

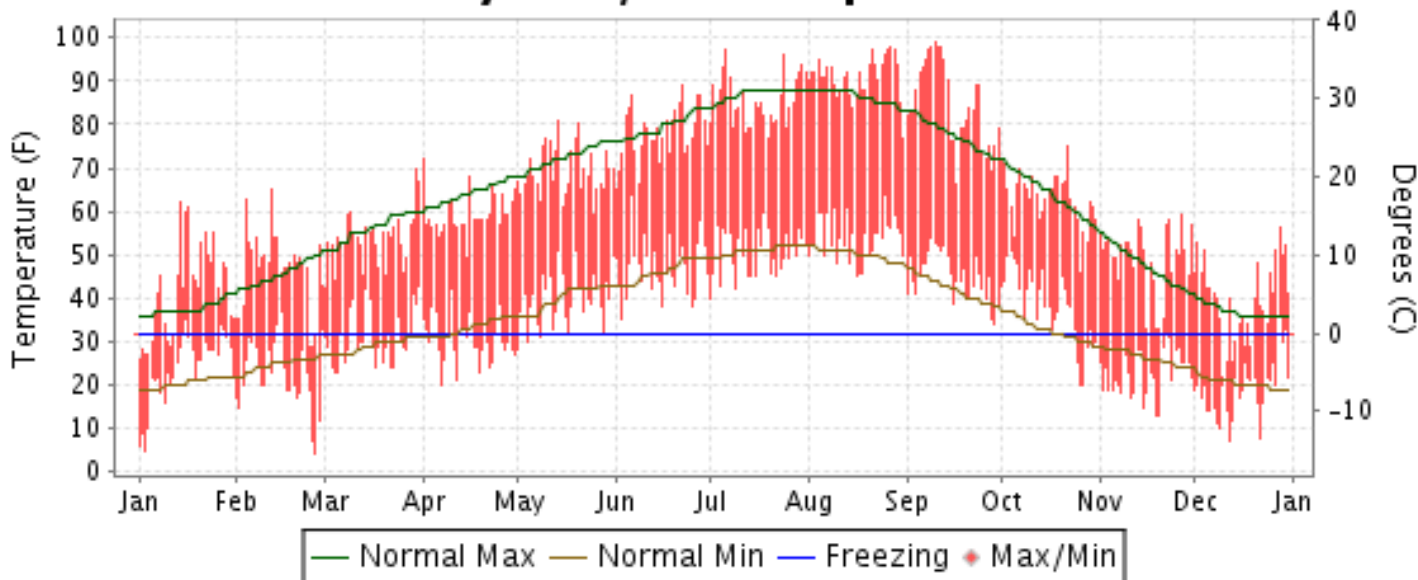


2011 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

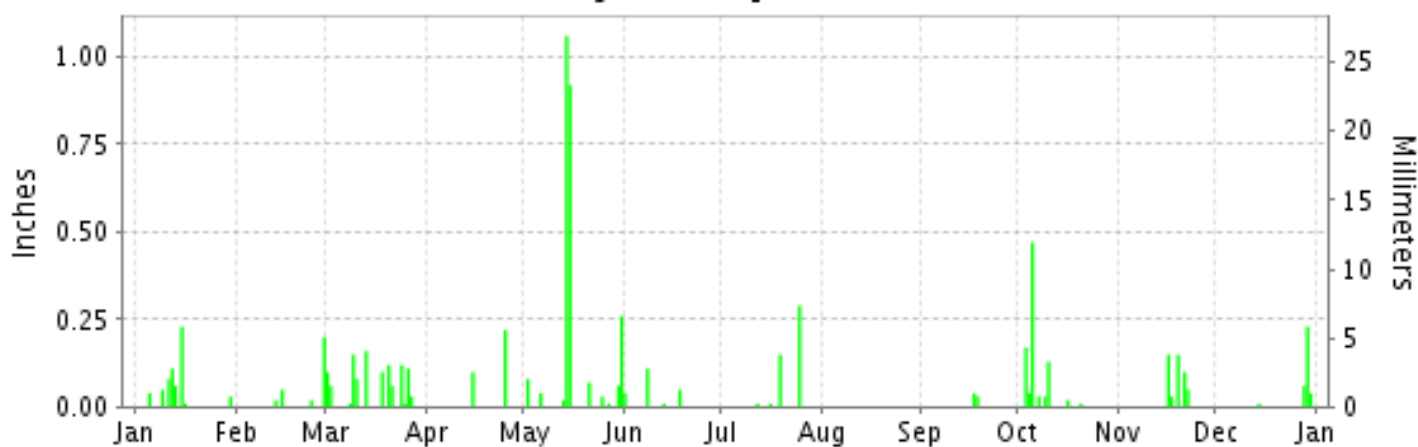
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YAKIMA, WASHINGTON (KYKM)

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

YAKIMA (KYKM)

