

2005

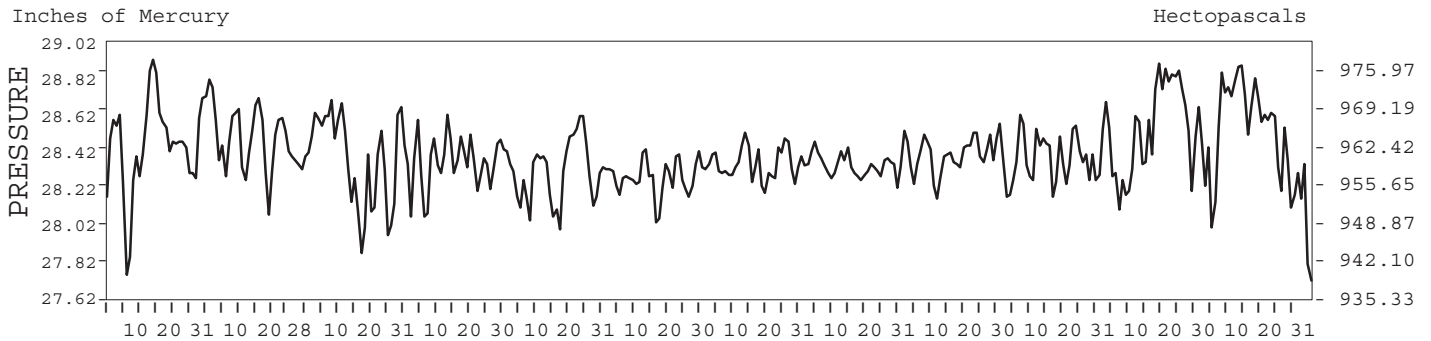
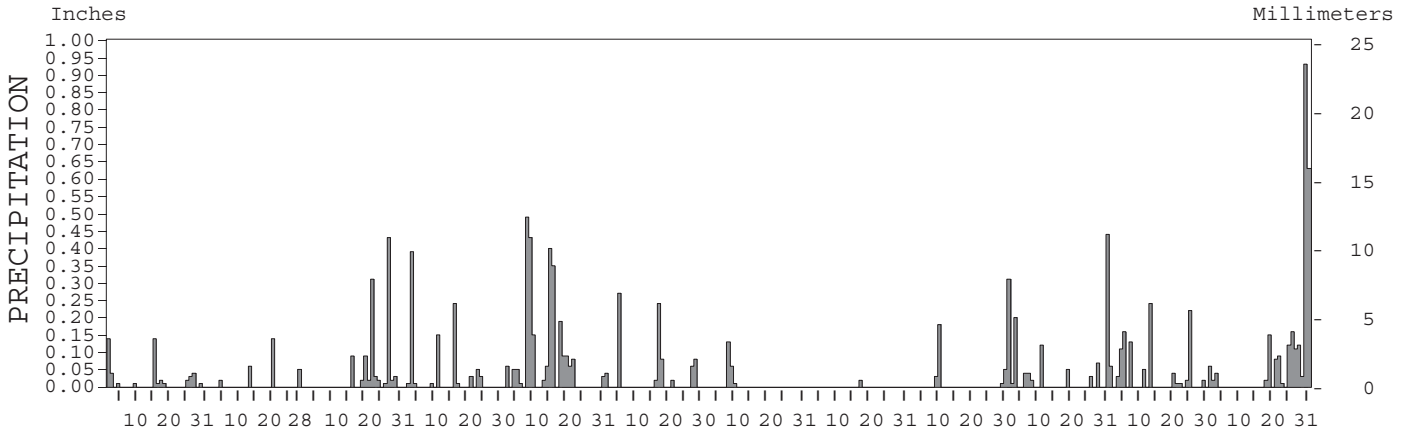
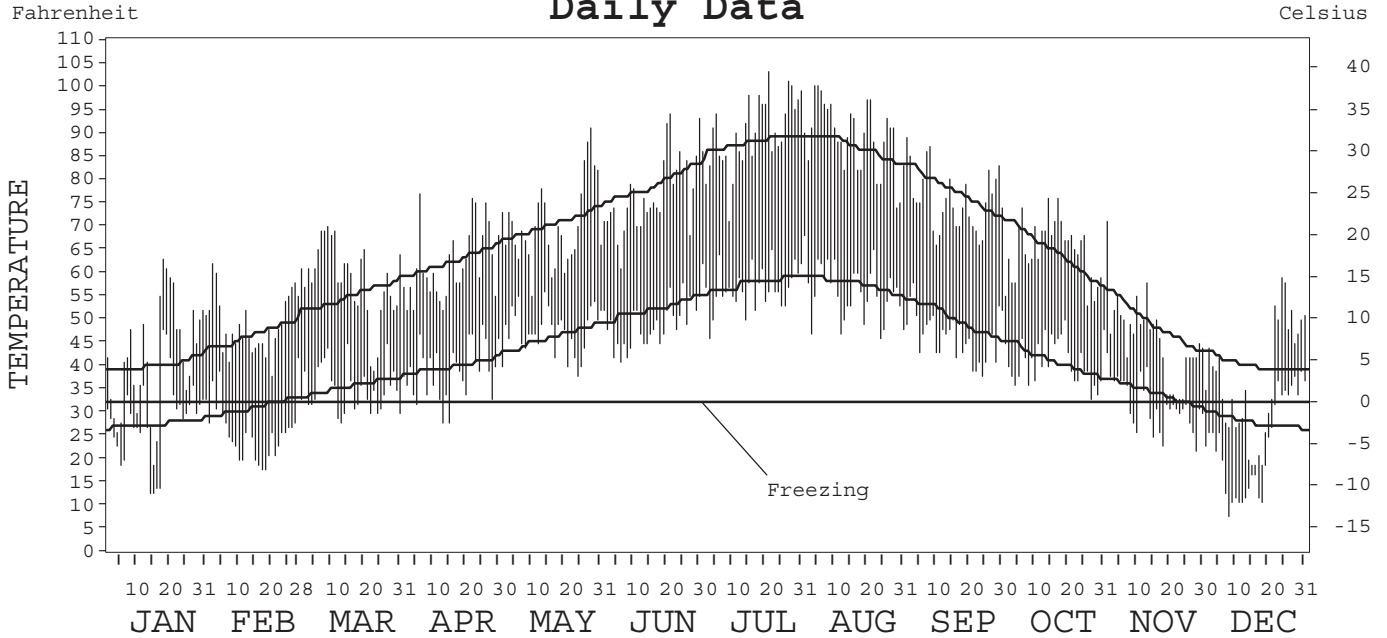
LOCAL CLIMATOLOGICAL DATA  
ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-4179

