

1999

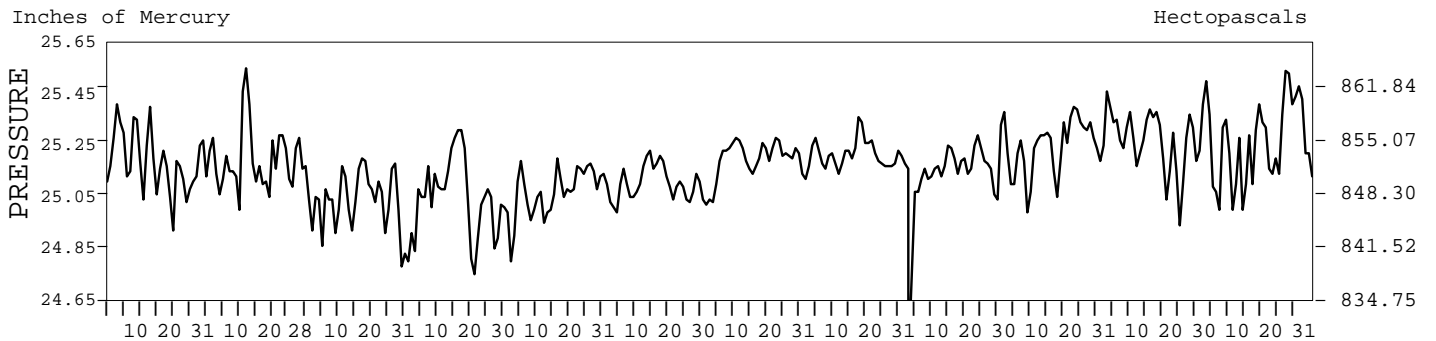
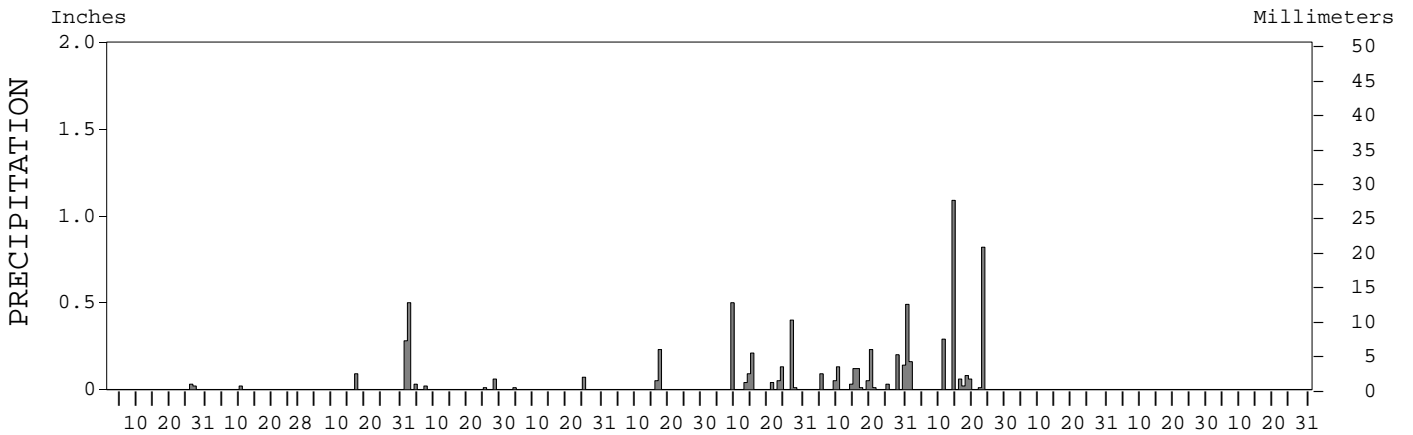
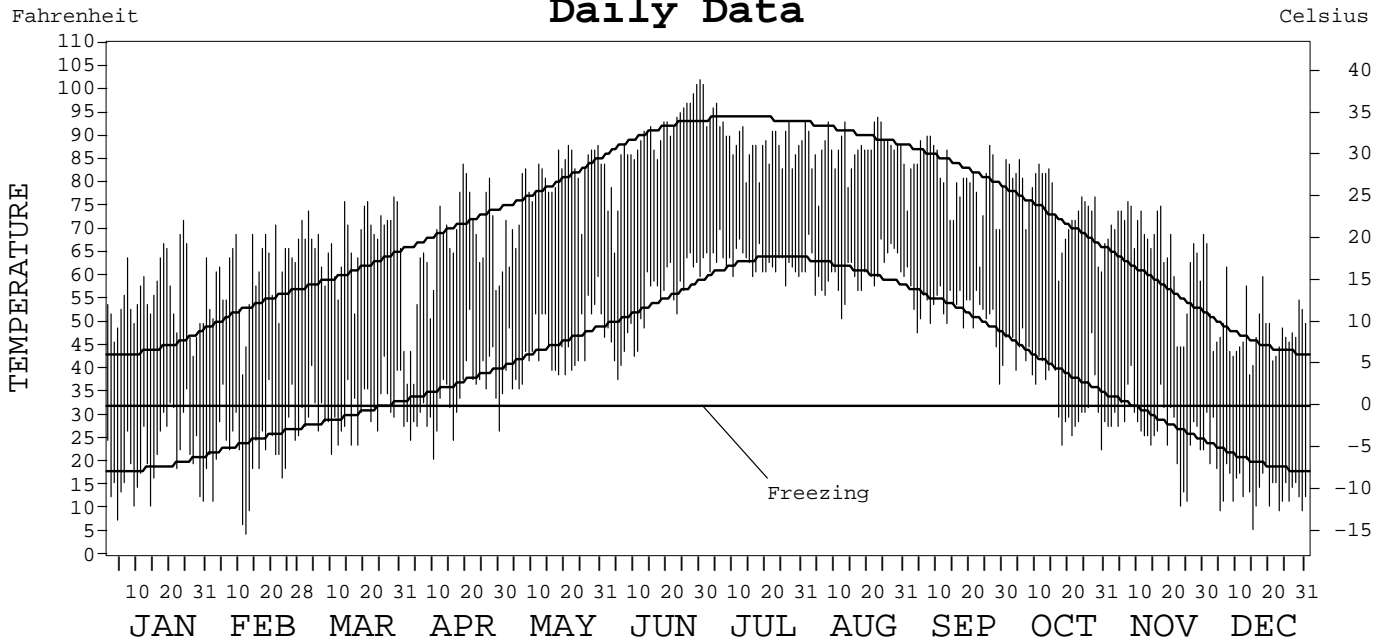
LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-0599