LATITUDE: 46° 34'N LONGITUDE: -120° 32'W ELEVATION (FT): GRND: 1064 BARO: 1075 TIME ZONE: PACIFIC (UTC -8) WBAN: 24243

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	41.8	46.8	53.6	59.3	69.4	78.0	85.4	91.0	84.5	63.1	49.2	39.8	63.5	
	HIGHEST DAILY MAXIMUM	62	65	70	72	81	89	97	98	99	75	59	56	99	
	DATE OF OCCURRENCE	14	12	30	01	14	22	06	27	10	22	27	28	SEP 10	
	MEAN DAILY MINIMUM	23.8	22.4	30.9	30.2	39.7	47.1	50.5	53.8	45.2	38.2	22.6	19.0	35.3	
	LOWEST DAILY MINIMUM	5	4	23	20	28	35	40	45	34	20	13	7	4	
	DATE OF OCCURRENCE	03	26	05+	07	01	03	01	16	29	27+	20+	12	FEB 26	
	AVERAGE DRY BULB	32.8	34.6	42.3	44.8	54.6	62.6	68.0	72.4	64.9	50.7	35.9	29.4	49.4	
	MEAN WET BULB	29.8	30.0	38.0	38.4	46.2	52.5	56.6	58.4	53.2	44.9	32.0	26.0	42.2	
	MEAN DEW POINT	25.6	22.2	31.7	27.0	35.4	41.8	45.7	47.0	44.0	39.3	26.0	21.5	33.9	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	0	0	0	8	21	10	0	0	0	39
	MAXIMUM <= 32°	8	3	0	0	0	0	0	0	0	0	0	0	6	17
MINIMUM <= 32°	28	25	23	21	5	0	0	0	0	6	30	29	167		
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	990	846	697	601	318	105	17	1	89	436	868	1095	6063	
	COOLING DEGREE DAYS	0	0	0	0	1	39	115	238	92	0	0	0	485	
RH	MEAN (PERCENT)	78	64	68	51	51	47	46	43	53	70	70	77	60	
	HOUR 04 LST	85	78	82	75	73	70	74	71	77	84	81	83	78	
	HOUR 10 LST	74	53	59	36	40	34	36	29	34	55	59	71	48	
	HOUR 16 LST	72	47	53	34	34	30	28	24	31	55	64	74	46	
	HOUR 22 LST	81	74	74	61	62	57	52	49	67	81	79	80	68	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	5	0	2	0	0	0	0	0	0	0	2	6	15	
	THUNDERSTORMS	0	0	0	0	1	0	1	0	0	0	0	0	2	
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.)	29.04	28.90	28.74	28.84	28.79	28.78	28.79	28.77	28.85	28.90	28.85	29.15	28.87	
	MEAN SEA-LEVEL PRESS. (IN.)	30.21	30.07	29.90	29.99	29.93	29.90	29.91	29.89	29.99	30.05	30.02	30.34	30.02	
WINDS	RESULTANT SPEED (MPH)	1.8	2.7	3.3	4.9	3.6	4.7	3.3	3.3	3.2	2.2	2.7	1.9	3.0	
	RES. DIR. (TENS OF DEGS.)	27	25	24	28	30	30	30	30	27	28	27	27	28	
	MEAN SPEED (MPH)	3.1	5.8	6.1	7.7	6.7	7.2	5.8	5.9	5.2	4.2	4.5	3.1	5.4	
	PREVAIL.DIR.(TENS OF DEGS.)	26	28	25	28	32	32	28	32	28	27	28	28	28	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	28	35	35	31	29	31	32	26	29	26	32	30	35	
	DIR. (TENS OF DEGS.)	33	27	28	31	32	31	28	31	33	31	28	27	28	
	DATE OF OCCURRENCE	17	07	31	29	09	22	07	17	02	06	14	30	MAR 31	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	37	51	46	41	44	38	40	36	60	38	51	39	60	
DIR. (TENS OF DEGS.)	27	22	29	32	24	28	28	33	23	29	28	26	23		
DATE OF OCCURRENCE	17	12	31	29	29	13	07	31	15	31	14	30	SEP 15		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.61	0.29	1.11	0.32	2.55	0.21	0.46	T	0.07	0.90	0.48	0.34		
	GREATEST 24-HOUR (IN.)	0.24	0.20	0.23	0.22	1.96	0.11	0.29	T	0.04	0.48	0.18	0.27		
	DATE OF OCCURRENCE	15-16	28	09-10	25	14-15	08	25	26	17	04-05	16-17	29-30		
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	8	4	13	2	10	4	4	0	2	8	5	4		
PRECIPITATION 0.10	2	1	7	2	3	1	2	0	0	3	3	1			
PRECIPITATION 1.00	0	0	0	0	1	0	0	0	0	0	0	0			
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	4.4	T	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	0.2	9.7	
	GREATEST 24-HOUR (IN.)	2.0	T	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.2	2.3	
	DATE OF OCCURRENCE	12	28+	01								19	14	NOV 19	
	MAXIMUM SNOW DEPTH (IN.)	4	T	0	0	0	0	0	0	0	0	2	0	4	
	DATE OF OCCURRENCE	12	24									20+		JAN 12	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	1	0	0	0	0	0	0	0	0	0	2	0	3		

NORMALS, MEANS, AND EXTREMES YAKIMA (KYKM)

LATITUDE:
46° 34'N

LONGITUDE:
-120° 32'W

ELEVATION (FT):
GRND: 1064 BARO: 1075

TIME ZONE:
PACIFIC (UTC -8)

