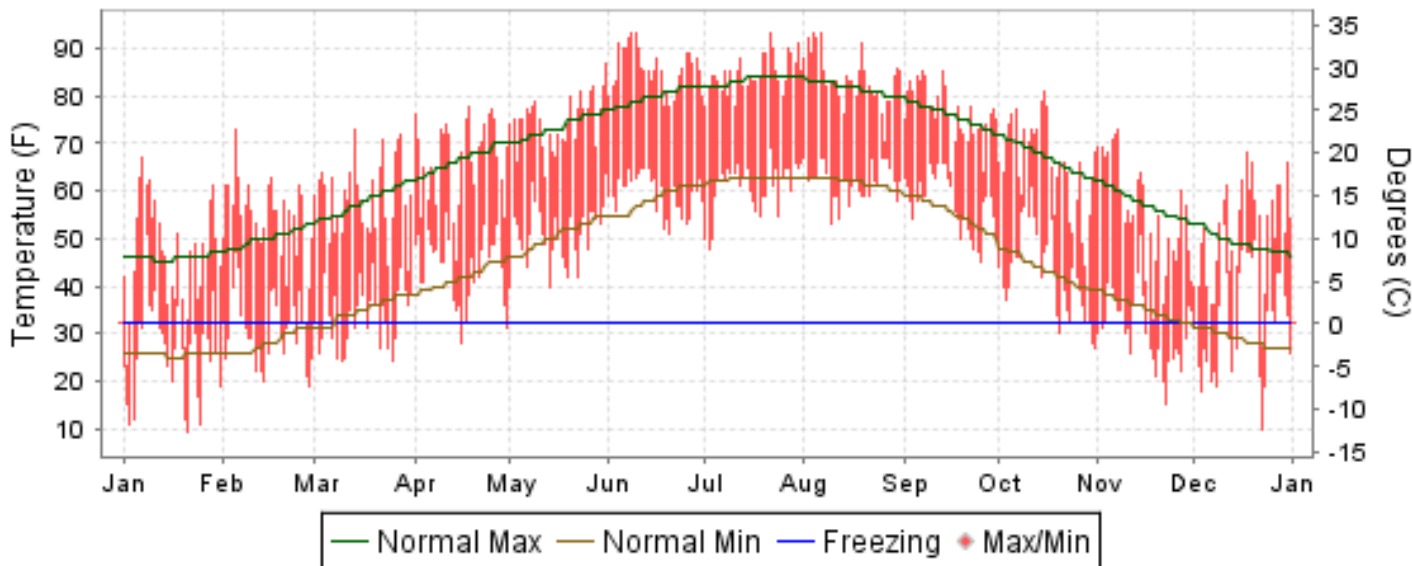




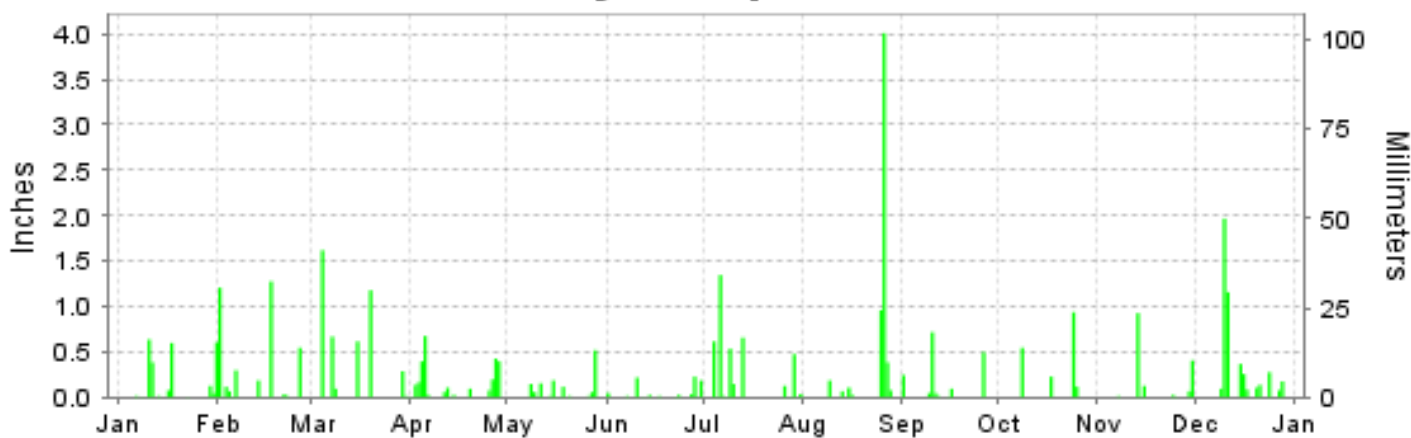
2008 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

