

Historical Climate Data

Precipitation Summary

Station: 112193 DECATUR, IL

1971-2000 NCDC Normals

Element	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
Prec. (in)	2.05	1.95	3.20	3.58	4.47	3.90	4.54	4.14	2.98	2.74	3.32	2.87	39.74

Precipitation Extremes

Period of Record: 1893-2001

Month	High (in)	Year	Low (in)	Year	1-Day Max (in)	Date
Jan	7.47	1907	0.20	1931	2.25	01-03-1950
Feb	5.89	1900	0.14	1947	2.42	02-10-1939
Mar	9.85	1898	0.18	1999	4.25	03-27-1898
Apr	9.71	1957	0.59	1899	3.58	04-12-1979
May	12.57	1943	0.30	1934	4.22	05-19-1974
Jun	10.21	1974	0.53	1933	4.76	06-02-1965
Jul	16.72	1992	0.11	1916	5.11	07-26-1992
Aug	10.97	1981	0.22	1943	4.71	08-02-1978
Sep	16.56	1926	0.02	1979	4.66	09-18-1904
Oct	10.64	1941	0.18	1904	4.09	10-22-1983
Nov	9.07	1992	0.07	1904	3.70	11-02-1936
Dec	8.15	1967	0.21	1930	2.85	12-18-1895
Annual	60.58	1927	23.39	1894	5.11	07-26-1992
Winter	16.10	1950	1.71	1931	2.85	12-18-1895
Spring	20.20	1974	4.56	1934	4.25	03-27-1898
Summer	22.95	1981	2.76	1933	5.11	07-26-1992
Fall	25.83	1926	3.35	1956	4.66	09-18-1904

Precipitation Threshold Climatology

Derived from 1971-2000 Averages:

*Annual/seasonal totals may differ from the sum of the monthly totals due to rounding.

Month	# Days Total $\geq 0.01''$	# Days Total $\geq 0.10''$	# Days Total $\geq 0.50''$	# Days Total $\geq 1.00''$
Jan	9.0	4.9	1.3	0.3
Feb	7.9	4.3	1.2	0.4
Mar	10.5	7.1	2.1	0.5
Apr	11.2	7.2	2.6	0.8
May	10.8	7.1	3.1	1.2
Jun	9.9	6.7	3.0	1.2
Jul	9.2	6.3	3.1	1.3
Aug	7.7	5.5	3.0	1.3
Sep	7.4	4.9	2.2	0.8
Oct	7.9	5.0	1.9	0.7
Nov	9.4	6.4	2.4	0.7
Dec	10.1	5.6	2.0	0.5
Annual	110.8	70.8	27.8	9.8
Winter	26.9	14.8	4.4	1.2
Spring	32.5	21.3	7.8	2.6
Summer	26.7	18.5	9.2	3.8
Fall	24.8	16.3	6.4	2.2

Temperature Summary

Station 112193 DECATUR, IL

1971-2000 NCDC Normals

Element	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
High °F	34.5	40.5	52.6	65.3	76.1	84.5	87.8	85.8	79.9	67.8	52.0	39.2	63.8
Low °F	17.1	22.1	31.9	41.8	51.6	60.6	64.6	62.8	54.9	43.9	33.5	22.6	42.3
Mean °F	25.8	31.3	42.3	53.6	63.9	72.6	76.2	74.3	67.4	55.9	42.8	30.9	53.1
HDD	1215	943	706	350	139	10	0	11	54	305	668	1057	5458
CDD	0	0	0	7	104	237	348	299	125	22	0	0	1142

HDD - heating degree days (base 65F); CDD - cooling degree days (base 65F)

Temperature Extremes

Period of Record: 1893-2001

Month	High Mean °F	Year	Low Mean °F	Year	1-Day Max °F	Date	1-Day Min °F	Date
Jan	39.5	1933	11.0	1977	73	01-24-1909	-23	01-17-1977
Feb	41.1	1998	18.3	1978	76	02-29-1972	-25	02-13-1905
Mar	54.3	1946	27.4	1960	89	03-24-1929	-10	03-05-1978
Apr	61.3	1896	43.0	1907	98	04-30-1895	M	04-0-0000
May	71.5	1962	56.5	1907	101	05-31-1934	M	05-0-0000
Jun	80.7	1934	66.3	1903	105	06-30-1931	32	06-06-1894
Jul	84.1	1936	72.2	1971	113	07-14-1954	45	07-02-1904
Aug	82.6	1947	68.8	1927	106	08-09-1934	35	08-29-1986
Sep	74.9	1931	60.5	1918	104	09-05-1954	20	09-30-1899
Oct	66.5	1963	46.5	1925	96	10-02-1953	12	10-30-1925
Nov	52.5	1931	34.4	1976	83	11-01-1933	-3	11-30-1929
Dec	41.2	1931	17.7	1983	72	12-01-1970	-22	12-24-1983
Annual	57.6	1931	48.8	1997	113	07-14-1954	-25	02-13-1905
Winter	39.2	1932	21.0	1978	76	02-29-1972	-25	02-13-1905
Spring	58.4	1977	47.8	1960	101	05-31-1934	-10	03-05-1978
Summer	79.8	1934	70.7	1927	113	07-14-1954	32	06-06-1994
Fall	62.7	1931	50.0	1976	104	09-05-1954	-3	11-30-1929

Temperature Threshold Climatology

Derived from 1971-2000 Averages:

*Annual/seasonal values may differ from the sum of the monthly values due to rounding.

