

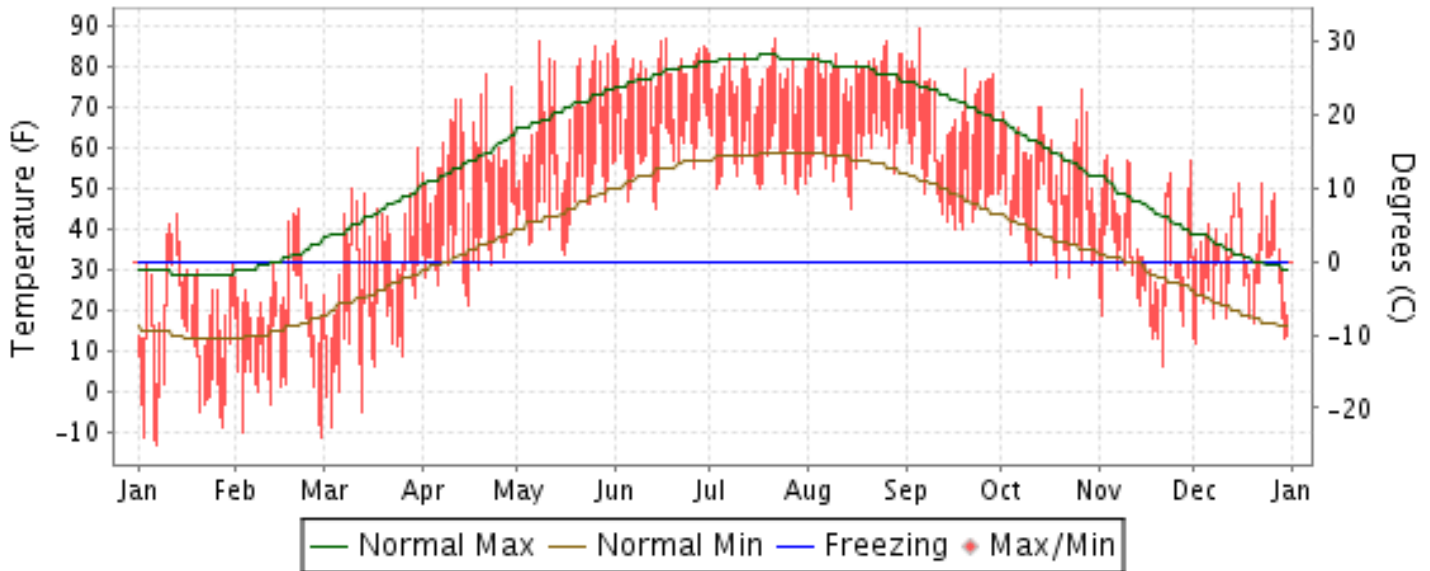


2014 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

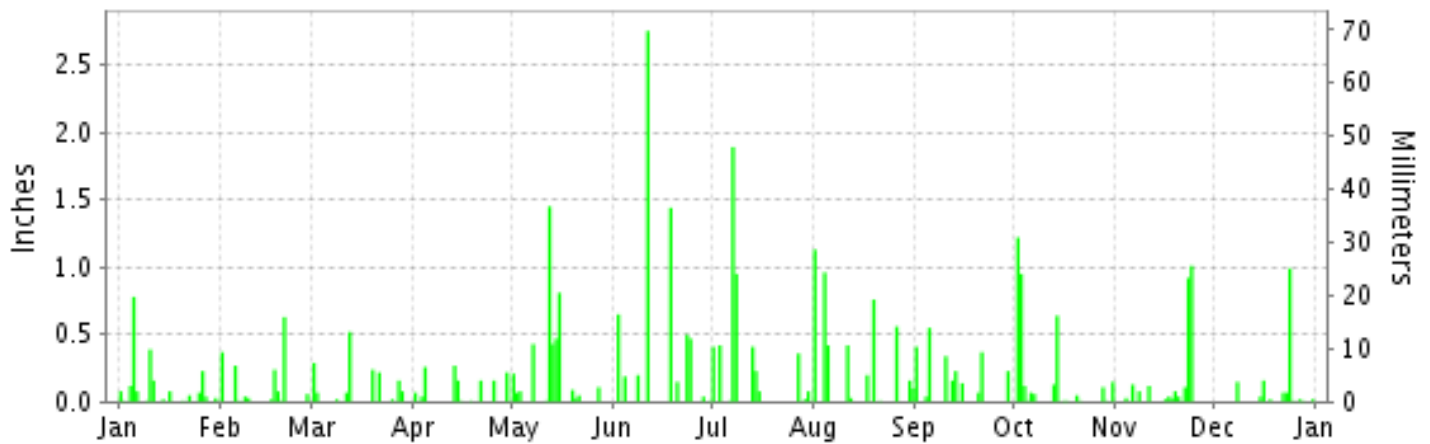
ISSN 0198-2613

LANSING, MICHIGAN (KLAN)

Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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NATIONAL
OCEANIC AND
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NATIONAL
ENVIRONMENTAL SATELLITE, DATA
AND INFORMATION SERVICE

NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2014

LANSING (KLAN)