PENDLETON,  
OREGON (PDT)

Daily Data



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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE	NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA	DIRECTOR NATIONAL CLIMATIC DATA CENTER
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# METEOROLOGICAL DATA FOR 2005

## PENDLETON, OR (PDT)

LATITUDE: 45° 41' 54" N      LONGITUDE: 118° 50' 03" W      ELEVATION (FT): GRND: 1513      BARO: 1516      TIME ZONE: PACIFIC (UTC + 8)      WBAN: 24155

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	42.2	48.9	58.3	61.9	70.4	76.9	90.1	89.2	75.6	64.7	45.6	36.8	63.4	
	HIGHEST DAILY MAXIMUM	63	62	70	77	91	94	103	100	89	76	71	59	103	
	DATE OF OCCURRENCE	18	02	09	06	28	21	21	05+	01	17+	01	24	JUL 21	
	MEAN DAILY MINIMUM	28.9	26.0	35.3	38.9	47.5	49.0	56.8	55.9	46.5	41.1	31.8	23.2	40.1	
	LOWEST DAILY MINIMUM	13	18	28	28	38	41	46	46	38	33	22	8	8	
	DATE OF OCCURRENCE	15+	18+	13	15+	24	06	03	24	24	27	28	08	DEC 08	
	AVERAGE DRY BULB	35.6	37.5	46.8	50.4	59.0	63.0	73.5	72.6	61.1	52.9	38.7	30.0	51.8	
	MEAN WET BULB	32.8	32.9	40.8	44.5	52.1	52.1	57.2		48.9	46.9	35.4	28.3		
	MEAN DEW POINT	29.3	26.9	32.9	37.5	46.3	42.1	42.8		35.7	41.2	31.3	25.6		
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	1	3	17	17	0	0	0	0	0	38
	MAXIMUM ≤ 32°	7	0	0	0	0	0	0	0	0	0	0	12	19	
	MINIMUM ≤ 32°	22	25	11	3	0	0	0	0	0	0	20	22	103	
MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	906	764	556	429	196	98	1	3	133	370	782	1077	5315	
	COOLING DEGREE DAYS	0	0	0	0	17	45	271	246	21	0	0	0	600	
RH	MEAN (PERCENT)	81	70	62	63	66	50	36	30	42	68	78	84	61	
	HOUR 04 LST	83	80	72	77	84	75	56	46	57	82	83	85	73	
	HOUR 10 LST	80	69	55	57	60	43	32	26	35	62	73	84	56	
	HOUR 16 LST	79	52	47	48	48	29	21	16	27	48	72	82	47	
	HOUR 22 LST	83	75	67	68	76	54	38	33	47	77	82	87	66	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	9	1	2	0	1	0	0	0	0	1	5	10	29	
	THUNDERSTORMS	0	0	0	1	1	0	0	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.)	28.47	28.49	28.38	28.37	28.32	28.29	28.36	28.36	28.40	28.41	28.53	28.49	28.41	
	MEAN SEA-LEVEL PRESS. (IN.)	30.09	30.12	29.98	29.96		29.85	29.91		29.98	30.00	30.15	30.13		
WINDS	RESULTANT SPEED (MPH)	1.8	1.5	4.3	2.6	2.8	4.6	3.7		2.5	1.6	3.4	1.0		
	RES. DIR. (TENS OF DEGS.)	25	17	23	27	26	24	29		24	20	22	20		
	MEAN SPEED (MPH)	6.5	6.8	9.6	8.4	7.6	9.5	8.7	8.7	8.0	6.6	7.2	5.3	7.7	
	PREVAIL. DIR. (TENS OF DEGS.)	30	15	14	26	26	26	28	28	14	15	25	16	26	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	36	36	43	37	31	33	33	30	39	29	36	31	43	
	DIR. (TENS OF DEGS.)	25	27	25	13	26	26	27	28	26	26	26	29	25	
	DATE OF OCCURRENCE	12	04	16	23	07+	11	22	21	09	19	29	28	MAR 16	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	47	43	51	43	38	39	40	36	46	32	45	37	51	
DIR. (TENS OF DEGS.)	24	27	24	13	26	20	27	25	26	28	24	28	24		
DATE OF OCCURRENCE	12	04	16	23	06	16+	22	21	09	28+	11	28	MAR 16		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.48	0.27	1.07	0.93	2.61	0.81	0.20	0.02	0.27	1.33	1.10	2.57	11.66	
	GREATEST 24-HOUR (IN.)	0.15	0.14	0.43	0.40	0.58	0.27	0.17	0.02	0.18	0.44	0.24	0.94	0.94	
	DATE OF OCCURRENCE	15-16	20	27	03-04	15-16	05	08-09	17	10	31	24-25+	29-30	DEC 29-30	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	12	4	11	10	17	8	3	1	4	11	13	15	109	
PRECIPITATION ≥ 0.10	2	1	2	3	6	2	1	0	1	4	5	7	34		
PRECIPITATION ≥ 1.00	0	0	0	0	0	0	0	0	0	0	0	0	0		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	2.7	1.2	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.6	5.7	
	GREATEST 24-HOUR (IN.)	1.3	1.2	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	1.3	
	DATE OF OCCURRENCE	15	20	29+								23+	18+	JAN 15	
	MAXIMUM SNOW DEPTH (IN.)	1	1	0	0	0	0	0	0	0	0	0	1	1	
	DATE OF OCCURRENCE	16+	21									20+		DEC 20+	
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0	1	1	0	0	0	0	0	0	0	0	0	0	2		