WINSLOW,
ARIZONA (INW)

Daily Data



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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
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 ASHEVILLE, NORTH CAROLINA

METEOROLOGICAL DATA FOR 1999

WINSLOW, AZ (INW)

LATITUDE: 35° 01' 19" N LONGITUDE: 110° 43' 19" W ELEVATION (FT): GRND: 4890 BARO: 4890 TIME ZONE: MOUNTAIN (UTC + 7) WBAN: 23194

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	55.9	60.0	68.1	64.6	79.4	88.9	89.3	87.5	80.6	75.4	66.0	48.8	72.0	
	HIGHEST DAILY MAXIMUM	72	71	77	84	88	102	101	94	90	85	75	67	102	
	DATE OF OCCURRENCE	24	21	29	19	30+	30	01	23	08+	05+	17	01	JUN 30	
	MEAN DAILY MINIMUM	21.1	23.1	31.5	33.8	44.6	53.4	63.0	60.7	52.5	36.8	27.0	15.6	38.6	
	LOWEST DAILY MINIMUM	8	5	22	21	35	38	58	51	37	23	11	6	5	
	DATE OF OCCURRENCE	04	12	10	10	01	05	26	12	29	30	23	15	FEB 12	
	AVERAGE DRY BULB	38.5	41.6	49.8	49.2	62.0	71.2	76.2	74.1	66.6	56.1	46.5	32.2	55.3	
	MEAN WET BULB	28.9	30.5	36.3		45.3	53.0	62.5			41.7	33.7	24.8		
	MEAN DEW POINT	13.5	11.8	16.2		24.8	35.1	54.2			25.2	17.2	11.3		
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	0	15	15	8	2	0	0	0	0	40
	MAXIMUM ≤ 32°	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	MINIMUM ≤ 32°	29	25	19	14	0	0	0	0	0	13	26	31	157	
MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	811	651	463	469	122	27	0	0	34	270	547	1007	4401	
	COOLING DEGREE DAYS	0	0	0	1	36	218	354	289	88	2	0	0	988	
RH	MEAN (PERCENT)	41	34	31	42	27	28	52	56	57	35	36	47	40	
	HOUR 05 LST	55	47	48	59	42	45	73	77	82	54	50	60	58	
	HOUR 11 LST	37	28	24	31	20	19	39	44	46	25	28	41	32	
	HOUR 17 LST	22	20	17	32	16	18	40	36	35	18	20	31	25	
	HOUR 23 LST	44	38	36	48	29	31	59	62	65	38	40	53	45	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	0	0	0	2	0	0	0	0	1	0	0	0	3	
	THUNDERSTORMS	0	0	0	0	0	0	0	0	0	0	0	0	0	
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.)	25.19	25.20	25.05	25.04	25.07	25.10	25.19	25.21		25.25	25.27	25.25		
	MEAN SEA-LEVEL PRESS. (IN.)	30.13	30.13	29.90		29.84	29.82	29.92			30.10		30.26		
WINDS	RESULTANT SPEED (MPH)	2.5	2.9	5.6	6.3	5.2	2.5	1.3	1.7		1.0	1.2	2.2		
	RES. DIR. (TENS OF DEGS.)	25	23	21	23	23	25	20	18		23	19	29		
	MEAN SPEED (MPH)	7.9	7.5	9.9	11.4	11.4	10.5	8.4	7.2	6.2	5.8	5.4	6.7	8.2	
	PREVAIL. DIR. (TENS OF DEGS.)	13	12	23	22	23	25	11	13	22	12	12	33	24	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	43	38	61	46	46	43	36	37	31	36	30	44	61	
	DIR. (TENS OF DEGS.)	24	27	22	19	24	20	12	17	33	21	23	21	22	
	DATE OF OCCURRENCE	21	10	31	28	03	02	27	30	09	06	17	01	MAR 31	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	51	45	72	53	53	54	41	43	40	41	37	52	72	
DIR. (TENS OF DEGS.)	24	27	23	19	23	20	13	18	33	21	20	23	23		
DATE OF OCCURRENCE	21	10	31	28+	03	02	27	30	09	06	17	01	MAR 31		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.05	0.02	0.09	0.90	0.08	0.28	1.47	1.70	2.59	0.00	0.00	T	7.18	
	GREATEST 24-HOUR (IN.)	0.03	0.02	0.09	0.62	0.07	0.23	0.50	0.49	1.09	0.00	0.00	T	1.09	
	DATE OF OCCURRENCE	26	10	17	01-02	25	17	09	31	14			31+	SEP 14	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	2	1	1	6	2	2	9	14	9	0	0	0	46	
PRECIPITATION ≥ 0.10	0	0	0	2	0	1	4	7	4	0	0	0	18		
PRECIPITATION ≥ 1.00	0	0	0	0	0	0	0	0	1	0	0	0	1		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)														
	GREATEST 24-HOUR (IN.)														
	DATE OF OCCURRENCE														
	MAXIMUM SNOW DEPTH (IN.)														
	DATE OF OCCURRENCE														
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0															