WBAN: 24243

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	37.7	45.6	56.0	64.1	72.4	79.6	87.2	86.5	77.6	64.3	47.7	37.1	63.0
	MEAN DAILY MAXIMUM	65	37.5	45.9	55.4	63.7	72.6	79.7	87.8	86.3	77.7	64.1	48.1	37.9	63.1
	HIGHEST DAILY MAXIMUM	65	68	69	80	92	102	105	109	110	100	88	73	67	110
	YEAR OF OCCURRENCE		1977	1947	1960	1977	1986	1992	2006	1971	1988	1992	1989	1980	AUG 1971
	MEAN OF EXTREME MAXS.	65	54.4	59.3	68.2	78.6	89.0	94.6	100.3	98.8	91.1	77.7	63.2	54.3	77.5
	NORMAL DAILY MINIMUM	30	20.5	24.7	28.9	33.2	40.0	46.2	50.9	50.1	42.3	32.9	26.3	20.5	34.7
	MEAN DAILY MINIMUM	65	21.1	25.7	29.9	34.6	42.3	48.8	53.2	51.8	43.9	34.8	27.6	22.5	36.4
	LOWEST DAILY MINIMUM	65	-21	-25	-1	18	25	30	34	35	24	4	-13	-17	-25
	YEAR OF OCCURRENCE		1950	1950	1960	2008	1999	1984	1971	1960	1985	2002	1985	1964	FEB 1950
	MEAN OF EXTREME MINS.	65	3.3	10.4	19.3	24.0	29.5	36.6	41.4	41.3	32.8	22.3	14.2	6.5	23.5
	NORMAL DRY BULB	30	29.1	35.2	42.5	48.7	56.2	62.9	69.1	68.3	60.0	48.6	37.0	28.8	48.9
	MEAN DRY BULB	65	29.3	35.8	42.7	49.2	57.5	64.3	70.5	69.1	60.8	49.4	37.9	30.2	49.7
	MEAN WET BULB	28	28.3	31.2	36.4	40.4	46.5	51.6	56.0	55.4	49.9	41.5	33.2	26.5	41.4
	MEAN DEW POINT	28	26.6	28.4	31.8	35.4	41.2	45.8	50.2	50.0	45.1	37.4	30.8	25.0	37.3
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	*	1.1	4.2	13.4	11.4	2.0	0.0	0.0	0.0	32.1
	MAXIMUM <= 32	30	9.5	3.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	9.9	24.4
MINIMUM <= 32	30	27.3	23.0	19.7	11.6	2.9	0.2	0.0	0.0	1.3	12.9	22.2	28.1	149.2	
MINIMUM <= 0	30	1.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.2	3.6	
H/C	NORMAL HEATING DEG. DAYS	30	1097	821	682	474	275	112	28	30	162	493	824	1106	6104
	NORMAL COOLING DEG. DAYS	30	0	0	0	1	18	65	171	148	28	0	0	0	431
RH	NORMAL (PERCENT)	30	81	75	63	54	51	49	46	49	57	65	77	82	62
	HOURLY 04 LST	30	84	84	79	73	72	72	69	71	78	81	84	85	78
	HOURLY 10 LST	30	81	74	57	44	41	39	37	40	45	55	75	82	56
	HOURLY 16 LST	30	72	60	43	35	32	31	27	28	33	41	63	76	45
	HOURLY 22 LST	30	82	79	70	60	60	57	55	52	56	67	73	81	68
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	48	5.2	2.1	0.6	0.1	0.0	0.0	0.0	0.0	0.2	0.5	3.1	6.2	18.0
	THUNDERSTORMS	64	0.0	0.0	0.0	0.4	1.0	1.5	1.3	1.1	0.5	0.1	0.0	0.0	5.9
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS)	50	6.3	5.9	5.4	5.2	4.7	4.2	2.5	2.7	3.1	4.5	5.8	6.2	4.7
	MIDNIGHT-MIDNIGHT (OKTAS)	29	5.9	5.3	4.7	4.6	4.1	3.8	2.4	2.5	2.8	3.9	5.4	5.8	4.3
	MEAN NO. DAYS WITH: CLEAR	50	4.0	4.4	6.2	6.2	8.4	10.3	18.7	17.5	15.0	9.5	5.1	4.0	109.3
	PARTLY CLOUDY	50	5.4	5.8	8.3	9.4	10.5	9.8	8.0	7.8	7.9	8.3	6.0	5.2	92.4
	CLOUDY	50	21.6	18.0	16.6	14.4	12.1	9.9	4.3	5.6	7.1	13.2	18.9	21.8	163.5
PR	MEAN STATION PRESSURE(IN)	28	28.98	28.94	28.87	28.85	28.83	28.82	28.82	28.81	28.85	28.91	28.93	28.99	28.88
	MEAN SEA-LEVEL PRES. (IN)	28	30.15	30.10	30.03	30.00	29.96	29.94	29.94	29.93	29.98	30.06	30.10	30.17	30.03
WINDS	MEAN SPEED (MPH)	28	4.5	5.6	6.9	7.7	7.7	7.7	7.4	6.9	6.6	5.9	5.2	4.2	6.4
	PREVAIL.DIR(TENS OF DEGS)	32	27	28	28	28	28	27	28	27	28	28	28	27	28
	MAXIMUM 2-MINUTE: SPEED (MPH)	15	45	39	38	41	39	37	32	45	35	40	38	39	45
	DIR. (TENS OF DEGS)		28	28	27	28	28	29	28	18	27	27	27	20	28
	YEAR OF OCCURRENCE		2007	2008	2009	2004	2010	1998	2011	2003	2000	2001	2010	2006	JAN 2007
	MAXIMUM 3-SECOND SPEED (MPH)	15	60	56	48	53	49	77	46	53	60	51	51	58	77
	DIR. (TENS OF DEGS)		25	28	26	27	28	21	23	18	23	03	28	15	21
YEAR OF OCCURRENCE		2007	2008	2005	2004	2010	2009	2009	2003	2011	2009	2011	2007	JUN 2009	
PRECIPITATION	NORMAL (IN)	30	1.17	0.80	0.70	0.53	0.51	0.62	0.22	0.36	0.39	0.53	1.05	1.38	8.26
	MAXIMUM MONTHLY (IN)	65	3.68	2.46	2.63	1.83	2.76	2.53	0.71	2.10	2.07	2.22	2.83	5.59	5.59
	YEAR OF OCCURRENCE		1995	1961	1957	1995	1948	1991	1966	1975	1986	1950	1973	1996	DEC 1996
	MINIMUM MONTHLY (IN)	65	0.09	T	0.01	T	0.01	0.01	T	0.00	0.00	0.00	T	0.07	0.00
	YEAR OF OCCURRENCE		1985	1988	1973	1985	2001	2003	1988	1955	1986	1978	1990	1976	SEP 1986
	MAXIMUM IN 24 HOURS (IN)	65	1.37	0.87	0.74	1.25	1.96	1.56	0.66	1.74	1.49	1.05	2.03	1.58	2.03
	YEAR OF OCCURRENCE		1963	1961	1987	1974	2011	1982	1963	1990	1986	1982	1996	1977	NOV 1996
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	9.4	7.7	6.9	5.0	5.6	4.8	2.6	2.7	3.5	4.5	8.8	9.4	70.9
PRECIPITATION >= 1.00	30	0.0	0.0	0.0	*	0.0	0.1	0.0	0.1	*	*	0.1	0.1	0.4	
SNOWFALL	NORMAL (IN)	30	7.0	3.3	1.3	0.*	0.*	0.0	0.0	0.0	0.0	0.2	3.3	9.5	24.6
	MAXIMUM MONTHLY (IN)	65	26.6	16.5	10.8	0.8	T	0.0	0.0	0.0	0.0	2.9	23.5	37.5	37.5
	YEAR OF OCCURRENCE		1950	1949	1971	2010	2010				2011	1991	1996	1964	DEC 1964
	MAXIMUM IN 24 HOURS (IN)	65	13.6	8.2	7.4	0.8	T	0.0	0.0	0.0	0.0	2.4	18.9	14.0	18.9
	YEAR OF OCCURRENCE		1963	1994	1951	2010	2010					1991	1996	1964	NOV 1996
	MAXIMUM SNOW DEPTH (IN)	63	21	15	7	0	0	0	0	0	0	2	10	19	21
	YEAR OF OCCURRENCE		1997	1969	1969							1991	2001	1964	JAN 1997
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	2.5	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.9	2.9	8.0	