ISSN 0198-3695

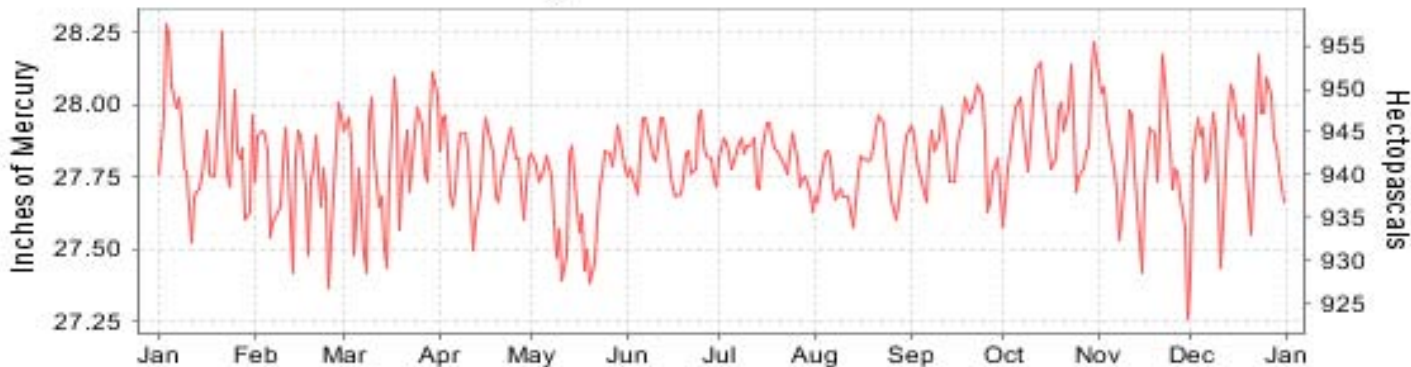
ASHEVILLE, NORTH CAROLINA (KAVL) Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC DATA CENTER.

NATIONAL
OCEANIC AND
ATMOSPHERIC ADMINISTRATION

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 2008

ASHEVILLE (KAVL)