LATITUDE: 42° 46'N LONGITUDE: 84° 34'W ELEVATION (FT): GRND: 841 BARO: 882 TIME ZONE: EASTERN (UTC -5) WBAN: 14836

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	23.4	24.7	35.5	58.9	69.6	78.7	77.3	79.5	71.6	59.1	40.9	37.1	54.7	
	HIGHEST DAILY MAXIMUM	44	45	60	78	86	87	87	86	89	74	58	51	89	
	DATE OF OCCURRENCE	13	21	31	21	08	17	22	26	05	27	04	23+	SEP 05	
	MEAN DAILY MINIMUM	7.6	8.6	16.0	35.0	47.3	59.0	57.0	59.4	50.1	40.1	26.9	26.1	36.1	
	LOWEST DAILY MINIMUM	-13	-11	-9	21	34	45	49	45	40	28	6	12	-13	
	DATE OF OCCURRENCE	07	28	03	16	16	14	29	15	19+	23+	21	02	JAN 07	
	AVERAGE DRY BULB	15.5	16.7	25.7	47.0	58.4	68.9	67.1	69.4	60.9	49.6	33.9	31.6	45.4	
	MEAN WET BULB	14.6	15.3	23.7	40.0	52.5	62.3	61.0	63.5	55.9	46.2	31.2	29.6	41.3	
	MEAN DEW POINT	9.3	9.1	16.7	30.9	46.6	57.6	56.6	59.9	52.3	41.8	25.6	25.3	36.0	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	MAXIMUM <= 32°	26	23	13	0	0	0	0	0	0	0	10	8	80	
MINIMUM <= 32°	30	28	29	11	0	0	0	0	0	8	21	22	149		
MINIMUM <= 0°	12	5	4	0	0	0	0	0	0	0	0	0	21		
H/C	HEATING DEGREE DAYS	1529	1349	1210	534	234	24	29	11	160	470	926	1029	7505	
	COOLING DEGREE DAYS	0	0	0	0	39	147	104	155	43	0	0	0	488	
RH	MEAN (PERCENT)	74	70	67	58	66	70	70	75	76	75	72	78	71	
	HOUR 01 LST	77	75	73	68	79	79	85	86	87	83	74	81	79	
	HOUR 07 LST	76	78	76	66	72	74	79	83	86	85	76	82	78	
	HOUR 13 LST	67	61	56	43	55	57	52	59	58	60	64	70	59	
	HOUR 19 LST	75	67	64	54	58	65	63	75	77	75	73	77	69	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	5	6	0	1	0	4	4	2	4	3	1	0	30	
	THUNDERSTORMS	0	0	0	0	5	4	3	4	1	1	0	0	18	
PR	MEAN STATION PRESS. (IN.)	28.99	29.10	29.11	29.02	29.06	29.03	29.05	29.08	29.15	28.97	29.05	29.21	29.07	
	MEAN SEA-LEVEL PRESS. (IN.)	29.98	30.06	30.08	29.97	30.00	29.96	29.98	30.01	30.10	29.91	30.00	30.18	30.02	
WINDS	RESULTANT SPEED (MPH)	6.6	5.0	1.9	1.4	2.7	2.3	3.9	0.5	2.1	3.7	7.5	3.7	3.3	
	RES. DIR. (TENS OF DEGS.)	23	24	25	22	24	18	25	24	24	24	23	25	24	
	MEAN SPEED (MPH)	11.8	9.7	9.2	10.0	8.3	7.2	6.9	5.9	6.2	8.3	11.1	9.0	8.6	
	PREVAIL.DIR.(TENS OF DEGS.)	22	27	27	08	25	18	27	06	29	27	21	27	21	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	31	41	31	35	33	41	26	35	31	36	36	31	41	
	DIR. (TENS OF DEGS.)	20	25	26	25	20	32	32	28	25	26	24	25	32	
	DATE OF OCCURRENCE	24	21	28	14	09	18	27	26	05	08	24	27	JUN 18	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	43	53	39	49	44	57	36	47	45	46	48	38	57	
DIR. (TENS OF DEGS.)	22	25	25	22	21	31	21	27	25	26	24	26	31		
DATE OF OCCURRENCE	15	21	28	13	09	18	13	19	05	08	24	27	JUN 18		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	2.16	1.76	1.69	1.36	4.24	6.40	4.86	4.75	2.54	3.55	2.61	1.56	37.48	
	GREATEST 24-HOUR (IN.)	0.84	0.63	0.59	0.40	1.46	2.75	1.90	1.38	0.55	2.13	1.93	0.99	2.75	
	DATE OF OCCURRENCE	04-05	20	11-12	13-14	11-12	11	06-07	04-05	05	02-03	23-24	24	JUN 11	
	NUMBER OF DAYS WITH:														
PRECIPITATION 0.01	16	11	10	10	13	10	11	11	10	15	12	11	140		
PRECIPITATION 0.10	5	4	5	6	7	8	7	9	8	7	5	3	74		
PRECIPITATION 1.00	0	0	0	0	1	2	1	1	0	1	1	0	7		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	23.5	18.0	10.4	0.7	0.0	0.0	0.0	0.0	0.0	T	6.2	1.5	60.3	
	GREATEST 24-HOUR (IN.)	9.5	5.0	6.3	0.4	0.0	0.0	0.0	0.0	0.0	T	2.9	0.7	9.5	
	DATE OF OCCURRENCE	05	05	12	14						31	19	08	JAN 05	
	MAXIMUM SNOW DEPTH (IN.)	17	19	16	1	0	0	0	0	0	0	5	T	19	
	DATE OF OCCURRENCE	08+	19+	13+	15							21+	31+	FEB 19+	
	NUMBER OF DAYS WITH:														
SNOWFALL >= 1.0	7	4	2	0	0	0	0	0	0	0	2	0	15		

NORMALS, MEANS, AND EXTREMES LANSING (KLAN)

