

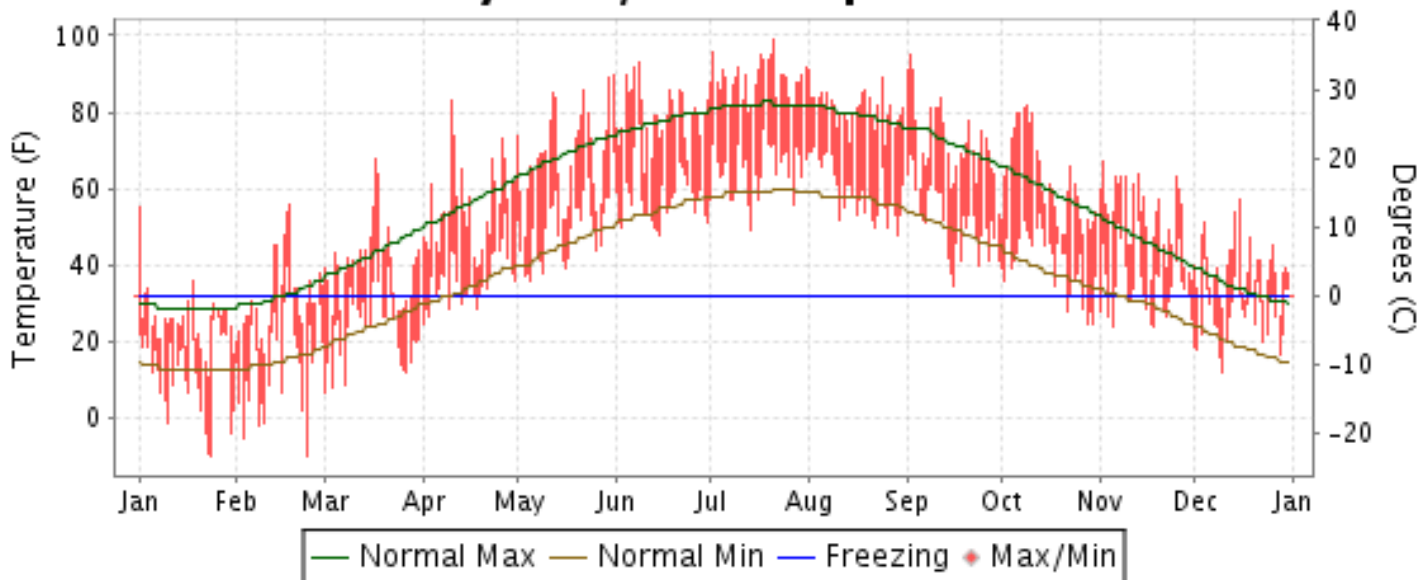


2011 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

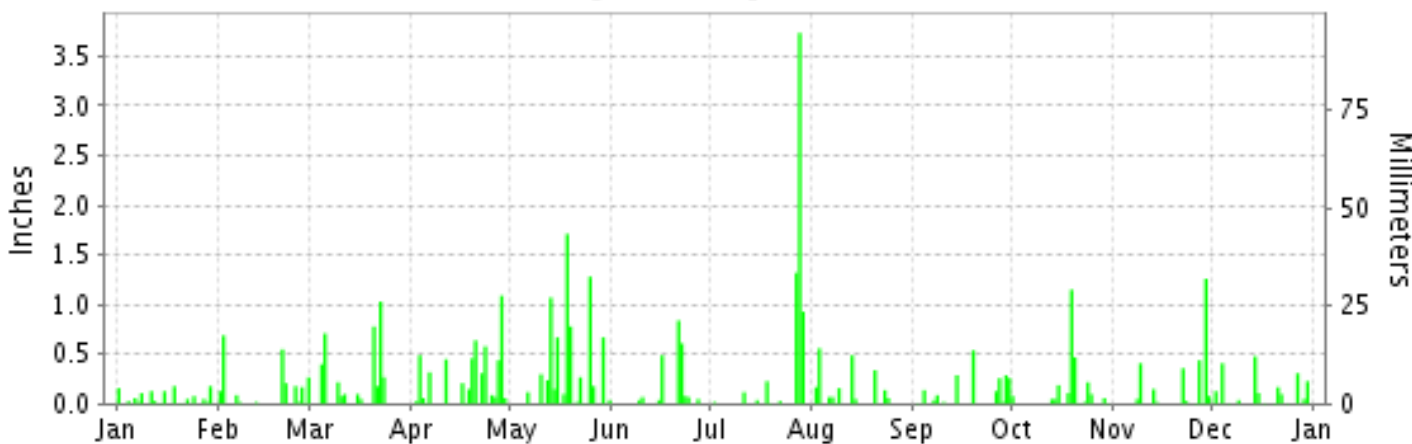
ISSN 0198-2559

FLINT, MICHIGAN (KFNT)

Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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ENVIRONMENTAL SATELLITE, DATA
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NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2011

FLINT (KFNT)