LATITUDE: 35° 25'N LONGITUDE: -082° 32'W ELEVATION (FT): GRND: 2117 BARO: 2174 TIME ZONE: EASTERN (UTC -5) WBAN: 03812

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	46.7	54.3	58.6	66.6	74.7	85.5	84.7	83.6	76.6	65.6	55.1	51.3	66.9	
	HIGHEST DAILY MAXIMUM	67	73	73	78	87	93	93	93	85	81	73	68	93	
	DATE OF OCCURRENCE	07	05	13	18	31	09+	21	06+	13+	15	07	17	AUG 06+	
	MEAN DAILY MINIMUM	26.0	30.7	33.5	44.0	51.0	59.5	61.0	61.9	57.5	42.6	30.8	32.6	44.3	
	LOWEST DAILY MINIMUM	9	19	24	28	40	51	48	53	45	27	15	10	9	
	DATE OF OCCURRENCE	21	28	25+	16	13+	20	02	09	25	31	22	22	JAN 21	
	AVERAGE DRY BULB	36.4	42.5	46.1	55.3	62.9	72.5	72.9	72.8	67.1	54.1	43.0	42.0	55.6	
	MEAN WET BULB	31.4	37.3	40.6	49.5	55.8	63.9	65.0	64.8	61.5	48.4	37.6	38.6	49.5	
	MEAN DEW POINT	23.6	30.5	33.6	43.7	49.9	58.9	60.7	60.2	58.4	43.1	30.5	32.8	43.8	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	0	7	4	5	0	0	0	0	0	16
MAXIMUM <= 32°	3	1	0	0	0	0	0	0	0	0	0	1	5	5	
MINIMUM <= 32°	24	20	15	2	0	0	0	0	0	3	19	15	98	98	
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
H/C	HEATING DEGREE DAYS	880	645	579	288	97	0	1	0	35	330	653	706	4214	
	COOLING DEGREE DAYS	0	0	0	0	39	232	253	245	104	2	0	0	875	
RH	MEAN (PERCENT)	65	68	66	69	67	68	71	70	79	72	67	73	70	
	HOUR 01 LST	75	78	78	82	82	88	89	88	93	87	79	79	83	
	HOUR 07 LST	77	81	79	80	75	77	81	82	91	84	82	82	81	
	HOUR 13 LST	47	53	51	51	48	43	50	47	57	48	43	58	50	
	HOUR 19 LST	64	66	59	66	60	65	67	66	79	72	65	71	67	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	4	3	2	3	3	3	2	4	10	4	2	3	43	
	THUNDERSTORMS	0	1	1	3	1	7	2	0	0	0	0	0	15	
CLOUDNESS	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.)	27.86	27.74	27.79	27.79	27.69	27.82	27.82	27.76	27.86	27.92	27.80	27.85	27.81	
	MEAN SEA-LEVEL PRESS. (IN.)	30.18	30.02	30.07	30.04	29.91	30.03	30.03	29.97	30.09	30.19	30.09	30.16	30.07	
WINDS	RESULTANT SPEED (MPH)	3.5	2.7	1.2	0.8	1.7	1.2	1.9	1.6	1.0	3.0	3.3	2.0	1.9	
	RES. DIR. (TENS OF DEGS.)	33	32	32	31	29	31	33	35	33	34	33	33	33	
	MEAN SPEED (MPH)	8.3	8.3	7.9	6.8	7.2	5.0	4.5	4.7	4.6	5.2	6.5	7.8	6.4	
	PREVAIL.DIR.(TENS OF DEGS.)	34	34	35	34	34	33	34	34	34	34	34	34	34	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	32	32	36	24	44	26	25	22	23	33	31	33	44	
	DIR. (TENS OF DEGS.)	34	32	34	34	33	34	34	33	33	33	33	33	33	
	DATE OF OCCURRENCE	02	10	20	20	12	30	01	06	26	28	21	31	MAY 12	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	43	45	41	32	52	33	32	26	28	43	41	46	52	
DIR. (TENS OF DEGS.)	34	29	33	33	33	33	33	35	32	33	33	34	33		
DATE OF OCCURRENCE	02	10	20	29	12	30	01	06	26	28	21	31	MAY 12		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	2.56	3.79	4.51	2.84	1.33	0.85	4.02	5.84	1.70	1.84	1.61	4.74	35.63	
	GREATEST 24-HOUR (IN.)	0.99	1.28	1.62	0.82	0.58	0.23	1.35	4.23	0.74	1.06	0.93	2.02	4.23	
	DATE OF OCCURRENCE	10-11	17	04	27-28	27-28	28	06	26-27	10-11	24-25	13	09-10	AUG 26-27	
	NUMBER OF DAYS WITH:														
PRECIPITATION 0.01	11	10	8	14	11	11	12	8	8	4	8	11	116		
PRECIPITATION 0.10	5	6	6	9	5	3	7	5	4	4	3	9	66		
PRECIPITATION 1.00	0	2	2	0	0	0	1	1	0	0	0	2	8		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	3.7	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	T	T	3.7	
	GREATEST 24-HOUR (IN.)	1.5	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	T	T	1.5	
	DATE OF OCCURRENCE	17+	28+								28+	21+	01	JAN 17+	
	MAXIMUM SNOW DEPTH (IN.)	3	0	0	0	0	0	0	0	0	0	0	0	3	
	DATE OF OCCURRENCE	17												JAN 17	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	2	0	0	0	0	0	0	0	0	0	0	0	2		

