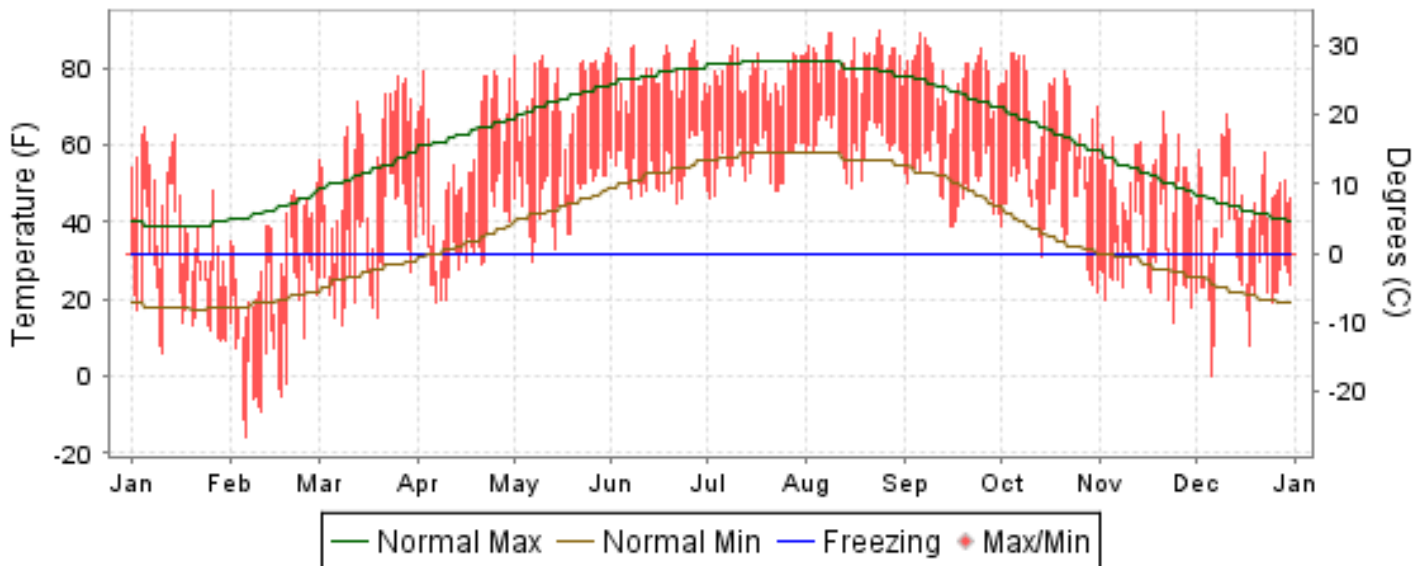




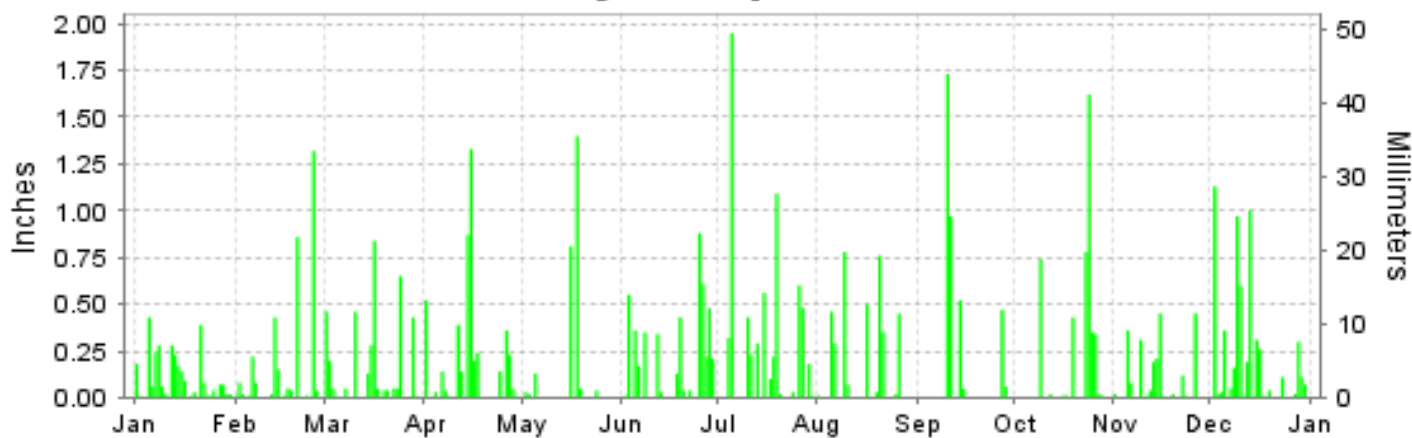
# 2007 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