LATITUDE: 42° 57'N LONGITUDE: -83° 44'W ELEVATION (FT): GRND: 770 BARO: 783 TIME ZONE: EASTERN (UTC -5) WBAN: 14826

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	25.9	32.0	40.7	55.4	69.2	79.3	88.8	81.1	72.1	62.4	52.7	39.5	58.3	
	HIGHEST DAILY MAXIMUM	55	56	68	83	90	93	99	91	95	82	67	57	99	
	DATE OF OCCURRENCE	01	18	17	10	31	08	21	01	02	09	02	15	JUL 21	
	MEAN DAILY MINIMUM	12.0	15.0	23.7	36.3	49.5	57.6	64.8	59.5	51.5	40.7	34.8	27.1	39.4	
	LOWEST DAILY MINIMUM	-10	-10	7	25	36	48	49	48	35	25	24	12	-10	
	DATE OF OCCURRENCE	24	23	01	01	05	15	14	29	16	30+	18+	10	FEB 23	
	AVERAGE DRY BULB	19.0	23.5	32.2	45.9	59.4	68.5	76.8	70.3	61.8	51.6	43.8	33.3	48.8	
	MEAN WET BULB	18.3		40.9	53.4	61.3	68.3	64.2	57.5		40.1	31.3			
	MEAN DEW POINT	13.4		36.1	48.2	56.3	63.2	60.3	53.9		34.4	26.4			
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	1	3	14	1	3	0	0	0	0	22
	MAXIMUM <= 32°	27	17	7	0	0	0	0	0	0	0	0	5	56	
	MINIMUM <= 32°	31	26	26	10	0	0	0	0	0	6	14	23	136	
MINIMUM <= 0°	5	4	0	0	0	0	0	0	0	0	0	0	9		
H/C	HEATING DEGREE DAYS	1420	1155	1008	567	226	23	0	6	161	409	633	976	6584	
	COOLING DEGREE DAYS	0	0	0	0	57	132	375	178	74	3	0	0	819	
RH	MEAN (PERCENT)	75	68	71	71	70	67	64	72	75	72	70	74	71	
	HOUR 01 LST	78	70	77	78	78	80	82	87	86	83	76	76	79	
	HOUR 07 LST	82	77	78	80	77	71	70	80	85	86	77	77	78	
	HOUR 13 LST	68	60	60	62	59	53	47	54	59	54	59	68	59	
	HOUR 19 LST	72	66	67	66	65	62	56	69	76	71	71	76	68	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	0	0	0	0	0	0	0	0	0	0	0	0	0	
	THUNDERSTORMS	0	0	1	7	7	3	6	7	1	1	0	0	33	
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)														
	CEILOMETER (<= 12,000 FT.)														
	SATELLITE (> 12,000 FT.)														
	MIDNIGHT-MIDNIGHT: (OKTAS)														
	CEILOMETER (<= 12,000 FT.)														
SATELLITE (> 12,000 FT.)															
NUMBER OF DAYS WITH:															
CLEAR															
PARTLY CLOUDY															
CLOUDY															
PR	MEAN STATION PRESS. (IN.)	29.17	29.17	29.29	29.04	29.11	29.11	29.14	29.09	29.17	29.15	29.17	29.26	29.16	
	MEAN SEA-LEVEL PRESS. (IN.)	30.03	30.02	30.14	29.87	29.93	29.92	29.94	29.90	30.01	29.99	30.01	30.12	29.99	
WINDS	RESULTANT SPEED (MPH)	3.5	3.3	1.4	1.0	1.0	1.9	2.8	2.2	0.6	2.0	4.1	4.3	1.9	
	RES. DIR. (TENS OF DEGS.)	27	26	33	23	05	25	26	27	33	28	22	24	26	
	MEAN SPEED (MPH)	7.8	10.5	8.6	10.8	8.4	7.9	6.0	6.0	7.2	7.5	10.0	8.5	8.3	
	PREVAIL.DIR.(TENS OF DEGS.)	28	23	28	08	03	27	27	25	21	18	20	21	20	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	29	37	36	36	40	33	29	36	30	37	32	38	40	
	DIR. (TENS OF DEGS.)	25	27	15	27	18	31	30	30	34	28	24	29	18	
	DATE OF OCCURRENCE	01	18	20	17	29	09	18	20	30	15	09	15	MAY 29	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	39	48	46	46	55	76	40	45	40	46	44	46	76	
DIR. (TENS OF DEGS.)	25	27	16	27	17	28	28	30	27	27	24	28	28		
DATE OF OCCURRENCE	01	18	20	17	29	09	18	20	14	15	09	15	JUN 09		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	1.25	2.36	3.92	5.47	7.61	2.29	6.43	2.12	2.09	2.52	2.82	2.07	40.95	
	GREATEST 24-HOUR (IN.)	0.19	0.76	1.30	1.43	2.49	1.38	5.05	0.73	0.54	1.51	1.31	0.52	5.05	
	DATE OF OCCURRENCE	28-29	20-21	22-23	27-28	18-19	21-22	27-28	02-03	19	19-20	29-30	14-15	JUL 27-28	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	16	12	11	18	16	9	9	11	12	13	11	14	152	
PRECIPITATION 0.10	6	7	9	11	13	3	5	6	7	6	5	8	86		
PRECIPITATION 1.00	0	0	1	1	3	0	2	0	0	1	1	0	9		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	17.3	31.7	8.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	3.7	4.4	67.9	
	GREATEST 24-HOUR (IN.)	2.9	8.3	4.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.3	8.3	
	DATE OF OCCURRENCE	29	02	22	18							29	02	FEB 02	
	MAXIMUM SNOW DEPTH (IN.)	8	14	5	T	0	0	0	0	0	0	4	3	14	
	DATE OF OCCURRENCE	31+	08+	04+	18							30	03+	FEB 08+	
	NUMBER OF DAYS WITH:														
SNOWFALL >= 1.0	8	7	3	1	0	0	0	0	0	0	2	1	22		