PRECIPITATION (inches) 2008 ASHEVILLE (KAVL)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1979	6.81	5.14	5.72	7.26	5.35	2.20	5.52	3.63	5.60	1.40	7.76	1.05	57.44
1980	2.85	0.53	8.26	4.77	4.54	4.68	2.21	2.38	4.36	2.62	3.04	0.59	40.83
1981	0.45	4.80	3.24	2.07	7.50	4.41	2.06	0.52	1.36	2.19	1.19	4.79	34.58
1982	5.41	7.02	1.92	3.62	3.78	3.98	9.92	1.73	1.33	3.48	4.59	4.04	50.82
1983	3.39	5.63	6.27	5.27	3.48	3.71	1.06	0.95	5.66	4.43	4.77	8.30	52.92
1984	2.36	6.43	4.82	4.05	6.62	3.69	5.88	5.02	0.16	2.73	2.61	1.34	45.71
1985	2.95	4.74	0.77	2.74	1.59	1.47	4.37	7.04	1.25	3.41	4.91	0.70	35.94
1986	1.11	1.85	2.75	0.57	3.55	1.28	0.46	6.10	3.15	4.19	5.28	4.28	34.57
1987	3.49	6.17	2.85	3.67	1.87	8.94	1.86	1.79	6.79	0.36	3.09	2.33	43.21
1988	3.71	0.88	1.31	3.46	1.06	0.94	2.65	1.78	2.79	3.12	3.47	1.41	26.58
1989	1.65	4.61	2.91	3.17	5.54	10.73	8.33	4.98	8.17	2.98	4.27	3.29	60.63
1990	3.27	8.07	5.95	1.96	5.09	0.90	6.55	7.78	1.43	8.82	1.55	4.50	55.87
1991	3.25	1.66	6.13	5.38	2.41	5.27	6.07	3.83	1.27	0.19	3.34	4.86	43.66
1992	3.08	3.66	3.52	3.99	6.18	6.62	1.10	7.64	3.15	4.15	7.24	3.71	54.04
1993	3.82	2.03	6.16	3.21	4.59	1.12	2.07	5.29	1.56	1.21	3.32	3.59	37.97
1994	5.35	5.11	7.52	3.30	1.74	5.89	6.76	6.01	5.33	4.27	3.15	3.03	57.46
1995	7.03	2.93	2.42	0.98	6.04	8.89	3.61	9.22	1.95	7.23	3.66	1.43	55.39
1996	7.22	2.71	3.36	2.00	2.55	3.54	4.83	6.68	5.22	0.68	4.45	3.92	47.16
1997	4.44	5.29	5.48	5.26	2.91	8.29	2.97	1.37	4.89	3.90	1.60	2.98	49.38
1998	9.96	6.38	3.71	8.70	2.22	3.64	1.97	2.23	1.62	1.79	2.76	3.04	48.02
1999	6.38	3.29	2.82	2.44	2.53	4.39	3.85	3.37	2.20	3.29	3.31	1.98	39.85
2000	3.10	2.33	3.82	5.11	1.27	2.78	2.84	4.45	3.27	0.00	4.25	2.37	35.59
2001	2.63	2.73	5.00	1.32	2.47	2.91	5.50	3.20	4.37	0.60	1.42	2.34	34.49
2002	3.64	1.30	4.36	1.73	3.42	6.13	1.98	2.09	6.05	3.14	4.23	6.40	44.47
2003	1.19	4.47	4.34	5.25	8.36	6.16	10.88	6.80	3.01	2.33	3.89	2.78	59.46
2004	0.83	4.20	2.02	2.95	3.23	7.39	4.68	3.79	13.71	1.11	5.02	3.43	52.36
2005	2.00	2.57	3.33	2.86	1.65	10.09	10.26	5.71	0.34	1.20	3.74	3.51	47.26
2006	3.58	2.55	0.91	4.58	1.69	5.16	2.81	7.12	7.80	2.93	4.52	4.64	48.29
2007	3.35	1.45	4.29	1.77	0.96	2.91	4.85	2.84	3.40	3.02	1.49	4.06	34.39
2008	2.56	3.79	4.51	2.84	1.33	0.85	4.02	5.84	1.70	1.84	1.61	4.74	35.63
POR= 57 YRS	3.58	3.59	4.42	3.48	3.87	4.27	4.52	4.49	3.67	3.12	3.50	3.50	46.01