Month	# Days High $\geq 90^{\circ}\text{F}$	# Days High $\leq 32^{\circ}\text{F}$	# Days Low $\leq 32^{\circ}\text{F}$	# Days Low $\leq 0^{\circ}\text{F}$
Jan	0.0	13.3	27.9	4.3
Feb	0.0	7.3	22.2	2.6
Mar	0.0	1.6	16.7	0.1
Apr	0.0	0.0	5.3	0.0
May	1.9	0.0	0.4	0.0
Jun	7.6	0.0	0.0	0.0
Jul	12.3	0.0	0.0	0.0
Aug	7.8	0.0	0.0	0.0
Sep	3.7	0.0	0.2	0.0
Oct	0.1	0.0	4.5	0.0
Nov	0.0	1.2	15.0	0.0
Dec	0.0	7.2	24.9	1.6
Annual	32.9	30.6	117.8	8.7
Winter	0.0	27.8	75.1	8.6
Spring	1.9	1.6	22.7	0.1
Summer	27.5	0.0	0.0	0.0
Fall	4.0	1.2	19.5	0.0

Snowfall Summary

Station: 112193 DECATUR, IL

1971-2000 Averages

Element	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
Snow (in)	7.7	4.9	2.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	1.1	5.4	21.9

Snowfall Extremes

Period of Record: 1893-2001

Month	High (in)	Year	1-Day Max (in)	Date
Jan	25.0	1979	10.0	01-13-1927
Feb	18.0	1914	8.0	02-16-1903
Mar	30.5	1906	13.5	03-19-1906
Apr	11.0	1920	4.0	04-05-1920
May	12.2	1929	8.2	05-03-1929
Jun	0.0	-	-	-
Jul	0.0	-	-	-
Aug	0.0	-	-	-
Sep	0.0	-	-	-
Oct	4.0	1929	4.0	10-23-1929
Nov	13.5	1951	11.0	11-06-1951
Dec	30.5	1973	10.0	12-20-1973
Season (Jul-Jun)	49.7	1981-1982	13.5	03-19-1906

Snowfall Threshold Climatology

Derived from 1971-2000 Averages

*Annual values may differ from the sum of the monthly values due to rounding.

Month	# Days			
	Total ≥ 0.1"	Total ≥ 1.0"	Total ≥ 2.0"	Total ≥ 5.0"
Jan	2.8	1.7	1.0	0.3
Feb	2.8	1.7	1.0	0.3
Mar	1.2	0.9	0.6	0.1
Apr	0.3	0.1	0.1	0.0
May	0.0	0.0	0.0	0.0
Jun	0.0	0.0	0.0	0.0
Jul	0.0	0.0	0.0	0.0

Aug	0.0	0.0	0.0	0.0
Sep	0.0	0.0	0.0	0.0
Oct	0.0	0.0	0.0	0.0
Nov	0.5	0.4	0.3	0.0
Dec	2.8	1.9	1.0	0.2
Annual	11.7	7.3	4.3	0.9

Growing Season Summary

Station: 112193 DECATUR, IL

Growing Degree Day Averages

Derived from 1971-2000 Data

Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
40	16	48	172	416	735	980	1121	1071	824	494	175	39	5906
45	5	20	98	286	581	830	967	916	674	352	101	17	4700
50	1	7	51	177	430	681	812	762	527	229	52	7	3619
55	0	1	23	95	289	531	658	607	383	133	22	2	2660
60	0	0	8	44	170	383	504	453	252	63	7	0	1826
50**	8	28	107	256	467	656	761	727	538	308	99	21	3856

**Modified Growing Degree Days: Base 50, Ceiling 86.

Growing Season Summary

Derived from 1971-2000 Averages

Temp °F	Date of Last Spring Occurrence					Date of First Fall Occurrence				
	Median	Early	90%	10%	Late	Median	Early	90%	10%	Late
32	4/22	3/29	4/06	5/10	5/25	10/10	9/20	9/25	10/24	11/04
30	4/10	3/26	4/05	5/07	5/12	10/13	9/21	10/01	10/26	11/04
28	4/09	3/20	3/31	4/20	5/07	10/21	10/03	10/07	11/05	11/13
24	4/05	3/05	3/16	4/12	4/18	11/03	10/08	10/15	11/17	11/30
20	3/20	2/08	3/05	4/08	4/10	11/13	10/12	10/25	12/06	12/20
16	3/10	2/08	2/18	3/26	4/07	11/22	11/03	11/07	12/19	12/30

Length of Growing Season (Days)

Derived from 1971-2000 Averages

Temp °F	Median	Shortest	10%	90%	Longest
32	171	136	145	198	204
30	183	149	155	204	212
28	193	170	173	215	221
24	212	187	194	237	260
20	234	191	214	266	288
16	260	222	231	289	311

[Back to the Station List](#)

Copyright ©2002 Illinois State Water Survey
Jim Angel, State Climatologist
Last Modified: September 11, 2002