

Assam & Meghalaya, North Assam Indian Weather Time Scales

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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. **Assam & Meghalaya, North Assam Indian Weather Time Scales.** *Academ Arena* 2018;10(3s): 1-8]. (ISSN 1553-992X). <http://www.sciencepub.net/academia>. 1. doi:[10.7537/marsaaj1003s1801](https://doi.org/10.7537/marsaaj1003s1801).

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.

	June			July			August			SEPTEMBER			OVERALL SEASON						REMARKS
	T	R	C	T	R	C	T	R	C	T	R	C	T	R	C				
1	2020																		
	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	-38.2	-44.6	-34.6	-42.3	-27.5	+13.9	7396	-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			
	1968	-330	-28.3	-38.7	-28.0	-39.4	-38.4	-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	20.3	-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	-48.8	-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	22.0	+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	+165	+2.4	-23.5	+5.41	-32.6	283.3	+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	-310	+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	-26	-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	+18	-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	?	-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	-28.6	-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	+410	+35.1	-17.6	-17	-39	-6
	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															
	1976	-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	-89.5	-42.8	-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	+6.9	+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	+53.4	-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															
	1989	+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	-33.7	-20.6	-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	+7.8	-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	-56.3	+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	+28.6	-405	-62.2	-26.4	-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
	1952	-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	-4.8.6	-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	+93.4	-4.8	-40.2	-17.3	-26.6	778.9	-52.8	739.9	+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	+22.9.9	-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	+25.5	+13.9.8	77.7	+89.8	+81.7	782.2	+48	+58	-45
	1921	+44.2	-4.16	-39.8	-660	+76.5	+2	-47.2	+45.7	-30.7	+50.6	-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	+24	+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	-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

	2013	June			July			August			SEPTEMBER			OVERALL SEASON			REMARKS
		T	R	C	T	R	C	T	R	C	T	R	C	T	R	C	
18	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	+138.6	+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	+36.3	-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	-4.93	+19.1	+2.4	-0.54	-18.4	+386	-2	-14	+4	
	1903	-25.7	-680	+22.5	+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																
	1988	-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	-83.0	-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

	ASIAN											
	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
2012												
1984	-17.31844	10.85503	19.01914	6.501241	61.56454	36.83654	-50.19517	-27.07135	-57.62871	-24.52083	-17.32283	51.7544