WBAN : 03812

AVERAGE TEMPERATURE (°F) 2008 ASHEVILLE (KAVL)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1979	34.2	35.8	50.0	55.9	64.3	68.8	72.2	73.2	66.5	55.3	49.2	42.0	55.6
1980	40.5	35.1	46.2	56.5	64.8	71.7	77.5	74.8	70.2	54.7	47.1	39.6	56.6
1981	33.3	39.9	44.9	60.1	60.7	74.3	75.0	71.7	66.1	54.5	48.2	35.8	55.4
1982	32.3	41.2	50.0	53.6	67.3	71.5	74.6	71.7	64.5	56.3	47.1	44.9	56.3
1983	36.7	38.8	46.7	51.1	61.6	69.0	75.7	76.5	66.6	57.5	47.3	36.4	55.3
1984	34.0	40.5	44.8	51.7	59.9	70.0	70.6	71.6	62.8	62.7	43.1	46.3	54.8
1985	30.5	38.3	48.1	56.6	62.6	69.8	72.2	70.9	64.2	60.5	56.0	34.7	55.4
1986	35.0	42.2	46.0	56.0	63.3	71.7	76.1	70.9	68.0	57.4	50.7	39.8	56.4
1987	35.3	38.9	46.5	52.6	66.7	71.2	74.7	74.7	66.5	50.1	47.0	42.2	55.5
1988	32.1	37.1	47.1	54.6	61.1	69.3	73.8	74.6	66.3	50.2	46.7	38.7	54.3
1989	42.1	39.8	50.3	54.5	59.4	70.0	73.3	71.9	65.8	56.1	46.2	31.6	55.1
1990	42.8	45.6	50.4	54.2	63.3	70.9	73.8	73.9	67.6	57.8	49.9	45.5	58.0
1991	39.2	42.5	49.6	58.4	67.3	70.3	75.2	72.1	67.3	57.0	45.5	43.4	57.3
1992	40.7	44.2	46.3	55.9	59.9	68.1	74.9	70.4	67.8	54.4	46.2	39.2	55.7
1993	42.0	38.0	43.0	52.6	63.2	71.4	78.0	73.9	67.8	55.0	46.0	36.8	55.6
1994	32.4	40.6	47.3	58.5	60.2	72.6	73.1	71.4	64.6	55.9	50.1	43.6	55.9
1995	38.9	38.4	49.4	56.4	64.1	68.5	75.0	75.3	65.4	56.8	43.3	37.1	55.7
1996	35.3	39.5	41.4	53.6	66.1	69.6	72.0	71.5	64.4	55.8	42.3	40.5	54.3
1997	36.5	43.2	51.5	51.5	58.4	66.5	73.4	70.6	66.1	55.4	42.3	36.9	54.4
1998	41.3	42.2	43.9	54.1	66.5	71.7	74.9	73.4	70.3	58.3	49.2	43.9	57.5
1999	41.7	42.4	42.9	58.5	61.9	69.3	74.3	74.1	65.6	56.0	51.3	41.9	56.7
2000	36.0	43.3	49.9	53.0	66.2	70.6	72.8	71.7	65.2	57.2	44.6	32.5	55.3
2001	36.7	44.5	44.6	58.2	64.0	70.5	72.9	73.8	64.5	53.9	51.7	44.8	56.7
2002	41.1	40.3	47.5	59.1	62.2	70.8	74.6	73.3	68.8	59.7	44.8	38.6	56.7
2003	33.7	39.6	50.1	55.2	62.8	68.1	72.0	73.7	65.2	54.8	51.4	36.6	55.3
2004	35.9	38.3	49.5	55.2	66.3	70.5	72.9	70.8	66.5	61.0	50.3	38.5	56.3
2005	40.8	41.8	45.4	54.5	60.6	69.5	74.5	74.0	68.4	58.5	48.3	36.6	56.1
2006	43.2	39.0	47.5	58.6	61.5	69.5	73.6	74.3	64.3	54.2	47.0	42.6	56.3
2007	39.5	36.3	52.0	53.1	63.5	71.3	71.4	76.7	68.1	59.6	45.5	43.9	56.7
2008	36.4	42.5	46.1	55.3	62.9	72.5	72.9	72.8	67.1	54.1	43.0	42.0	55.6
POR= 57 YRS	37.3	39.4	46.5	55.1	62.9	69.7	73.3	72.4	66.0	55.8	46.4	39.5	55.3