PRECIPITATION (inches) 2011 YAKIMA (KYKM)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1982	0.58	1.48	0.34	0.30	0.37	1.70	0.12	0.39	1.08	1.46	0.90	2.15	10.87
1983	1.97	1.59	1.95	0.66	0.30	0.77	0.29	0.44	0.33	0.23	2.77	1.92	13.22
1984	0.13	0.92	1.04	1.05	0.51	1.45	0.13	0.04	0.46	0.16	2.62	0.51	9.02
1985	0.09	0.68	0.62	T	0.46	0.37	0.12	0.03	0.84	0.75	0.92	1.02	5.90
1986	1.82	1.26	0.54	0.05	0.94	0.08	0.25	0.11	2.07	0.38	0.64	0.89	9.03
1987	1.46	0.25	1.44	0.57	0.10	0.05	0.40	T	0.00	0.02	0.68	3.30	8.27
1988	0.68	T	0.21	1.41	0.18	1.00	T	T	0.13	0.05	1.12	0.67	5.45
1989	0.19	1.29	1.71	0.85	0.63	0.05	0.07	0.41	0.09	0.67	0.72	0.21	6.89
1990	1.47	0.11	0.21	0.18	1.13	0.31	0.02	2.00	0.04	0.45	T	0.24	6.16
1991	0.34	0.23	1.16	0.61	0.17	2.53	0.18	0.06	0.08	0.73	1.24	0.28	7.61
1992	0.27	0.62	0.41	0.96	0.04	1.25	0.44	0.25	0.28	0.68	0.98	2.33	8.51
1993	0.91	0.66	0.62	0.50	0.43	0.72	0.58	0.17	0.03	0.07	0.21	1.02	5.92
1994	0.36	1.05	0.04	0.90	1.22	0.66	0.05	0.06	0.09	1.36	0.69	1.27	7.75
1995	3.68	0.32	1.28	1.83	0.62	0.62	0.69	0.14	0.74	0.27	1.54	2.15	13.88
1996	1.31	1.81	0.57	0.22	1.24	0.04	.48	.02	.36	.55	2.59	5.59	14.78
1997	1.15	0.19	0.60	0.29	0.22	0.89	0.04	0.22	0.24	1.72	1.13	0.19	6.88
1998	1.96	1.43	1.09	0.21	1.20	0.10	0.64	0.03	0.06	0.19	0.83	0.69	8.43
1999	1.37	1.32	0.15	0.14	0.26	0.17	0.64	0.75	T	0.40	0.53	0.27	6.00
2000	1.65	1.01	0.60	0.53	0.54	0.13	0.05	T	0.18	0.32	0.70	0.70	6.41
2001	0.54	0.26	0.47	0.51	0.01	1.03	0.03	0.30	0.14	0.36	1.96	1.12	6.73
2002	0.33	0.84	0.21	0.80	0.69	0.71	0.12	T	0.10	0.09	0.46	3.49	7.84
2003	2.21	0.28	0.36	1.28	0.16	T	T	0.44	0.05	0.20	0.10	2.05	7.13
2004	1.55	1.39	0.44	0.25	0.43	0.57	0.46	1.19	0.15	0.62	0.08	1.12	8.25
2005	1.07	0.15	0.56	0.72	1.17	0.09	0.12	0.09	0.37	0.23	1.60	2.38	8.55
2006	1.81	0.64	0.44	0.59	0.82	0.69	0.06	T	0.55	0.26	1.14	2.56	9.56
2007	0.30	0.84	0.12	0.25	0.32	0.21	0.01	0.12	0.19	0.56	1.50	1.25	5.67
2008	0.81	0.51	0.27	0.13	0.21	0.29	0.05	0.32	0.19	0.44	0.98	0.83	5.03
2009	0.97	0.67	0.84	0.25	0.76	0.52	0.03	0.09	0.43	0.89	0.55	0.97	6.97
2010	1.97	1.01	0.14	0.53	1.46	1.07	0.08	0.05	0.88	0.74	0.83	2.38	11.14
2011	0.61	0.29	1.11	0.32	2.55	0.21	0.46	T	0.07	0.90	0.48	0.34	7.34
POR= 65 YRS	1.27	0.76	0.64	0.51	0.57	0.65	0.18	0.30	0.35	0.55	1.01	1.34	8.13