NORMALS, MEANS, AND EXTREMES

WINSLOW, AZ (INW)

LATITUDE: 35° 01' 19" N LONGITUDE: 110° 43' 19" W ELEVATION (FT): GRND: 4890 BARO: 4890 TIME ZONE: MOUNTAIN (UTC + 7) WBAN: 23194

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	44.7	53.4	60.9	70.0	79.6	90.5	93.6	90.4	83.6	72.1	58.4	46.0	70.3
	MEAN DAILY MAXIMUM	52	46.2	53.5	61.0	70.0	77.6	88.3	93.2	88.7	84.2	72.7	57.1	46.6	69.9
	HIGHEST DAILY MAXIMUM	68	75	78	85	92	101	106	109	103	99	93	80	74	109
	YEAR OF OCCURRENCE		1971	1957	1989	1943	1951	1970	1971	1995	1950	1972	1988	1958	JUL 1971
	MEAN OF EXTREME MAXS.	52	63.1	69.1	75.6	83.4	89.6	98.3	101.3	96.4	93.7	85.5	71.6	63.4	82.6
	NORMAL DAILY MINIMUM	30	19.1	24.6	30.1	36.5	44.9	53.9	62.8	61.0	52.8	40.2	29.3	20.2	39.6
	MEAN DAILY MINIMUM	52	20.2	24.8	30.2	37.0	44.3	53.0	62.5	60.0	53.2	40.4	28.0	20.6	39.5
	LOWEST DAILY MINIMUM	68	-18	-7	6	16	23	35	44	41	31	13	-1	-12	-18
	YEAR OF OCCURRENCE		1937	1939	1948	1975	1964	1979	1997	1968	1978	1970	1952	1967	JAN 1937
	MEAN OF EXTREME MINS.	52	5.1	10.9	17.1	24.7	31.7	41.1	53.0	51.9	41.4	26.5	14.7	5.6	27.0
	NORMAL DRY BULB	30	31.9	39.0	45.5	53.3	62.3	72.2	78.2	75.7	68.2	56.2	43.9	33.1	55.0
	MEAN DRY BULB	52	33.2	39.2	45.6	53.5	61.0	70.7	77.9	74.4	68.7	56.5	42.5	33.6	54.7
	MEAN WET BULB	4	30.3	32.2	35.9	39.1	47.0	52.6	59.6	40.9	38.0	33.3	26.7	28.1	37.0
	MEAN DEW POINT	4	20.5	19.2	19.8	21.4	26.1	21.6	31.1	33.9	46.5	20.3	17.0	17.8	24.6
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	0.0	0.0	0.1	3.2	17.4	26.0	21.4	6.1	0.1	0.0	0.0	74.3	
MAXIMUM ≤ 32°	30	6.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	4.3	11.5	
MINIMUM ≤ 32°	30	29.1	24.2	20.2	10.6	1.8	0.0	0.0	0.0	0.2	5.5	20.8	28.8	141.2	
MINIMUM ≤ 0°	30	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.6	4.9	
H/C	NORMAL HEATING DEG. DAYS	30	1026	728	605	357	128	6	0	0	21	283	633	989	4776
	NORMAL COOLING DEG. DAYS	30	0	0	0	6	44	222	409	332	117	11	0	0	1141
RH	NORMAL (PERCENT)	30	68	55	44	34	28	24	40	45	45	45	54	65	46
	HOUR 05 LST	30	79	70	63	52	45	38	58	64	64	61	69	77	62
	HOUR 11 LST	30	62	48	36	25	21	17	29	35	36	37	46	59	38
	HOUR 17 LST	30	51	35	27	20	17	14	26	29	28	28	35	50	30
	HOUR 23 LST	30	74	60	50	39	33	27	46	50	50	50	60	71	51
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	35	1.0	0.5	0.4	0.2	0.0	0.0	0.0	0.0	0.2	0.5	0.5	1.5	4.8
	THUNDERSTORMS	35	0.1	0.4	0.3	1.0	1.7	2.8	10.1	9.4	4.8	1.3	0.2	0.1	32.2
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	1			3.2		0.8			3.2					
	MIDNIGHT-MIDNIGHT (OKTAS)	1			3.2		0.8								
