	T	R	C	T	R	C	T	R	C	T	R	C	T	R	C	
18	2013															
	1991	+42.1	+17.7	+64.5	-11.9	-16.1	-30.2	-39.0	-17.8	-93.7	+1.31	-11.6	+32.7	-9.6	+14.7	+22.6
	1974	-26.6	-5.5	-14.3	-46.9	-12.2	-99.9	-22.6	-20.7	-37.2	+17.6	+10.3	+33.6	-24	+19	
	1957	-16.9	+19.5	+45.3	-49.0	-12.9	-30.4	-1.91	-26.6	+21.3	+12.4	-22.4	-12.1		+8	+24
	1935	-6.87	+43.4	-45.1	+11.5	+4.16	-30.6	-31.1	+138.8	+346.3	+51.0	-11.3	-21.8	+2	+35	-24
	1918	-93.3	-45.9	-16.8	-46.1	-56.3	-62.1	-57.0	-38.2	-40.5	+1.00	+18.1	-13.2	-40	-29	-20
	1901	-21.0	-6.25	-40.7	-11.5	-69.7	-43.8	-16.3	+10.4	-42.2	-44.0	+30.1	-28.9	-19	-29	-24
	1879	-8.51	+18.8	+3.2	-27.8	+48.1	-116.5	+31.4	-10.4	-99.4	+56.7	+19.7	-51	-9	-6	-16
19	2014															
	1997	-59.7	+7.9	-65.1	-40.2	-54.2	-37.2	-33.8	-40.7	-48.2	+10.6	+134	+109	-33.2	+14.1	+15
	1975	-15.4	-4.9	+53.8	+7.44	+48.3	-16.3	-10.9	-14.9	-28.5	+149	+31.6	+7.2	+21	+11	+20
	1958	-60.6	-19.5	-42.3	-10.1	-16.7	+22.7	-32.0	+105	-15.9	+13.0	-10.4	-12.7		+8	+10
	1941	+18.0	-47.0	+82.5	-67.5	+578	-70.2	-33.4	-48.3	2269	+37.2	+53.6	+1.2	-32	+8	-5
	1919	+26.6	+6.66	-20.1	-41.1	+57.3	-19.7	-55.7	-80.0	-49.2	+457	+10.7	-26	-32	+2	-15
	1902	-36.6	-27.6	-47.8	-48.6	-13.6	-35.5	-12.1	-55.7	-99.4	+26.3	-13.2	+15.1	-19	-17	+4
	1885	-20.7	+19.4	-4.2	-14.1	+11.8	-31.5	-47.8	-41.8	-67.3	+38.5	-25.4	+5.5	-18	-18	-10
20	2015															
	1998	71.32	-529	-34.5	-21.5	-58.6	29.8	+15.4	+20.2	+5.1	+49.0	+70.6	+56	-50.9	+37	+25.3
	1981	+35.3	-0.6	-26.9	+1.12	-5.9	+10.0	+7.12	-7.6	-28.9	+105.1	+61.2	+24.6	+26	+10	+25.3
	1959	-4.76	+76.3	+18.3	-11.5	+9.27	+20.5	-34.2	-165	-30.9	-99.9	+136	-28.8	+40	+10	+12
	1942	74.76	+42.7	-12.1	-7.78	-66.7	-47.9	+22.4	-13.1	-18.4	-44.5	-24.8	+34.2	-4	-20	-20
	1925	6.28	-47.2	+1.0	+2.38	-9.2	-10	-4.83	+19.1	+2.4	-0.54	-18.4	+386	-2	-14	+4
	1903	-25.7	-680	+22.6	+54.0	-46.8	+10.2	+34.8	+30.3	+8.0	+5304	+72	+7.0	+45	+39	+37
	1886	+60.9	+3.88	+25.1	+26.6	+69.4	-4.2	+40.6	+40.1	+55.3	-39.9	+9.04	-99.3	+24	+21	+38
21	2016															
	1888	-14.2	-57.0	-57.4	+10.7	+77.7	+33.6	-25.9	+12.7	+19.4	+136	+33.4	+37.4	+65	+50	+41
	1966	-54.9	+67.3	-32.8	715.4	+14.3	+32.3	-7.57	+0.5	+6.1	+61.3	+14.8	-27.2	+3	+20	+9
	1932	+13.2	-629	-13.1	73.97	-24.1	-13.7	+20.1	+22.0	-36.2	+52.6	-20.32	-32.4	+1	-10	-18
	1904	+15	-33.4	-42.5	-4.6	-22.1	-51.4	-69	-63.0	-38.0	+36.9	-39.6	-41.5	-24	-55	-30
	1876	-42.2	-20.8	-33.3	-34.7	73.6	-52.1	-31.8	-42.4	-99.9	-40.6	-71.1	-50.4	-38	-53	-19

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