ISSN 0198-5620

## ELKINS, WEST VIRGINIA (KEKN) 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.

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ENVIRONMENTAL SATELLITE, DATA  
AND INFORMATION SERVICE

NATIONAL  
CLIMATIC DATA CENTER  
ASHEVILLE, NORTH CAROLINA

*Thomas R. Karl*  
DIRECTOR  
NATIONAL CLIMATIC DATA CENTER

# METEOROLOGICAL DATA FOR 2007

## ELKINS (KEKN)

LATITUDE: 38° 53'N      LONGITUDE: -79° 51'W      ELEVATION (FT): GRND: 1979    BARO: 1982      TIME ZONE: EASTERN (UTC -5)      WBAN: 13729

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	42.3	31.6	57.2	58.2	74.5	78.4	78.3	82.9	78.3	69.5	52.3	46.3	62.5	
	HIGHEST DAILY MAXIMUM	65	50	78	79	85	87	86	90	89	84	69	68	90	
	DATE OF OCCURRENCE	05	28	26	25+	31	27	09	24	06	05+	21	11	AUG 24	
	MEAN DAILY MINIMUM	23.6	10.4	31.9	34.6	46.7	53.8	55.7	60.9	51.3	43.8	30.3	26.9	39.2	
	LOWEST DAILY MINIMUM	6	-16	13	19	30	45	46	49	39	22	14	0	-16	
	DATE OF OCCURRENCE	11	06	08	07	07	21	02	15	16+	31	24	06	FEB 06	
	AVERAGE DRY BULB	33.0	21.0	44.6	46.4	60.6	66.1	67.0	71.9	64.8	56.7	41.3	36.6	50.8	
	MEAN WET BULB	30.0	19.1	39.3	41.2	53.8	60.2	61.9	66.8	58.5	51.0	37.8	33.9	46.1	
	MEAN DEW POINT	24.8	12.3	32.0	35.1	47.7	56.7	59.3	64.6	55.5	47.5	32.4	30.0	41.5	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	0	0	0	0	1	0	0	0	0	1
	MAXIMUM <= 32°	10	14	3	2	0	0	0	0	0	0	0	4	33	
MINIMUM <= 32°	26	27	17	14	1	0	0	0	0	5	19	23	132		
MINIMUM <= 0°	0	9	0	0	0	0	0	0	0	0	0	1	10		
H/C	HEATING DEGREE DAYS	988	1225	629	552	155	37	30	4	75	273	706	873	5547	
	COOLING DEGREE DAYS	0	0	0	0	24	77	100	227	77	22	0	0	527	
RH	MEAN (PERCENT)	74	68	66	68	67	77	81	82	81	79	73	80	75	
	HOUR 01 LST	78	75	77	81	86	96	97	97	98	92	83	82	87	
	HOUR 07 LST	78	77	73	74	76	86	94	92	94	93	84	85	84	
	HOUR 13 LST	63	55	48	52	43	53	59	58	48	52	58	71	55	
	HOUR 19 LST	74	66	68	66	67	82	87	90	92	86	70	83	78	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	9	3	4	3	11	14	21	17	23	17	4	5	131	
	THUNDERSTORMS	0	0	0	0	0	0	0	0	0	0	0	0	0	
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.)	27.83	27.89	28.04	27.86	28.07	27.97	27.98	27.99	28.09	28.04	28.00	27.99	27.98	
	MEAN SEA-LEVEL PRESS. (IN.)	30.02	30.23	30.18	29.97	30.16	30.04	30.05	30.06	30.18	30.14	30.13	30.13	30.11	
WINDS	RESULTANT SPEED (MPH)	3.9	3.6	3.2	4.3	1.6	1.5	1.1	1.1	0.9	1.1	2.9	2.8	2.3	
	RES. DIR. (TENS OF DEGS.)	28	29	28	29	30	30	28	29	29	26	26	25	29	
	MEAN SPEED (MPH)	6.3	5.7	5.9	6.8	3.5	2.9	2.6	2.2	1.9	2.9	4.4	5.3	4.2	
	PREVAIL.DIR.(TENS OF DEGS.)	31	31	32	31	34	31	29	32	31	31	29	16	31	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	29	29	29	31	22	25	25	37	26	25	33	36	37	
	DIR. (TENS OF DEGS.)	31	29	23	31	32	28	31	19	15	33	29	25	19	
	DATE OF OCCURRENCE	08	22	02	16	19	08	27	09	27	09	26	16	AUG 09	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	39	48	39	48	33	39	33	52	40	40	53	49	53	
DIR. (TENS OF DEGS.)	27	31	26	30	30	27	33	20	16	34	29	27	29		
DATE OF OCCURRENCE	19	22	02	16	01	08	27	09	27	09	26	03	NOV 26		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	2.94	3.35	3.80	4.70	2.48	4.85	6.51	3.72	3.80	4.33	2.28	5.75	48.51	
	GREATEST 24-HOUR (IN.)	0.52	1.32	1.04	1.92	1.40	0.88	1.99	1.05	2.68	2.02	0.61	1.31	2.68	
	DATE OF OCCURRENCE	07-08	25	15-16	14-15	18	25	04-05	20-21	10-11	23-24	14-15	09-10	SEP 10-11	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	24	16	17	16	7	16	15	11	6	11	14	20	173	
PRECIPITATION 0.10	9	5	8	11	3	12	12	7	4	6	7	12	96		
PRECIPITATION 1.00	0	1	0	1	1	0	2	0	1	1	0	2	9		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	24.4	20.8	8.8	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.8	14.3	75.4	
	GREATEST 24-HOUR (IN.)	4.3	4.4	4.2	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.4	6.5	6.5	
	DATE OF OCCURRENCE	25	18	17	07							16+	05	DEC 05	
	MAXIMUM SNOW DEPTH (IN.)	6	9	3	4	0	0	0	0	0	0	1	7	9	
	DATE OF OCCURRENCE	26	19+	18	07							16	06	FEB 19+	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	7	7	3	3	0	0	0	0	0	0	0	4	24		

