

## North West 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. **North West Indian Weather Time Scales.** *Academ Arena* 2018;10(3s): 245-253]. (ISSN 1553-992X). <http://www.sciencepub.net/academia>. 33. doi:[10.7537/marsaaj1003s1833](https://doi.org/10.7537/marsaaj1003s1833).

**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 7<sup>th</sup> 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 7<sup>th</sup> 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 10<sup>th</sup> 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 10<sup>th</sup> 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		JUNE		JULY			AUGUST			SEPTEMBER			DIVISION		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	-26.8	-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
	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	-39.5	-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
	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	+65.2	+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
	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	-20.8	-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	+7.8	-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
	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
	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		-38.8	-29.3	+0.18	-21.8	-25.3	+08.2	-31.2	-16.5	-24	-32	6
	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	214.6	+54.8	-10.3	+25	+10	-3
	1931	+50	-440	+768.9	+12.3	-2.70	-24.0	+38.0	-26.0	+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
	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
	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	+25.8	+13.9.8	77.7	+89.8	+81.7	782.2	+48	+58	-45
	1921	+44.2	-4.16	-39.6	-660	+75.5	+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
	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	+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

	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	+138.8	+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	+62.5	-67.5	+578	-70.2	-83.4	-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	+22.6	+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																
	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	

North West India

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Ann	JF	MAR	JAS	OND	JAS	OND	Annual	Wind	
1984	13.2	13.3	13.7	14.0	14.4	15.2	16.1	16.8	17.3	17.7	18.0	18.3	18.5	18.7	18.9	19.1	19.3	19.5	19.7	19.9	20.1	20.3
1985	11.9	12.3	12.8	13.3	13.8	14.3	14.8	15.3	15.8	16.3	16.8	17.3	17.8	18.3	18.8	19.3	19.8	20.3	20.8	21.3	21.8	22.3