1981	3-482	57-192	-98-280	62-5	-92-275	146-501	-4-172	-7-677	-29-411	-98-793	-100	-91-176
1982	-4-471	-71-168	102-609	-100	-27-297	12-821	26-219	-11-047	-102-202	113-244	22-092	-29-285
1983	23-343	470-63	-80-861	64-283	-37795	-26-205	2-264	-74-834	-68-011	4-173	164-285	150
1984	75-124	-97-631	-86-192	200	24-409	-47-236	-11-400	-4-107	63-048	-97-26	-100	118-28
1985	148-156	-27-900	-17-826	-103-75	-9448	53-207	13-622	3-005	-28-475	-100	-100	-41-174
1986	41-288	28-571	-94-781	-62-5	-62-697	-47-223	23-211	-25-969	-72-289	-14-302	-92-897	-148-529
1987	-77-114	3-10-5	-34-782	10-416	-33-070	-9-620	-63-783	4-258	-52-944	-100	57-142	132-364
1988	-99-824	-100	-82-240	-85-283	25-984	-18-779	29-172	-25-270	-60749	-32-39	-100	132-363
1989	227-342	-76-891	105-217	20-933	-72-155	-35-242	-1-3041	-20-209	95-827	-62-323	-28-571	117-640
1990	47-781	40-312	-73-913	245-93	-99-219	-35-114	19-195	-3-632	19-562	-84-974	-7-80	314769
1991	-57-213	-17-285	0	129-166	-69-801	37-195	-70-36	-14-114	-8-394	-89-191	-14-1	-10-176
1992	116-107	84-42	-10-104	-75	-53-513	-24-578	-23-780	34-13	-56-921	-82-625	-100	24-140
1993	-75-124	-34-930	-34-782	-87-5	-26-045	79-609	60-618	57-675	-1-821	-24-623	-100	83-235
1994	-77-691	-84-491	-63-478	628-94	376-690	144-803	50-712	-30-283	-20-928	13-265	369-84	1610-29
1995	-9-492	-62-732	-18-824	-55-22	-92-820	148-977	10-342	-17-853	78-058	-82-664	-100	-100
1996	-75-124	-83-221	-80-869	-16-444	-91-338	-13-821	20-039	22-171	26-617	23465	-95-238	189-65
1997	72-632	-20-821	-82-692	-100	51-181	51-603	-83-494	-17-661	-54-482	-76-628	-100	-60-944
1998	245-771	-70-221	-67-824	35-184	-4-72	-70-207	8-233	15-014	-21-187	-84-32	23-20	145-52
1999	-17-691	-83-221	-76-571	12-914	-34-625	-6-581	22-121	-30-010	-18-307	-14-874	-100	-100
2000	95-024	-88-219	-64-585	-35-35	27-629	142-011	21-944	50-229	-84-224	-71-226	-100	64-72
2001	-81-592	-40-232	116-221	119-222	39-270	55-976	2-167	23-820	-22-593	51-758	112-225	-100
2002	-2-182	-60-201	105-217	-87-5	88-774	56-251	21-073	-2-901	-25-29	-88-225	374728	-27-891
2003	141-229	-75-221	-49-265	-62-5	775-270	-47-201	-26-228	1-013	-27-478	36-633	259-523	-100
2004	74-124	324-28	-74-18	-6-22	-4-72	103-094	34-016	12-728	46-206	-100	-100	32-617
2005	-81-492	-100	-100	20-933	101-5	213-411	149-271	-22-24	-82-628	32-914	362-281	-100
2006	-22-74	-26-201	-19-130	-97-816	-70-409	-56-282	-46-125	-2-132	3-628	263-16	-100	-11778
2007	14-477	-97-225	201-729	-100	82-916	150-249	1-100	5-976	-16-971	-24-614	-100	-29-441