# NORMALS, MEANS, AND EXTREMES ELKINS (KEKN)

LATITUDE:  
38° 53'N

LONGITUDE:  
-79° 51'W

ELEVATION (FT):  
GRND: 1979 BARO: 1982

TIME ZONE:  
EASTERN (UTC -5)

WBAN: 13729

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	39.3	43.5	53.2	63.2	71.7	78.5	81.7	80.4	74.1	64.1	52.8	43.5	62.2
	MEAN DAILY MAXIMUM	81	40.2	41.2	51.2	61.3	71.2	76.9	81.1	80.0	73.6	64.4	52.0	42.9	61.3
	HIGHEST DAILY MAXIMUM	63	76	75	84	89	93	96	99	95	97	87	82	76	99
	YEAR OF OCCURRENCE		2002	2001	1954	1986	1996	2005	1988	1948	1953	2005	2004	1951	JUL 1988
	MEAN OF EXTREME MAXS.	81	62.8	64.4	75.0	81.0	84.4	87.3	88.7	88.0	85.1	79.3	72.4	64.6	77.8
	NORMAL DAILY MINIMUM	30	18.0	19.7	26.9	34.6	44.1	52.7	57.6	56.7	50.1	37.0	29.3	21.9	37.4
	MEAN DAILY MINIMUM	81	19.7	20.0	27.7	35.7	45.2	52.8	58.0	56.9	49.5	38.1	29.5	22.4	38.0
	LOWEST DAILY MINIMUM	63	-24	-22	-15	3	20	25	32	34	27	11	0	-24	-24
	YEAR OF OCCURRENCE		1984	1996	1978	1985	1978	1977	1988	1965	1963	1952	1958	1989	DEC 1989
	MEAN OF EXTREME MINS.	81	-6.8	-4.0	6.7	18.7	28.1	38.4	44.9	45.1	34.3	21.0	11.5	-1.2	19.7
	NORMAL DRY BULB	30	28.6	31.6	40.0	48.9	57.9	65.6	69.6	68.5	62.1	50.6	41.0	32.7	49.8
	MEAN DRY BULB	81	29.9	30.6	39.5	48.5	58.2	65.0	69.6	68.5	61.6	51.3	40.8	32.7	49.7
	MEAN WET BULB	24	27.3	29.0	35.4	44.1	53.0	61.3	65.2	64.1	57.5	46.6	37.9	30.0	46.0
	MEAN DEW POINT	24	22.7	24.0	29.6	37.3	48.7	58.1	62.5	61.6	54.8	42.5	33.2	25.6	41.7
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.0	0.1	0.3	1.4	1.3	*	0.0	0.0	0.0	3.1
	MAXIMUM <= 32	30	9.8	7.2	2.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	1.6	6.1	27.3
MINIMUM <= 32	30	26.5	23.8	21.6	13.1	3.4	0.1	*	0.0	0.6	11.5	19.7	25.0	145.3	
MINIMUM <= 0	30	3.9	2.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	8.5	
H/C	NORMAL HEATING DEG. DAYS	30	1133	951	790	498	251	70	15	23	134	456	719	996	6036
	NORMAL COOLING DEG. DAYS	30	0	0	0	2	16	76	153	126	41	2	0	0	416
RH	NORMAL (PERCENT)	30													
	hour 01 LST	30													
	hour 07 LST	30													87
	hour 13 LST	30													59
	hour 19 LST	30													71
S	PERCENT POSSIBLE SUNSHINE	11	29	32	39	46	44	48	44	44	45	46	37	28	40
W/O	MEAN NO. DAYS WITH: HEAVY FOG (VISBY <= 1/4 MI)	30	2.9	1.9	2.5	3.0	6.0	9.9	11.4	14.8	14.0	9.9	3.1	2.6	82.0
	THUNDERSTORMS	38	0.3	0.5	1.6	3.3	5.8	6.9	8.1	5.6	2.3	0.9	0.5	0.4	36.2
CLOUDNESS	MEAN: SUNRISE-SUNSET (OKTAS)	50	6.4	6.2	6.1	5.8	5.7	5.8	5.6	5.5	5.3	5.0	5.9	6.2	5.8
	MIDNIGHT-MIDNIGHT (OKTAS)	5	4.7	4.5	4.5	4.9	4.4	4.0	4.4	4.3	4.0	3.4	4.3	4.7	4.3