1986	63.17849	-85.13011	72.60798	-13.00348	468.2195	38.46054	-34.58176	-10.17263	54.10295	11.25568	70.88024	16.66667
1908	-43.57547	-4.480667	-46.53111	-30.86849	54.63335	-38.40789	-17.45564	-17.6122	-2.402494	84.90702	-3.543327	74.5614
1900	-46.36872	20.81784	18.74541	27.64268	65.90909	-31.58173	-23.22569	-53.83199	-47.73294	-43.07092	-56.29323	-57.6316
1872	3.351955	7.866491	-8.492823	-10.42184	61.36364	-39.21307	-11.87012	-18.27388	53.72855	1.886792	-68.50194	65.7895
1990	45.2514	31.58854	-13.67843	1.275434	-79.74636	9.27524	-56.74217	-12.63571	-17.90952	-11.64606	406.7060	67.5439
2013												
1991	-30.18615	17.47212	-20.71531	-7.047146	-86.59128	77.35937	-46.13201	-21.77612	18.09672	24.85361	-70.47244	-41.85065
1974	59.21788	-77.32342	-10.40647	-0.937556	-81.54124	8.770146	38.60894	-12.01381	-10.0448	43.20104	12.99213	-76.3158
1952	334.0725	44.60967	-65.39139	-26.05459	-48.89087	-21.16079	38.25408	-37.7731	-25.55382	-15.2583	-43.70079	-37.407
1435	-70.30106	81.04089	-37.77512	-50.47184	-47.81788	1.304885	39.37189	15.09781	-5.708028	-76.71725	-30.70896	-85.9649
1918	-77.66363	-49.81413	12.55981	-31.46402	-69.13611	1.438327	20.29808	10.35679	8.174727	54.19849	-21.33838	-94.7368
1901	17.87709	-43.12768	73.57344	3.275806	-78.49071	-19.538	59.88801	-10.33372	-1.102855	10.43455	146.4567	-85.0872
1879	-81.68715	45.44218	-56.2201	-48.73449	-40.29884	10.28037	11.77818	-7.667601	27.30889	-12.75211	-91.33838	45.63484
2014												
1997	-31.28492	88.47584	1.913876	-33.05211	-71.1326	-12.73144	-36.72818	-40.27618	10.82683	-82.6036	-18.81764	143.8586
1975	-17.33883	-23.04833	-75.11962	-24.26799	-59.40482	-57.50309	-17.58565	-37.00806	-24.33697	8.067664	33.41457	-86.8421
1968	-7.821229	58.01855	-87.67943	-6.401985	-38.15922	-40.13423	-50.46132	-4.188773	-17.4727	8.718282	-88.18858	6.140561
1941	67.59777	27.88104	-41.38756	13.44913	-60.40682	-12.74671	-42.8318	-25.36249	-14.29017	4.488265	-9.065118	-14.0251
1019	-17.11844	-60.5048	-63.87556	26.50124	-66.38624	26.11512	-17.79276	-57.40806	5.772231	15.02924	77.18635	-39.4757
1903	60.89385	-61.56877	7.77512	56.47643	-79.79357	-7.423735	-27.04045	5.79577	27.83154	-29.66818	75.08425	-94.7268
1885	-15.64246	-44.98141	11.24403	0.397827	-67.65445	-31.65227	-13.24344	-44.57998	38.43994	-30.38384	-20.47244	10.52632
2015												
1998	-37.96089	45.42751	62.44019	-7.295285	-71.0447	-14.61823	-9.492548	4.856157	-42.05878	5.855563	39.76378	-86.8471
1981	78.77096	12.63941	32.77512	-17.48898	-57.5339	-55.45759	-10.34422	-11.84923	-29.54758	-72.41379	-80.31494	258.7374
1959	35.97265	101.4817	17.82297	-43.42452	-49.76143	-26.69723	-48.34989	-46.0069	-12.73011	126.2394	-56.69291	88.5963
1942	1.676471	-87.54579	81.89262	-59.77143	15.61948	107.7279	-78.6055	-58.02951	132.1078	-153.7519	-41.69667	-302.679
1925	25.11173	-30.48327	-30.14334	10.32258	-37.69463	-46.78187	-36.88786	-25.61545	-7.613105	-33.44177	-68.79134	-98.2456
1903	-17.84916	2.402721	12.17703	-49.50898	-78.30236	0.49374	-35.91199	9.965478	-4.821997	2.342225	151.9685	90.9825
1886	-51.99531	-63.54837	4.069388	-23.52357	-68.25716	-27.39464	-4.187367	-1.357883	27.36349	-35.39362	-52.12588	50
2016												
1988	-45.2514	18.21561	4.425837	-28.73449	-41.58618	-36.5544	-4.861604	53.55581	1.837754	24.50136	990.9449	42.10526