LATITUDE:
42° 46'N

LONGITUDE:
84° 34'W

ELEVATION (FT):
GRND: 841 BARO: 882

TIME ZONE:
EASTERN (UTC -5)

WBAN: 14836

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	30.1	33.3	44.1	57.8	68.8	78.4	82.4	80.1	72.7	59.9	46.7	34.3	57.4
	MEAN DAILY MAXIMUM	62	29.7	32.3	42.9	57.0	69.0	78.4	82.5	80.4	72.7	60.4	46.4	34.2	57.2
	HIGHEST DAILY MAXIMUM	56	66	69	86	86	94	99	103	100	97	89	77	69	103
	YEAR OF OCCURRENCE		1967	1999	2012	2002	1977	1988	2012	1988	1973	1963	1975	2001	JUL 2012
	MEAN OF EXTREME MAXS.	63	49.7	50.7	67.8	78.7	85.0	91.0	92.8	91.8	87.7	79.1	66.4	54.2	74.6
	NORMAL DAILY MINIMUM	30	16.8	18.5	26.0	37.0	46.7	56.7	60.6	59.4	51.2	40.7	32.4	22.3	39.0
	MEAN DAILY MINIMUM	62	14.9	16.1	24.4	35.3	45.5	55.3	59.1	57.6	49.9	39.7	30.7	20.8	37.4
	LOWEST DAILY MINIMUM	56	-29	-25	-15	-2	19	30	37	35	22	15	4	-18	-29
	YEAR OF OCCURRENCE		1981	1994	1978	1982	1966	1966	1972	1976	1991	1966	1976	2002	JAN 1981
	MEAN OF EXTREME MINS.	63	-7.3	-4.9	3.8	19.7	30.0	39.9	45.3	43.2	33.8	24.2	14.7	-0.1	20.2
	NORMAL DRY BULB	30	23.4	25.9	35.1	47.4	57.7	67.6	71.5	69.8	61.9	50.3	39.6	28.3	48.2
	MEAN DRY BULB	62	22.3	24.3	33.6	46.2	57.3	67.0	70.8	69.0	61.3	50.0	38.6	27.5	47.3
	MEAN WET BULB	31	20.7	22.0	29.3	39.3	50.0	59.3	63.2	62.3	55.2	44.4	34.3	25.4	42.1
	MEAN DEW POINT	31	19.2	20.3	27.4	37.0	48.0	57.5	61.8	61.2	53.7	42.8	32.8	24.0	40.5
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.0	0.0	1.7	3.3	1.7	0.3	0.0	0.0	0.0	7.0
	MAXIMUM <= 32	30	18.1	12.9	4.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	2.3	12.8	51.0
MINIMUM <= 32	30	27.6	24.7	22.3	9.2	1.1	0.0	0.0	0.0	0.3	5.2	15.3	25.4	131.1	
MINIMUM <= 0	30	4.0	2.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	7.6	
H/C	NORMAL HEATING DEG. DAYS	30	1288	1095	929	534	259	55	11	24	153	462	764	1138	6712
	NORMAL COOLING DEG. DAYS	30	0	0	1	6	34	132	213	171	61	7	0	0	625
RH	NORMAL (PERCENT)	30	80	77	74	69	69	71	73	77	78	76	79	81	75
	HOURLY 01 LST	30	83	82	81	78	80	83	87	90	89	85	83	84	84
	HOURLY 07 LST	30	84	84	84	81	81	83	87	92	92	88	86	85	86
	HOURLY 13 LST	30	75	71	64	58	56	57	58	61	61	63	70	76	64
	HOURLY 19 LST	30	79	75	69	61	58	59	61	67	73	75	78	81	70
S	PERCENT POSSIBLE SUNSHINE	42	36	44	49	52	61	65	69	64	59	50	31	29	51
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	51	1.8	1.9	2.1	0.9	1.0	1.0	1.1	1.9	1.9	1.6	1.8	2.4	19.4
	THUNDERSTORMS	62	0.3	0.2	1.5	3.2	4.3	6.2	6.2	5.6	3.8	1.5	1.0	0.3	34.1
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS)	42	6.3	5.9	5.8	5.5	5.1	4.8	4.5	4.5	4.8	5.1	6.2	6.4	5.4
	MIDNIGHT-MIDNIGHT (OKTAS)	32	6.2	5.7	5.3	5.2	4.8	4.4	4.2	4.1	4.4	4.8	6.0	6.2	5.1
	MEAN NO. DAYS WITH: CLEAR	42	3.2	4.2	5.2	5.9	7.0	7.2	8.0	8.4	7.9	7.1	3.6	2.8	70.5
	PARTLY CLOUDY	42	6.6	6.9	7.8	7.1	9.8	11.3	13.2	11.8	9.5	8.6	5.7	5.6	103.9
	CLOUDY	42	21.2	17.2	18.0	17.0	14.2	11.5	9.8	10.8	12.7	15.3	20.7	22.6	191.0
PR	MEAN STATION PRESSURE(IN)	31	29.08	29.10	29.10	29.03	29.05	29.04	29.07	29.07	29.12	29.07	29.10	29.11	29.08
	MEAN SEA-LEVEL PRES. (IN)	31	30.06	30.07	30.06	29.98	29.98	29.96	29.99	30.03	30.05	30.05	30.06	30.07	30.03
WINDS	MEAN SPEED (MPH)	31	10.6	10.2	10.1	10.2	9.0	7.9	7.2	6.7	7.2	8.6	10.0	10.1	9.0
	PREVAIL.DIR(TENS OF DEGS)	40	23	28	28	28	28	28	27	20	20	21	22	23	23
	MAXIMUM 2-MINUTE: SPEED (MPH)	18	45	41	45	44	44	49	41	43	40	43	49	40	49
	DIR. (TENS OF DEGS)		26	25	25	26	21	26	29	28	24	25	23	25	26
	YEAR OF OCCURRENCE		2008	2014	2002	1997	1999	2008	2003	2006	2010	2002	1998	2008	JUN 2008
	MAXIMUM 3-SECOND SPEED (MPH)	18	61	53	59	53	56	62	58	59	51	54	62	63	63
	DIR. (TENS OF DEGS)		22	25	23	23	23	25	35	27	24	20	26	26	26
	YEAR OF OCCURRENCE		2013	2014	2002	2009	2011	2008	2012	2006	2010	2001	2003	2008	DEC 2008
PRECIPITATION	NORMAL (IN)	30	1.65	1.47	2.06	3.03	3.36	3.45	2.84	3.23	3.50	2.53	2.78	1.87	31.77
	MAXIMUM MONTHLY (IN)	63	4.39	4.21	4.36	7.87	10.44	10.21	6.43	9.81	8.34	5.69	5.62	4.70	10.44
	YEAR OF OCCURRENCE		2005	1954	1974	2013	2004	1986	1992	1975	1986	2001	2003	1949	MAY 2004
	MINIMUM MONTHLY (IN)	63	0.24	0.22	0.17	0.68	0.62	0.20	0.50	0.17	T	0.28	0.38	0.37	0.17
	YEAR OF OCCURRENCE		2003	1969	2001	2004	1977	1988	1965	1969	1979	1956	2012	1960	MAR 2001
	MAXIMUM IN 24 HOURS (IN)	63	1.60	2.40	1.59	2.73	3.28	5.01	2.39	3.75	3.43	3.46	2.47	1.62	5.01
	YEAR OF OCCURRENCE		2005	1954	1954	1993	1989	1986	2011	1975	1981	1981	1990	1970	JUN 1986
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	13.4	10.6	11.2	12.1	11.6	10.3	9.5	9.9	10.7	10.9	12.7	13.9	136.8
	PRECIPITATION >= 1.00	30	0.1	0.1	0.2	0.4	0.6	0.8	0.6	0.8	0.9	0.2	0.5	0.0	5.2
SNOWFALL	NORMAL (IN)	30	13.8	11.6	7.0	1.9	0.0	0.0	0.0	0.0	0.0	0.4	3.4	13.0	51.1
	MAXIMUM MONTHLY (IN)	57	34.6	29.1	19.8	17.0	0.3	T	T	0.0	T	7.5	16.8	33.5	34.6
	YEAR OF OCCURRENCE		1999	2011	1971	1970	1994	2010	2004		1994	1967	1966	2000	JAN 1999
	MAXIMUM IN 24 HOURS (IN)	57	20.4	9.0	15.5	17.0	0.3	T	T	0.0	T	7.5	11.0	15.1	20.4
	YEAR OF OCCURRENCE		1967	1965	1973	1970	1994	2010	2004		1994	1967	1951	1970	JAN 1967
	MAXIMUM SNOW DEPTH (IN)	59	24	23	17	13	0	0	0	0	0	4	11	20	24
	YEAR OF OCCURRENCE		1978	1978	1973	1975						1967	1951	1951	JAN 1978
	NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	4.5	3.4	2.3	0.6	0.0	0.0	0.0	0.0	0.0	0.2	1.1	4.2	16.3