1986	10.2	10.7	11.2	11.7	12.2	12.7	13.2	13.7	14.2	14.7	15.2	15.7	16.2	16.7	17.2	17.7	18.2	18.7	19.2	19.7	20.2	20.7
1987	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5	20.0	20.5	21.0	21.5	22.0
1988	12.4	12.9	13.4	13.9	14.4	14.9	15.4	15.9	16.4	16.9	17.4	17.9	18.4	18.9	19.4	19.9	20.4	20.9	21.4	21.9	22.4	22.9
1989	13.1	13.6	14.1	14.6	15.1	15.6	16.1	16.6	17.1	17.6	18.1	18.6	19.1	19.6	20.1	20.6	21.1	21.6	22.1	22.6	23.1	23.6
1990	13.8	14.3	14.8	15.3	15.8	16.3	16.8	17.3	17.8	18.3	18.8	19.3	19.8	20.3	20.8	21.3	21.8	22.3	22.8	23.3	23.8	24.3
1991	14.5	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5	20.0	20.5	21.0	21.5	22.0	22.5	23.0	23.5	24.0	24.5	25.0
1992	15.2	15.7	16.2	16.7	17.2	17.7	18.2	18.7	19.2	19.7	20.2	20.7	21.2	21.7	22.2	22.7	23.2	23.7	24.2	24.7	25.2	25.7
1993	15.9	16.4	16.9	17.4	17.9	18.4	18.9	19.4	19.9	20.4	20.9	21.4	21.9	22.4	22.9	23.4	23.9	24.4	24.9	25.4	25.9	26.4
1994	16.6	17.1	17.6	18.1	18.6	19.1	19.6	20.1	20.6	21.1	21.6	22.1	22.6	23.1	23.6	24.1	24.6	25.1	25.6	26.1	26.6	27.1
1995	17.3	17.8	18.3	18.8	19.3	19.8	20.3	20.8	21.3	21.8	22.3	22.8	23.3	23.8	24.3	24.8	25.3	25.8	26.3	26.8	27.3	27.8
1996	18.0	18.5	19.0	19.5	20.0	20.5	21.0	21.5	22.0	22.5	23.0	23.5	24.0	24.5	25.0	25.5	26.0	26.5	27.0	27.5	28.0	28.5
1997	18.7	19.2	19.7	20.2	20.7	21.2	21.7	22.2	22.7	23.2	23.7	24.2	24.7	25.2	25.7	26.2	26.7	27.2	27.7	28.2	28.7	29.2
1998	19.4	19.9	20.4	20.9	21.4	21.9	22.4	22.9	23.4	23.9	24.4	24.9	25.4	25.9	26.4	26.9	27.4	27.9	28.4	28.9	29.4	29.9
1999	20.1	20.6	21.1	21.6	22.1	22.6	23.1	23.6	24.1	24.6	25.1	25.6	26.1	26.6	27.1	27.6	28.1	28.6	29.1	29.6	30.1	30.6
2000	20.8	21.3	21.8	22.3	22.8	23.3	23.8	24.3	24.8	25.3	25.8	26.3	26.8	27.3	27.8	28.3	28.8	29.3	29.8	30.3	30.8	31.3
2001	21.5	22.0	22.5	23.0	23.5	24.0	24.5	25.0	25.5	26.0	26.5	27.0	27.5	28.0	28.5	29.0	29.5	30.0	30.5	31.0	31.5	32.0
2002	22.2	22.7	23.2	23.7	24.2	24.7	25.2	25.7	26.2	26.7	27.2	27.7	28.2	28.7	29.2	29.7	30.2	30.7	31.2	31.7	32.2	32.7
2003	22.9	23.4	23.9	24.4	24.9	25.4	25.9	26.4	26.9	27.4	27.9	28.4	28.9	29.4	29.9	30.4	30.9	31.4	31.9	32.4	32.9	33.4
2004	23.6	24.1	24.6	25.1	25.6	26.1	26.6	27.1	27.6	28.1	28.6	29.1	29.6	30.1	30.6	31.1	31.6	32.1	32.6	33.1	33.6	34.1
2005	24.3	24.8	25.3	25.8	26.3	26.8	27.3	27.8	28.3	28.8	29.3	29.8	30.3	30.8	31.3	31.8	32.3	32.8	33.3	33.8	34.3	34.8
2006	25.0	25.5	26.0	26.5	27.0	27.5	28.0	28.5	29.0	29.5	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5
2007	25.7	26.2	26.7	27.2	27.7	28.2	28.7	29.2	29.7	30.2	30.7	31.2	31.7	32.2	32.7	33.2	33.7	34.2	34.7	35.2	35.7	36.2