WBAN : 24243

AVERAGE TEMPERATURE (°F) 2011 YAKIMA (KYKM)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1982	26.2	36.8	43.0	45.8	56.0	66.8	68.7	68.1	60.2	49.0	35.8	29.0	48.8
1983	37.6	40.2	47.8	49.8	60.9	62.9	67.6	70.9	58.1	50.6	42.4	22.2	50.9
1984	31.2	37.8	45.3	47.1	52.4	61.1	70.5	68.8	59.0	47.1	36.1	20.1	48.0
1985	26.4	28.9	41.9	50.8	58.8	64.6	74.9	66.0	55.3	46.7	23.0	19.1	46.4
1986	30.1	35.2	45.6	47.3	57.6	67.4	65.7	72.6	56.9	51.1	38.5	28.5	49.7
1987	28.1	37.6	44.0	52.8	59.6	65.9	67.9	68.5	62.9	50.3	40.1	29.0	50.6
1988	28.8	38.2	42.2	51.1	55.1	62.1	69.2	67.7	59.5	55.1	39.5	28.1	49.7
1989	33.7	26.4	40.0	52.0	56.2	65.8	68.6	66.9	61.0	48.8	41.7	31.4	49.4
1990	36.5	35.2	44.3	53.4	55.0	63.7	73.2	70.1	65.4	46.8	41.6	22.8	50.7
1991	27.7	41.5	40.6	49.2	55.0	60.1	70.6	71.3	63.8	48.6	38.2	34.9	50.1
1992	34.9	40.3	48.1	50.7	60.7	70.0	69.5	70.1	59.1	51.2	38.2	24.5	51.4
1993	23.6	28.8	40.8	47.8	61.5	62.0	63.0	66.6	60.9	51.7	31.4	33.0	47.6
1994	36.3	33.3	44.2	52.6	59.7	62.4	73.8	69.4	64.4	49.6	35.5	32.5	51.1
1995	32.3	40.1	42.9	48.0	59.0	62.6	69.5	64.6	63.6	47.9	41.3	31.3	50.3
1996	26.7	31.5	42.9	49.6	53.2	63.1	72.6	68.7	57.6	47.2	33.8	23.1	47.5
1997	27.1	35.4	43.6	47.6	59.7	62.8	69.2	71.5	62.4	48.0	39.6	29.9	49.7
1998	30.0	39.1	43.8	49.7	58.3	65.1	76.1	71.6	65.3	47.4	41.0	30.7	51.5
1999	34.5	38.3	41.6	47.0	53.6	62.6	67.3	70.6	59.3	47.4	42.9	35.5	50.1
2000	29.9	36.6	42.4	51.5	57.0	64.8	69.4	68.2	59.7	48.7	31.3	28.2	49.0
2001	32.5	34.5	43.8	47.4	58.2	61.6	71.0	71.7	63.8	48.9	39.7	32.9	50.5
2002	34.8	36.9	39.3	48.8	55.2	65.4	72.6	67.7	59.9	46.5	37.8	35.4	50.0
2003	36.8	38.2	45.7	49.0	56.6	67.9	73.9	71.0	63.8	53.5	33.6	29.8	51.7
2004	28.3	36.4	46.1	51.6	57.1	65.7	72.8	71.8	59.8	51.3	37.5	34.4	51.1
2005	30.1	36.2	45.5	50.2	60.1	62.9	70.9	70.9	58.8	50.3	35.6	25.8	49.8
2006	35.3	34.8	41.7	49.0	57.6	65.4	74.0	69.4	61.6	48.8	37.2	27.3	50.2
2007	27.9	35.8	44.5	48.7	58.2	63.4	75.4	68.6	60.2	47.1	37.2	31.0	49.8
2008	27.1	38.9	40.1	43.8	59.9	63.1	70.7	68.7	61.0	48.9	40.6	23.8	48.9
2009	30.2	34.9	39.0	48.2	58.0	67.4	73.7	70.8	62.3	46.5	38.1	23.8	49.4
2010	36.0	40.9	43.8	49.1	54.1	62.7	71.8	69.0	62.1	51.3	35.5	31.9	50.7
2011	32.8	34.6	42.3	44.8	54.6	62.6	68.0	72.4	64.9	50.7	35.9	29.4	49.4
POR= 65 YRS	29.3	35.8	42.7	49.2	57.5	64.3	70.5	69.1	60.8	49.4	37.9	30.2	49.7