# NORMALS, MEANS, AND EXTREMES

## PENDLETON, OR (PDT)

LATITUDE: 45° 41' 54" N      LONGITUDE: 118° 50' 03" W      ELEVATION (FT): GRND: 1513      BARO: 1516      TIME ZONE: PACIFIC (UTC + 8)      WBAN: 24155

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	40.1	46.5	54.8	62.2	70.2	78.7	87.7	86.6	77.1	63.8	48.5	40.0	63.0
	MEAN DAILY MAXIMUM	58	39.6	46.3	53.9	61.6	70.1	78.6	88.0	86.1	77.0	63.6	48.8	41.0	62.9
	HIGHEST DAILY MAXIMUM	70	70	75	80	91	100	108	110	113	102	92	80	67	113
	YEAR OF OCCURRENCE		1995	1996	2004	1977	1986	1961	1939	1961	1955	1980	1999	1980	AUG 1961
	MEAN OF EXTREME MAXS.	58	58.7	62.1	68.5	77.7	87.9	94.9	101.6	99.8	92.3	80.0	66.0	59.5	79.1
	NORMAL DAILY MINIMUM	30	27.4	30.9	35.4	39.7	45.9	52.0	57.5	57.3	49.7	40.7	33.8	27.7	41.5
	MEAN DAILY MINIMUM	58	26.9	30.9	34.8	39.5	46.0	52.3	57.9	57.4	50.1	41.0	33.6	28.6	41.6
	LOWEST DAILY MINIMUM	70	-22	-18	1	18	25	35	42	40	30	11	-12	-19	-22
	YEAR OF OCCURRENCE		1957	1950	1993	1936	1954	1991	1971	1980	2000	1935	1985	1983	JAN 1957
	MEAN OF EXTREME MINS.	58	7.7	15.4	24.0	30.0	35.1	42.3	47.9	47.5	38.7	28.5	20.7	12.0	29.2
	NORMAL DRY BULB	30	33.8	38.7	45.1	51.0	58.1	65.4	72.6	72.0	63.4	52.3	41.2	33.9	52.3
	MEAN DRY BULB	58	33.1	38.6	44.3	50.5	58.0	65.5	72.9	71.6	63.6	52.4	41.3	34.7	52.2
	MEAN WET BULB	21	32.0	34.3	39.8	44.3	49.4	53.6	57.2	56.4	51.7	44.5	37.5	29.4	44.2
	MEAN DEW POINT	21	28.3	29.7	33.3	36.5	41.2	43.3	44.1	43.6	40.6	36.6	33.0	26.3	36.4
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	0.0	0.0	*	0.7	4.0	13.8	11.2	2.6	0.1	0.0	0.0	32.4	
MAXIMUM ≤ 32°	30	8.1	3.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	*	2.2	8.9	23.2	
MINIMUM ≤ 32°	30	20.2	15.2	9.1	2.9	0.2	0.0	0.0	0.0	0.1	3.4	11.6	21.1	83.8	
MINIMUM ≤ 0°	30	1.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.0	2.8	
H/C	NORMAL HEATING DEG. DAYS	30	971	747	623	433	247	83	14	15	115	400	711	962	5321
	NORMAL COOLING DEG. DAYS	30	0	0	0	2	23	86	243	224	63	3	0	0	644
RH	NORMAL (PERCENT)	30	78	73	66	59	55	48	39	39	48	59	75	80	60
	HOUR 04 LST	30	80	78	75	72	71	67	56	54	62	70	79	81	70
	HOUR 10 LST	30	78	71	61	53	49	42	34	36	43	54	73	78	56
	HOUR 16 LST	30	74	64	51	43	39	33	25	26	32	43	69	76	48
	HOUR 22 LST	30	80	76	71	65	60	53	41	40	52	64	78	80	63
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	68	7.5	4.8	1.9	0.3	0.2	0.1	0.0	0.0	0.2	1.0	6.0	8.5	30.5
	THUNDERSTORMS	68	0.0	0.0	0.2	0.9	1.8	2.0	2.0	2.1	1.2	0.3	0.1	0.0	10.6
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	1					6.4			3.2					