	MEAN NO. DAYS WITH: CLEAR	50	3.4	3.4	4.2	4.1	4.4	3.1	2.4	2.5	4.2	7.2	4.4	4.1	47.4
	PARTLY CLOUDY	50	5.6	5.5	6.4	7.8	9.3	11.1	12.3	13.4	11.1	8.2	6.2	5.3	102.2
	CLOUDY	50	22.0	19.3	20.4	18.1	17.3	15.9	15.7	14.5	14.3	12.9	18.7	21.0	210.1
PR	MEAN STATION PRESSURE (IN)	24	27.96	27.96	27.94	27.90	27.95	27.98	28.01	28.03	28.04	28.03	28.01	27.99	27.98
	MEAN SEA-LEVEL PRES. (IN)	24	30.12	30.12	30.07	30.01	30.04	30.05	30.07	30.10	30.13	30.15	30.15	30.15	30.10
WINDS	MEAN SPEED (MPH)	24	6.3	6.3	6.6	6.6	5.3	4.3	4.0	3.5	3.7	4.3	5.4	5.7	5.2
	PREVAIL. DIR (TENS OF DEGS)	13	31	31	31	32	32	31	31	31	31	31	31	31	31
	MAXIMUM 2-MINUTE: SPEED (MPH)	11	38	35	35	40	39	40	28	37	31	30	33	40	40
	DIR. (TENS OF DEGS)		28	32	30	30	30	27	25	19	32	26	29	27	27
	YEAR OF OCCURRENCE		1999	2006	2006	1999	2004	1998	2003	2007	1999	2001	2007	2000	DEC 2000
	MAXIMUM 5-SECOND SPEED (MPH)	11	51	48	54	51	54	64	37	52	48	45	53	59	64
	DIR. (TENS OF DEGS)		27	31	31	31	31	02	23	20	27	28	29	27	02
YEAR OF OCCURRENCE		1999	2007	2006	1999	2004	1998	2003	2007	1998	2001	2007	2000	JUN 1998	
PRECIPITATION	NORMAL (IN)	30	3.43	3.20	3.92	3.53	4.77	4.61	4.84	4.26	3.83	2.86	3.42	3.44	46.11
	MAXIMUM MONTHLY (IN)	63	6.27	6.51	8.85	6.95	15.76	10.05	12.02	10.40	8.88	8.43	11.08	6.73	15.76
	YEAR OF OCCURRENCE		1999	1994	1963	1972	1996	1998	1996	1980	2000	1954	1985	1978	MAY 1996
	MINIMUM MONTHLY (IN)	63	1.05	0.79	1.39	1.02	1.45	1.11	1.31	1.09	0.32	0.31	0.86	0.90	0.31
	YEAR OF OCCURRENCE		1967	1978	1957	1971	1970	2005	1987	1976	1985	1963	2001	1965	OCT 1963
	MAXIMUM IN 24 HOURS (IN)	63	1.85	3.09	2.94	2.02	3.35	2.63	3.31	3.21	3.74	3.62	5.10	2.22	5.10
	YEAR OF OCCURRENCE		1971	1994	1963	1966	1996	1986	2002	1969	2000	1985	1985	1970	NOV 1985
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	18.0	15.8	16.3	15.1	14.8	14.4	14.3	12.9	12.0	11.5	14.0	17.3	176.4
PRECIPITATION >= 1.00	30	0.2	0.3	0.4	0.3	0.7	1.0	1.0	0.7	0.9	0.3	0.5	0.4	6.7	
SNOWFALL	NORMAL (IN)	30	24.3	17.4	12.8	5.2	0.*	0.0	0.0	0.0	0.0	0.6	5.9	14.3	80.5
	MAXIMUM MONTHLY (IN)	37	54.1	32.0	33.5	24.8	0.7	T	0.0	0.0	0.0	3.9	23.7	36.7	54.1
	YEAR OF OCCURRENCE		1985	1986	1993	1987	1963	1994				1979	1995	1993	JAN 1985
	MAXIMUM IN 24 HOURS (IN)	37	18.8	12.8	16.9	11.6	0.7	T	0.0	0.0	0.0	3.6	12.4	17.8	18.8
	YEAR OF OCCURRENCE		1996	1983	1993	1987	1963	1994				1979	1970	1967	JAN 1996
	MAXIMUM SNOW DEPTH (IN)	43	20	17	18	20	0	0	0	0	0	2	19	17	20
	YEAR OF OCCURRENCE		1977	1977	1993	1962						1979	1950	1967	JAN 1977
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	6.7	5.9	4.0	1.6	0.0	0.0	0.0	0.0	0.0	0.2	2.4	4.8	25.6	