	MEAN NO. DAYS WITH:														
CLEAR	1	3.0	3.0	13.0		22.0	13.0	10.7							
PARTLY CLOUDY	1		3.0	6.0		3.0	1.0	12.2							
CLOUDY	1	1.0	2.0	4.0		2.0	1.0	8.1							
PR	MEAN STATION PRESSURE (IN)	10	25.19	25.15	25.07	25.06	25.10	25.09	25.19	25.19	25.18	25.20	25.20	25.20	25.15
	MEAN SEA-LEVEL PRES. (IN)	4	30.10	30.02	29.93	29.91	29.84	29.81	29.91	29.95	29.90	30.02	30.08	30.17	29.97
WINDS	MEAN SPEED (MPH)	22	7.2	8.5	10.3	11.1	10.6	10.4	8.8	8.0	7.8	7.2	6.8	6.6	8.6
	PREVAIL. DIR (TENS OF DEGS)	8	13	23	23	22	22	23	24	23	22	23	13	13	23
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	4	45	40	61	54	46	44	40	38	41	44	40	44	61
	DIR. (TENS OF DEGS)		30	23	22	22	24	22	13	16	23	23	20	23	22
	YEAR OF OCCURRENCE		1996	1996	1999	1997	1999	1998	1998	1997	1996	1996	1997	1998	MAR 1999
	MAXIMUM 5-SECOND:														
SPEED (MPH)	4	52	52	72	62	53	54	51	47	59	55	51	52	72	
DIR. (TENS OF DEGS)		24	21	23	23	23	20	14	16	22	20	19	23	23	
YEAR OF OCCURRENCE		1996	1998	1999	1997	1999	1999	1998	1997	1996	1997	1997	1998	MAR 1999	
PRECIPITATION	NORMAL (IN)	30	0.45	0.52	0.55	0.26	0.31	0.31	1.20	1.39	0.91	0.91	0.57	0.66	8.04
	MAXIMUM MONTHLY (IN)	68	1.62	2.05	2.07	1.59	2.11	3.22	3.53	4.80	3.45	5.61	1.67	3.73	5.61
	YEAR OF OCCURRENCE		1935	1973	1973	1934	1992	1972	1992	1963	1996	1972	1952	1967	OCT 1972
	MINIMUM MONTHLY (IN)	68	T	T	0.00	0.00	T	0.00	0.04	0.07	0.00	0.00	0.00	T	0.00
	YEAR OF OCCURRENCE		1984	1972	1997	1989	1996	1971	1993	1998	1957	1952	1932	1981	MAR 1997
	MAXIMUM IN 24 HOURS (IN)	55	0.76	0.70	1.07	0.76	0.90	2.12	1.04	0.49	1.43	2.22	1.33	1.51	2.22
	YEAR OF OCCURRENCE		1980	1956	1984	1988	1969	1955	1998	1999	1994	1974	1987	1969	OCT 1974
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	3.8	4.1	4.5	2.8	2.6	2.2	7.5	8.3	5.7	3.9	3.2	4.8	53.4	
PRECIPITATION ≥ 1.00	30	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.1	0.2	0.0	0.1	0.8	
SNOWFALL	NORMAL (IN)	30	2.7	2.6	2.9	0.8	0.*	0.0	0.0	0.0	0.0	0.7	0.9	4.9	15.5
	MAXIMUM MONTHLY (IN)	64	11.3	10.7	11.0	4.8	0.6	0.0	0.0	0.0	T	8.2	7.4	39.6	39.6
	YEAR OF OCCURRENCE		1987	1973	1973	1977	1978				1945	1961	1952	1967	DEC 1967
	MAXIMUM IN 24 HOURS (IN)	51	6.4	8.0	8.0	2.9	0.6	0.0	0.0	0.0	T	6.6	4.8	17.0	17.0
	YEAR OF OCCURRENCE		1987	1977	1991	1977	1978				1945	1961	1966	1967	DEC 1967
	MAXIMUM SNOW DEPTH (IN)	48	7	8	7	2	0	0	0	0	0	3	3	29	29
YEAR OF OCCURRENCE		1968	1977	1991	1977						1972	1994	1967	DEC 1967	
NORMAL NO. DAYS WITH:															
SNOWFALL ≥ 1.0	30	0.9	0.7	1.2	0.3	0.0	0.0	0.0	0.0	0.0	0.2	0.4	1.3	5.0	