NORMALS, MEANS, AND EXTREMES FLINT (KFNT)

LATITUDE:
42° 57'N

LONGITUDE:
-83° 44'W

ELEVATION (FT):
GRND: 770 BARO: 783

TIME ZONE:
EASTERN (UTC -5)

WBAN: 14826

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	29.2	32.3	43.1	56.2	69.0	77.7	82.0	79.5	71.9	59.7	46.3	34.2	56.8
	MEAN DAILY MAXIMUM	119	29.1	29.7	42.0	55.7	68.4	77.0	81.6	80.4	71.1	60.7	45.4	32.4	56.1
	HIGHEST DAILY MAXIMUM	55	61	68	80	87	93	93	101	98	95	89	76	70	101
	YEAR OF OCCURRENCE		2008	1999	2000	2004	1988	2011	1995	2001	2011	2002	1978	2001	JUL 1995
	MEAN OF EXTREME MAXS.	119	48.5	50.6	66.3	78.2	84.3	90.5	92.1	91.0	86.9	78.8	66.3	54.0	74.0
	NORMAL DAILY MINIMUM	30	13.3	15.3	24.3	34.6	45.2	54.6	59.1	57.4	49.4	38.6	29.8	19.1	36.7
	MEAN DAILY MINIMUM	119	15.1	14.1	24.3	34.7	45.4	54.1	57.7	57.1	49.7	40.2	29.9	19.8	36.8
	LOWEST DAILY MINIMUM	55	-25	-22	-12	6	22	-25	40	37	26	19	6	-13	-25
	YEAR OF OCCURRENCE		1976	1967	1978	1982	1966	1976	2001	1982	1991	1974	1976	2000	JUN 1976
	MEAN OF EXTREME MINS.	119	-6.2	-4.2	5.0	21.2	31.1	40.6	46.3	44.4	34.4	25.1	15.4	0.5	21.1
	NORMAL DRY BULB	30	21.3	23.8	33.7	45.4	57.1	66.2	70.6	68.5	60.7	49.2	38.1	26.7	46.8
	MEAN DRY BULB	119	22.1	21.9	33.2	45.2	56.9	65.6	69.6	68.8	60.4	50.5	37.7	26.1	46.5
	MEAN WET BULB	26	21.6	23.0	29.9	40.0	50.2	59.8	63.6	62.9	55.9	45.1	35.3	25.7	42.8
	MEAN DEW POINT	26	18.9	19.6	26.2	36.3	47.0	57.2	61.4	61.2	53.9	42.4	33.1	23.8	40.1
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.0	0.3	1.7	3.2	1.5	0.6	0.0	0.0	0.0	7.3
	MAXIMUM <= 32	30	18.5	14.4	5.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	2.2	12.0	52.8
MINIMUM <= 32	30	29.0	25.3	23.0	11.1	1.6	0.0	0.0	0.0	0.4	5.8	17.1	27.2	140.5	
MINIMUM <= 0	30	4.6	3.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	10.5	
H/C	NORMAL HEATING DEG. DAYS	30	1341	1147	957	577	267	66	13	28	168	478	791	1172	7005
	NORMAL COOLING DEG. DAYS	30	0	0	1	5	33	110	199	151	52	4	0	0	555
RH	NORMAL (PERCENT)	30	77	75	71	66	66	69	71	75	76	74	76	79	73
	HOURLY 01 LST	30	81	79	77	75	76	80	84	87	87	82	81	82	81
	HOURLY 07 LST	30	82	81	81	79	78	81	85	90	90	85	83	83	83
	HOURLY 13 LST	30	72	69	62	55	54	56	55	59	59	60	68	74	62
	HOURLY 19 LST	30	76	72	66	59	56	58	59	65	69	71	75	79	67
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	48	1.5	1.5	2.0	0.8	1.1	0.7	1.0	1.5	1.8	1.7	1.0	2.1	16.7
	THUNDERSTORMS	63	0.2	0.1	1.2	2.9	4.2	5.7	6.4	5.7	3.5	1.4	0.8	0.3	32.4
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS)														
	MIDNIGHT-MIDNIGHT (OKTAS)														
	MEAN NO. DAYS WITH: CLEAR														
	PARTLY CLOUDY CLOUDY														
PR	MEAN STATION PRESSURE(IN)	28	29.20	29.22	29.21	29.14	29.15	29.14	29.17	29.21	29.23	29.22	29.21	29.22	29.19
	MEAN SEA-LEVEL PRES. (IN)	28	30.06	30.07	30.06	29.97	29.98	29.96	29.98	30.02	30.05	30.05	30.05	30.07	30.03
WINDS	MEAN SPEED (MPH)	28	10.5	10.3	10.4	10.4	9.3	8.0	7.4	7.1	7.7	8.9	10.0	10.0	9.2
	PREVAIL.DIR(TENS OF DEGS)	40	24	28	28	08	19	21	24	21	19	20	24	24	24
	MAXIMUM 2-MINUTE: SPEED (MPH)	16	40	41	40	41	40	40	40	40	37	44	41	41	38
	DIR. (TENS OF DEGS)		25	30	25	30	18	24	33	29	28	31	28	29	28
	YEAR OF OCCURRENCE		2008	2006	2002	2002	2011	2008	1998	2007	2010	2006	2003	2011	SEP 2010
	MAXIMUM 3-SECOND SPEED (MPH)	16	54	53	51	52	55	76	51	46	60	54	55	52	76
	DIR. (TENS OF DEGS)		24	32	27	26	17	28	25	27	29	30	22	26	28
YEAR OF OCCURRENCE		2008	2006	2002	2003	2011	2011	2003	1996	2010	2008	1998	2008	JUN 2011	
PRECIPITATION	NORMAL (IN)	30	1.57	1.35	2.22	3.13	2.74	3.07	3.17	3.43	3.76	2.34	2.65	2.18	31.61
	MAXIMUM MONTHLY (IN)	70	4.02	5.28	4.33	5.90	8.19	6.57	9.35	11.04	10.86	6.59	5.66	4.66	11.04
	YEAR OF OCCURRENCE		2006	1954	1948	1947	2004	2009	1992	1975	1986	2001	2003	1971	AUG 1975
	MINIMUM MONTHLY (IN)	70	0.07	0.17	0.25	0.62	0.34	0.07	0.73	0.32	0.29	0.33	0.59	0.44	0.07
	YEAR OF OCCURRENCE		1945	1969	1958	1942	1988	1945	1978	2010	2002	1944	2009	1969	JUN 1945
	MAXIMUM IN 24 HOURS (IN)	70	1.81	2.85	2.33	2.89	2.49	3.46	5.05	4.45	6.04	3.19	2.30	1.77	6.04
	YEAR OF OCCURRENCE		1967	1954	1948	1976	2011	2009	2011	1968	1950	1981	1995	1971	SEP 1950
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	13.8	10.9	12.2	12.9	10.7	10.5	9.7	10.1	10.5	10.1	12.6	13.8	137.8
PRECIPITATION >= 1.00	30	0.1	0.1	0.3	0.5	0.4	0.6	0.8	0.5	1.0	0.3	0.4	0.2	5.2	
SNOWFALL	NORMAL (IN)	30	13.2	9.4	7.7	2.6	0.*	0.0	0.0	0.0	0.0	0.3	3.5	11.6	48.3
	MAXIMUM MONTHLY (IN)	70	28.5	31.7	19.4	17.3	0.6	28.5	T	T	T	4.4	16.2	35.3	35.3
	YEAR OF OCCURRENCE		1976	2011	1965	1975	1961	1976	2008	1998	1975	1989	1951	2000	DEC 2000
	MAXIMUM IN 24 HOURS (IN)	70	19.8	11.3	12.6	16.7	0.5	19.8	T	T	T	3.5	13.4	10.8	19.8
	YEAR OF OCCURRENCE'		1967	1965	1973	1975	1961	1967	1992	1998	1975	1989	1951	2000	JUN 1967
	MAXIMUM SNOW DEPTH (IN)	62	23	23	13	17	0	23	0	0	0	2	8	20	23
	YEAR OF OCCURRENCE		1967	1967	1973	1975	1967	1967	1967	1967	1997	1975	2000	2000	JUN 1967
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	4.0	3.1	2.5	0.5	0.0	0.0	0.0	0.0	0.0	0.1	1.2	3.9	15.3	