**PRECIPITATION (inches) 2007 ELKINS (KEKN)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1978	4.26	0.79	2.25	1.99	4.24	6.84	7.28	4.85	1.47	1.88	2.90	6.73	45.48
1979	5.88	3.63	2.03	3.40	5.71	4.94	6.22	5.06	4.61	5.16	3.54	2.33	52.51
1980	2.75	1.90	4.80	5.46	3.66	5.04	7.80	10.40	3.94	1.99	3.76	2.08	53.58
1981	1.15	4.22	2.76	3.72	5.79	8.33	3.43	1.72	6.26	3.48	1.54	3.17	45.57
1982	3.53	4.14	6.34	2.15	2.26	6.46	6.01	4.61	4.35	1.42	3.92	2.55	47.74
1983	1.59	1.50	3.69	5.26	5.49	4.05	2.03	3.59	1.98	4.13	3.65	3.57	40.53
1984	1.69	4.42	4.89	3.96	2.64	2.52	5.66	7.21	2.23	4.08	3.94	3.87	47.11
1985	3.26	1.99	4.68	2.44	6.95	3.56	5.58	2.78	0.32	6.00	11.08	2.59	51.23
1986	2.09	5.27	3.44	3.38	3.04	7.84	6.42	5.03	4.29	2.91	5.68	2.61	52.00
1987	4.00	2.95	1.50	3.94	3.88	2.97	1.31	4.29	5.69	1.51	3.18	3.54	38.76
1988	2.81	2.50	2.92	3.14	4.84	1.66	3.60	4.05	7.52	2.03	3.60	2.35	41.02
1989	3.78	3.82	5.52	4.10	6.09	5.94	5.31	7.98	2.17	3.75	3.65	3.03	55.14
1990	3.62	2.87	2.25	3.72	7.03	4.01	4.01	3.25	4.11	3.31	1.66	6.12	45.96
1991	4.10	2.50	5.94	3.12	2.32	2.59	8.34	3.52	1.92	2.37	2.66	6.09	45.47
1992	2.66	3.72	4.33	2.58	3.20	1.95	8.26	2.49	2.63	0.80	2.66	4.47	39.75
1993	1.71	2.87	6.30	3.90	2.69	2.12	2.71	2.18	6.24	2.49	4.54	4.97	42.72
1994	5.21	6.51	6.29	3.96	5.13	4.57	5.97	5.69	1.13	0.43	2.63	2.55	50.07
1995	3.98	2.90	2.80	3.10	5.43	4.46	1.74	3.79	1.57	2.07	3.55	3.40	38.79
1996	5.29	4.72	4.38	3.43	15.76	5.30	12.02	5.02	6.45	2.65	4.47	3.39	72.88
1997	2.39	1.73	7.42	2.07	5.71	2.68	3.37	3.72	3.55	1.17	4.87	2.33	41.01
1998	4.28	2.54	3.33	4.78	4.02	10.05	3.75	4.30	4.06	1.96	1.40	1.99	46.46
1999	6.27	2.49	3.65	2.94	3.66	1.84	1.88	1.88	2.81	4.35	1.27	3.28	36.32
2000	1.63	4.19	3.27	4.11	4.30	5.06	4.71	3.82	8.88	0.69	1.91	1.87	44.44
2001	2.67	2.59	3.06	2.55	5.75	4.98	8.78	3.03	1.91	1.14	0.86	2.29	39.61
2002	3.42	1.43	4.96	6.41	5.55	3.25	7.37	2.45	3.46	4.68	4.15	2.46	49.59
2003	2.14	4.43	2.38	3.80	7.51	3.06	4.37	5.56	5.84	2.82	5.00	2.75	49.66
2004	2.79	2.76	5.10	5.30	6.94	6.17	6.91	2.41	4.03	3.41	4.20	2.53	52.55
2005	3.07	2.18	4.15	4.25	4.75	1.11	6.99	3.02	0.53	5.24	3.54	2.57	41.40
2006	3.50	0.84	1.71	5.43	2.96	6.52	5.59	1.78	3.01	3.81	2.62	1.44	39.21
2007	2.94	3.35	3.80	4.70	2.48	4.85	6.51	3.72	3.80	4.33	2.28	5.75	48.51
POR= 81 YRS	3.35	3.14	4.06	3.81	4.51	4.73	5.18	4.09	3.42	2.97	3.06	3.28	45.60