	MIDNIGHT-MIDNIGHT (OKTAS)	1									3.2				
	MEAN NO. DAYS WITH:														
CLEAR	1	1.0	3.0	4.0		5.0	7.0								
PARTLY CLOUDY	1		3.0	2.0		5.0	3.0								
CLOUDY	1	3.0	2.0	9.0		10.0	3.0								
PR	MEAN STATION PRESSURE (IN)	32	28.52	28.47	28.40	28.41	28.40	28.39	28.40	28.39	28.44	28.49	28.47	28.53	28.44
	MEAN SEA-LEVEL PRES. (IN)	21	30.13	30.11	30.02	30.00	29.96	29.95	29.96	29.95	29.98	30.05	30.09	30.17	30.03
WINDS	MEAN SPEED (MPH)	41	7.3	7.9	8.9	9.5	9.2	9.1	8.8	8.4	8.0	7.5	7.7	7.4	8.3
	PREVAIL. DIR (TENS OF DEGS)	27	16	14	26	26	26	26	26	27	14	14	15	16	26
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	10	53	52	55	48	43	41	49	43	45	45	44	54	55
	DIR. (TENS OF DEGS)		26	22	25	25	25	25	31	23	27	25	27	22	25
	YEAR OF OCCURRENCE		2004	2002	1997	1997	2002	1998	2002	1997	1999	2003	2003	1998	MAR 1997
MAXIMUM 5-SECOND:															
SPEED (MPH)	10	64	61	63	55	51	51	56	59	53	53	49	66	66	
DIR. (TENS OF DEGS)		25	23	25	21	24	25	31	23	27	27	28	22	22	
YEAR OF OCCURRENCE		2004	2002	1997	1998	1996	1998	2002	1997	1999	2004	2003	1998	DEC 1998	
PRECIPITATION	NORMAL (IN)	30	1.45	1.22	1.26	1.13	1.22	0.78	0.41	0.56	0.63	0.99	1.63	1.48	12.76
	MAXIMUM MONTHLY (IN)	70	3.92	3.03	2.82	2.78	3.18	2.70	1.45	2.58	2.34	2.79	3.76	4.68	4.68
	YEAR OF OCCURRENCE		1970	1940	1983	1978	1991	1947	1993	1977	1941	1947	1973	1973	DEC 1973
	MINIMUM MONTHLY (IN)	70	0.21	0.07	0.24	0.01	0.03	0.03	T	0.00	T	T	0.04	0.21	0.00
	YEAR OF OCCURRENCE		1949	1964	1941	1956	1964	2003	1967	1969	1993	1987	1939	1989	AUG 1969
	MAXIMUM IN 24 HOURS (IN)	70	1.29	1.41	1.33	1.24	1.52	1.49	1.19	2.19	1.23	1.88	1.35	1.25	2.19
	YEAR OF OCCURRENCE		1956	1994	1983	1990	1972	1947	1948	1993	1981	1982	1971	1978	AUG 1993
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	11.7	10.5	11.0	8.6	8.1	6.0	3.2	3.0	4.4	6.0	12.2	11.3	96.0	
PRECIPITATION ≥ 1.00	30	*	*	*	0.1	0.1	*	*	0.1	*	*	0.1	*	0.4	
SNOWFALL	NORMAL (IN)	30	4.9	3.5	1.0	0.1	0.*	0.0	0.0	0.0	0.3	2.2	5.2	17.2	
	MAXIMUM MONTHLY (IN)	68	41.6	16.8	4.9	2.2	T	T	T	0.0	0.0	3.2	14.9	26.6	41.6
	YEAR OF OCCURRENCE		1950	1994	1971	1975	1993	1994	1993			1973	1985	1983	JAN 1950
	MAXIMUM IN 24 HOURS (IN)	68	13.3	16.1	4.0	2.2	T	T	T	0.0	0.0	3.2	8.0	9.9	16.1
	YEAR OF OCCURRENCE		1950	1994	1970	1975	1993	1994	1993			1973	1977	1948	FEB 1994
	MAXIMUM SNOW DEPTH (IN)	56	16	12	6	0	0	0	0	0	0	2	8	11	16
	YEAR OF OCCURRENCE		1957	1994	1993							1971	1978	1985	JAN 1957
NORMAL NO. DAYS WITH:															
SNOWFALL ≥ 1.0	30	1.6	0.9	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.6	1.9	5.6	