1966	7.26257	-56.13883	-74.76077	-34.83871	-39.80389	15.79968	-20.56423	16.80092	-22.6309	11.12957	85.82677	16.88667
1932	4.469274	35.31599	-38.82725	-10.02481	-42.91813	-11.51472	-31.99077	-17.12313	-12.5741	-35.58841	272.9528	51.26316
1904	-37.88883	112.6394	-43.54067	131.7618	-58.43797	-30.74608	-25.02768	-1.219793	-25.6734	-47.35574	171.2588	-84.2108
1876	-17.31844	-18.95911	31.57886	-15.41424	-56.30337	-8.940222	-31.83189	-16.52474	-30.63963	1.694469	104.2992	-78.9474
2017												
1995	-31.29665	71.00372	-41.74641	-19.25186	-65.75841	-11.73055	-25.40809	-17.83699	15.78783	-54.19649	148.0315	-58.7224
1978	-88.03252	68.40149	-48.56499	-66.65017	-67.64189	-25.05731	-34.17317	-43.24911	-19.18877	-41.11906	170.4724	-100
1961	-38.54749	-14.12639	126.7943	-72.60546	-70.58011	-31.74043	-47.57729	-46.32911	-33.69735	-40.14314	28.74016	-70.9474
1029	-67.50777	22.67658	-58.85167	-46.94789	-77.27273	-45.45935	-13.57546	-46.92275	-16.03744	-0.71568	65.75443	-86.8421
1922	-83.24222	-92.58506	-69.13876	-20.04963	-73.84448	-26.06242	-48.15472	-20.20713	-34.22777	-3.383214	271.4515	-46.4912
1905	-72.09794	-4.460467	294.5455	-43.9206	-82.42089	-49.18243	-28.54285	13.97008	-10.0448	34.54782	-56.27558	60.57632
1881	-27.1243	-62.45353	-6.100478	-57.10918	-50.94174	-25.89203	-41.60752	24.28078	-26.02184	-79.37541	-48.8188	992.9825
2018												
2003	-71.10168	129.7028	-60.28708	25.50868	-70.73079	-43.66071	-38.8396	-46.16801	-21.46646	45.54327	-9.065118	-51.7544
1475	-77.09497	-54.27929	-46.35493	-46.40199	-77.8001	-50.00882	5.482612	43.59033	66.14665	13.20755	-20.07874	238.0424
1862	-17.98083	-27.50929	203.8493	30.76923	-55.19839	-17.66529	-35.68133	-28.55282	-26.48886	-22.38126	37.40157	-17.0125
1945	187.70295	-1.115242	-5.382775	-25.50868	-60.40934	-13.20755	-18.76579	-3.912543	-11.54446	43.09586	-70.07874	-50.6491
1923	-47.66346	108.9279	-52.51196	7.241935	-61.31343	-2.045495	-44.25174	-42.32951	0.530421	37.15029	-69.23672	-67.4035
1906	-47.4581	135.4477	10.52932	31.26551	-67.18985	-33.8712	-71.4443	20.54922	0.780031	8.97853	81.10736	-100
1889	94.97207	35.88773	-31.2201	-13.10174	-57.40834	7.756826	-27.10512	12.7733	37.79541	-35.32856	41.33838	91.7383

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
2007	-7.71257	-8.12719	19.85646	67.1464	-72.4887	-26.15039	-18.84315	-11.6939	-28.58054	51.24411	202.3627	51.7544
1985	60.88085	39.03346	70.14154	9.330025	-65.57007	-18.20286	-23.13858	-17.12313	-10.58284	85.42035	72.83465	14.81228
1961	-73.18436	-79.18216	-38.22967	-1.33995	63.83471	-1.4138	-16.41009	-7.205682	-28.58556	6.765428	14.56063	-57.0175
1946	-93.85475	-11.57416	42.70135	17.01933	-61.30085	-8.003037	-14.15888	-41.29084	-31.13005	206.5467	-49.6063	-92.9875
1929	355.8659	-89.24585	15.61727	17.81634	-36.56635	5.149004	-40.98657	-11.73418	-72.4337	14.50828	-35.05937	141.2081
1907	129.581	38.25279	63.18713	5.260545	-75.2888	-20.13151	-18.63023	-41.77315	-0.312012	80.43158	-60.62997	61.57895
1890	57.5415	-79.5529	13.03826	-11.15134	-75.75379	-0.957131	-73.8467	-7.663342	-31.04529	11.12557	-54.75941	58.77193
1871	-60.78212	20.81784	15.18139	-0.032258	77.19739	-25.56144	-39.53158	-15.18947	-41.02964	71.8475	-82.28246	-64.0351
2020												
1997	-20.06028	154.4981	2.013493	-35.08685	-22.10266	39.16417	35.70227	17.05335	-20.93001	31.15579	-47.32283	-37.7193
1984	-43.57542	-8.550186	5.143541	35.08685	63.46057	71.93617	-8.800688	-34.39148	-4.45298	40.55857	-40.55118	-14.0353