2008	26.4	26.9	27.4	27.9	28.4	28.9	29.4	29.9	30.4	30.9	31.4	31.9	32.4	32.9	33.4	33.9	34.4	34.9	35.4	35.9	36.4	36.9
2009	27.1	27.6	28.1	28.6	29.1	29.6	30.1	30.6	31.1	31.6	32.1	32.6	33.1	33.6	34.1	34.6	35.1	35.6	36.1	36.6	37.1	37.6
2010	27.8	28.3	28.8	29.3	29.8	30.3	30.8	31.3	31.8	32.3	32.8	33.3	33.8	34.3	34.8	35.3	35.8	36.3	36.8	37.3	37.8	38.3
2011	28.5	29.0	29.5	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5	36.0	36.5	37.0	37.5	38.0	38.5	39.0
2012	29.2	29.7	30.2	30.7	31.2	31.7	32.2	32.7	33.2	33.7	34.2	34.7	35.2	35.7	36.2	36.7	37.2	37.7	38.2	38.7	39.2	39.7
2013	29.9	30.4	30.9	31.4	31.9	32.4	32.9	33.4	33.9	34.4	34.9	35.4	35.9	36.4	36.9	37.4	37.9	38.4	38.9	39.4	39.9	40.4
2014	30.6	31.1	31.6	32.1	32.6	33.1	33.6	34.1	34.6	35.1	35.6	36.1	36.6	37.1	37.6	38.1	38.6	39.1	39.6	40.1	40.6	41.1
2015	31.3	31.8	32.3	32.8	33.3	33.8	34.3	34.8	35.3	35.8	36.3	36.8	37.3	37.8	38.3	38.8	39.3	39.8	40.3	40.8	41.3	41.8
2016	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5	40.0	40.5	41.0	41.5	42.0	42.5
2017	32.7	33.2	33.7	34.2	34.7	35.2	35.7	36.2	36.7	37.2	37.7	38.2	38.7	39.2	39.7	40.2	40.7	41.2	41.7	42.2	42.7	43.2
2018	33.4	33.9	34.4	34.9	35.4	35.9	36.4	36.9	37.4	37.9	38.4	38.9	39.4	39.9	40.4	40.9	41.4	41.9	42.4	42.9	43.4	43.9
2019	34.1	34.6	35.1	35.6	36.1	36.6	37.1	37.6	38.1	38.6	39.1	39.6	40.1	40.6	41.1	41.6	42.1	42.6	43.1	43.6	44.1	44.6
2020	34.8	35.3	35.8	36.3	36.8	37.3	37.8	38.3	38.8	39.3	39.8	40.3	40.8	41.3	41.8	42.3	42.8	43.3	43.8	44.3	44.8	45.3
2021	35.5	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5	40.0	40.5	41.0	41.5	42.0	42.5	43.0	43.5	44.0	44.5	45.0	45.5	46.0
2022	36.2	36.7	37.2	37.7	38.2	38.7	39.2	39.7	40.2	40.7	41.2	41.7	42.2	42.7	43.2	43.7	44.2	44.7	45.2	45.7	46.2	46.7
2023	36.9	37.4	37.9	38.4	38.9	39.4	39.9	40.4	40.9	41.4	41.9	42.4	42.9	43.4	43.9	44.4	44.9	45.4	45.9	46.4	46.9	47.4
2024	37.6	38.1	38.6	39.1	39.6	40.1	40.6	41.1	41.6	42.1	42.6	43.1	43.6	44.1	44.6	45.1	45.6	46.1	46.6	47.1	47.6	48.1
2025	38.3	38.8	39.3	39.8	40.3	40.8	41.3	41.8	42.3	42.8	43.3	43.8	44.3	44.8	45.3	45.8	46.3	46.8	47.3	47.8	48.3	48.8
2026	39.0	39.5	40.0	40.5	41.0	41.5	42.0	42.5	43.0	43.5	44.0	44.5	45.0	45.5	46.0	46.5	47.0	47.5	48.0	48.5	49.0	49.5
2027	39.7	40.2	40.7	41.2	41.7	42.2	42.7	43.2	43.7	44.2	44.7	45.2	45.7	46.2	46.7	47.2	47.7	48.2	48.7	49.2	49.7	50.2
2028	40.4	40.9	41.4	41.9	42.4	42.9	43.4	43.9	44.4	44.9	45.4	45.9	46.4	46.9	47.4	47.9	48.4	48.9	49.4	49.9	50.4	50.9
2029	41.1	41.6	42.1	42.6	43.1	43.6	44.1	44.6	45.1	45.6	46.1	46.6	47.1	47.6	48.1	48.6	49.1	49.6	50.1	50.6	51.1	51.6