PRECIPITATION (inches) 2005 PENDLETON, OR (PDT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1976	1.77	1.00	1.65	1.09	0.92	0.33	0.16	1.77	0.18	0.54	0.19	0.44	10.04
1977	0.48	0.64	1.51	0.18	1.87	0.37	0.06	2.58	1.17	0.51	2.00	2.42	13.79
1978	2.82	1.60	1.03	2.78	0.63	0.76	0.77	2.21	0.92	T	2.37	1.86	17.75
1979	1.43	1.72	1.18	1.17	0.39	0.21	0.09	1.40	0.30	1.68	1.83	0.62	12.02
1980	2.48	1.39	1.60	0.59	2.14	1.12	0.77	0.03	0.59	1.22	0.84	1.20	13.97
1981	0.89	1.35	1.43	1.20	1.59	1.53	0.94	0.03	1.31	0.86	1.91	2.31	15.35
1982	1.54	0.77	1.22	0.84	0.31	0.63	0.51	0.24	1.47	2.67	0.34	2.20	12.74
1983	0.86	1.57	2.82	0.70	0.73	1.44	0.52	0.56	0.46	0.84	1.67	3.42	15.59
1984	0.53	1.74	1.83	1.70	1.02	1.13	0.06	0.44	0.39	1.02	2.14	0.92	12.92
1985	0.44	1.33	1.13	0.37	0.44	0.69	0.34	0.26	2.10	0.89	2.11	1.27	11.37
1986	1.66	2.58	1.13	0.43	1.18	0.03	0.48	0.02	1.28	0.80	2.12	0.82	12.53
1987	1.48	0.64	1.39	0.47	0.85	0.38	0.34	0.05	0.03	T	0.76	1.23	7.62
1988	1.86	0.12	0.95	2.47	1.56	0.31	0.01	T	0.31	0.10	2.16	0.37	10.22
1989	1.86	1.36	1.72	1.57	1.47	0.57	0.09	1.25	0.12	0.84	1.27	0.21	12.33
1990	0.77	0.28	1.14	1.54	1.83	0.58	0.18	0.62	T	0.78	0.87	0.84	9.43
1991	0.98	0.57	1.00	0.71	3.18	2.14	0.24	0.42	T	0.92	2.68	0.67	13.51
1992	0.41	1.04	0.26	1.21	0.07	0.94	0.70	0.43	0.42	1.32	1.15	0.73	8.68
1993	1.79	0.80	1.49	1.85	1.51	0.71	1.45	2.19	T	0.22	0.93	0.92	13.86
1994	1.57	1.71	0.56	0.45	2.55	0.77	0.38	T	0.36	1.28	1.98	0.85	12.46
1995	2.53	1.07	1.93	2.28	0.97	2.30	0.24	0.29	0.55	1.21	2.18	1.73	17.28
1996	1.88	1.80	1.00	1.08	2.00	0.47	0.06	0.05	0.61	1.22	1.96	2.32	14.45
1997	1.84	0.39	1.16	1.56	0.33	0.76	0.66	0.07	0.77	1.43	1.64	1.05	11.66
1998	2.61	1.19	1.01	1.28	1.53	0.76	0.68	T	1.11	0.60	2.31	1.37	14.45
1999	0.81	1.22	0.74	0.50	1.27	0.51	T	0.54	0.01	1.51	1.23	1.01	9.35
2000	1.99	2.98	2.42	0.69	1.60	0.72	0.07	T	2.01	2.06	1.22	0.57	16.33
2001	0.95	0.62	1.31	1.89	0.45	1.12	0.52	0.08	0.09	1.54	1.15	0.70	10.42
2002	0.58	0.76	0.81	1.48	1.10	1.30	0.02	0.03	0.20	0.73	0.55	2.23	9.79
2003	2.92	1.07	1.51	1.62	0.78	T	0.01	0.09	0.63	0.41	1.00	2.72	12.76
2004	2.32	1.76	0.72	1.29	1.81	1.47	0.48	0.97	0.45	0.78	0.88	0.65	13.58
2005	0.48	0.27	1.07	0.93	2.61	0.81	0.20	0.02	0.27	1.33	1.10	2.57	11.66
POR= 106 YRS	1.59	1.32	1.25	1.11	1.18	0.98	0.32	0.41	0.63	1.05	1.51	1.54	12.89