2008	-62-189	-67-110	225-277	12-5	-26-220	67-078	29-221	31-142	-21-88	-54-020	-100	128-225
2009	-62-189	-19-25	-85-817	-47-242	209-114	12-4-129	-48-815	41-424	-22-756	-79-29	72-271	-22-22
2010	-1-8	-27-57	141-739	14-223	-71-205	-50-272	-20-34	-20-172	118-228	-100	80-123	70-228
2011	-24-701	-16-27	181-721	-29-28	157-140	6-268	26-22	1-165	-32-236	-7-224	276-170	532-223
2012	-77-044	-29-308	-20-22	74-166	3-14-4	-25-728	26757	-51-136	-8-228	-3-628	-100	-100
2013	42-208	-21-729	-27-826	-37-5	-95-275	32-049	-39-22	22-229	-16-778	-100	-100	-60-229
2014	-29-706	304-62	1-1664	-25-275	220-116	5-216	52-205	10-160	-96-221	-22-22	-24-110	-24-110
2015	87-262	93-187	-100	-28-73	-26-171	5-786	69-292	72-924	-26-167	270-231	-28-80	83-92
2016	-77-844	-84-223	-20-318	40-158	-11-026	-66-591	40-478	40-722	-100	-100	99-224	-77-618
2017	99-600	77-218	-99-130	-11-023	-99-723	6-13	27-628	16-693	33-121	-25-929	-100	234-105
2018	67-627	73-776	146-088	-37-5	-12-579	-65-277	-46-922	-62-622	-39-229	-100	-100	-28-80
2019	237-210	-78-287	72-260	-24-23	114-460	2-6025	-21-114	-71-629	-21-801	-77-226	-12-227	-77-622
2020	-71-542	-70-124	-72-178	245-83	177-165	236-005	32-457	-66307	-10-015	-60-228	-26714	-100
2021	101-472	246-499	116-221	-19-25	314-926	-27-25	-20-776	-60-22	-22-220	-22-220	377-619	10-229
2022	21-222	-3-104	63-225	-87-5	-20-222	-31-122	-22-222	-22-222	-22-222	-22-222	-22-222	10-229
2023	77-114	-100	-92-265	-8-333	-20-222	-60-222	8-222	-12-722	16-820	8-622	-100	-100
2024	-79-65	2-22-22	124-227	-93-75	-22-755	124-227	-22-124	-22-222	59-157	-100	-100	10-229
2025	96-333	2-44-12	-84-156	-54-166	-2-771	57-755	74-622	76-115	-15-227	-97-229	-70-17	-100
2026	2-487	144-523	-90-434	-47-96	320-172	-40-942	-72-511	-13-212	29-070	-83-944	-100	57-170
2027	-29-701	-100	-80-307	93-718	-49-622	-40-622	51-221	-14-222	17-108	276-321	-100	19-170
2028	-23-220	-27-621	-27-138	-40-96	270-222	114-222	143-577	40-620	102-526	-72-22	121-222	26-170
2029	-100	5-22-0	-92-260	202-02	78-140	27-228	125-004	-12-222	-73-222	-30-222	22-222	-20-22
2030	95-123	-76-223	-62-60	27-022	-22627	16-228	-25-222	-2-222	-10-222	-10-222	-10-222	114-170
2031	-19-1028	310-201	271-727	107-516	18-110	-77-100	-24-412	-19-622	-99-722	-100	-100	-100
2032	-73-04	-26-229	-27-265	35-418	-21-227	77-225	56-222	-22-220	-7-024	-97-222	-100	35-222
2033	-43-781	-84-225	13-913	-100	82-976	-78-134	114-928	-28-100	77-606	-91-228	-73-229	-70-528
2034	20-308	-4-316	-74-182	-83336	-16-226	-60-922	-20-22	4-021	20-220	17-227	126-179	-100