PRECIPITATION (inches) 2011 FLINT (KFNT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1982	1.57	0.66	2.49	1.23	2.15	3.24	3.06	3.24	2.76	0.57	4.76	2.75	28.48
1983	1.01	0.91	2.40	3.63	3.76	3.94	2.24	2.26	4.06	2.62	3.46	1.85	32.14
1984	0.56	0.52	2.83	2.85	3.54	0.92	3.48	3.66	2.77	2.61	2.65	3.76	30.15
1985	2.06	3.01	4.00	3.60	2.81	1.54	2.99	4.33	8.29	3.45	3.16	1.38	40.62
1986	0.70	2.10	1.44	2.68	1.61	5.13	3.12	5.29	10.86	1.96	0.94	1.71	37.54
1987	1.16	0.42	1.45	1.80	2.28	1.60	2.20	5.03	5.57	1.90	3.29	2.54	29.24
1988	1.27	1.52	1.45	2.69	0.34	0.63	3.74	4.00	3.03	2.76	4.94	1.27	27.64
1989	1.31	0.52	2.11	1.50	3.93	4.90	2.65	5.56	4.33	1.67	2.86	1.00	32.34
1990	1.84	2.59	1.45	2.10	3.26	3.77	1.80	2.37	3.06	4.06	4.29	2.49	33.08
1991	1.49	0.68	2.87	4.07	3.23	2.91	3.78	3.33	0.63	3.52	3.01	2.15	31.67
1992	1.15	1.59	2.56	3.80	1.64	2.26	9.35	3.50	2.50	2.46	4.05	2.01	36.87
1993	2.80	1.16	1.21	4.55	1.68	5.23	2.32	3.37	4.66	2.21	1.32	0.51	31.02
1994	1.91	0.93	1.70	5.01	0.79	6.52	2.84	3.39	2.81	2.70	3.51	1.75	33.86
1995	2.08	0.72	1.24	2.76	2.23	0.72	2.64	4.29	1.05	2.60	4.22	1.15	25.70
1996	2.07	1.20	1.86	3.15	3.02	3.90	1.94	.68	2.82	2.79	1.66	2.05	27.14
1997	0.98	3.12	2.39	1.21	3.33	1.57	2.70	2.72	4.31	1.55	1.05	0.77	25.70
1998	3.05	1.67	3.41	1.43	0.99	1.25	1.13	2.62	1.28	2.23	1.58	1.50	22.14
1999	2.89	1.19	0.75	5.06	1.81	3.89	4.13	2.49	2.11	1.39	1.13	1.97	28.81
2000	0.97	1.00	0.90	2.90	6.34	2.98	8.55	2.87	6.24	1.96	1.96	3.41	40.08
2001	1.03	3.52	0.56	3.24	5.35	3.32	1.61	1.54	3.71	6.59	3.14	1.77	35.38
2002	1.36	1.83	1.61	3.19	3.62	1.48	3.63	1.51	0.29	1.27	1.38	1.08	22.25
2003	0.26	0.60	1.71	2.94	3.35	2.16	1.73	3.79	3.16	2.00	5.66	2.34	29.70
2004	1.39	0.66	2.36	0.70	8.19	2.63	3.78	2.96	0.76	2.05	2.30	2.15	29.93
2005	2.93	2.45	1.04	1.31	1.40	1.97	5.43	0.93	5.47	0.33	3.93	1.77	28.96
2006	4.02	1.40	2.83	2.18	5.27	3.30	4.26	3.14	3.19	3.59	2.47	2.81	38.46
2007	2.01	0.29	2.49	2.40	4.84	3.48	1.83	5.09	1.46	3.20	1.42	2.43	30.94
2008	2.49	2.35	2.00	1.60	1.59	4.11	3.56	1.89	8.64	1.26	2.10	2.79	34.38
2009	0.96	2.57	2.71	5.42	2.53	6.57	2.64	5.47	1.18	3.35	0.59	1.41	35.40
2010	0.83	1.37	0.65	3.34	4.23	3.12	2.49	0.32	3.66	2.42	1.67	1.47	25.57
2011	1.25	2.36	3.92	5.47	7.61	2.29	6.43	2.12	2.09	2.52	2.82	2.07	40.95
POR= 119 YRS	1.57	1.49	2.05	2.79	3.24	3.00	3.00	3.02	3.05	2.35	2.33	1.82	29.71