WBAN : 24155

AVERAGE TEMPERATURE (°F) 2005 PENDLETON, OR (PDT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1976	39.2	37.9	42.8	50.2	58.8	63.7	73.4	67.7	67.3	53.1	42.7	35.9	52.7
1977	26.3	41.5	44.2	55.3	55.1	69.1	70.3	74.9	58.5	50.0	38.3	34.8	51.5
1978	32.2	39.3	45.7	48.0	54.4	66.3	72.2	69.4	60.5	51.7	33.5	29.5	50.2
1979	15.3	37.7	46.0	50.4	59.5	66.6	72.8	70.6	65.5	54.3	34.7	38.2	51.0
1980	25.6	36.1	41.3	51.9	56.4	60.4	72.1	66.9	63.3	51.3	42.0	39.2	50.5
1981	36.2	38.9	45.7	50.4	56.0	61.6	69.2	74.3	63.8	50.6	44.2	37.2	52.3
1982	35.0	38.1	43.5	47.6	56.8	67.6	71.1	71.5	60.7	50.7	37.3	35.7	51.3
1983	40.8	43.8	47.8	49.0	58.9	62.7	68.4	72.7	58.9	52.5	45.9	23.2	52.1
1984	34.6	39.7	46.8	48.2	54.7	62.1	72.9	72.2	60.4	49.1	41.8	30.4	51.1
1985	26.3	33.5	43.2	53.1	58.5	65.6	77.4	68.1	57.0	50.3	26.5	19.5	48.3
1986	35.9	39.0	48.8	50.0	58.6	70.0	67.6	75.8	58.9	54.0	42.2	31.5	52.7
1987	30.4	39.1	46.4	53.9	59.7	67.2	68.9	70.6	66.2	54.1	42.6	32.7	52.7
1988	32.4	41.1	44.1	51.9	56.8	63.9	72.0	70.0	63.4	58.4	44.3	33.9	52.7
1989	38.3	25.1	42.5	52.9	55.9	65.9	70.3	68.8	63.6	51.8	44.6	33.2	51.1
1990	39.6	37.9	45.7	54.8	56.4	64.7	75.2	72.2	68.2	51.3	45.4	25.8	53.1
1991	31.2	44.7	42.6	49.6	53.9	59.6	71.5	73.3	64.9	51.6	41.2	36.9	51.8
1992	38.7	42.4	47.7	52.8	62.4	70.4	71.9	72.6	61.9	54.2	39.8	32.0	53.9
1993	25.1	28.2	41.9	50.3	61.8	62.9	65.4	68.0	64.3	54.6	34.6	35.6	49.4
1994	41.0	34.9	46.7	54.4	60.1	64.4	75.3	71.7	67.2	51.6	40.4	35.3	53.6
1995	34.9	41.7	45.3	49.0	57.7	62.1	72.0	67.4	66.0	50.2	46.1	34.5	52.2
1996	34.4	35.7	43.3	52.0	54.5	64.0	74.7	72.1	61.0	51.1	40.3	35.4	51.5
1997	32.6	38.6	45.4	48.6	59.8	63.1	70.4	73.1	64.9	51.4	42.7	34.9	52.1
1998	37.9	42.9	45.9	50.3	56.2	65.4	77.4	74.6	67.8	50.9	45.5	36.2	54.3
1999	41.0	42.3	43.4	47.3	54.1	63.7	70.0	72.5	62.5	50.8	46.0	38.1	52.6
2000	35.5	39.2	44.1	54.0	58.3	65.9	71.6	70.7	61.6	49.7	35.1	31.1	51.4
2001	32.7	35.5	44.4	47.3	58.7	62.1	70.5	73.2	66.2	51.2	42.2	36.6	51.7
2002	37.0	38.8	41.0	49.9	56.3	66.9	75.1	70.2	63.5	48.6	41.0	39.4	52.3
2003	40.6	38.7	48.6	49.9	57.3	67.7	76.2	73.0	65.8	55.6	38.8	35.4	54.0
2004	28.5	39.6	49.2	52.5	58.6	67.0	75.6	74.4	62.5	55.4	42.8	39.5	53.8
2005	35.6	37.5	46.8	50.4	59.0	63.0	73.5	72.6	61.1	52.9	38.7	30.0	51.8
POR= 100 YRS	32.9	38.0	44.9	51.3	58.4	65.5	73.1	71.4	63.2	52.5	41.4	35.1	52.3

HEATING DEGREE DAYS (base 65°F) 2005 PENDLETON, OR (PDT)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1976-77	4	42	31	363	660	896	1192	653	639	299	301	26	5106
1977-78	20	35	200	461	792	927	1011	714	593	504	322	46	5625
1978-79	7	41	146	403	936	1094	1533	757	582	432	184	62	6177
1979-80	12	0	43	326	902	823	1210	829	728	388	267	141	5669
1980-81	4	33	88	438	681	794	886	724	593	435	275	126	5077
1981-82	20	1	128	440	617	855	919	747	662	515	256	72	5232
1982-83	22	7	171	435	825	901	741	588	528	470	242	95	5025
1983-84	42	1	180	381	569	1292	935	729	558	496	316	134	5633
1984-85	4	0	182	490	692	1065	1196	876	665	351	224	65	5810
1985-86	4	22	242	452	1149	1402	898	722	497	446	277	25	6136
1986-87	33	0	213	335	675	1031	1065	717	571	332	201	71	5244
1987-88	25	12	65	334	668	995	1004	689	637	387	264	126	5206
1988-89	22	4	120	208	616	957	821	1113	691	354	279	42	5227
1989-90	11	17	76	403	607	978	781	752	591	299	262	89	4866
1990-91	9	13	11	419	583	1211	1039	564	689	454	338	162	5492
1991-92	4	2	52	418	707	865	810	649	527	362	127	36	4559
1992-93	11	28	129	333	752	1015	1231	1025	709	432	153	98	5916
1993-94	27	35	114	318	908	903	736	838	559	321	174	83	5016
1994-95	15	0	30	406	731	915	928	644	602	473	237	126	5107
1995-96	1	26	51	452	560	941	938	840	664	387	321	64	5245
1996-97	8	4	153	423	733	909	998	733	599	488	185	84	5317
1997-98	13	0	73	415	662	927	832	611	585	442	273	37	4870
1998-99	0	3	56	429	578	887	738	628	662	522	336	108	4947
1999-00	17	20	117	433	565	830	905	740	640	324	219	57	4867
2000-01	7	12	137	468	892	1046	995	819	631	523	238	121	5889
2001-02	14	5	48	419	676	874	863	727	738	445	270	66	5145
2002-03	6	10	110	501	714	788	748	729	499	444	259	32	4840
2003-04	1	0	74	300	779	913	1125	729	483	368	195	69	5036
2004-05	0	3	87	293	656	785	906	764	556	429	196	98	4773
2005-	1	3	133	370	782	1077							