2035	-21-503	-26-221	-93-22	-91-664	97-228	-62-14	54-022	-24-17	27-179	-26-72	-71-100	23-025
2036	-77-611	23-221	2-222	-64-64	20-220	523-223	22-211	2-421	22-227	-44-172	26-770	223-222
2037	22-22	-8-074	-25-217	-54-166	11-023	-12-622	24-208	40-025	-78-210	-22-49	-11-42	-80-222
2038	62-527	71-928	-100	-82-5	17-023	23-201	-1-37	-86-125	47-229	-24-22	2-0	70-528
2039	-29-201	-28-222	-19-100	-100	-2-221	39-212	-8-976	-27-225	20-215	-43-216	-100	-22-222
2040	58-308	-31-27	120-208	471-916	250-227	-2-222	27-204	27-100	-52-22	-71-204	12-20	70-222
2041	-25-223	-8-074	30-222	404-16	-3-149	-9-214	-22-225	-25-225	-2-629	-26-22	-100	-18-229
2042	22-176	-42-215	-27-22	228-416	20-1021	267-149	-26-224	42-724	6-222	-22-412	-100	-100
2043	-14-101	-31-025	122-913	320-946	92-912	-73-100	3-651	7-224	-19-222	-19-100	-42-22	-77-628
2044	-22-220	-23-19	-180	1030-417	-13-228	52-222	28-412	-14-207	-21-423	-25-222	-100	271-941
2045	-34-225	-23-602	-60-229	-66-644	220-723	-61-078	-51-241	-27-224	-24-100	-50-221	-100	227-222

1770	44.757	-21.788	-60.801	104.933	192.913	17.19	22.131	88.31	51.716	63.266	-100	95.882
1771	-48.786	-100	200.86	-61.388	-40.157	31.195	32.072	27.123	-28.141	442.715	-100	-2.812
1772	-96.68	70.06	-65.21	-20.166	-15.097	-78.113	18.771	3.185	40.441	-47.787	-100	-28.251
1773	-100	70.807	194.782	-24.283	46.729	7.228	4.324	20.831	-57.45	207.01	67.809	63.23
1774	-83.234	-100	-75	45.669	46.209	-54.91	-0.174	48.930	279.69	-52.914	37.23	12.33
1775	122.32	222.29	47.56	10.118	148.81	108.99	23.211	-45.188	38.368	64.572	92.85	-7.176
1776	-37.31	93.188	-100	72.916	301.574	206.99	33.941	-1.258	-34.358	-100	-100	351.490
1777	-20.22	-99.570	128.265	12.5	274.05	88.527	5323	-66.69	-51.002	-45.47	-74.170	-77.941
1778	42.24	-70.06	182.45	-71.26	-77.165	37.755	-45.007	-4.782	-1.103	-94.978	74.097	152.741
1779	-100	-79.37	182.456	-71.083	-61.019	-19.34	61.44	69.91	54.946	-80.180	-47.61	767.609
1780	8.187	-9.36	97.911	-91.662	-3.149	-13.267	0.449	21.762	-8.810	-100	-100	95.587
1781	-65.671	-23.60	-23.97	202.37	185.039	270.779	-79.150	-20.028	30.281	139.125	-71.92	-22.582
1782	218.75	-28.28	214.978	-71.664	-9.85	-24.110	-80.104	-56.26	120.57	-24.520	921.47	-77.176
1783	-91.76	153.23	6.211	66.953	-27.873	-74.983	130.708	-45.285	38.309	40.674	82.412	604.761
1784	138.308	101.124	67.226	82.5	30.089	-50.437	-14.14	-28.218	-82.52	182.69	-28.571	1088.23
1785	76.616	326.02	-61.822	-83.33	-30.708	86.58	-11.661	55.032	26757	-17.83	-100	-100