PRECIPITATION (inches) 2014 LANSING (KLAN)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1985	2.04	3.03	3.53	2.90	2.14	2.17	3.06	4.36	3.34	3.25	3.08	1.29	34.19
1986	0.89	2.62	1.56	1.96	1.97	10.21	1.69	2.88	8.34	2.66	1.21	1.13	37.12
1987	1.00	0.35	0.97	1.58	1.37	3.30	3.35	5.64	4.88	1.77	2.89	3.40	30.50
1988	1.53	1.10	1.52	3.95	0.63	0.20	2.56	5.08	5.97	3.35	4.26	1.26	31.41
1989	1.15	0.67	2.13	1.44	6.57	3.61	0.93	4.90	3.49	1.29	3.65	0.86	30.69
1990	1.55	2.65	1.40	2.36	3.43	2.50	3.61	2.40	4.00	5.58	5.40	2.79	37.67
1991	1.28	0.79	3.76	4.41	1.75	2.60	2.41	3.83	1.05	3.80	3.02	2.13	30.83
1992	1.38	1.36	2.68	4.64	2.09	2.07	6.43	2.79	3.21	2.18	3.88	2.16	34.87
1993	3.22	1.17	1.74	4.86	1.37	6.50	2.94	3.80	4.80	2.99	1.39	0.70	35.48
1994	1.87	1.10	1.95	3.60	1.12	5.54	3.90	5.30	2.99	2.63	3.87	1.55	35.42
1995	2.34	1.18	2.01	2.85	2.83	0.95	2.04	2.87	1.06	2.55	3.37	1.05	25.10
1996	1.26	0.78	1.02	3.58	3.39		1.82	3.71	2.41	2.73	1.59	2.58	
1997	1.24	3.83	2.07	1.69	3.19	1.74	2.22	3.92	3.10	1.66	1.39	0.89	26.94
1998	3.34	2.15	3.97	2.62	1.58	3.45	2.15	2.62	1.55	2.40	1.63	1.53	28.99
1999	2.63	1.06	0.94	5.79	1.66	4.53	3.64	2.41	2.04	1.22	1.10	1.84	28.86
2000	1.07	1.00	1.21	3.30	6.98	1.96	2.63	2.81	6.16	1.73	2.26	1.06	32.17
2001	0.65	2.79	0.17	2.68	6.07	3.64	1.25	2.43	3.23	5.69	2.25	1.13	31.98
2002	0.98	1.37	1.67	2.29	3.56	1.67	4.37	1.94	0.65	1.21	1.43	0.79	21.93
2003	0.24	0.32	1.57	2.82	3.97	1.88	1.81	1.27	2.06	1.84	5.62	1.43	24.83
2004	0.91	0.55	3.35	0.68	10.44	3.08	3.80	3.19	1.02	1.92	4.02	1.84	34.80
2005	4.39	2.02	1.35	1.05	1.72	5.49	5.76	0.74	2.78	0.57	4.53	1.91	32.31
2006	4.14	1.72	2.64	1.82	4.74	1.60	4.05	3.41	3.07	2.95	3.75	3.07	36.96
2007	2.13	0.47	2.66	3.37	3.49	3.09	0.71	6.42	1.86	3.36	1.35	2.43	31.34
2008	2.81	2.67	2.38	2.16	1.29	4.89	3.15	1.38	8.22	2.12	1.69	3.80	36.56
2009	1.05	2.32	3.08	6.49	4.08	4.45	2.92	6.44	0.69	4.08	0.99	1.52	38.11
2010	0.86	1.35	0.45	2.49	4.18	4.57	2.00	0.44	4.86	2.82	2.08	1.65	27.75
2011	0.88	2.36	2.94	5.21	6.81	1.85	4.76	3.45	2.09	3.08	3.24	2.22	38.89
2012	2.02	1.59	2.78	2.55	2.28	1.89	1.75	3.85	2.88	4.46	0.38	1.98	28.41
2013	3.44	1.78	0.96	7.87	3.95	8.40	1.75	4.77	0.98	3.55	2.13	1.88	41.46
2014	2.16	1.76	1.69	1.36	4.24	6.40	4.86	4.75	2.54	3.55	2.61	1.56	37.48
POR= 62 YRS	1.78	1.56	2.22	3.02	3.02	3.56	2.76	3.18	3.04	2.34	2.53	2.11	31.12