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COOLING DEGREE DAYS (base 65°F) 2005 PENDLETON, OR (PDT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1976	0	0	0	0	20	53	270	129	103	3	0	0	578
1977	0	0	0	16	3	152	190	348	16	0	0	0	725
1978	0	0	0	0	1	93	236	182	16	0	0	0	528
1979	0	0	0	0	21	114	261	186	65	3	0	0	650
1980	0	0	0	2	5	13	232	101	44	20	0	0	417
1981	0	0	0	4	2	28	155	297	101	0	0	0	587
1982	0	0	0	0	7	158	219	215	47	0	0	0	646
1983	0	0	0	0	60	32	155	246	6	0	0	0	499
1984	0	0	0	0	7	55	256	231	51	3	0	0	603
1985	0	0	0	0	28	91	394	127	7	0	0	0	647
1986	0	0	0	2	88	184	121	341	35	1	0	0	772
1987	0	0	0	8	41	145	152	194	108	4	0	0	652
1988	0	0	0	0	16	98	246	164	78	9	0	0	611
1989	0	0	0	0	5	76	182	143	41	0	0	0	447
1990	0	0	0	0	4	92	330	245	114	3	0	0	788
1991	0	0	0	0	0	8	214	267	56	9	0	0	554
1992	0	0	0	1	52	204	229	275	45	4	0	0	810
1993	0	0	0	0	59	42	47	136	99	4	0	0	387
1994	0	0	0	8	29	72	341	214	103	0	0	0	767
1995	0	0	0	0	17	44	230	108	89	0	0	0	488
1996	0	0	0	0	0	42	312	230	39	0	0	0	623
1997	0	0	0	0	31	34	191	258	79	5	0	0	598
1998	0	0	0	6	5	56	390	309	144	0	0	0	910
1999	0	0	0	0	7	78	180	260	50	0	5	0	580
2000	0	0	0	0	17	89	215	196	40	0	0	0	557
2001	0	0	0	0	48	43	193	265	93	0	0	0	642
2002	0	0	0	0	9	129	323	178	70	0	0	0	709
2003	0	0	0	0	27	118	355	255	105	17	0	0	877
2004	0	0	0	0	4	135	337	300	19	4	0	0	799
2005	0	0	0	0	17	45	271	246	21	0	0	0	600

SNOWFALL (inches) 2005 PENDLETON, OR (PDT)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1976-77	0.0	0.0	0.0	0.0	0.0	1.0	3.1	0.5	0.4	0.0	0.0	0.0	5.0
1977-78	0.0	0.0	0.0	0.0	8.5	11.5	6.1	T	3.9	0.0	T	0.0	30.0
1978-79	0.0	0.0	0.0	0.0	9.0	7.4	14.7	2.2	T	0.0	0.0	0.0	33.3
1979-80	0.0	0.0	0.0	0.0	4.3	T	16.6	0.9	3.9	0.0	0.0	0.0	25.7
1980-81	0.0	0.0	0.0	0.0	2.0	2.7	3.6	1.2	0.0	0.0	0.0	0.0	9.5
1981-82	0.0	0.0	0.0	0.0	0.6	5.1	5.7	1.5	1.9	T	0.0	0.0	14.8
1982-83	0.0	0.0	0.0	0.0	T	1.6	0.2	0.9	0.0	0.0	0.0	0.0	2.7
1983-84	0.0	0.0	0.0	0.0	T	26.6	1.0	1.2	T	T	0.0	0.0	28.8
1984-85	0.0	0.0	0.0	0.0	T	6.2	0.8	12.7	0.6	T	0.0	0.0	20.3
1985-86	0.0	0.0	0.0	0.0	14.9	9.1	T	7.6	0.0	0.0	T	0.0	31.6
1986-87	0.0	0.0	0.0	0.0	1.2	6.8	5.8	0.0	T	0.0	0.0	0.0	13.8
1987-88	0.0	0.0	0.0	0.0	0.3	2.3	10.6	0.0	1.5	0.0	0.0	0.0	14.7
1988-89	0.0	0.0	0.0	0.0	T	T	4.3	4.9	4.0	0.0	T	0.0	13.2
1989-90	0.0	0.0	0.0	0.0	0.0	1.0	T	2.0	1.3	0.0	0.0	0.0	4.3
1990-91	0.0	0.0	0.0	0.0	T	6.4	1.6	0.0	0.6	T	0.0	0.0	8.6
1991-92	0.0	0.0	0.0	2.3	1.0	T	0.8	T	0.0	0.0	0.0	0.0	4.1
1992-93	0.0	0.0	0.0	0.0	0.2	7.6	25.1	14.8	1.8	T	T	0.0	49.5
1993-94	T	0.0	0.0	0.0	0.7	0.4	T	16.8	0.2	0.0	0.0	T	18.1
1994-95	0.0	0.0	0.0	0.0	0.6	3.8	2.0	7.2	T	0.0	0.0	0.0	13.6
1995-96	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1996-97						10.1	3.2			T			
1997-98						4.2		0.0					
1998-99			0.0	0.0		0.8	0.0	2.4	T	T	T	0.0	
1999-00	0.0	0.0	0.0	0.0	0.0	0.5	5.7	4.5	1.0	0.0	T	0.0	11.7
2000-01	0.0	0.0	0.0	0.0	0.7	2.5	3.1	0.5	T	T	T	T	6.8
2001-02	0.0	0.0	0.0	0.0	T	3.0	1.5	T	0.3	0.0	0.0	T	4.8
2002-03	T	0.0	0.0	T	0.0	2.1	0.3	T	T	T	0.0	0.0	2.4
2003-04	0.0	0.0	0.0	T	0.1	13.9	10.0	2.2	T	0.0	T	0.0	26.2
2004-05	0.0	0.0	0.0	0.0	0.4	0.8	2.7	1.2	T	0.0	0.0	0.0	5.1
2005-	0.0	0.0	0.0	0.0	0.2	1.6							
POR= 67 YRS	T	0.0	0.0	0.1	1.7	4.0	6.5	3.4	0.9	0.1	T	T	16.7

WBAN : 24155

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>
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## 2005 PENDLETON, OREGON (PDT)

Pendleton is located in the southeastern part of the Columbia Basin, that low country of northern Oregon and central and eastern Washington which is almost entirely surrounded by mountains. This Basin is bounded on the south by the high country of central Oregon, on the north by the mountains of western Canada, on the west by the Cascade Range and on the east by the Blue Mountains and the north Idaho plateau. The gorge in the Cascades through which the Columbia River reaches the Pacific is the most important break in the barriers surrounding this basin. These physical features have important influences on the general climate of Pendleton and the surrounding territory.