WBAN : 13729

**AVERAGE TEMPERATURE (°F) 2007 ELKINS (KEKN)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1978	19.6	16.6	36.5	49.3	56.6	65.0	69.1	70.4	65.0	47.5	44.2	33.8	47.8
1979	25.7	22.4	42.9	49.2	58.0	63.5	68.0	68.1	61.6	49.0	43.0	34.0	48.8
1980	30.0	23.2	36.7	48.1	58.5	62.9	70.1	71.1	64.6	47.5	37.3	30.9	48.4
1981	20.4	31.7	35.0	52.2	53.7	66.0	68.1	65.1	59.6	47.0	37.4	27.6	47.0
1982	24.1	32.5	41.3	44.8	60.8	63.3	69.8	64.9	60.7	51.8	44.5	39.0	49.8
1983	29.3	30.8	38.3	46.0	53.9	63.5	67.8	69.0	59.8	51.9	40.4	27.5	48.2
1984	24.2	35.6	34.5	47.8	54.8	65.9	65.9	67.9	58.6	58.8	37.7	41.3	49.4
1985	21.6	28.4	41.0	50.2	59.1	63.2	68.9	66.7	61.6	54.8	50.6	27.6	49.5
1986	26.5	33.1	38.0	50.1	58.4	65.1	71.8	66.6	63.1	52.6	42.9	33.0	50.1
1987	27.7	31.3	40.4	47.0	61.3	67.0	71.6	69.5	62.1	45.2	43.2	34.4	50.1
1988	23.9	29.5	38.7	48.0	57.2	62.7	70.7	71.6	61.4	43.7	41.8	31.5	48.4
1989	35.5	29.5	42.5	45.6	54.8	67.0	71.2	68.0	63.1	51.4	39.6	18.4	48.9
1990	35.7	37.7	44.3	48.3	56.8	65.7	69.9	70.0	63.0	52.2	42.9	38.5	52.1
1991	31.3	34.4	41.2	52.4	65.3	67.2	71.8	69.2	62.0	51.6	39.5	36.0	51.8
1992	30.7	35.2	39.4	48.3	56.3	63.7	70.4	66.3	62.8	48.3	43.0	32.6	49.8
1993	36.3	28.0	35.2	47.9	58.1	66.3	73.3	72.0	63.4	49.6	41.4	30.7	50.2
1994	23.8	32.5	39.2	53.9	53.0	69.0	71.3	67.8	60.6	50.2	46.3	38.0	50.5
1995	31.9	29.2	41.7	48.6	58.2	67.9	71.7	73.7	61.0	53.7	36.0	28.4	50.2
1996	28.6	30.2	35.2	49.1	58.9	67.4	66.3	68.0	61.5	51.3	35.2	36.5	49.0
1997	29.8	36.5	42.2	44.0	52.4	64.4	68.8	66.1	59.8	49.8	37.1	32.1	48.6
1998	36.0	37.6	40.1	49.8	60.9	65.7	69.1	68.4	63.6	50.2	40.2	35.1	51.4
1999	33.6	33.7	31.8	50.3	56.9	65.4	71.7	66.8	59.8	48.4	44.4	32.8	49.6
2000	26.3	36.3	42.6	48.8	60.1	67.0	66.9	67.5	61.4	51.8	37.5	24.5	49.2
2001	26.1	35.6	34.3	52.0	58.5	65.2	66.7	70.5	59.8	49.4	44.5	37.3	50.0
2002	33.7	32.8	41.4	52.0	56.5	67.6	71.7	69.9	65.0	51.5	39.1	31.2	51.0
2003	22.4	29.0	42.6	51.7	58.0	63.6	69.5	71.0	61.7	49.5	45.5	30.0	49.5
2004	25.0	31.0	42.4	50.3	64.5	66.1	69.8	67.4	64.9	54.0	45.7	33.8	51.2
2005	34.7	35.7	37.6	52.8	55.2	70.2	74.0	73.4	67.0	55.3	44.7	29.8	52.5
2006	38.6	32.1	39.8	52.4	55.1	63.8	70.6	70.4	59.7	49.2	44.0	36.2	51.0
2007	33.0	21.0	44.6	46.4	60.6	66.1	67.0	71.9	64.8	56.7	41.3	36.6	50.8
POR= 81 YRS	29.9	30.6	39.5	48.5	58.2	65.0	69.6	68.5	61.6	51.3	40.8	32.7	49.7

**HEATING DEGREE DAYS (base 65°F) 2007 ELKINS (KEKN)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1978-79	13	6	75	534	617	961	1213	1187	680	467	231	83	6067
1979-80	39	46	130	491	652	954	1080	1203	872	500	210	113	6290
1980-81	4	5	72	538	823	1050	1375	928	924	384	339	42	6484
1981-82	21	54	187	553	822	1150	1265	904	728	600	166	76	6526
1982-83	13	57	149	403	609	798	1099	951	817	563	336	85	5880
1983-84	30	21	184	404	729	1153	1258	847	937	511	318	50	6442
1984-85	39	22	199	190	811	727	1338	1020	738	437	194	101	5816
1985-86	1	27	160	312	427	1153	1185	888	830	443	218	68	5712
1986-87	9	50	98	397	657	987	1149	938	753	533	163	43	5777
1987-88	12	26	122	605	645	939	1264	1024	808	506	243	131	6325
1988-89	27	6	119	653	686	1031	908	987	689	573	321	20	6020
1989-90	0	29	120	416	755	1438	903	758	637	496	249	49	5850
1990-91	1	4	131	394	654	814	1038	852	730	383	80	43	5124
1991-92	0	6	144	406	760	893	1056	856	785	495	267	82	5750
1992-93	4	32	122	510	654	996	884	1028	918	508	210	49	5915
1993-94	0	2	115	472	705	1056	1273	902	795	328	369	29	6046
1994-95	4	16	138	452	552	831	1019	997	717	488	224	31	5469
1995-96	4	0	142	358	863	1126	1123	1002	915	482	217	29	6261
1996-97	39	9	140	417	886	879	1082	790	703	623	392	75	6035
1997-98	14	45	160	460	832	1012	892	759	765	450	141	77	5607
1998-99	5	9	82	450	737	922	968	873	1023	433	246	68	5816
1999-00	9	24	169	507	613	990	1192	826	686	480	160	43	5699
2000-01	24	9	163	405	816	1249	1197	820	944	399	211	62	6299
2001-02	36	1	167	477	612	852	967	894	723	389	277	19	5414
2002-03	4	12	62	419	771	1039	1316	1003	686	393	214	80	5999
2003-04	2	0	126	474	577	1078	1233	978	694	435	75	54	5726
2004-05	5	36	46	334	573	963	931	813	844	360	307	14	5226
2005-06	0	0	28	314	607	1086	814	915	776	369	319	78	5306
2006-07	12	0	160	483	624	887	988	1225	629	552	155	37	5752
2007-	30	4	75	273	706	873							