WBAN : 14836

AVERAGE TEMPERATURE (°F) 2014 LANSING (KLAN)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1985	17.8	20.2	36.0	51.1	59.3	63.3	70.5	67.2	63.0	50.7	39.0	21.2	46.6
1986	21.9	21.1	36.0	49.2	58.1	64.6	72.3	65.4	62.6	50.3	35.0	29.9	47.2
1987	24.7	29.0	37.5	49.2	62.4	70.6	74.6	69.4	62.3	44.7	41.5	31.7	49.8
1988	20.6	19.9	34.0	46.5	59.7	68.1	74.6	72.6	61.2	44.1	40.7	27.1	47.4
1989	30.9	19.9	32.5	43.6	55.1	65.8	71.3	68.4	59.8	50.7	33.6	15.8	45.6
1990	31.8	26.8	37.0	47.8	54.1	66.5	69.3	68.4	62.1	49.7	42.5	29.2	48.8
1991	20.9	29.4	37.6	50.2	63.7	69.3	71.4	69.3	58.6	51.9	35.5	28.8	48.9
1992	25.9	29.5	32.2	43.4	56.2	63.3	66.1	63.9	58.8	47.3	37.7	30.8	46.3
1993	25.7	20.9	32.4	44.7	57.6	65.1	72.1	70.5	56.5	47.8	36.9	27.5	46.5
1994	14.1	18.1	33.5	47.5	54.8	67.3	70.4	65.5	62.4	50.8	41.7	31.6	46.5
1995	25.5	21.2	35.9	42.0	55.3	67.6	71.3	74.2	58.5	52.0	31.9	23.3	46.6
1996	21.6	24.2	28.4	42.6	55.1	67.3	66.6	69.5	60.3	49.6	32.6	28.4	45.5
1997	21.1	26.3	34.0	42.7	48.3	66.3	68.7	64.5	59.6	47.7	34.8	30.0	45.3
1998	29.7	33.7	35.6	46.8	62.5	65.9	70.0	70.4	64.4	51.2	41.0	31.9	50.3
1999	20.1	30.1	30.4	47.7	59.2	69.0	73.1	65.7	61.4	48.2	42.1	29.1	48.0
2000	20.7	29.8	41.0	44.2	59.2	66.1	66.7	68.2	60.2	53.0	37.7	15.6	46.9
2001	24.7	26.5	31.9	48.9	59.2	66.3	69.7	70.8	58.7	49.9	46.4	34.2	48.9
2002	30.7	29.8	31.5	47.2	51.8	68.6	73.2	69.3	64.6	46.4	36.4	26.9	48.0
2003	17.7	20.0	32.4	45.3	53.9	63.5	69.0	69.7	60.9	48.2	41.2	30.7	46.0
2004	16.5	23.3	38.8	48.2	58.3	65.0	69.0	65.1	64.7	51.3	40.4	28.2	47.4
2005	21.8	28.2	30.8	50.2	54.7	72.7	72.8	72.9	66.8	52.6	41.8	25.6	49.2
2006	33.2	25.5	35.8	50.3	58.2	66.6	73.7	69.8	59.1	46.4	40.9	34.8	49.5
2007	26.4	17.3	39.4	44.7	60.5	68.9	70.3	71.4	64.5	56.5	37.6	27.2	48.7
2008	26.3	21.5	31.9	50.2	54.7	68.2	71.1	69.0	63.4	48.4	37.6	25.5	47.3
2009	15.7	27.0	36.8	46.7	57.2	66.1	66.6	68.2	62.2	47.7	43.3	27.4	47.1
2010	22.8	25.4	39.6	52.5	60.7	68.7	74.7	74.0	61.7	52.2	40.6	24.4	49.8
2011	19.2	24.4	32.6	45.4	59.1	67.9	76.2	70.1	60.8	51.6	43.1	33.0	48.6
2012	28.5	30.6	49.3	46.9	62.7	69.8	77.8	70.2	61.8	50.3	38.6	33.5	51.7
2013	26.7	24.7	30.9	44.2	61.5	67.4	71.6	69.2	61.7	51.9	36.7	24.4	47.6
2014	15.5	16.7	25.7	47.0	58.4	68.9	67.1	69.4	60.9	49.6	33.9	31.6	45.4
POR= 62 YRS	22.3	24.3	33.6	46.2	57.3	67.0	70.8	69.0	61.3	50.0	38.6	27.5	47.3