2030	41.8	42.3	42.8	43.3	43.8	44.3	44.8	45.3	45.8	46.3	46.8	47.3	47.8	48.3	48.8	49.3	49.8	50.3	50.8	51.3	51.8	52.3
2031	42.5	43.0	43.5	44.0	44.5	45.0	45.5	46.0	46.5	47.0	47.5	48.0	48.5	49.0	49.5	50.0	50.5	51.0	51.5	52.0	52.5	53.0
2032	43.2	43.7	44.2	44.7	45.2	45.7	46.2	46.7	47.2	47.7	48.2	48.7	49.2	49.7	50.2	50.7	51.2	51.7	52.2	52.7	53.2	53.7
2033	43.9	44.4	44.9	45.4	45.9	46.4	46.9	47.4	47.9	48.4	48.9	49.4	49.9	50.4	50.9	51.4	51.9	52.4	52.9	53.4	53.9	54.4
2034	44.6	45.1	45.6	46.1	46.6	47.1	47.6	48.1	48.6	49.1	49.6	50.1	50.6	51.1	51.6	52.1	52.6	53.1</				

month wise Study

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Ann	ITF	MAA	OTAS	OND	JRAS	ONB	Annal	Refere
1986	3.5	5.4	10.0	6.7	4.4	71.6	107.0	205.4	162.6	16.3	8.0	7.7	365.3	9.6	24.4	31.6	26.4	470.5	-20.2	414.5	
1987	3.8	10.3	8.7	6.6	15.7	104.6	182.6	212.5	84.5	4.7	10.6	3.2	643.9	18.1	34.3	165.9	18.0	-16.0	-5.3	513.3	
1988	2.4	5.1	14.0	3.2	11.7	85.4	300.5	105.1	115.9	9.7	6.1	1.0	107.7	7.8	22.3	161.1	18.0	235.0	10.1	34.4	
1989	6.2	7.5	31.5	6.4	10.0	67.7	82.0	161.4	85.3	5.2	6.6	15.7	650.6	13.6	22.0	67.7	27.6	21.5	-1.5	-1.5	
1990	7.7	2.0	7.7	6.7	11.7	83.3	228.4	163.0	101.8	13.1	6.4	0.0	731.1	6.7	22.0	117.6	18.1	18.1	-1.4	-5.6	
1991	3.1	4.5	0.6	6.4	1.6	61.0	109.1	144.7	152.7	10.2	1.6	8.2	455.2	8.7	24.5	316.3	27.2	24.1	-4.6	24.1	
1992	7.4	3.1	5.4	15.0	34.4	111.5	260.6	150.7	14.1	25.5	6.7	1.3	657.7	10.6	53.1	556.6	31.6	-12.0	-1.3	-10.2	
1993	2.3	8.0	15.1	3.2	13.2	119.2	183.2	301.5	32.3	7.2	5.0	4.1	678.6	13.5	18.5	451.4	67.0	-27.5	485.4	-13.4	
1994	2.4	4.3	10.0	11.7	11.4	27.6	243.1	185.8	238.6	6.4	6.1	14.0	167.3	23.2	33.4	614.9	0.3	-0.0	4.0	-2.0	
1995	2.2	0.0	2.0	7.2	7.7	11.6	218.8	307.0	338.5	13.4	6.7	0.1	458.2	31.2	17.0	366.7	13.7	33.0	6.4	11.5	
1996	1.1	25.0	6.6	6.7	13.2	11.6	213.7	26.8	10.4	11.7	6.4	0.0	223.3	33.0	21.6	671.0	20.4	-1.5	-1.0	-1.0	
1997	7.4	23.5	19.6	6.7	5.5	133.2	213.1	340.3	195.3	3.4	10.0	5.3	871.0	22.5	10.2	268.8	8.4	4.2	-2.5	4.0	
1998	15.7	26.3	2.4	6.6	13.4	132.2	248.1	309.3	35.3	15.3	6.1	0.0	363.3	44.0	21.3	72.7	15.4	18.0	4.0	4.3	
1999	6.0	4.4	6.5	9.2	20.1	118.4	167.4	308.8	114.6	14.5	6.0	16.0	312.2	11.4	15.7	310.1	6.9	18.0	4.0	4.3	
2000	18.3	20.0	2.4	10.2	6.7	27.4	166.2	231.2	135.7	14.1	1.6	9.4	679.7	6.5	13.3	638.0	12.6	-6.4	-3.3	-3.7	
2001	6.9	22.0	4.1	3.7	23.8	156.6	338.0	219.6	125.5	5.0	2.0	4.8	554.9	28.3	31.6	462.6	11.8	-23.5	-6.1	-13.7	
2002	2.3	8.0	1.4	8.6	6.6	27.7	226.5	318.8	153.7	10.4	1.3	18.0	747.5	9.6	15.7	377.7	12.3	-4.3	4.0	-10.7	
2003	5.2	6.4	8.1	4.5	9.2	24.3	172.7	372.4	163.1	13.3	18.6	0.0	637.7	11.6	20.2	711.0	36.5	-5.3	-4.0	7.0	