WBAN : 14826

AVERAGE TEMPERATURE (°F) 2011 FLINT (KFNT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1982	16.4	20.2	32.7	43.3	65.0	62.9	71.3	66.6	61.0	52.5	41.4	37.2	47.5
1983	27.7	31.8	37.8	43.7	53.5	67.3	74.0	73.3	64.8	51.5	41.1	20.1	48.9
1984	14.4	31.2	26.8	45.3	51.5	69.3	70.0	71.8	60.7	54.0	39.4	33.4	47.3
1985	19.8	22.7	37.0	51.8	59.3	62.5	70.4	67.2	63.3	51.4	39.8	21.3	47.2
1986	21.7	21.1	35.8	49.4	58.9	64.9	72.2	66.3	63.0	50.5	35.5	29.9	47.4
1987	24.7	28.7	38.1	49.9	62.8	70.3	75.6	69.3	62.6	45.2	41.6	32.2	50.1
1988	22.0	20.1	34.1	46.5	60.3	67.7	75.2	72.6	61.2	44.8	41.4	27.3	47.8
1989	30.9	20.8	32.7	44.0	56.2	66.2	71.3	68.0	59.6	51.2	35.9	16.1	46.1
1990	31.8	26.9	38.1	48.4	55.3	66.8	70.0	69.4	61.5	49.9	42.4	29.8	49.2
1991	21.2	29.3	37.7	50.2	64.2	69.7	71.7	70.0	59.6	52.8	36.2	29.4	49.3
1992	25.8	29.4	32.9	43.6	57.3	64.2	66.9	65.2	60.2	48.1	38.3	31.5	47.0
1993	26.2	20.5	32.2	45.3	58.0	65.8	72.9	70.4	56.3	47.3	36.8	27.0	46.6
1994	13.8	18.4	33.5	47.6	55.0	67.9	70.6	65.9	62.7	51.6	42.5	32.0	46.8
1995	25.4	20.6	36.1	42.6	56.9	68.4	72.4	74.3	58.5	52.1	32.0	23.0	46.9
1996	21.9	23.7	28.1	42.4	54.8	68.5	67.6	70.1	61.6	50.1	32.7	28.8	45.9
1997	21.3	27.1	34.0	42.9	48.8	67.1	69.5	65.0	59.8	48.1	35.5	29.9	45.8
1998	29.9	34.5	36.4	47.6	62.9	66.8	70.4	70.8	65.3	51.5	41.8	32.3	50.9
1999	20.6	31.0	31.0	48.1	59.3	68.5	73.0	66.4	61.9	48.2	42.9	29.7	48.4
2000	20.6	29.3	41.4	44.9	59.4	66.8	67.5	68.4	60.1	53.5	38.6	16.6	47.3
2001	24.9	27.1	32.5	48.5	59.2	66.7	71.0	71.5	59.3	50.5	46.6	34.1	49.3
2002	30.9	30.0	32.4	47.9	53.1	69.2	75.0	70.8	66.6	47.7	37.7	27.7	49.1
2003	19.2	20.5	33.4	45.9	55.3	64.6	70.8	70.9	61.9	49.6	42.5	32.1	47.2
2004	17.3	24.7	39.3	49.9	59.6	66.0	68.4	65.6	64.2	51.0	39.9	26.5	47.7
2005	20.9	26.5	29.2	48.3	53.4	71.3	72.3	71.4	65.1	51.9	41.5	24.3	48.0
2006	32.7	25.2	34.5	48.3	57.9	66.0	71.7	68.9	58.7	46.0	41.1	35.4	48.9
2007	26.3	17.3	38.6	44.7	59.7	68.8	69.8	71.0	64.2	57.3	37.1	27.7	48.5
2008	26.9	23.8	33.2	51.1	54.6	69.0	70.7	68.7	62.7	47.7	37.4	24.7	47.5
2009	14.5	26.2	35.6	46.6	56.3	64.9	65.7	67.7	62.0	47.4	42.4	26.8	46.3
2010	22.1	24.0	38.6	51.6	60.3	68.8	74.3	73.7	61.7	52.1	40.0	24.3	49.3
2011	19.0	23.5	32.2	45.9	59.4	68.5	76.8	70.3	61.8	51.6	43.8	33.3	48.8
POR= 119 YRS	22.1	21.9	33.2	45.2	56.9	65.6	69.6	68.8	60.4	50.5	37.7	26.1	46.5