PRECIPITATION (inches) 1999 WINSLOW, AZ (INW)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	0.27	0.07	0.70	0.23	T	0.02	0.57	1.80	0.96	0.25	0.11	0.13	5.11
1971	0.07	0.25	T	0.52	0.07	0.00	0.20	1.40	1.74	0.97	0.06	0.95	6.23
1972	0.00	T	0.00	0.02	0.02	3.22	1.20	0.72	0.15	5.61	0.58	0.73	12.25
1973	0.23	2.05	2.07	0.11	0.09	0.31	0.38	1.40	0.07	T	0.88	0.05	7.64
1974	0.84	0.03	0.15	0.02	0.00	T	0.58	0.69	1.68	3.41	0.12	0.29	7.81
1975	0.41	0.42	0.73	0.29	0.35	T	1.27	0.59	2.54	T	0.38	0.68	7.66
1976	0.09	0.45	0.19	0.19	1.14	0.15	1.55	0.90	1.11	0.40	0.27	0.38	6.82
1977	0.36	0.69	0.21	0.48	T	0.23	2.05	2.19	1.95	0.83	0.05	0.13	9.17
1978	0.36	0.70	0.93	0.07	0.46	0.27	0.80	0.30	0.41	1.70	1.36	1.02	8.38
1979	1.03	0.18	0.36	0.36	1.39	0.04	0.26	1.47	0.06	0.28	0.18	0.54	6.15
1980	1.18	1.36	0.78	0.45	0.03	0.17	1.71	1.29	0.64	0.22	T	0.23	8.06
1981	0.68	0.15	0.30	0.29	0.70	0.80	1.71	1.80	0.53	1.11	0.75	T	8.82
1982	1.18	0.83	0.33	0.11	1.27	T	2.07	2.69	0.69	T	1.54	1.40	12.11
1983	0.35	0.46	0.79	0.18	0.07	0.01	1.09	1.39	2.37	0.69	0.49	0.77	8.66
1984	T	0.21	1.20	0.08	0.05	0.03	2.32	1.53	1.96	1.16	0.31	1.59	10.44
1985	0.47	0.51	1.13	0.71	0.17	T	1.65	1.25	0.96	1.37	0.91	0.44	9.57
1986	0.02	0.75	0.80	0.16	0.04	0.33	2.32	0.42	0.55	1.14	1.28	0.56	8.37
1987	1.21	0.86	0.38	T	0.54	0.29	0.50	1.88	0.15	1.29	1.39	1.28	9.77
1988	0.24	0.82	T	1.28	0.09	1.30	0.64	1.47	0.04	0.61	0.70	0.09	7.28
1989	0.59	0.28	0.43	0.00	0.11	T	1.69	1.73	0.09	0.26	T	0.41	5.59
1990	0.11	0.68	0.25	0.16	0.15	0.02	1.64	0.48	0.88	0.19	0.97	0.31	5.84
1991	0.79	0.18	1.58	T	0.08	0.91	0.10	0.44	0.71	0.27	1.00	1.26	7.32
1992	0.31	0.20	0.84	0.32	2.11	0.06	3.53	2.58	0.15	0.31	0.28	1.80	12.49
1993	1.54	0.56	0.61	T	0.23	0.00	0.04	2.64	T	1.13	0.49	0.06	7.30
1994	0.17	0.35	0.59	0.75	0.62	0.09	0.12	0.79	1.56	0.32	0.44	0.44	6.24
1995	0.36	1.01	0.45	0.09	0.31	0.04	0.39	2.12	1.61	T	0.54	0.36	7.28
1996	0.02	0.40	0.20	T	T	0.01	0.41		3.45	0.39	0.56	T	
1997	1.02	0.28	0.00	0.37	0.59	0.24	0.21	1.26	0.84	0.20	0.29	0.28	5.58
1998	0.11	1.03	1.59	0.06	T	T	3.02	0.07	1.02	1.27	0.19	0.02	8.38
1999	0.05	0.02	0.09	0.90	0.08	0.28	1.47	1.70	2.59	0.00	0.00	T	7.18
POR= 68 YRS	0.44	0.49	0.50	0.34	0.33	0.28	1.01	1.37	0.96	0.69	0.39	0.57	7.37