2004	0.3	11.0	6.7	5.4	12.4	158.0	210.4	300.7	66.0	16.2	0.0	16.2	662.2	11.7	14.2	740.0	28.7				
2005	1.0	4.2	6.4	6.3	3.1	96.4	300.2	183.1	16.4	8.7	6.2	0.0	63.2	11.0	1.6	561.1	32.1	-18.0	-15.7	-10.0	
2006	10.2	14.3	15.4	10.7	7.2	38.6	173.2	307.8	8.4	6.1	0.0	6.4	631.8	10.0	10.4	544.6	2.7	-22.0	-1.0	-13.4	
2007	4.7	6.4	6.4	5.1	4.4	150.5	216.5	165.3	49.5	4.8	0.0	12.6	365.4	2.4	17.3	215.4	3.2	45.0	-2.7	-13.7	
2008	1.1	11.3	5.0	1.6	17.1	46.1	143.6	210.7	192.0	8.6	1.4	2.9	778.1	18.3	25.1	721.1	13.0	76.3	-6.9	16.3	
2009	33.8	12.1	3.0	11.3	6.5	44.9	258.3	137.5	2.6	13.3	6.3	0.0	645.3	55.9	14.9	505.9	15.5				
2010	10.4	3.4	3.4	1.2	7.4	117.6	194.9	213.4	120.2	31.3	1.5	0.1	659.7	13.0	14.6	636.6	23.4	-8.8	43.4	-1.2	
2011	6.3	7.1	3.1	6.3	7.3	141.1	372.6	388.3	175.4	2.2	6.3	1.5	830.4	3.4	20.3	719.1	21.1	416.0	-8.3	-1.2	
2012	2.3	16.5	12.5	2.6	0.3	153.2	187.7	183.2	102.8	4.3	3.8	11.6	736.4	15.2	20.9	674.2	56.7	11.6	416.0	13.3	
2013	10.3	8.7	3.4	5.2	3.3	62.1	202.5	372.2	50.4	1.5	1.3	1.9	813.3	21.6	16.7	747.8	4.3	10.6	33.0	1.3	
2014	1.7	15.3	0.1	0.5	7.1	36.1	260.3	110.5	194.2	41.7	9.6	9.3	338.0	15.0	9.7	816.5	12.1	-8.0	10.0	-1.1	
2015	1.1	5.3	15.0	6.4	11.5	175.8	195.0	246.3	26.7	4.3	6.2	4.0	772.5	5.9	8.7	615.3	14.9	6.0	-6.9	-7.6	
2016	14.7	19.6	0.7	0.0	21.6	95.0	228.3	21.6	190.6	45.0	6.3	0.3	748.1	24.3	22.4	605.0	46.4	-5.3	422.0	-2.4	
2017	5.8	0.0	23.5	21.5	30.7	87.5	154.3	353.6	45.1	11.8	4.4	8.7	777.0	39.1	13.3	810.0	65.3	-15.0	431.3	6.2	
2018	4.1	17.3	8.4	16.0	16.3	18.3	333.2	146.5	43.9	15.4	6.1	2.6	568.0	15.4	25.9	559.8	19.1	-21.2	-1.1	-2.3	
2019	26.3	6.2	1.7	9.4	16.7	8.3	251.2	194.0	152.9	21.7	6.3	6.7	345.0	83.6	25.8	861.4	23.0	-0.4	-11.0	-2.0	
2020	12.5	0.0	31.2	10.3	23.8	15.1	259.7	357.2	165.3	11.8	1.3	1.3	872.6	13.5	24.3	381.5	14.3	18.0	-6.4	-11.4	
2021	2.0	7.8	6.4	11.4	5.6	124.8	367.6	179.7	124.1	1.8	0.0	27.8	315.3	19.3	28.2	236.0	31.6	5.0	-2.2	11.0	
2022	0.3	6.4	3.3	4.0	2.1	95.6	317.0	228.9	124.1	16.2	15.2	4.8	363.5	21.3	5.3	645.0	30.0	12.0	-0.7	11.0	
2023	19.2	6.1	1.6	7.0	8.1	180.3	310.6	163.0	109.7	15.4	0.6	6.0	636.8	7.7	10.3	212.5	24.4	4.0	3.0	11.0	
2024	1.2	4.3	2.7	6.6	4.2	150.0	171.4	258.5	213.6	12.8	3.4	93.7	183.5	11.5	9.0	505.9	15.3	26.4	44.0	4.4	

*1988-1998*

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann	JFM	MAJ	JJAS	OND	Ann	Rural	
1988	18.3	16.1	15.4	6.0	8.7	11.9	2292	2124	1554	60	1.0	0.7	2884	25.6	21.5	1882	2.0	1621	-56.8	13.46
1989	18.3	4.1	4.1	4.0	1.9	1.1	2211	2011	1879	423	0.7	0.0	1855	24.0	19.1	1345	45.0	1012	78.9	13.36
1990	18.3	18.0	18.7	9.2	6.0	11.0	248.0	2102	420	822	0.0	0.0	2021	11.0	9.7	674	83.0	1102	1.8	13.30