HEATING DEGREE DAYS (base 65°F) 2011 FLINT (KFNT)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1982-83	3	58	163	385	700	851	1153	924	838	633	351	65	6124
1983-84	12	5	106	422	711	1385	1565	977	1178	586	411	23	7381
1984-85	14	12	176	335	761	972	1395	1177	860	418	197	103	6420
1985-86	7	28	153	413	748	1345	1338	1224	899	475	218	69	6917
1986-87	13	54	113	444	881	1081	1242	1010	826	447	174	25	6310
1987-88	11	44	119	605	695	1011	1326	1295	954	547	189	82	6878
1988-89	5	24	144	626	700	1161	1053	1233	993	626	289	49	6903
1989-90	5	28	199	422	864	1507	1020	1061	829	529	299	42	6805
1990-91	18	10	164	469	668	1084	1352	994	838	450	165	22	6234
1991-92	3	9	218	381	855	1098	1206	1024	988	638	266	78	6764
1992-93	26	56	193	516	793	1032	1194	1238	1007	583	218	71	6927
1993-94	1	16	267	544	837	1169	1581	1298	969	528	326	49	7585
1994-95	2	53	116	408	670	1017	1220	1236	889	665	249	39	6564
1995-96	14	0	217	403	982	1295	1328	1191	1137	675	340	19	7601
1996-97	26	2	150	457	965	1114	1346	1055	951	655	497	44	7262
1997-98	22	57	165	526	878	1081	1080	847	890	517	111	118	6292
1998-99	8	12	72	421	689	1006	1370	946	1046	503	203	62	6338
1999-00	4	36	135	512	659	1087	1369	1028	733	596	214	63	6436
2000-01	27	27	197	355	787	1492	1236	1055	999	487	198	75	6935
2001-02	22	3	204	446	546	950	1050	976	1004	531	383	44	6159
2002-03	0	6	74	553	814	1151	1412	1238	973	575	294	76	7166
2003-04	1	5	132	470	670	1010	1475	1162	790	458	203	59	6435
2004-05	22	61	86	426	747	1188	1360	1074	1106	496	360	27	6953
2005-06	4	9	63	425	699	1255	995	1108	939	495	272	50	6314
2006-07	7	8	195	580	710	911	1192	1328	814	604	210	30	6589
2007-08	17	22	101	279	831	1148	1175	1188	977	415	328	24	6505
2008-09	13	20	105	528	822	1241	1558	1078	905	550	272	85	7177
2009-10	39	40	123	542	670	1177	1325	1144	815	401	212	28	6516
2010-11	5	2	146	393	743	1255	1420	1155	1008	567	226	23	6943
2011-	0	6	161	409	633	976							

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COOLING DEGREE DAYS (base 65°F) 2011 FLINT (KFNT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1982	0	0	0	0	91	35	204	118	49	6	0	0	503
1983	0	0	0	0	0	142	301	268	110	11	0	0	832
1984	0	0	0	0	1	157	179	231	53	1	0	0	622
1985	0	0	0	28	29	33	179	107	108	0	0	0	484
1986	0	0	0	12	38	73	246	103	57	0	0	0	529
1987	0	0	0	1	113	189	345	185	55	0	2	0	890
1988	0	0	0	0	50	171	328	266	34	6	0	0	855
1989	0	0	0	0	19	88	207	128	46	1	0	0	489
1990	0	0	5	40	5	100	177	153	65	9	1	0	555
1991	0	0	0	11	151	171	217	173	67	10	0	0	800
1992	0	0	0	2	34	61	91	74	53	0	0	0	315
1993	0	0	0	0	9	101	251	189	12	1	0	0	563
1994	0	0	0	9	24	142	180	88	54	0	0	0	497
1995	0	0	0	0	7	147	250	293	28	8	0	0	733
1996	0	0	0	0	30	129	111	170	56	1	0	0	497
1997	0	0	0	0	0	117	166	64	17	8	0	0	372
1998	0	0	11	0	55	178	180	197	88	8	0	0	717
1999	0	0	0	2	29	174	256	85	51	0	0	0	597
2000	0	0	4	0	48	120	110	138	56	5	0	0	481
2001	0	0	0	0	22	134	215	205	40	4	0	0	620
2002	0	0	0	27	21	176	315	193	128	22	0	0	882
2003	0	0	0	9	2	68	189	193	46	1	0	0	508
2004	0	0	0	14	45	97	134	85	71	0	0	0	446
2005	0	0	0	2	9	221	235	212	73	27	0	0	779
2006	0	0	0	0	56	83	222	136	11	1	0	0	509
2007	0	0	1	1	52	150	173	216	84	50	0	0	727
2008	0	0	0	4	13	152	197	140	42	0	0	0	548
2009	0	0	0	6	12	88	67	130	38	0	0	0	341
2010	0	0	0	6	73	149	300	279	54	0	0	0	861
2011	0	0	0	0	57	132	375	178	74	3	0	0	819