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**COOLING DEGREE DAYS (base 65°F) 2007 ELKINS (KEKN)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1978	0	0	0	1	13	76	147	179	82	0	0	0	498
1979	0	0	0	2	21	45	142	149	33	0	0	0	392
1980	0	0	0	0	16	57	169	202	69	0	0	0	513
1981	0	0	0	6	0	76	126	65	32	0	0	0	305
1982	0	0	0	0	43	33	170	60	30	1	0	0	337
1983	0	0	0	0	0	46	124	153	33	4	0	0	360
1984	0	0	0	2	9	82	72	117	16	6	0	0	304
1985	0	0	0	0	17	54	129	87	63	5	0	0	355
1986	0	0	0	1	20	78	224	104	46	18	0	0	491
1987	0	0	0	0	57	109	224	171	42	0	0	0	603
1988	0	0	0	0	6	67	211	220	18	1	0	0	523
1989	0	0	0	0	10	90	198	130	70	1	0	0	499
1990	0	0	3	1	3	78	158	167	74	4	0	0	488
1991	0	0	0	13	97	116	217	144	61	0	0	0	648
1992	0	0	0	0	3	49	178	79	62	0	0	0	371
1993	0	0	0	2	5	97	263	225	69	2	2	0	665
1994	0	0	0	4	2	158	208	106	16	0	0	0	494
1995	0	0	0	5	21	124	219	274	27	16	0	0	686
1996	0	0	0	10	35	109	87	110	40	0	0	0	391
1997	0	0	0	0	6	65	139	84	10	0	0	0	304
1998	0	0	0	0	21	104	141	120	44	0	0	0	430
1999	0	0	0	0	2	84	225	86	18	0	0	0	415
2000	0	0	0	0	16	112	90	93	63	1	0	0	375
2001	0	0	0	16	12	74	95	178	21	0	0	0	396
2002	0	0	0	5	21	103	218	170	71	7	0	0	595
2003	0	0	0	0	4	45	149	191	34	0	0	0	423
2004	0	0	0	0	64	94	161	116	50	0	0	0	485
2005	0	0	0	0	11	175	285	267	93	22	2	0	855
2006	0	0	0	0	17	49	191	175	8	1	0	0	441
2007	0	0	0	0	24	77	100	227	77	22	0	0	527

**SNOWFALL (inches) 2007 ELKINS (KEKN)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1978-79	0.0	0.0	0.0	T	2.0	5.1	30.8	18.7	4.2	3.0	0.0	0.0	63.8
1979-80	0.0	0.0	0.0	3.9	3.8	10.2	23.0	19.7	14.1	3.6	0.0	0.0	78.3
1980-81	0.0	0.0	0.0	0.4	4.0	8.0	23.6	12.1	14.9	0.6	0.0	0.0	63.6
1981-82	0.0	0.0	0.0	0.4	8.4	20.6	18.2	10.1	13.4	7.1	0.0	0.0	78.2
1982-83	0.0	0.0	0.0	T	1.3	10.5	17.0	27.0	10.5	1.8	0.0	0.0	68.1
1983-84	0.0	0.0	0.0	T	11.1	7.0	26.4	23.7	21.6	2.9	0.0	0.0	92.7
1984-85	0.0	0.0	0.0	0.0	4.0	4.0	54.1	21.3	0.5	8.0	0.0	0.0	91.9
1985-86	0.0	0.0	0.0	0.0	0.0	22.6	33.5	32.0	16.8	18.8	0.0	0.0	123.7
1986-87	0.0	0.0	0.0	0.0	1.0	4.0	42.6	19.5	4.9	24.8	0.0	0.0	96.8
1987-88	0.0	0.0	0.0	T	12.4	20.3	21.5	16.1	15.9	1.6	0.0	0.0	87.8
1988-89	0.0	0.0	0.0	T	2.1	14.3	11.5	14.1	1.8	7.9	0.5	0.0	52.2
1989-90	0.0	0.0	0.0	0.9	9.0	32.2	21.7	9.0	12.3	13.8	0.0	0.0	98.9
1990-91	0.0	0.0	0.0	T	T	8.9	19.9	20.0	18.9	0.3	0.0	0.0	68.0
1991-92	0.0	0.0	0.0	0.0	5.8	6.9	29.5	11.8	19.3	5.8	0.0	0.0	79.1
1992-93	0.0	0.0	0.0	2.4	3.4	27.5	4.4	27.4	33.5	2.5	0.0	T	101.1
1993-94	0.0	0.0	0.0	3.1	3.5	36.7	45.0	15.1	21.2	0.5	0.0	T	125.1
1994-95	0.0	0.0	0.0	0.0	0.5	3.1	20.9	11.1	7.5	0.4	0.0	0.0	43.5
1995-96	0.0	0.0	0.0	0.0	23.7	22.9	44.6	24.3	16.1	5.0	T	0.0	136.6
1996-97													
1997-98													
1998-99													
1999-00													
2000-01													
2001-02													
2002-03													
2003-04													
2004-05						16.7	12.9	9.6	25.4	9.2	0.0	0.0	
2005-06	0.0	0.0	0.0	1.1	5.7	16.2	11.8	19.9	4.8	T	0.0	0.0	59.5
2006-07	0.0	0.0	0.0	0.1	0.6	3.0	24.4	20.8	8.8	6.3	0.0	0.0	64.0
2007-	0.0	0.0	0.0	0.0	0.8	14.3							
POR= 80 YRS	0.0	0.0	0.0	0.4	5.0	11.1	14.5	12.8	10.1	3.3	T	T	57.2