HEATING DEGREE DAYS (base 65°F) 2008 ASHEVILLE (KAVL)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1979-80	5	0	44	299	468	707	753	861	573	258	65	2	4035
1980-81	0	0	37	315	533	778	978	696	615	152	152	0	4256
1981-82	0	1	57	326	499	897	1006	659	458	333	38	0	4274
1982-83	0	0	74	274	531	616	872	725	562	410	127	13	4204
1983-84	0	0	84	229	527	882	955	706	618	391	176	9	4577
1984-85	1	0	107	91	648	576	1064	737	520	249	109	19	4121
1985-86	0	6	111	156	266	932	923	633	581	273	91	2	3974
1986-87	0	32	16	268	419	774	913	725	567	369	40	1	4124
1987-88	0	0	47	452	532	702	1013	802	545	308	132	31	4564
1988-89	5	0	33	453	544	808	702	698	454	331	200	4	4232
1989-90	1	8	74	279	558	1028	679	535	446	321	91	3	4023
1990-91	0	0	55	229	445	601	793	627	472	204	53	16	3495
1991-92	0	1	64	242	578	663	748	596	573	274	169	25	3933
1992-93	0	0	34	324	558	794	708	751	677	365	82	9	4302
1993-94	0	0	44	310	563	866	1005	676	544	206	165	0	4379
1994-95	0	1	52	276	441	656	803	736	474	264	87	17	3807
1995-96	0	0	50	255	645	856	912	735	725	341	78	20	4617
1996-97	0	0	76	284	673	753	876	601	412	400	212	64	4351
1997-98	0	5	35	292	675	863	727	631	647	322	71	23	4291
1998-99	0	0	11	214	465	649	718	627	680	210	100	7	3681
1999-00	6	0	56	274	405	705	893	621	460	353	41	11	3825
2000-01	1	1	88	238	607	998	872	566	628	222	63	1	4285
2001-02	0	0	97	340	391	620	735	687	536	201	130	1	3738
2002-03	0	0	10	202	600	811	966	705	454	289	88	19	4144
2003-04	0	0	52	309	411	874	894	767	478	295	49	1	4130
2004-05	0	3	21	128	436	817	744	644	602	309	143	22	3869
2005-06	0	0	4	215	496	877	668	724	537	203	149	10	3883
2006-07	0	0	68	332	531	684	785	796	393	352	81	0	4022
2007-08	0	0	34	198	576	650	880	645	579	288	97	0	3947
2008-	1	0	35	330	653	706							

WBAN : 03812

COOLING DEGREE DAYS (base 65°F) 2008 ASHEVILLE (KAVL)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1979	0	0	0	1	55	141	234	261	96	4	0	0	792
1980	0	0	0	8	64	210	396	311	198	4	0	0	1191
1981	0	0	0	10	25	286	316	213	98	7	0	0	955
1982	0	0	0	0	117	206	305	215	64	16	0	0	923
1983	0	0	0	0	25	139	335	362	141	5	0	0	1007
1984	0	0	0	0	25	165	180	211	49	27	0	0	657
1985	0	0	5	2	43	170	229	194	90	25	4	0	762
1986	0	0	0	8	43	209	353	222	112	38	0	0	985
1987	0	0	0	7	97	192	310	309	97	0	0	0	1012
1988	0	0	0	0	18	168	282	304	79	3	0	0	854
1989	0	0	5	23	34	159	264	229	107	11	0	0	832
1990	0	0	0	3	48	187	279	283	141	11	0	0	952
1991	0	0	3	13	132	181	324	227	139	3	0	0	1022
1992	0	0	0	7	20	125	313	174	125	0	0	0	764
1993	0	0	0	0	37	210	411	285	133	5	0	0	1081
1994	0	0	0	15	21	233	259	205	43	2	0	0	778
1995	0	0	1	12	65	127	315	325	68	8	0	0	921
1996	0	0	0	6	120	164	224	209	64	5	0	0	792
1997	0	0	0	0	13	116	265	184	76	1	0	0	655
1998	0	0	0	1	124	230	315	269	178	14	0	0	1131
1999	0	0	0	23	9	143	304	291	78	3	0	0	851
2000	0	0	0	0	83	187	251	215	103	4	1	0	844
2001	0	0	0	24	42	172	249	282	87	1	0	0	857
2002	0	0	0	32	50	181	305	267	130	47	0	0	1012
2003	0	0	0	0	29	117	223	281	65	0	9	0	724
2004	0	0	0	8	96	173	254	189	71	9	4	0	804
2005	0	0	0	0	14	167	302	285	112	20	0	0	900
2006	0	0	0	18	45	153	274	297	54	4	0	0	845
2007	0	0	0	1	42	192	208	370	133	38	0	0	984
2008	0	0	0	0	39	232	253	245	104	2	0	0	875