SNOWFALL (inches) 2011 FLINT (KFNT)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1982-83	0.0	0.0	0.0	0.0	1.3	3.6	3.8	4.8	13.0	7.1	0.0	0.0	33.6
1983-84	0.0	0.0	0.0	0.0	2.4	20.0	9.0	3.6	6.5	0.5	0.0	0.0	42.0
1984-85	0.0	0.0	0.0	0.0	1.1	11.0	15.3	14.4	6.4	1.2	0.0	0.0	49.4
1985-86	0.0	0.0	0.0	0.0	3.4	13.2	11.2	20.6	4.3	0.6	0.0	0.0	53.3
1986-87	0.0	0.0	0.0	0.0	4.8	8.9	16.9	2.2	4.3	1.5	0.0	0.0	38.6
1987-88	0.0	0.0		0.5	T	8.8	5.9	19.6	4.3	0.1	0.0	0.0	
1988-89	0.0	0.0	0.0	T	1.3	6.2	8.7	8.7	3.3	1.3	0.0	T	29.5
1989-90	0.0	0.0	0.0	4.4	7.8	11.3	5.6	20.8	2.9	2.6	0.0	0.0	55.4
1990-91	0.0	0.0	0.0	0.0	T	10.6	16.6	5.8	1.2	T	0.0	0.0	34.2
1991-92	0.0	0.0	0.0	T	4.9	16.7	14.0	1.4	14.4	3.0	T	T	54.4
1992-93	T	0.0	0.0	1.8	0.6	4.6	11.3	16.1	11.8	7.0	0.0	0.0	53.2
1993-94	0.0	0.0	0.0	0.8	0.8	3.5	14.7	20.1	4.2	0.2	0.3	0.0	44.6
1994-95	0.0	0.0	0.0	0.0	1.2	10.2	18.4	7.4	4.5	0.8	0.0	0.0	42.5
1995-96	0.0	0.0	0.0	T	3.5	7.1	4.9	5.4	17.7	T	0.0	0.0	38.6
1996-97	0.0	0.0	0.0	T	2.3	11.9	17.3	5.4	3.7	2.9	0.0	0.0	43.5
1997-98	0.0	0.0	0.0	2.8	3.3	6.9	8.0	0.4	6.9	0.0	0.0	0.0	28.3
1998-99	0.0	T	0.0	0.0	0.2	3.4	24.9	6.0	14.4	T	T	0.0	48.9
1999-00	0.0	0.0	0.0	0.0	T	5.1	10.4	7.2	1.9	4.9	0.0	0.0	29.5
2000-01	0.0	0.0	0.0	0.0	2.2	35.3	5.1	5.0	3.8	2.0	0.0	0.0	53.4
2001-02	0.0	0.0	0.0	T	T	8.1	15.6	8.9	4.7	3.1	T	0.0	40.4
2002-03	0.0	0.0	0.0	0.0	2.1	12.9	8.4	12.5	9.8	3.6	0.0	0.0	49.3
2003-04	0.0	T	0.0	0.0	2.5	10.3	24.7	6.1	5.3	0.7	T	0.0	49.6
2004-05	0.0	0.0	0.0	0.0	4.6	13.7	19.7	14.7	12.3	8.0	T	0.0	73.0
2005-06	0.0	0.0	0.0	0.0	5.7	22.2	9.6	15.7	2.1	0.6	0.0	T	55.9
2006-07	0.0	0.0	0.0	2.3	0.3	4.3	13.6	9.9	5.7	4.9	0.0	0.0	41.0
2007-08	0.0	0.0	0.0	0.0	5.7	17.1	22.8	29.4	7.3	0.5	0.0	0.0	82.8
2008-09	T	0.0	0.0	T	9.2	29.1	17.1	10.2	2.2	5.0	0.0	0.0	72.8
2009-10	0.0	0.0	0.0	0.0	T	12.5	10.7	21.2	0.7	T	0.0	0.0	45.1
2010-11	0.0	0.0	0.0	0.0	0.2	12.1	17.3	31.7	8.6	2.2	0.0	0.0	72.1
2011-	0.0	0.0	0.0	0.0	3.7	4.4							
POR= 119 YRS	T	T	0.0	0.2	2.9	9.1	11.8	9.6	6.9	1.9	0.2	T	42.6