HEATING DEGREE DAYS (base 65°F) 2011 YAKIMA (KYKM)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1982-83	43	30	164	486	868	1111	840	690	527	452	191	90	5492
1983-84	32	2	206	440	672	1320	1043	781	602	531	384	142	6155
1984-85	13	23	199	546	860	1389	1189	1002	709	421	219	61	6631
1985-86	0	32	286	561	1255	1416	1079	828	595	525	291	45	6913
1986-87	58	2	255	424	791	1125	1133	761	642	367	189	72	5819
1987-88	31	19	112	447	739	1108	1116	770	699	413	311	139	5904
1988-89	33	14	197	303	762	1136	963	1073	767	383	269	52	5952
1989-90	26	28	116	497	694	1035	876	827	634	342	307	111	5493
1990-91	15	21	36	558	697	1302	1149	652	749	466	306	153	6104
1991-92	5	12	63	499	795	926	926	710	515	419	159	33	5062
1992-93	9	34	184	427	799	1249	1274	1005	742	505	153	123	6504
1993-94	80	53	172	406	1002	983	883	880	641	373	185	126	5784
1994-95	10	10	53	472	875	1003	1006	695	681	505	193	121	5624
1995-96	7	71	95	526	705	1041	1183	967	677	456	365	92	6185
1996-97	23	23	227	542	931	1292	1166	824	656	514	185	99	6482
1997-98	17	6	98	522	755	1085	1077	720	654	454	222	48	5658
1998-99	0	17	75	537	714	1055	939	741	718	530	358	128	5812
1999-00	50	38	171	538	657	910	1080	817	694	398	247	70	5670
2000-01	32	33	192	498	1006	1136	1003	850	653	521	246	127	6297
2001-02	20	13	85	491	749	988	928	780	790	482	300	79	5705
2002-03	21	31	166	568	808	915	870	746	591	474	274	37	5501
2003-04	8	0	111	354	933	1085	1131	822	576	397	239	98	5754
2004-05	11	14	157	420	819	940	1073	801	600	438	180	106	5559
2005-06	2	7	186	449	877	1206	911	840	716	475	266	56	5991
2006-07	10	17	147	496	826	1163	1146	813	628	482	215	110	6053
2007-08	0	20	175	548	827	1048	1166	751	764	628	198	123	6248
2008-09	8	36	124	493	727	1265	1072	839	800	496	253	25	6138
2009-10	11	16	122	566	799	1270	893	670	648	469	336	104	5904
2010-11	11	39	104	420	878	1017	990	846	697	601	318	105	6026
2011-	17	1	89	436	868	1095							

WBAN : 24243

COOLING DEGREE DAYS (base 65°F) 2011 YAKIMA (KYKM)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1982	0	0	0	0	6	132	165	131	28	0	0	0	462
1983	0	0	0	0	72	35	119	191	6	0	0	0	423
1984	0	0	0	0	3	33	192	150	25	0	0	0	403
1985	0	0	0	0	32	57	312	71	2	0	0	0	474
1986	0	0	0	0	69	122	87	245	20	0	0	0	543
1987	0	0	0	14	29	110	128	133	56	0	0	0	470
1988	0	0	0	2	11	59	168	105	39	1	0	0	385
1989	0	0	0	0	4	82	146	95	4	0	0	0	331
1990	0	0	0	1	1	79	277	186	53	0	0	0	597
1991	0	0	0	0	1	13	184	215	32	0	0	0	445
1992	0	0	0	0	31	189	156	199	14	5	0	0	594
1993	0	0	0	0	49	42	26	111	54	0	0	0	282
1994	0	0	0	6	27	52	290	153	42	0	0	0	570
1995	0	0	0	0	15	54	156	67	64	0	0	0	356
1996	0	0	0	0	5	39	268	145	12	0	0	0	469
1997	0	0	0	0	29	40	153	214	27	0	0	0	463
1998	0	0	0	1	21	55	353	228	91	0	0	0	749
1999	0	0	0	0	11	62	126	216	8	0	0	0	423
2000	0	0	0	0	7	73	178	141	35	0	0	0	434
2001	0	0	0	0	41	30	209	229	53	0	0	0	562
2002	0	0	0	0	1	99	263	121	20	0	0	0	504
2003	0	0	0	0	21	129	288	190	80	6	0	0	714
2004	0	0	0	0	1	122	264	233	6	0	0	0	626
2005	0	0	0	0	35	51	194	198	9	0	0	0	487
2006	0	0	0	0	48	75	296	161	52	0	0	0	632
2007	0	0	0	0	9	68	330	138	35	0	0	0	580
2008	0	0	0	0	45	71	190	159	14	0	0	0	479
2009	0	0	0	0	42	104	287	199	46	0	0	0	678
2010	0	0	0	0	6	42	229	171	23	1	0	0	472
2011	0	0	0	0	1	39	115	238	92	0	0	0	485