WBAN : 23194

AVERAGE TEMPERATURE (°F) 1999 WINSLOW, AZ (INW)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	32.7	42.5	42.1	47.5	63.4	72.1	79.0	78.0	65.7	52.2	44.8	33.6	54.5
1971	32.8	37.1	46.0	52.2	60.0	73.6	82.5	78.0	68.0	53.9	43.9	30.3	54.9
1972	35.4	40.3	51.7	54.2	62.2	71.8	79.4	76.0	69.2	58.0	42.0	34.0	56.2
1973	32.0	41.2	44.1	50.4	62.8	69.2	75.8	74.7	66.2	55.0	44.3	34.8	54.2
1974	32.3	34.4	48.6	50.7	64.5	76.4	77.2	74.7	67.8	56.6	42.5	29.3	54.6
1975	26.3	37.5	43.4	47.5	58.8	70.5	77.9	75.6	67.3	54.9	40.4	32.7	52.7
1976	32.8	42.4	42.6	52.6	63.3	71.4	78.1	74.4	66.3	52.6	41.2	31.2	54.1
1977	26.5	36.6	41.9	54.3	59.2	73.8	78.5	76.9	70.6	58.8	45.0	41.6	55.3
1978	37.4	39.0	50.3	54.0	60.3	74.3	78.8	76.9	68.8	59.5	45.7	26.8	56.0
1979	29.2	37.8	43.9	54.3	60.6	71.0	78.6	74.7	70.9	57.8	38.0	33.7	54.2
1980	38.3	41.6	42.9	51.8	58.1	72.0	78.5	75.7	68.4	53.7	43.2	40.5	55.4
1981	39.4	41.8	45.2	57.4	62.8	76.2	78.5	75.9	68.5	55.7	47.2	39.0	57.3
1982	32.1	40.2	46.7	55.0	61.2	70.6	75.9	75.4	69.1	52.3	43.5	35.9	54.8
1983	34.1	40.9	47.3	48.3	61.1	69.4	76.6	75.3	71.0	58.1	44.6	40.6	55.6
1984	33.0	35.9	44.9	51.8	68.9	72.5	77.4	75.7	70.2	53.0	45.4	36.0	55.4
1985	35.1	38.8	46.5	56.6	63.2	74.2	77.9	76.1	64.2	56.1	44.4	34.5	55.6
1986	39.8	43.2	49.6	54.6	62.6	73.4	75.9	77.2	65.2	53.7	44.8	34.8	56.2
1987	30.2	39.1	42.7	56.1	62.4	73.4	74.5	73.4	67.5	60.1	42.8	31.0	54.4
1988	33.5	41.3	45.1	53.8	61.6	72.8	79.4	75.1	66.3	61.4	46.4	34.9	56.0
1989	32.3	40.0	51.6	60.6	66.0	72.5	79.0	74.5	68.9	55.4	44.2	33.7	56.6
1990	34.4	37.8	47.7	55.1	60.6	73.3	75.9	72.0	67.6	54.5	41.9	26.4	53.9
1991	32.4	40.5	41.4	51.0	58.5	66.6	74.9	73.7	66.9	56.2	41.3	30.8	52.9
1992	27.8	39.8	45.2	57.2	60.9	68.6	72.3	73.0	68.2	57.7	37.8	24.8	52.8
1993	39.1	40.0	47.4	54.8	63.3	69.7	76.0	73.6	66.6	54.7	40.2	33.3	54.9
1994	34.7	38.0	47.6	53.9	61.3	75.1	78.0	78.2	69.0	54.3	40.1	36.4	55.6
1995	36.7	45.2	48.3	51.5	58.1	68.3	76.8	78.4	69.4	55.9	47.6	37.5	56.1
1996	36.9	44.7	46.0	54.3			80.5		65.3			38.8	
1997	34.6	38.1	49.4	51.4	66.2	70.5	75.7	75.9	71.4	53.7	44.7	31.8	55.3
1998	37.5	38.7	45.3	49.0	60.4	69.4	78.5	77.7	70.1	55.1	45.5	35.4	55.2
1999	38.5	41.6	49.8	49.2	62.0	71.2	76.2	74.1	66.6	56.1	46.5	32.2	55.3
POR= 68 YRS	32.8	39.1	45.6	53.5	62.4	71.9	76.7	74.7	68.7	56.6	42.5	34.0	54.9