WBAN : 14826

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. NORMALS ARE 30-YEAR AVERAGES (1971 - 2000). 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 AND ON SATELLITE DATA FOR CLOUDS ABOVE 12,000 FEET. THE NUMBER OF DAYS WITH CLEAR, PARTLY CLOUDY, AND CLOUDY CONDITIONS FOR ASOS STATIONS IS THE SUM OF THE CEILOMETER AND SATELLITE DATA FOR THE SUNRISE TO SUNSET PERIOD. CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS. WHEN AT LEAST ONE OF THE ELEMENTS (CEILOMETER OR SATELLITE) IS MISSING, THE DAILY CLOUDINESS IS NOT COMPUTED.</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 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 EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER. STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED HISTORY GO TO "MULTI-NETWORK MEDADATA SYSTEM", URL IS: https://mi3.ncdc.noaa.gov/mi3qry/login.cfm 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 the "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.</p>
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2011 FLINT MICHIGAN (KFNT)

Flint, Michigan, is located in the Flint River Valley, in the center of Genesee County. Lake Huron lies approximately 65 miles to the east, while Saginaw Bay is about 40 miles to the north. The surrounding terrain is generally level with a slight rising tendency to a range of hills 15 to 20 miles southeast of the city.

Flint is generally under the climatic influence of the Great Lakes. Temperatures of 100 degrees or higher are rare and cold waves are less severe than expected. During the winter months, snow showers occur with strong northwesterly winds, and Lake Michigan, lying 120 miles to the west, causes a tempering effect upon cold waves coming from the northwest. The lake effect also results in delaying the coming of spring and prolonging warmer weather in late autumn. This results in conditions favorable for orchards and small fruit.

Precipitation is usually ample for growth and development of vegetation. The wettest periods normally occur in the late spring, early summer, and early fall. The driest period is normally during the winter, and although there is an occasional heavy snowfall, most of the snow occurs in the form of frequent light flurries.

Winter months are marked by considerable cloudiness and rather high relative humidity, while during the summer relative humidity is usually not excessive and sunshine is plentiful.

Violent windstorms associated with thunderstorms and squall lines occasionally hit this area. Tornadoes are infrequent but have caused extensive property damage and loss of life.

Weather changes are frequent throughout the year, since a majority of atmospheric disturbances moving eastward across the country pass near enough to affect the weather in Flint.

Station History

FLINT, MI

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
FLINT BISHOP AP	1969-01-01	1973-01-01	42° 58'	-83° 45'	771		AIRWAYS, COOP
FLINT BISHOP AP	1950-01-01	1957-01-01	42° 58'	-83° 43'	778		AIRWAYS, COOP
FLINT BISHOP AP	1973-01-01	1981-12-31	42° 58'	-83° 45'	771		COOP, WXSVC
FLINT BISHOP INTL AP	1995-06-01	1995-07-01	42° 58'	-83° 44'	770	.4 MI S	ASOS, COOP
FLINT BISHOP AP	1948-01-01	1950-01-01	42° 58'	-83° 43'	787		AIRWAYS, COOP
BISHOP	1937-01-01	1937-01-15	42° 58'	-83° 43'			AIRWAYS
FLINT BISHOP AP	1992-02-26	1995-06-01	42° 58'	-83° 45'	766		COOP
FLINT BISHOP INTL AP	2012-01-11	Present	42° 57'	-83° 44'	770		ASOS, COOP, WXSVC
FLINT BISHOP INTL AP	1995-07-01	2012-01-11	42° 58'	-83° 44'	770		ASOS, COOP, WXSVC
FLINT BISHOP AP	1937-01-15	1948-01-01	42° 58'	-83° 43'			AIRWAYS
FLINT BISHOP AP	1957-01-01	1969-01-01	42° 58'	-83° 43'	771		AIRWAYS, COOP
FLINT BISHOP AP	1981-12-31	1992-02-26	42° 58'	-83° 45'	771		COOP

Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
TEMP	1937-01-01	1982-01-01	DAILY	2400			
PRECIP	1992-02-26	1995-06-01	DAILY	2400	SRG		
TEMP	1995-06-01	2012-01-11	DAILY	2400	HYGR		
PRECIP	2012-01-11	Present	DAILY	2400	AHTB	RCRD;HTD	
PRECIP	1982-01-01	1992-02-26	DAILY	2400			
TEMP	1992-02-26	1995-06-01	DAILY	2400	MXMN		
PRECIP	2012-01-11	Present	HOURLY	2400	AHTB	RCRD;HTD	
TEMP	2012-01-11	Present	DAILY	2400	ATEMP		
PRECIP	1937-01-01	1982-01-01	DAILY	2400			
PRECIP	1995-06-01	2012-01-11	DAILY	2400	AHTB	RCRD;HTD	
PRECIP	1982-01-01	1992-02-26	HOURLY	2400			
TEMP	1982-01-01	1992-02-26	DAILY	2400			
PRECIP	1992-02-26	1995-06-01	HOURLY	2400			
PRECIP	1995-06-01	2012-01-11	HOURLY	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/asosimplementation.htm>

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

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Email : ncdc.info@noaa.gov

NOAA/National Climatic Data Center

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151 Patton Avenue

Asheville, NC 28801-5001

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