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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. 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.  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><b>NOTE:</b> 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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# 2007 ELKINS WEST VIRGINIA (KEKN)

Elkins, West Virginia, is located near the principal storm tracks and is therefore subjected to frequent weather changes throughout the year. While changes may be rigorous, they bring relief from summer heat waves and winter cold waves. The airport and city are located near the middle of a valley with a narrow floor and ridges at or near 3,000 feet. The ridges are oriented north northeast to south southwest, 3 to 4 miles to the east and west. The valley is located on the general northwest slope of the Appalachian Mountains which crest about 20 miles to the southeast at about 4,500 feet, with some higher peaks.

The seasonal climates vary greatly from year to year. When the Atlantic High extends westward, warm weather with high humidities occur in both summer and winter. Conversely, if the Atlantic High is displaced eastward and the circulation is principally from the northwest, weather is colder than normal. Hottest weather is from warm westerlies which have been over land for a long time and have a path over the south central or southwestern areas of the United States.

Summers are characterized by warm, humid, showery weather, but the heat is moderated by elevation and orographically induced cloudiness. A daily high temperature of 90 or above may occasionally be expected during the summer months. Winters are moderately severe with rapid changes. Snowfall may be frequent, and at times, heavy. However, it seldom remains on the ground for extended periods. Snows often fall upon warm ground thereby causing preliminary melting, then freezing, resulting in slippery road conditions. Glaze formation upon the ground or upon wires and trees is rare. Cold spells alternate frequently with thaws, and snow is subject to frequent complete melting during the winter. Severe cold spells occur occasionally but they seldom last more than two or three days. A daily low of zero degrees or below can be expected several times annually.

Significant climatic characteristics are associated with air currents rising and descending over the mountains. Orographic lifting of air delays post-frontal clearing after the passage of a cold front, especially during the winter when low clouds and snow flurries sometimes persist for 24 hours or more after the front has passed. While this upslope effect prevails with winds from the north-west quadrant, a foehn effect prevails with easterly and southerly winds, tending to diminish existing low cloud layers and to keep ceilings higher than otherwise anticipated. Nocturnal radiation fog is common during the summer and the autumn but it usually dissipates rapidly after sunrise.

Tornadoes are rare in this area, and severe thunderstorms are very infrequent. However, occasionally intense local rainfall from warm-season thunderstorms causes flash flooding in the narrow valleys of the area. Due to the remote location of the city with respect to concentrated industry, the air is usually relatively unpolluted. There are no important smoke sources in the locality, and smoke or haze seldom reduces the visibility below four miles.

The average last occurrence in the spring of temperatures as low as 32 is early to mid-May, and the first occurrence in the autumn is early October. The length of the growing season averages about 148 days.

# Station Location

ELKINS

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: <u>AIRPORT</u>																
Administration Building Elkins-Randolph County Airport	03/14/62	05/01/96	150ft. SSE	38° 53'	79° 51'	1970 f1948	43 d20	5 g17	4 g16	h33	h15	4 g16	3 g15	e4 i4		Weather Bureau operation d. Moved to field 9/17/69. e. Commissioned 1200' NNE of Thermometer site 10/19/69. f. Effective 10/19/69. g. Moved to roof 3/1/73. h. Installed 7/1/83. i. Type change 5/30/85.
Elkins-Randolph County Airport	05/01/96	Present	NA	38° 53'	79° 51'	j1979								s		ASOS Commissioned 05/01/96 j. Ground elevation.

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\* NOTES: For earlier station history see previous editions.