HEATING DEGREE DAYS (base 65°F) 2014 LANSING (KLAN)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1985-86	12	26	168	438	772	1350	1330	1224	893	480	237	77	7007
1986-87	11	63	125	451	895	1079	1240	1005	846	469	188	23	6395
1987-88	16	38	124	621	700	1026	1371	1301	955	547	199	74	6972
1988-89	7	35	147	644	721	1165	1049	1255	999	637	320	53	7032
1989-90	6	28	199	437	934	1520	1023	1062	869	546	336	55	7015
1990-91	22	20	154	484	667	1102	1359	990	841	449	171	30	6289
1991-92	7	13	244	407	877	1114	1207	1023	1007	642	294	95	6930
1992-93	33	88	224	543	813	1050	1215	1231	1003	604	234	81	7119
1993-94	3	22	264	533	835	1158	1574	1307	973	535	331	62	7597
1994-95	1	61	121	432	692	1027	1216	1221	895	682	295	49	6692
1995-96	22	1	225	405	985	1285	1340	1180	1130	663	331	28	7595
1996-97	38	8	174	472	966	1130	1352	1075	953	661	513	57	7399
1997-98	23	70	175	538	898	1079	1090	871	916	540	122	119	6441
1998-99	11	11	95	429	715	1017	1385	971	1065	515	202	58	6474
1999-00	7	48	148	515	681	1106	1367	1014	738	619	217	71	6531
2000-01	38	38	204	371	816	1526	1241	1069	1020	477	199	81	7080
2001-02	29	4	221	461	553	948	1056	981	1031	552	420	52	6308
2002-03	6	18	105	586	852	1175	1459	1255	1008	595	340	91	7490
2003-04	5	9	164	515	707	1056	1497	1203	803	504	230	81	6774
2004-05	13	72	78	417	730	1135	1330	1023	1053	442	317	15	6625
2005-06	5	5	52	409	690	1216	981	1101	898	433	263	36	6089
2006-07	3	8	184	569	714	929	1191	1329	788	604	188	28	6535
2007-08	18	22	107	306	814	1166	1193	1255	1017	440	323	31	6692
2008-09	9	14	91	511	815	1218	1522	1059	868	549	248	65	6969
2009-10	32	34	107	530	643	1158	1304	1104	779	378	205	26	6300
2010-11	5	3	143	392	725	1250	1414	1129	1000	584	227	30	6902
2011-12	0	3	191	413	649	983	1124	993	501	536	139	43	5575
2012-13	0	12	153	457	785	969	1181	1121	1048	615	173	50	6564
2013-14	16	19	156	411	844	1251	1529	1349	1210	534	234	24	7577
2014-	29	11	160	470	926	1029							

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COOLING DEGREE DAYS (base 65°F) 2014 LANSING (KLAN)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1985	0	0	0	32	31	50	189	100	116	0	0	0	518
1986	0	0	0	10	31	68	246	83	59	0	0	0	497
1987	0	0	0	0	114	199	322	181	48	0	1	0	865
1988	0	0	0	0	41	173	307	277	41	4	0	0	843
1989	0	0	0	0	22	85	209	138	49	1	0	0	504
1990	0	0	6	37	7	106	163	134	74	14	0	0	541
1991	0	0	0	14	139	165	213	151	59	9	0	0	750
1992	0	0	0	2	28	48	74	62	45	1	0	0	260
1993	0	0	0	0	13	92	228	200	13	5	0	0	551
1994	0	0	0	15	22	135	177	85	50	0	0	0	484
1995	0	0	0	0	4	133	222	292	35	8	0	0	694
1996	0	0	0	0	30	105	96	152	41	0	0	0	424
1997	0	0	0	0	0	102	145	60	18	9	0	0	334
1998	0	0	11	0	52	153	173	185	81	7	0	0	662
1999	0	0	0	3	30	182	265	76	48	0	0	0	604
2000	0	0	3	0	44	109	98	145	66	3	0	0	468
2001	0	0	0	1	26	128	183	193	38	3	0	0	572
2002	0	0	0	26	16	167	266	158	99	16	0	0	748
2003	0	0	0	8	0	56	137	163	45	0	0	0	409
2004	0	0	0	7	33	88	143	83	77	0	0	0	431
2005	0	0	0	5	8	253	255	252	112	31	0	0	916
2006	0	0	0	1	59	95	279	165	14	0	0	0	613
2007	0	0	2	0	54	154	190	226	99	48	0	0	773
2008	0	0	0	1	11	132	203	145	49	1	0	0	542
2009	0	0	0	5	11	102	90	140	31	0	0	0	379
2010	0	0	0	10	78	143	312	289	52	0	0	0	884
2011	0	0	0	0	53	122	353	167	69	3	0	0	767
2012	0	0	23	0	73	191	403	180	65	5	0	0	940
2013	0	0	0	0	73	133	226	156	63	10	0	0	661
2014	0	0	0	0	39	147	104	155	43	0	0	0	488