1991	2.1	15.1	1.1	1.3	1.1	4.0	232	162	183	324	0.0	0.0	1020	20.2	18.6	1304	23.2	1052	-12.1	13.28
1992	0.5	13.6	13.4	9.6	9.9	6.0	2116	2130	62	418	0.0	0.0	1162	17.9	15.0	614	9.12	1151	15.18	13.23
1993	2.0	2.1	1.3	1.7	1.1	11.3	1513	1212	100	123	0.0	0.0	1144	1.3	1.0	822	51.0	1232	73.0	13.18
1994	5.3	23.3	20.0	9.8	11.5	10.2	2212	182	122	123	0.0	0.0	1144	1.3	1.0	822	51.0	1232	73.0	13.18
1995	11.3	18.2	0.2	1.1	2.0	2.0	2012	2012	121	11.4	0.0	0.0	1144	1.3	1.0	822	51.0	1232	73.0	13.18
1996	6.9	17.7	0.0	1.5	2.4	12.4	2012	2012	143	20.5	12.5	18.0	1150	14.5	13.3	625	66.1	1146	146.2	11.9
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Year	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	Oct	Nov	Dec	Ann	OT	MAN	JVAS	OND	JVAS	OND	Annual	Rank
1827																					
1828	2.3	10.0	15.0	3.2	10.6	11.7	1.9	12.8	12.2	11.0	1.8	1.1	10.0	12.3	12.3	10.3	14.0	10.1	10.3	1.103	1.103
1829	7.2	9.1	8.6	3.6	12.8	15.3	15.0	11.2	16.0	16.1	2.1	0.9	10.0	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
1830	1.0	1.3	1.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1831	1.0	1.3	1.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1832	1.0	1.3	1.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1833	1.0	1.3	1.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1834	1.0	1.3	1.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1835	1.0	1.3	1.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1836	1.0	1.3	1.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1837	1.0	1.3	1.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1838	1.0	1.3	1.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1839	1.0	1.3	1.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1840	1.0	1.3	1.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1841	1.0	1.3	1.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1842	1.0	1.3	1.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1843	1.0	1.3	1.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1844	1.0	1.3	1.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1845	1.0	1.3	1.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1846	1.0	1.3	1.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1847	1.0	1.3	1.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1848	1.0	1.3	1.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1849	1.0	1.3	1.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1850	1.0	1.3	1.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
1851	1.0	1.3	1.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1

3/25/2018