SNOWFALL (inches) 2008 ASHEVILLE (KAVL)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1979-80	0.0	0.0	0.0	0.0	T	T	2.1	6.3	5.4	T	0.0	0.0	13.8
1980-81	0.0	0.0	0.0	0.0	T	T	4.7	T	9.9	0.0	0.0	0.0	14.6
1981-82	0.0	0.0	0.0	0.0	T	2.0	8.6	8.1	0.1	3.0	0.0	0.0	21.8
1982-83	0.0	0.0	0.0	0.0	0.0	0.4	10.5	9.3	4.5	2.0	0.0	0.0	26.7
1983-84	0.0	0.0	0.0	0.0	T	T	0.2	2.9	T	0.0	0.0	0.0	3.1
1984-85	0.0	0.0	0.0	0.0	0.0	T	4.5	3.1	0.1	0.4	0.0	0.0	8.1
1985-86	0.0	0.0	0.0	0.0	0.0	0.4	0.8	3.7	0.1	T	0.0	0.0	5.0
1986-87	0.0	0.0	0.0	0.0	T	T	15.0	2.7	0.3	11.5	0.0	0.0	29.5
1987-88	0.0	0.0	0.0	0.0	0.3	0.5	14.2	T	T	1.2	0.0	0.0	16.2
1988-89	0.0	0.0	0.0	0.0	0.0	T	1.2	6.0	T	1.0	0.0	0.0	8.2
1989-90	0.0	0.0	0.0	T	T	3.0	T	T	T	0.0	0.0	0.0	3.0
1990-91	0.0	T	0.0	0.0	0.0	T	T	0.4	3.1	0.0	0.0	T	3.5
1991-92	0.0	0.0	0.0	0.0	1.0	0.0	T	T	0.5	0.0	T	0.0	1.5
1992-93	0.0	0.0	0.0	0.0	T	T	T	3.0	18.2	T	T	0.0	21.2
1993-94	0.0	0.0	0.0	T	T	8.0	2.6	0.3	0.1	T	0.0	0.0	11.0
1994-95	T	0.0	0.0	0.0	0.0	T	0.2	3.2	T	0.0	0.0	T	3.4
1995-96	0.0	0.0	0.0	0.0	T	0.1	15.7	4.4	1.5	T	0.0	T	21.7
1996-97	0.0	0.0	0.0	0.0	0.1	2.5	3.8	1.9	T	T	0.0	0.0	8.3
1997-98	0.0	0.0	0.0	0.0	T	4.5	12.7	T	0.4	0.0	0.0	0.0	17.6
1998-99	0.0	0.0	0.0	0.0	0.0	0.4	1.6	T	4.2	0.0	0.0	0.0	6.2
1999-00	0.0	0.0	0.0	0.0	0.1	T	6.2	T	T	0.1	0.0	0.0	6.4
2000-01	0.0	0.0	0.0	0.0	2.0	6.1	T	0.8	6.4	0.2	0.0	0.0	15.5
2001-02	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.3	T	0.0	0.0	0.0	1.6
2002-03	0.0	0.0	0.0	0.0	T	4.0	4.2	3.7	2.0	4.0	T	0.0	17.9
2003-04	T	0.0	0.0	0.0	T	3.5	4.0	6.8	T	T	0.0	0.0	14.3
2004-05	0.0	0.0	0.0	0.0	0.0	0.6	1.6	4.0	0.3	0.1	0.0	0.0	6.6
2005-06	0.0	0.0	0.0	0.0	T	T	T	1.4	T	0.0	0.0	0.0	1.4
2006-07	0.0	0.0	0.0	0.0	T	T	0.9	1.0	T	1.3	0.0	0.0	3.2
2007-08	0.0	0.0	0.0	0.0	T	0.1	3.7	T	0.0	0.0	0.0	0.0	3.8
2008-	0.0	0.0	0.0	T	T	T							
POR= 57 YRS	T	T	0.0	T	0.6	1.5	3.8	3.2	1.8	0.4	T	T	11.3