The Weather Service Office at Pendleton Airport is located in rolling country which slopes generally upward toward the Blue Mountains about 15 miles to the east and southeast. The Columbia River approaches the area from the northwest to its junction with the Walla Walla River at an elevation of 351 feet and some 25 miles north of Pendleton, then turns southwestward to be joined a few miles below by the Umatilla River. Both the Walla Walla and Umatilla Rivers have their sources in the Blue Mountains and flow westward to the Columbia. The observation station is at an elevation of nearly 1,500 feet, about 3 miles northwest of downtown Pendleton. The city of Pendleton lies in the shallow east-west valley of the Umatilla River, approximately 400 feet lower than the airport.

Precipitation in the Pendleton area is definitely seasonal in occurrence with an average of only 10 percent of the annual total occurring in the three-month period, July-September. Most precipitation reaching this area accompanies cyclonic storms moving in from the Pacific Ocean. These storms reach their greatest intensity and frequency from October through April. The Cascade Range west of the Columbia Basin reduces the amount of precipitation received from the Pacific cyclonic storms. This influence is felt, particularly, in the desert area of the central part of the Basin. A gradual rise in elevation from the Columbia River to the foothills of the Blue Mountains again results in increased precipitation. This increase supplies sufficient moisture for productive wheat, pea, and stock raising activity in the area surrounding Pendleton.

The lighter summertime precipitation usually accompanies thunderstorms which often move into the area from the south or southwest. On occasion, these storms are quite intense, causing flash flooding with resultant heavy property damage and even loss of life.

Seasonal temperature extremes are usually quite moderate for the latitude. The last occurrence in spring of temperatures as low as 32 degrees is mid-April, and the average last occurrence in the fall of 32 degrees is late October. At the city station, where cool air settles in the valley on still nights, temperatures of 32 degrees have been recorded later in the spring and earlier in the fall. Under usual atmospheric conditions, air from the Pacific, with moderate temperature characteristics, moves across the Cascades or through the Columbia Gorge resulting in mild temperatures in the Pendleton area. When this flow of air from the west is impeded by slow-moving high pressure systems over the interior of the continent, temperature conditions sometimes become rather severe, hot in summer and cold in winter. During the summer or early fall, if a stagnant high predominates to the north or east of Pendleton, the hot, dry conditions may prove detrimental to crops during late May and June, and cause fire danger in the forest and grassland areas during late summer and early fall. During winter, coldest temperatures occur when air from a cold high pressure system in central Canada moves southwestward across the Rockies and flows down into the Columbia Basin. Under this condition the heavy cold air sometimes remains at low levels in the Basin for several days while warmer air from the Pacific flows above it, causing comparatively mild temperatures at higher elevations. Extreme winter temperatures are not particularly common in the Pendleton area. Below zero readings are recorded in approximately 60 percent of winters. Maximum temperatures usually reach 100 degrees or slightly higher on a few days during the summer.

# STATION LOCATION

PENDLETON, OREGON

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE										AUTOMATIC OBSERVING EQUIPMENT *	REMARKS
						GROUND											
						SEA LEVEL	WIND INSTRUMENT	EXTREME THERMOMETER	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET	WINDHANG	8 INCH RAIN GAGE	HYGRO THERMOMETER			
*NOTE: <u>AIRPORT</u>																	
Old Municipal Airport 3.8 miles east of Post Office	1/01/28	2/02/34		45°40'	118°43'	1200	58				5						SAWRS 1/01/28-3/31/28, then Class A until closed.
Municipal Airport Pendleton Field UAL Building, 2.3 miles NW of Post Office	6/02/34	4/02/35	5 mi. WNW	45°41'	118°51'	1492	53				16						Airway on-call reports by United Airlines employees.
Municipal Airport Bureau of Air Commerce Building	4/02/35	2/10/43	50 yds. SE	45°41'	118°51'	1489	35	7	7			3	3				
Municipal Airport Building T-107	2/10/43	5/17/54	1/4 mi. WSW	45°41'	118°51'	1489	37	6	5			4	3				
Municipal Airport Air Terminal Building	5/18/54	10/1/60	850 ft. ENE	45°41'	118°51'	1492	53	6				4	3	*			Wind system at 20 feet in field location, 4/9/58 to 2/3/59. * - Telepsychrometer (6') 5/18/54-10/1/60.
Municipal Airport Pendleton Field Air Terminal Building	10/1/60	06/1/95	NoChange	45°41'	118°51'	1482	20	6	6	NA	NA	4	3	6 a	NA bM		Hygrothermometer 1300 feet north of thermometer site. Wind system moved to field location, 1100 feet north on 9/21/60. a. Hygrothermometer decommissioned 6/1/80. b. AMOS commissioned 6/1/80. RAMOS commissioned 2/83.
Municipal Airport	06/01/95	Present	NA	45°42'	118°50'	c1513									S		ASOS Commissioned 06/01/95 c. Ground elevation.

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