SNOWFALL (inches) 2014 LANSING (KLAN)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1985-86	0.0	0.0	0.0	0.0	3.7	16.4	12.5	23.7	4.9	T	0.0	0.0	61.2
1986-87	0.0	0.0	0.0	T	4.1	6.8	16.8	1.4	5.7	2.5	0.0	0.0	37.3
1987-88	0.0	0.0	0.0	0.5	T	12.9	9.7	18.7	4.9	1.2	0.0	0.0	47.9
1988-89	0.0	0.0	0.0	T	3.8	8.5	7.2	13.5	4.4	2.5	0.0	0.0	39.9
1989-90	0.0	0.0	T	3.9	11.8	10.2	3.6	21.3	5.0	0.6	T	0.0	56.4
1990-91	0.0	0.0	0.0	0.0	0.1	12.9	13.8	6.5	2.8	0.1	0.0	0.0	36.2
1991-92	0.0	0.0	0.0	1.3	3.8	19.1	11.0	4.2	14.1	4.8	0.0	T	58.3
1992-93	0.0	0.0	0.0	1.2	4.3	8.7	17.6	19.2	13.1	3.3	0.0	0.0	67.4
1993-94	0.0	0.0	0.0	T	1.5	5.7	16.0	21.6	5.1	0.1	0.3	0.0	50.3
1994-95	0.0	0.0	T	0.0	0.9	9.0	20.9	13.7	5.6	1.7	0.0	0.0	51.8
1995-96	0.0	0.0	0.0	0.0	7.9	11.2	5.3	3.9	10.3	0.6	0.0		
1996-97													
1997-98						6.3	34.6	4.2	11.2	T	0.0	0.0	
1998-99						5.8	11.5	5.4					
1999-00	0.0												
2000-01					2.3	33.5	4.0	4.2					
2001-02													
2002-03							10.9	11.3	13.3				
2003-04							28.3	7.2	2.9	0.5	T	0.0	
2004-05	T	0.0	0.0	0.0	5.5	13.9	26.8	11.1	12.1	4.3	T	0.0	73.7
2005-06	0.0	0.0	0.0	T	7.5	20.8	8.0	10.1	2.3	0.2	0.0	0.0	48.9
2006-07	0.0	0.0	0.0	1.5	1.6	3.2	8.8	7.6	2.8	6.0	0.0	0.0	31.5
2007-08	0.0	0.0	0.0	0.0	3.0	16.7	15.2	27.6	7.0	T	0.0	T	69.5
2008-09	0.0	0.0	0.0	T	7.5	29.0	18.7	9.5	0.1	5.0	0.0	0.0	69.8
2009-10	0.0	0.0	0.0	T	T	11.4	9.4	20.6	1.2	T	0.0	T	42.6
2010-11	0.0	0.0	0.0	0.0	T	8.1	13.8	29.1	1.3	0.6	0.0	0.0	52.9
2011-12	0.0	0.0	0.0	T	8.2	3.7	14.7	12.1	0.6	T	T	0.0	39.3
2012-13	0.0	0.0	0.0	0.1	0.4	4.0	5.9	14.1	5.2	0.5	0.0	0.0	30.2
2013-14	0.0	0.0	0.0	T	0.7	15.8	23.5	18.0	10.4	0.7	0.0	0.0	69.1
2014-	0.0	0.0	0.0	T	6.2	1.5							
POR= 62 YRS	T	0.0	T	0.3	4.2	11.0	12.7	10.4	7.2	2.3	0.5	T	48.6

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REFERENCE NOTES :

<p>PAGE 1: THE TEMPERATURE GRAPH SHOWS NORMAL MAXIMUM AND NORMAL MINIMUM DAILY TEMPERATURES (SOLID CURVES) AND THE ACTUAL DAILY HIGH AND LOW TEMPERATURES (VERTICAL BARS).</p> <p>PAGE 2 AND 3: H/C INDICATES HEATING AND COOLING DEGREE DAYS. RH INDICATES RELATIVE HUMIDITY W/O INDICATES WEATHER AND OBSTRUCTIONS S INDICATES SUNSHINE. PR INDICATES PRESSURE. CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS(OKTAS).</p> <p>GENERAL: T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE. + INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES. BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA. ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM. PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH. POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING. WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED. 0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05. CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS.</p> <p>GENERAL CONTINUED: WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH. RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION. AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2. SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN</p>	<p>PRECIPITATION, INCLUDING HAIL. A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65 F. DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR. DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY. WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY. ON JULY 1, 1996, THE NATIONAL WEATHER SERVICE BEGAN USING THE "METAR" OBSERVATION CODE THAT WAS ALREADY EMPLOYED BY MOST OTHER NATIONS OF THE WORLD. THE MOST NOTICEABLE DIFFERENCE IN THIS ANNUAL PUBLICATION WILL BE THE CHANGE IN UNITS FROM TENTHS TO EIGHTHS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER. STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED STATION HISTORY INFORMATION GO TO "Historical Observing Metadata Repository", URL IS: http://www.ncdc.noaa.gov/homr/ SNOWFALL STOPPED MONTH & YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.</p> <p>NOTE: The "Period of Record:(POR)" for all "averages" is based on "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.</p>
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2014 LANSING MICHIGAN (KLAN)

The climate at Lansing alternates between continental and semi-marine, depending on meteorological conditions. The marine type is due to the influence of the Great Lakes and is governed by the force and direction of the wind. When there is little or no wind, the weather becomes continental in character, which means pronounced fluctuation in temperature, hot weather in summer and severe cold in winter. On the other hand, a strong wind from the Lakes may immediately transform the weather into a semi-marine type.