1966	-22.90503	112.6294	-17.94758	-13.25962	-91.27523	-25.90126	-13.8978	-27.24123	-13.88956	30.58542	-17.20477	34.21051
1948	-18.59441	-6.319703	-76.11579	22.03474	63.12155	38.51173	24.59101	-34.75735	21.12374	39.16731	-81.10236	107
1880	114.5231	114.4881	149.7608	2.531017	-70.81314	14.00106	-27.02944	-1.169079	-29.71557	-8.228777	56.74501	135.0877
2021												
1999	-80.94413	-99.62825	-31.81818	-5.111663	-56.8563	-43.68066	-11.51576	-5.546005	-11.54444	56.7138	-49.2126	-79.8286
1982	-86.01132	-8.128429	-50.7177	32.00093	-79.14365	-26.20379	-37.78276	-29.71346	-12.4499	-64.05442	81.10236	23.68521
1965	-83.24212	119.1309	-17.94758	-31.26551	-62.48117	-14.03633	-37.1885	-29.71346	-5.708628	-40.40138	106.2982	-24.5614
1943	166.0184	59.8513	84.56918	21.58899	-53.85252	-25.23364	-29.18254	-58.57307	17.3791	-30.44883	-67.20283	-43.2887
1926	65.92128	-30.48327	88.18187	-12.5002	-79.54757	-13.38388	-18.18602	-16.70195	-39.78159	12.25448	-64.17323	138.7719
1909	17.81208	77.12342	-94.61727	-15.48387	60.12346	-2.028395	50.62875	-17.60644	-28.90796	18.83384	21.22825	-18.4737
1887	64.40447	26.39405	35.76555	-13.11063	-78.40381	-71.67166	0.958126	24.51093	32.07488	-36.95511	17.99213	-27.8027
1870												
2022												
2005	81.56425	110.4089	145.8134	4.501243	-63.92772	-36.11315	-38.73629	-6.944119	-37.54529	21.24027	-27.16535	95.644
1981	6.760911	99.8513	-3.110048	-1.836718	-68.67152	-45.12412	-2.700142	-70.78211	20.63402	40.07807	-62.59843	147.3684
1964	-100	-56.13383	-50.11562	-78.06452	-61.78289	-27.91158	-2.501749	-16.64385	-18.08953	44.37215	39.76378	-56.1484
1949	20.11178	-2.60273	-37.70096	74.22945	-92.67805	-10.18271	-39.6203	6.605193	13.10452	9.138777	40.94488	34.23553
1927	122.905	131.2268	23.12536	5.707156	-49.07333	-28.78425	24.91128	-12.7752	51.75927	-3.642461	3.543367	100
1910	-90.83799	24.53532	52.39738	80.39702	-77.27574	6.154117	1.767921	25.24741	-16.11544	22.96682	34.25137	56.1404
1893	81.56425	50.18587	6.578947	30.42035	-65.39473	-32.00494	-9.462548	-16.17952	-26.80187	8.97853	-68.12094	82.4561
1871	-84.9162	19.7026	-19.85646	1.885856	-59.69367	-30.87629	-27.12917	-7.356041	-15.23271	-18.28273	18.1104	-69.75827
2023												
2006	-97.2067	126.803	-76.31579	6.151846	-69.56303	-79.00664	-45.46771	55.0748	18.93216	-25.11386	38.18856	-29.5614
1989	-19.6648	125.6596	-68.56859	-0.032748	-30.89432	-29.05044	17.97134	-33.78596	18.93016	65.02811	26.17795	-40.3509
1967	9.497207	56.13343	69.97244	30.96774	-68.35761	-38.33539	29.08093	-60.82739	-7.340204	51.03624	-24.80215	-85.0877
1950	21.22905	105.1451	-4.80622	-52.8636	-61.87845	3.775685	40.25903	0.874568	-37.34789	7.872473	175.5906	-82.4561
1933	16.87151	5.947355	-75.47847	4.167246	66.48158	25.81555	-38.18337	13.62486	-37.53975	29.53894	26.37795	-48.2456
1911	253.0736	-38.66131	-19.73684	7.444169	-51.94626	-21.97143	-23.70476	-21.58803	9.135064	53.74105	-20.00876	-82.4561
1894	-71.50838	118.1581	1.674641	10.63035	53.71673	-28.68892	57.45288	20.00904	29.93136	26.77293	145.6668	14.91228
1877	85.79348	38.28856	51.70813	-18.80893	50.12557	-48.21019	-14.07626	-27.8481	29.07956	-47.73511	-10.62992	99.12281
2024												
1996	-27.91216	36.80297	87.08134	-12.85909	-31.25163	-57.48574	-29.18737	-78.7687	24.21217	26.35603	-57.48031	-100