WBAN : 03812

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.</p>	<p>GENERAL CONTINUED: 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. 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.</p> <p>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.</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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2008 ASHEVILLE NORTH CAROLINA (KAVL)

The city of Asheville is located on both banks of the French Broad River, near the center of the French Broad Basin. Upstream from Asheville, the valley runs south for 18 miles and then curves toward the south-southwest. Downstream from the city, the valley is oriented toward the north-northwest. Two miles upstream from the principal section of Asheville, the Swannanoa River joins the French Broad from the east. The entire valley is known as the Asheville Plateau, having an average elevation near 2,200 feet above sea level, and is flanked by mountain ridges to the east and west, whose peaks range from 2,000 to 4,400 feet above the valley floor. At the Carolina-Tennessee border, about 25 miles north-northwest of Asheville, a relatively high ridge of mountains blocks the northern end of the valley. Thirty miles south, the Blue Ridge Mountains form an escarpment, having a general elevation of about 2,700 feet above sea level. The tallest peaks near Asheville are Mt. Mitchell, 6,684 feet above sea level, 20 miles northeast of the city, and Big Pisgah Mountain, 5,721 feet above sea level, 16 miles to the southwest.

Asheville has a temperate, but invigorating, climate. Considerable variation in temperature often occurs from day to day in summer, as well as during the other seasons.

While the office was located in the city, the combination of roof exposure conditions and a smoke blanket, caused by inversions in temperature in the valley on quiet nights, resulted in higher early morning temperatures at City Office sites than were experienced nearer ground level in nearby rural areas. The growing season in this area is of sufficient length for commercial crops, the average length of freeze-free period being about 195 days. The average last occurrence in spring of a temperature 32 degrees or lower is mid-April and the average first occurrence in fall of 32 degrees is late October.

The orientation of the French Broad Valley appears to have a pronounced influence on the wind direction. Prevailing winds are from the northwest during all months of the year. Also, the shielding effect of the nearby mountain barriers apparently has a direct bearing on the annual amount of precipitation received in this vicinity. In an area northwest of Asheville, the average annual precipitation is the lowest in North Carolina. Precipitation increases sharply in all other directions, especially to the south and southwest.

Destructive events caused directly by meteorological conditions are infrequent. The most frequent, occurring at approximately 12-year intervals, are floods on the French Broad River. These floods are usually associated with heavy rains caused by storms moving out of the Gulf of Mexico. Snowstorms which have seriously disrupted normal life in this community are infrequent. Hailstorms that cause property damage are extremely rare.

Station Location

ASHEVILLE

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	Latitude		Longitude		ELEVATION ABOVE								REMARKS
				NORTH	WEST	SEA LEVEL	GROUND							AUTOMATIC OBSERVING EQUIPMENT *		
							GROUND TEMPERATURE SITE	WIND INSTRUMENT	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET RAIN GAUGE	WEIGHING RAIN GAUGE		8 INCH RAIN GAUGE	
*NOTE:																
AIRPORT																
Administration Building Asheville Airport+	9/1/64	06/01/96	12 mi. S of Post Office	35° 26'	82° 32'	2140	20 h20	d4 g4 i4	3 g3 i3	57 e21	4 g4 i3	3 g3 i3	4 f4 h4	c. Resurvey effective 6/20/75. d. Installed 12/15/77. e. Lowered 10/5/84. f. Type change 10/18/84. g. Moved 30-35' N 3/4/87. h. Moved 600' N 11/1/89. i. Moved 50' N 11/8/89.		
+ Asheville Regional AP (Effective 7/1/80)																
Asheville Regional Airport	06/01/96	Present	NA	35° 26'	82° 32'	j2171								s ASOS Commissioned 06/01/96 j. Ground elevation.		

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* NOTES: For earlier station history see previous edition.