Since large bodies of water are less responsive to temperature changes, the Great Lakes hold the winter cold longer in the spring and the summer heat longer in the fall than do the land areas. This fact is illustrated by looking at some monthly mean temperatures at Lansing as compared to similar latitudes west of the Lakes. Such a comparison shows cooler summers and milder winters in Lansing because of the lake effect.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is September 30 and the average last occurrence in the spring is May 13.

Precipitation is fairly well distributed through the year, and no conspicuous annual variation is noted, although there is about 1 inch less per month in winter than in summer. The heavier amounts in summer occur in thunderstorms. The wettest months are May and June. Snowfall for Lansing is moderate, averaging about 52 inches per year.

There are almost twice as many cloudy days as clear days throughout the year. Much cloudiness prevails during the winter season, but sunshine is abundant during the summer months. Similarly, relative humidity remains rather high during the winter, but is only moderate in summer.

Tornadoes sometimes occur in this area, but their frequency is less than in states farther to the south and west. Destructive thunder and wind storms are not uncommon. Flooding of streams and rivers in the upper grand Basin occurs in about one year out of three, with floods causing considerable damage in about one year out of ten.

Station History

LANSING, MI

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
LANSING CAPITAL CITY AP	1954-12-31	1959-05-01	42° 46'	-84° 36'	858		AIRWAYS
LANSING CAPITAL CITY AP	1959-05-01	1963-08-17	42° 46'	-84° 36'	852	.6 MI SE	AIRWAYS
LANSING CAPITAL CITY AP	1981-12-31	1996-06-01	42° 46'	-84° 36'	841		COOP
LANSING CAPITAL CITY AP	1973-01-01	1979-11-07	42° 46'	-84° 36'	841		COOP, WXSVC
LANSING CAPITAL CITY AP	1979-11-07	1981-12-31	42° 46'	-84° 36'	841	UN UN	COOP, WXSVC
LANSING CAPITAL CITY AP	1998-04-07	Present	42° 46'	-84° 34'	841		ASOS, COOP, WXSVC
LANSING CAPITAL CITY AP	1963-08-17	1973-01-01	42° 46'	-84° 36'	841		AIRWAYS, COOP
LANSING CAPITAL CITY AP	1996-06-01	1998-04-07	42° 46'	-84° 34'	841		ASOS, COOP
LANSING CAPITAL CITY AP	1937-06-01	1948-01-01	42° 46'	-84° 36'	858		AIRWAYS
LANSING CAPITAL CITY AP	1948-01-01	1954-12-31	42° 46'	-84° 36'	873		AIRWAYS, COOP

Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
TEMP	1982-01-01	1995-07-01	DAILY	2400	HYGR		
PRECIP	2006-09-07	Present	DAILY	2400	AHTB	RCRD;HTD	
PRECIP	1937-06-01	1963-08-17	DAILY	2400	UNIV	RCRD	
PRECIP	1995-07-01	1996-06-01	DAILY	2400	UNIV	RCRD	
WIND	1996-06-01	2006-09-07	HOURLY	UNKN	ANEMCUP		
PRECIP	1996-06-01	2006-09-07	HOURLY	2400	AHTB	RCRD;HTD	
TEMP	1996-06-01	2006-09-07	DAILY	2400	HYGR		
TEMP	1963-08-17	1982-01-01	DAILY	2400	HYGR		
PRECIP	1982-01-01	1995-07-01	DAILY	2400	UNIV	RCRD	
TEMP	2006-09-07	Present	DAILY	2400	HYGR		
WIND	2006-09-07	Present	HOURLY	UNKN	ANEMSONIC		
PRECIP	1963-08-17	1982-01-01	DAILY	2400	UNIV	RCRD	
PRECIP	1995-07-01	1996-06-01	HOURLY	2400	UNIV	RCRD	
TEMP	1995-07-01	1996-06-01	DAILY	2400	HYGR		
PRECIP	2006-09-07	Present	HOURLY	2400	AHTB	RCRD;HTD	
TEMP	1937-06-01	1963-08-17	DAILY	2400			
PRECIP	1982-01-01	1995-07-01	HOURLY	2400			
PRECIP	1996-06-01	2006-09-07	DAILY	2400	AHTB	RCRD;HTD	

* For explanation of codes and abbreviations see Station Metadata link below.

Other Station Information can be found at:

ASOS Implementation by NWS: <http://www.nws.noaa.gov/ops2/Surface/asos2implementation.htm>

Station Metadata website: <http://www.ncdc.noaa.gov/homr>

INQUIRES/COMMENTS CALL: (828) 271-4800, option 2

Fax Number : (828) 271-4876

TDD : (828) 271-4010

Email : ncdc.orders@noaa.gov

NOAA/National Climatic Data Center

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151 Patton Avenue

Asheville, NC 28801-5001

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