1968	8.718547	-18.21561	-6.578947	-20.73984	28.22451	-15.14724	-15.04613	-14.70636	-32.26209	-26.18016	-67.32283	-86.8021
1947	-25.41856	-79.5529	6.578947	18.75911	-49.56733	-3.291478	-3.455387	-21.96893	21.77847	64.80156	-81.62567	38.59649
1917	-26.81564	98.62825	47.72272	15.48387	-71.58863	-37.45121	9.776437	8.00046	-38.54914	7.742355	134.6882	-46.4912
1894	17.11844	30.85682	19.01914	8.501243	-61.56757	36.83854	50.19617	27.07125	-67.62871	24.5282	-13.32283	-51.2544
2025												
2003	-51.07662	24.92665	11.84211	27.89282	-71.18675	-27.72288	-34.29834	-28.62661	-24.11856	61.76968	-16.14173	9.649323
1986	-45.2514	57.67386	-65.00172	41.24023	-75.85394	-54.71858	-18.25408	-33.02647	-11.20125	96.81197	700.3937	-39.4737
1969	10.05687	-97.76915	26.00966	-14.71845	-48.13611	-13.41515	-71.64892	8.482505	-47.95632	38.45153	-10.23622	-57.8125
1947	-25.41859	-79.5529	6.578947	18.75911	-49.56733	-3.291478	-1.405387	-22.18893	21.77847	64.80156	84.64567	38.59649
1930	45.2514	11.54853	-12.67943	3.279434	-78.74638	9.27526	-58.70217	-12.62521	-17.90957	-11.64406	406.2392	-67.5435
1912	-46.36872	169.345	14.42105	42.38288	-50.09051	-27.46517	-25.77389	-30.44879	17.83151	69.38191	61.45732	215.7885
1891	-58.10056	77.12342	13.75588	-22.77016	-51.50178	-49.02085	-10.12773	-29.52819	13.24493	-89.20625	57.08663	-100
1874	99.47134	179.3257	16.79641	-11.11643	-48.7672	-31.34859	-5.153429	-29.37389	11.38846	47.02869	-10.62992	94.7368

	Assam											
	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
2018												
2009												
1989	64.80447	25.20905	25.76555	31.11663	-28.40281	-21.67366	-0.958126	-24.51073	32.07980	-26.92511	12.93213	-27.807
1970	211.9065	51.50335	5.073975	-1.325052	99.29181	-7.441368	-7.842641	-18.11777	-21.39165	72.54352	183.9099	-80.7038
1953	63.12889	-11.75963	142.2827	-21.29237	34.10876	-26.4754	-18.50975	-32.54175	32.69111	-18.47755	-80.31938	-16.6567
1931	-61.68715	-4.832714	-48.56459	70.48137	-52.78999	9.575031	1.211988	40.36824	-51.29485	-5.800625	1.181523	156.3404
1914	-64.82067	149.4474	-33.01435	21.88585	-81.79033	-41.05096	-18.18098	-10.18563	-24.9798	63.29008	-62.32477	-28.5614
1897	55.86597	41.26394	87.17603	53.64766	-56.07735	-34.51448	-18.78474	-18.13579	58.56474	4.529897	-17.17383	99.1378
1879	152.514	-28.67454	64.83254	10.47146	-64.21928	-1.304825	-18.4999	22.59194	-39.38233	-59.66168	-88.4252	7.894757
2027												
2010												
1993	174.8621	312.6394	30.86124	-37.866	-58.63335	21.62899	14.37516	17.38205	-1.716069	6.266428	-27.16535	-67.5479
1971	-15.64248	-43.86617	-92.95694	3.126551	-69.32446	16.69017	25.41109	-25.06882	-26.66147	39.29733	303.1811	-67.2887
1954	2.718137	175.7299	-65.66386	0.892672	-52.69965	-70.34153	24.20156	-11.41777	-25.47522	32.77066	-93.2126	136.6667
1937	-69.8374	74.77119	-81.13971	55.83177	-69.81165	-28.76936	-25.84102	4.699272	-29.29797	3.127267	-44.88819	5.20316
1915	52.51389	11.44981	-5.071873	0.799417	23.58267	14.77934	10.27001	1.611047	-31.20125	-21.40634	-18.76319	-26.3158
1898	22.90503	54.27509	-68.7795	-16.57588	-21.74787	30.25923	-41.00426	1.699172	-9.921992	33.8972	-18.34648	19.29875
1881	83.24027	-16.05998	30.50230	105.2022	-50.7785	-30.04524	-49.0127	7.873116	-69.40967	-88.64671	-47.51989	-75.8882
2028												
2000	2.293296	32.71325	-25.50809	30.47146	60.47151	-26.35976	-46.76913	0.552529	41.45646	-42.55047	15.35433	29.5614