SNOWFALL (inches) 2011 YAKIMA (KYKM)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1982-83	0.0	0.0	0.0	0.0	0.6	13.2	5.0	3.1	0.0	T	0.0	0.0	21.9
1983-84	0.0	0.0	0.0	0.0	3.7	16.3	1.2	T	0.0	0.0	T	0.0	21.2
1984-85	0.0	0.0	0.0	T	11.5	7.2	0.2	8.6	0.8	0.0	0.0	0.0	28.3
1985-86	0.0	0.0	0.0	T	10.0	11.5	9.8	7.3	0.0	0.0	T	0.0	38.6
1986-87	0.0	0.0	0.0	0.0	0.3	9.6	7.8	T	0.0	0.0	0.0	0.0	17.7
1987-88	0.0	0.0	0.0	0.0	2.0	10.6	9.2	T	0.0	0.0	0.0	0.0	21.8
1988-89	0.0	0.0	0.0	0.0	T	7.2	0.4	11.4	5.0	0.0	0.0	0.0	24.0
1989-90	0.0	0.0	0.0	0.0	T	0.2	0.4	1.9	T	0.0	0.0	0.0	2.5
1990-91	0.0	0.0	0.0	0.0	0.0	1.0	1.4	T	0.6	T	0.0	0.0	3.0
1991-92	0.0	0.0	0.0	2.9	T	0.6	0.3	0.9	0.0	T	0.0	0.0	4.7
1992-93	0.0	0.0	0.0	0.0	4.2	30.4	11.6	8.3	5.1	0.2	0.0	0.0	59.8
1993-94	0.0	0.0	0.0	T	1.7	3.0	T	9.5	0.1	T	T	0.0	14.3
1994-95	0.0	0.0	0.0	0.0	0.3	5.1	7.2	0.3	0.1	0.0	0.0	0.0	13.0
1995-96	0.0	0.0	0.0	0.0	2.6	2.6	12.8	3.2	T				
1996-97					23.5	34.5	3.5	1.9	2.6	0.0	0.0	0.0	
1997-98							13.3						
1998-99							2.3	1.5	T	0.0	0.0	0.0	
1999-00	0.0	0.0	0.0	0.0	0.0	1.8	17.8	0.8	0.0	0.0	0.0	0.0	20.4
2000-01	0.0	0.0	0.0	T	3.2	9.9	2.7	4.3	0.0	0.0	0.0	0.0	20.1
2001-02	0.0	0.0	0.0	0.0	12.9	9.9	T	0.8	3.4	0.0	0.0	0.0	27.0
2002-03	0.0	0.0	0.0	T	0.0	6.9	3.0	T	0.0	T	0.0	0.0	9.9
2003-04	0.0	0.0	0.0	T	0.0	11.4	17.6	3.8	0.2	0.0	0.0	0.0	33.0
2004-05	0.0	0.0	0.0	0.0	0.0	5.3	10.1	T	0.0	0.0	0.0	0.0	15.4
2005-06	0.0	0.0	0.0	0.0	2.4	3.1	2.1	0.2	T	0.0	0.0	0.0	7.8
2006-07	0.0	0.0	0.0	0.0	3.7	7.0	0.6	1.1	1.3	0.0	0.0	0.0	13.7
2007-08	0.0	0.0	0.0	0.0	9.0	7.7	7.5	4.4	0.5	T	0.0	0.0	29.1
2008-09	0.0	0.0	0.0	0.0	0.0	9.4	7.1	1.0	T	T	0.0	0.0	17.5
2009-10	0.0	0.0	0.0	T	1.1	12.7	1.5	0.0	T	0.8	T	0.0	16.1
2010-11	0.0	0.0	0.0	0.0	7.4	13.4	4.4	T	0.9	0.0	0.0	0.0	26.1
2011-	0.0	0.0	0.0	0.0	4.2	0.2							
POR= 64 YRS	0.0	0.0	0.0	0.1	2.8	8.1	7.7	3.0	1.3	T	T	0.0	23.0

WBAN : 24243

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 YAKIMA WASHINGTON (KYKM)

Yakima is located in a small east-west valley in the upper (northwestern) part of the Yakima Valley. Local topography is complex with a number of minor valleys and ridges giving a local relief of as much as 1,000 feet. This complex topography results in marked variations in air drainage, winds, and low temperatures within short distances.

The climate of the Yakima Valley is relatively mild and dry. It has characteristics of both maritime and continental climates, modified by the Cascade and the Rocky Mountains, respectively. Summers are dry and rather hot, and winters cool with only light snowfall. The maritime influence is strongest in winter when the prevailing westerlies are the strongest and most steady. The Selkirk and Rocky Mountains in British Columbia and Idaho shield the area from most of the very cold air masses that sweep down from Canada into the Great Plains and eastern United States. Sometimes a strong polar high pressure area over western Canada will occur at the same time that a low pressure area covers the southwestern United States. On these occasions, the cold arctic air will pour through the passes and down the river valleys of British Columbia, bringing very cold temperatures to Yakima. However, over one-half of the winters remain above zero.

The modifying influence of the Pacific Ocean is much less in summer. Afternoons are hot, but the dry air results in a rapid temperature fall after sunset, and nights are pleasantly cool with summertime low temperatures, usually in the 50s. Spells of 4 to 11 days of 100 degrees or more have occurred.