1786	0	-53.016	-7.826	-83.53	-100	-224.4	13.23	-29.894	-46.189	-47.73	-100	-67.647
1787	2.487	-20.496	33.048	-95.83	-74.963	-33.74	-10.479	-21.63	82.622	-70.25	-100	-11.764
1788	5.0.32	-10.814	-19.130	-10.478	-48.808	-52.332	-10.028	-26.19	75.200	-100	80.851	-82.35
1789	28.333	24.0.7	-86.786	-54.86	-26.71	27.735	14.602	16.113	-75.461	-77.787	-70.47	-100
1790	3.482	140.322	-71.391	-20.016	-48.208	17.987	60.803	-33.874	149.16	-100	-80.75	12.5
1791	-23.33	273.670	-43.47	82.52	150.375	20.449	-18.944	-21.92	-31.165	-20.917	-19.049	59.823
1792	-71.149	-75.52	-26.21	2.5	78.748	-70.91	7.761	5103	87.849	-100	276.190	-100
1793	2.487	-20.49	33.048	-95.83	-74.963	-33.74	-10.479	-21.63	82.622	-70.25	-100	-11.764
1794	-72.298	23.87	-94.78	-62.5	-56.892	-14.72	23.217	-25.889	-72.209	-14.277	-22.25	-13.529
1795	40.0	102.24	132.173	-64.22	101.574	92.33	-101.09	-41.901	-81.759	-95.97	-70.19	10.294
1796	-98.01	145.34	133.173	-66.64	47.244	-57.69	-67.308	67.243	73.460	-47.21	-47.67	-100
1797	-32.83	-39.130	24.34	-75.83	-60.63	142.12	46.795	1.442	45.922	-100	-100	-79.524
1798	-54.82	-23.60	-60.269	-66.66	229.763	-61.078	-51.341	-37.234	-26.480	-50.257	-100	59.882
1799	92.537	182.609	-20.65	-97.76	70.864	69.825	-50.782	0.850	-12.167	-26.745	-100	-100
1800	104.97	-76.27	-100	14.283	19.523	44.838	-20.88	-44.318	-27.408	-100	-100	-76.070
1801	-97.512	74.534	-32.260	-71.964	-61.204	-76.247	-13.852	-21.251	102.780	68.030	-100	-100
1802	5.0.32	-10.814	-19.130	-10.478	-48.808	-52.332	-10.028	-26.19	75.200	-100	80.851	-82.35
1803	-23.33	-39.130	24.34	-75.83	-60.63	142.12	46.795	1.442	45.922	-100	-100	-79.524
1804	-26.07	188.819	-100	-100	38.282	-46.326	75.002	-13.384	51.737	-71.937	-100	-36.352
1805	88.71	109.71	715.65	-43.75	144.732	267.947	-28.82	-50.036	82.707	-99.49	-77.61	-100
1806	-43.781	-4.78	15.21	104.58	209.12	85.038	11.861	-0.314	-0.288	152.64	161.70	-100
1807	81.894	803.72	-10.473	-77.706	-95.21	-18.07	-7.768	-29.214	24.191	151.254	-100	-100
1808	91.600	332.89	-81.34	14.283	7.086	0	-20.26	-38.58	-13.101	-93.18	-3571	82.035
1809	34.801	315.52	53.07	19.782	0.78	-2.603	-23.13	-22.64	-9.034	-67.03	-100	-60.711
1810	-99.50	508.01	-100	-44.583	-22.83	-2.47	-15.271	-15.66	-11.808	-22.460	-10.351	154.911
1811	-95.02	-32.979	519.17	-77.08	-4.72	43.00	17.361	38.168	-89.43	-44.97	-100	-100
1812	-43.78	63.354	-66.08	77.083	200.787	158.18	23.026	-10.660	-29.47	-100	-100	-98.529
1813	-68.65	70.683	-103.471	-39.63	-100	-24.72	-42.03	-12.16	-5.751	-70.351	-100	-44.706