1972	12.96089	5.204461	17.91865	8.68033	-61.39211	9.680832	-17.52307	-47.11162	-37.5039	53.20364	72.44094	-21.9298
1956	141.3908	-52.34251	31.9378	28.23821	44.87695	31.98873	33.80373	-27.56666	3.74415	-48.20272	28.79016	21.0526
1936	-20.11173	12.21266	-23.08617	6.104718	-61.79266	-11.96276	-32.63178	-1.910742	-20.0936	81.61757	81.88976	-21.6892
1889	54.7488	16.45834	44.61722	24.71964	54.88448	-14.32138	33.69411	-31.26957	-25.80583	19.14271	6.298213	-91.1229
2007	-35.43488	277.6652	-81.84213	53.50881	73.11652	25.97925	-29.23705	36.17952	8.954768	8.397973	52.75291	-47.9825
1990	-49.28212	56.87712	-9.59823	46.88826	-44.20186	25.17898	-16.97238	43.82048	9.218993	18.47755	-90.55118	-49.1228
1973	-12.08883	1.736059	66.38756	18.75931	-54.52034	7.791139	-45.12063	-28.58458	-1.91654	2.667574	201.5748	518.4711
1951	74.30168	95.39578	-51.91388	10.22333	-64.87973	3.276999	8.897811	22.09436	-39.32588	89.72023	120.4724	-23.6887
1934	-15.64248	152.7883	-21.05263	25.73201	-51.67879	36.88659	-18.75781	-30.01151	-26.64587	53.93624	134.252	-67.5439
1917	-66.48045	290.6743	-51.39978	-17.35732	-78.05123	-12.50037	26.86309	-32.56617	-2.4888	24.91867	177.9628	-82.4561
1895	-31.28487	29.40657	-8.87121	3.027295	-63.88749	-51.62973	20.07184	-16.73188	-11.38886	41.49419	-18.50999	29.62956
1878	-42.4581	47.58364	1.679541	-7.791563	-61.09695	-25.17281	16.78495	11.37169	39.8752	6.573243	24.01575	-61.8035
2013												
1994	6.145251	241.2639	109.7105	97.61782	-59.69262	-22.32473	-43.61249	-22.75694	-20.0936	19.12887	29.52756	-93.8998
1977	-58.65622	-6.219703	-14.71297	168.8112	-55.19809	-92.15128	20.29808	3.293468	-45.0858	2.712101	160.7874	137.7193
1955	-25.19553	58.73606	53.78813	2.692308	-61.66999	-14.15173	2.577573	24.23475	-14.10796	6.245094	195.4028	9.64932
1938	77.09497	-11.76095	38.82873	6.299509	-68.75947	22.28884	-21.62979	1.657877	4.898794	-6.163966	166.9211	89.4739
1921	92.73783	-41.12264	49.57153	39.82149	55.90156	-8.193581	-17.70759	7.750012	-6.801872	-10.80076	-52.1877	10.57659
1899	12.87709	69.88848	23.20674	1.816178	59.66853	-12.66091	-12.38112	-3.751438	18.78335	-6.890567	-57.48031	-25.4286
1882	-12.31844	125.6528	51.31579	-28.81315	-67.88948	-31.9873	-57.89367	5.040276	-14.82959	151.599	16.53543	50.8772
2004	16.75928	9.23168	-18.28759	85.88665	-54.21889	-45.72786	-4.255345	-49.71807	-16.56786	23.89535	85.0007	-32.7193
1976	-60.3357	73.46556	-44.01934	-1.736973	73.65645	-3.456181	-0.811875	-31.26967	-49.73479	-65.71241	29.40945	-2.63158
1948	41.34578	67.58314	28.94712	31.66253	11.36364	-6.06595	-13.12828	-8.49252	18.09672	67.72934	137.0079	52.0175
1930	68.24581	-69.44738	12.94258	-18.87995	69.45003	-11.89914	53.10091	-1.081548	8.767551	22.05585	-22.83965	-64.0351
1892	29.60894	38.78996	20.25531	64.31762	-43.29483	-18.31776	23.10476	6.513234	-20.34321	29.51806	8.661917	-42.9825
2008	87.15086	-18.66171	70.8134	1.488334	-71.89764	30.55888	-35.88297	-2.71878	-27.5607	21.66568	83.00782	100
1880	-52.51397	46.89015	15.311	-12.15732	-53.29492	38.28249	-33.88808	26.01896	-20.79883	33.57189	-98.4752	-85.2645
1952	71.50838	-80.2974	23.68421	-12.40465	-40.28933	-52.88667	-1.07945	-2.487601	4.329797	109.499	125.7783	-86.8421
1934	53.21788	-7.896993	-75.35885	-7.741263	-84.87948	-23.57142	4.276082	-15.18087	7.433387	22.45088	488.3764	02.8825
1894	-71.50838	118.9593	1.679691	-10.67035	53.71673	-20.64892	-57.75709	-20.66004	21.68131	26.77793	165.4683	14.81228