HEATING DEGREE DAYS (base 65°F) 1999 WINSLOW, AZ (INW)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1970-71	0	0	84	391	600	964	992	774	583	374	168	10	4940
1971-72	0	0	59	342	623	1068	911	711	403	316	110	2	4545
1972-73	0	0	10	243	681	957	1014	658	640	433	99	31	4766
1973-74	0	0	51	306	614	925	1009	849	505	423	77	9	4768
1974-75	0	0	44	260	667	1099	1192	763	662	518	204	4	5413
1975-76	0	0	28	310	734	995	988	648	687	366	93	8	4857
1976-77	0	0	39	378	711	1041	1186	789	711	319	189	0	5363
1977-78	0	0	5	207	593	716	849	720	448	326	175	0	4039
1978-79	0	0	37	180	573	1176	1102	757	646	314	156	27	4968
1979-80	0	0	6	229	802	966	822	672	678	391	210	14	4790
1980-81	0	0	13	355	645	753	785	642	608	230	105	6	4142
1981-82	0	1	7	289	527	798	1011	690	561	294	129	4	4311
1982-83	0	0	32	390	638	895	950	668	543	494	183	16	4809
1983-84	0	0	23	207	606	748	985	838	617	388	31	0	4443
1984-85	0	0	21	365	580	891	919	726	568	248	85	12	4415
1985-86	0	0	86	268	613	938	774	604	470	308	122	0	4183
1986-87	0	0	72	345	599	931	1075	717	687	262	87	0	4775
1987-88	0	0	12	153	658	1050	972	681	612	330	154	5	4627
1988-89	0	0	44	118	550	926	1005	696	408	156	64	1	3968
1989-90	0	0	21	292	618	964	941	756	530	287	147	9	4565
1990-91	0	4	37	317	686	1187	1002	679	723	415	197	30	5277
1991-92	0	0	13	264	704	1052	1145	723	607	232	125	11	4876
1992-93	2	10	5	220	808	1238	797	696	538	298	103	27	4742
1993-94	0	1	42	318	736	975	932	749	531	336	140	0	4760
1994-95	0	0	11	325	740	881	871	548	510	403	207	30	4526
1995-96	0	0	19	276	514	846	865	581	584	321			
1996-97	0	0	67	0	0	807	936	750	477	406	47	18	3508
1997-98	0	0	3	367	601	1025	849	730	606	472	151	17	4821
1998-99	0	0	5	303	581	910	811	651	463	469	122	27	4342
1999-	0	0	34	270	547	1007							

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COOLING DEGREE DAYS (base 65°F) 1999 WINSLOW, AZ (INW)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	0	0	0	0	53	225	441	408	112	0	0	0	1239
1971	0	0	1	0	20	276	551	408	156	4	0	0	1416
1972	0	0	0	0	30	210	449	347	144	30	0	0	1210
1973	0	0	0	0	38	165	343	310	93	2	0	0	951
1974	0	0	0	0	71	360	385	308	136	5	0	0	1265
1975	0	0	0	0	18	175	408	336	106	3	0	0	1046
1976	0	0	0	0	45	209	413	298	84	0	0	0	1049
1977	0	0	0	2	18	269	423	377	178	21	0	0	1288
1978	0	0	0	2	39	288	435	374	158	16	0	0	1312
1979	0	0	0	2	30	213	430	310	187	13	0	0	1185
1980	0	0	0	0	5	234	426	339	121	9	0	0	1134
1981	0	0	0	12	44	347	423	345	117	6	0	0	1294
1982	0	0	0	2	21	180	346	328	160	0	0	0	1037
1983	0	0	0	0	71	154	365	324	210	0	0	0	1124
1984	0	0	0	0	162	232	388	341	184	2	0	0	1309
1985	0	0	0	1	35	296	406	349	67	0	0	0	1154
1986	0	0	0	0	52	260	344	383	83	0	0	0	1122
1987	0	0	0	0	14	256	302	270	94	9	0	0	945
1988	0	0	0	0	55	247	452	323	93	15	0	0	1185
1989	0	0	0	30	100	231	441	301	143	2	0	0	1248
1990	0	0	0	0	17	264	342	226	122	0	0	0	971
1991	0	0	0	0	3	85	315	277	78	0	0	0	758
1992	0	0	0	5	3	125	236	263	111	0	0	0	743
1993	0	0	0	0	55	174	348	277	97	7	0	0	958
1994	0	0	0	11	33	306	409	416	135	1	0	0	1311
1995	0	0	0	3	3	139	374	422	158	1	0	0	1100
1996	0	0	0	8			485		83				
1997	0	0	0	6	92	189	339	342	200	25	0	0	1193
1998	0	0	0	0	19	156	425	397	164	3	0	0	1164
1999	0	0	0	1	36	218	354	289	88	2	0	0	988