The length of the growing season varies depending on the immediate topography and the crop grown. Temperatures below 32 degrees are infrequent during the period from mid-May through September. Temperatures below 40 degrees during July and August have occurred in about half of the years.

Precipitation follows the pattern of a West Coast marine climate with the typical late fall and early winter high. However, since Yakima lies in the rain shadow of the Cascades, total amounts are small. The three months, November to January, total nearly half of the annual fall. Late June, July, and August are very dry.

Irrigation is necessary for nearly all crops. Ample water supplies are available from the snowmelt in the Cascade Mountains which is collected in storage reservoirs for summer use.

Snowfall in the Yakima area is light, averaging 20 to 25 inches.

Summers are sunny, with about 85 percent of the possible sunshine. Winters are generally cloudy, with only a third of the possible sunshine.

Winds are mostly light, averaging about 7 mph for the year, being somewhat stronger in late spring and weaker in winter. Speeds of 30 to 35 mph are reached at least once in about half the months and speeds over 40 mph occur in about 1 out of 5 months. The most common wind direction in downtown Yakima is northwest, while at the airport the wind is from the west in winter and the west-northwest in summer.

Station History

YAKIMA, WA

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
YAKIMA AIR TERMINAL	2011-04-13	Present	46° 34'	-120° 32'	1064		ASOS, COOP
YAKIMA MUNICIPAL AP	1948-01-01	1968-01-01	46° 34'	-120° 31'	1063		AIRWAYS, COOP
YAKIMA AIR TERMINAL	1944-01-01	1944-03-01	46° 34'	-120° 31'			AIRWAYS
YAKIMA MUNICIPAL AP	1944-03-01	1948-01-01	46° 34'	-120° 31'			AIRWAYS
YAKIMA MUNICIPAL AP	1968-01-01	1969-01-01	46° 34'	-120° 31'	1052		AIRWAYS, COOP
YAKIMA MUNICIPAL AP	1969-01-01	1972-12-01	46° 34'	-120° 31'	1052		COOP, WXSVC
YAKIMA AIR TERMINAL	1996-04-01	2011-04-13	46° 34'	-120° 32'	1064		ASOS, COOP
YAKIMA AIR TERMINAL	1972-12-01	1987-11-01	46° 34'	-120° 31'	1052		COOP, WXSVC
YAKIMA AIR TERMINAL	1930-07-01	1930-10-31	46° 36'	-120° 30'			AIRWAYS
YAKIMA AIR TERMINAL	1937-08-01	1944-01-01	46° 34'	-120° 33'			AIRWAYS
YAKIMA AIR TERMINAL	1987-11-01	1996-04-01	46° 34'	-120° 31'	1064		COOP, WXSVC

Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
TEMP	1909-03-01	1930-10-31	DAILY	2400			
PRECIP	1909-03-01	1930-10-31	DAILY	2400	UNIV	RCRD	
TEMP	1982-01-01	1987-11-01	DAILY	2400			
PRECIP	1987-11-01	1995-07-01	HOURLY	2400			
EVAP	1996-04-01	1998-01-30	DAILY	0730	TOTAL		
TEMP	1996-04-01	2011-04-13	DAILY	2400	HYGR		
EVAP	1937-08-01	1982-01-01	DAILY	0800			
PRECIP	1995-07-01	1996-04-01	HOURLY	2400	UNIV	RCRD	
PRECIP	1996-04-01	2011-04-13	HOURLY	2400	TB	RCRD	
PRECIP	1937-08-01	1982-01-01	DAILY	2400	UNIV	RCRD	
EVAP	1982-01-01	1987-11-01	DAILY	0800			
PRECIP	1987-11-01	1995-07-01	DAILY	2400	UNIV	RCRD	
TEMP	1987-11-01	1995-07-01	DAILY	2400	HYGR		
TEMP	1995-07-01	1996-04-01	DAILY	2400	HYGR		
PRECIP	1996-04-01	1998-01-30	HOURLY	2400	UNIV	RCRD	
PRECIP	1996-04-01	2011-04-13	DAILY	2400	TB	RCRD	
PRECIP	1982-01-01	1987-11-01	HOURLY	2400			
EVAP	1987-11-01	1995-07-01	DAILY	0730	MONEL(H)		
TEMP	2011-04-13	Present	DAILY	2400	ATEMP		
TEMP	1937-08-01	1982-01-01	DAILY	2400			
PRECIP	1995-07-01	1996-04-01	DAILY	2400	UNIV	RCRD	
EVAP	1996-04-01	1998-01-30	DAILY	0730	MONEL(H)		
PRECIP	2011-04-13	Present	DAILY	2400	PCPNX	SHLD	
PRECIP	1982-01-01	1987-11-01	DAILY	2400	UNIV	RCRD	
PRECIP	2011-04-13	Present	HOURLY	2400	AWPAG	RCRD;HTD	
EVAP	1909-03-01	1930-10-31	DAILY	0800			
EVAP	1995-07-01	1996-04-01	DAILY	0730	MONEL(H)		

* 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>

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

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Email : ncdc.info@noaa.gov

NOAA/National Climatic Data Center

Attn: User Engagement & Services Branch

151 Patton Avenue

Asheville, NC 28801-5001

Visit our Web Site for other weather data: www.ncdc.noaa.gov