1814	87.863	185.95	301.73	42.0.33	-96.35	11.516	-10.283	-44.417	-36.784	-24.82	-100	-73.527
1815	-100	19.97	-79.750	-20.33	-23.223	78.279	27.308	2.912	66.14	11.65	-1.381	-100
1816	32.835	6.832	-25.21	-31.580	-26.771	-54.51	58.772	-13.212	83.28	-88.94	61.704	-100
1817	-95.52	362.97	215.65	-21.25	113.38	115.29	-17.52	-20.23	-26.76	-98.49	-100	-20.588
1818	-100	-266.05	-20.130	-75	165.35	-39.30	-8.752	-27.147	59.270	-13.64	16.64	205.87
1819	32.33	-24.84	-82.608	-100	112.44	43.851	-20.156	4.404	-21.671	56.281	-100	-41.76
1820	-24.37	-66.621	238.06	49.15	44.007	-46.79	-52.570	17.930	145.28	-23.66	359.52	-100
1821	41.791	-91.72	132.608	-75	-93.100	58.163	-26.07	10.775	-11.037	-100	-100	77.941
1822	-47.181	78.260	-1.797	207.91	81.88	171.667	8.223	-19.85	107.350	110.809	-100	-48.640
1823	194.20	-16.14	-52.173	178.96	-50.30	265.83	6.170	0.364	-25.87	-74.74	-38.25	-27.471
1824	71.647	-23.60	-29.258	445.83	114.13	-51.603	-17.34	-47.753	12.366	-100	-100	-33.823
1825	-6.965	38.509	-100	237.5	-52.75	-24.65	34.907	-18.894	-93.315	-97.48	-100	-77.941
1826	8.482	-64.904	-91.78	277.08	151.988	2.70	43.488	-27.89	28.877	-23.849	-100	132.352
1827	119.70	-77.018	-73.915	-16.466	-26.14	27.157	-28.80	0.209	41.577	38.931	-100	-100
1828	71.241	-29.829	-100	-27.5	-13.978	127.892	10.581	-40.623	-10.64	-29.37	-100	-100
1829	149.751	-92.504	-78.73	-8.335	-100	113.55	-33.75	28.871	57.81	-66.58	-100	-82.235
1830	-21.502	-29.00	-73.04	87.523	24.409	273.44	21.23	-77.280	-87.23	-72.462	-100	-100
1831	-39.801	0.6211	-46.511	-31.5	107.08	114.48	54.24	-26.144	-53.74	-97.78	-100	-100
1832	10.94	-75.08	-100	266.66	73.22	50.145	-31.92	-3.600	-27.137	32.472	-100	-100
1833	-82.587	-6.14	-81.826	-54.86	20.472	33.965	10.693	34.18	-40.243	-72.46	-100	-80.235
1834	4.5.273	31.671	11.304	-27.3	20.417	-92.028	23.248	44.49	18.850	-44.22	11.285	-80.83
1835	-26.138	34.70	2.203	-100	20.762	98.216	35.790	-77.97	-8.216	-76.281	-100	-100
1836	38.88	25.165	-100	-100	-17.32	-7.766	2.83	38.822	-25.409	-77.23	-100	-70.582
1837	-96.07	-98.13	-100	104.76	180.31	31.893	-12.441	-11.878	-75.37	26.110	-100	-100
1838	-80.07	-3.724	178.260	-89.29	-85.35	72.790	17.771	2.167	-42.81	-60.30	20.192	19.102
1839	-41.074	2.118	2.8.24	2.8.24	-48.63	180.20	-37.86	26.579	-79.47	-86.635	-100	171.828
1840	54.128	24.81	75.97	2608	-11.023	-73.03	185.892	-0.351	144.189	81.105	-80.282	277.41
1841	53.233	-4.217	66.956	-80.52	-74.80	130.75	-10.80	38.308	40.574	82.412	604.76	650