SNOWFALL (inches) 1999 WINSLOW, AZ (INW)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1970-71	0.0	0.0	0.0	0.0	0.0	1.5	1.1	2.3	T	0.8	0.0	0.0	5.7
1971-72	0.0	0.0	0.0	T	T	8.7	0.0	T	0.0	0.2	0.0	0.0	8.9
1972-73	0.0	0.0	0.0	6.0	T	0.6	2.1	10.7	11.0	0.5	0.0	0.0	30.9
1973-74	0.0	0.0	0.0	0.0	3.0	T	2.7	0.6	1.0	0.0	0.0	0.0	7.3
1974-75	0.0	0.0	0.0	T	0.0	3.3	5.3	4.7	3.7	1.8	0.0	0.0	18.8
1975-76	0.0	0.0	0.0	0.0	1.7	4.3	0.0	T	1.3	1.0	0.0	0.0	8.3
1976-77	0.0	0.0	0.0	0.0	2.9	1.0	3.4	8.0	1.8	4.8	0.0	0.0	21.9
1977-78	0.0	0.0	0.0	0.0	T	T	2.0	3.3	T	0.2	0.6	0.0	6.1
1978-79	0.0	0.0	0.0	0.0	T	6.8	7.0	0.4	T	T	T	0.0	14.2
1979-80	0.0	0.0	0.0	0.0	0.1	0.6	6.4	T	6.4	T	0.0	0.0	13.5
1980-81	0.0	0.0	0.0	T	T	2.8	T	T	T	T	0.0	0.0	2.8
1981-82	0.0	0.0	0.0	0.0	T	0.0	9.3	0.0	0.1	T	0.0	0.0	9.4
1982-83	0.0	0.0	0.0	0.0	T	1.8	0.0	1.6	2.3	T	0.0	0.0	5.7
1983-84	0.0	0.0	0.0	0.0	T	0.7	T	T	0.0	T	0.0	0.0	0.7
1984-85	0.0	0.0	0.0	0.0	0.0	5.5	2.6	0.9	3.7	0.6	0.0	0.0	13.3
1985-86	0.0	0.0	0.0	0.0	0.1	5.6	0.0	2.5	0.2	T	0.0	0.0	8.4
1986-87	0.0	0.0	0.0	0.0	0.0	T	11.3	6.6	2.8	0.0	0.0	0.0	20.7
1987-88	0.0	0.0	0.0	0.0	T	11.2	0.5	1.1	T	T	0.0	0.0	12.8
1988-89	0.0	0.0	0.0	0.0	2.9	1.3	1.0	3.3	0.5	0.0	0.0	0.0	9.0
1989-90	0.0	0.0	0.0	0.0	0.0	1.0	0.7	6.9	1.9	0.0	0.0	0.0	10.5
1990-91	0.0	0.0	0.0	0.0	2.2	1.7	0.1	0.0	10.6	T	0.0	0.0	14.6
1991-92	0.0	0.0	0.0	T	2.3	4.0	3.7	T	1.2	0.0	0.0	0.0	11.2
1992-93	0.0	0.0	0.0	0.0	0.2	5.8	0.4	T	0.0	0.0	0.0	0.0	6.4
1993-94	0.0	0.0	0.0	0.0	T	T	2.0	0.2	0.0	T	0.0	0.0	2.2
1994-95	0.0	0.0	0.0	0.0	3.1	0.0	0.2	0.0	T	0.3	0.0	0.0	3.6
1995-96	0.0	0.0	0.0		0.0								
1996-97													
1997-98													
1998-99													
1999-													
POR= 64 YRS	0.0	0.0	T	0.2	0.7	3.0	2.5	1.8	1.9	0.4	0.0	0.0	10.5

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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 (1961 - 1990). 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 EIGHTHS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p>
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1999 WINSLOW, ARIZONA (INW)

Winslow is located in the Little Colorado River Valley. The adjacent terrain rises gradually in all directions except to the north-northwest along the river. The White Mountain area, 100 miles to the southeast, rises to over 11,000 feet. To the south and west the Mogollon Rim averages very close to 8,000 feet above sea level, while 60 miles to the northwest the San Francisco Peaks rise to 12,655 feet.

The surrounding high terrain has a considerable effect upon the climate and weather of the Winslow area. It acts as a barrier to the movement of low-level moist air currents, as well as to cold wintertime air masses from the plains states. As a consequence, the climate is very dry and relatively mild for the latitude and elevation.

The elevation of Winslow and the generally clear skies tend to create a large diurnal temperature variation during all seasons. Below-zero readings occur during the winter months about one year in three. Daytime temperatures over 70 degrees have been recorded during all winter months. Summer days are warm with temperatures of 90 degrees or higher occurring frequently from late May to mid-September. Because of the extremely low humidity, however, the high daytime temperatures are quite comfortable. The air cools rapidly after sunset so that nights are generally cool during the summer months.

Monthly and annual precipitation is extremely variable in amount. Moist air carried aloft over the surrounding mountains from the Gulf of Mexico and the Pacific Ocean during the summer and early fall helps produce the major portion of the annual precipitation. The lifting of the moist air over the mountains and the intense surface heating of the sparsely covered lower elevations causes considerable thunderstorm activity during this summer period. Snowfall during the winter is generally light, and because of warm daytime temperatures, it soon melts. The annual snowfall is about 10 inches, but occasionally a winter season will pass with only a trace being recorded. With the annual precipitation averaging about 7 inches, agricultural activity in the vicinity of Winslow is restricted to small irrigated tracts. The non-irrigated land is used mostly for winter range purposes.

More than 270 days during the year are clear or only partly cloudy. The average growing period is 186 days.

During the spring months, occasional high winds pick up considerable dust. During the late fall and winter months the prevailing wind direction is from the southeast, while in the spring and summer months the winds blow primarily from the southwest. Destructive weather such as tornadoes and ice storms rarely occur.

