

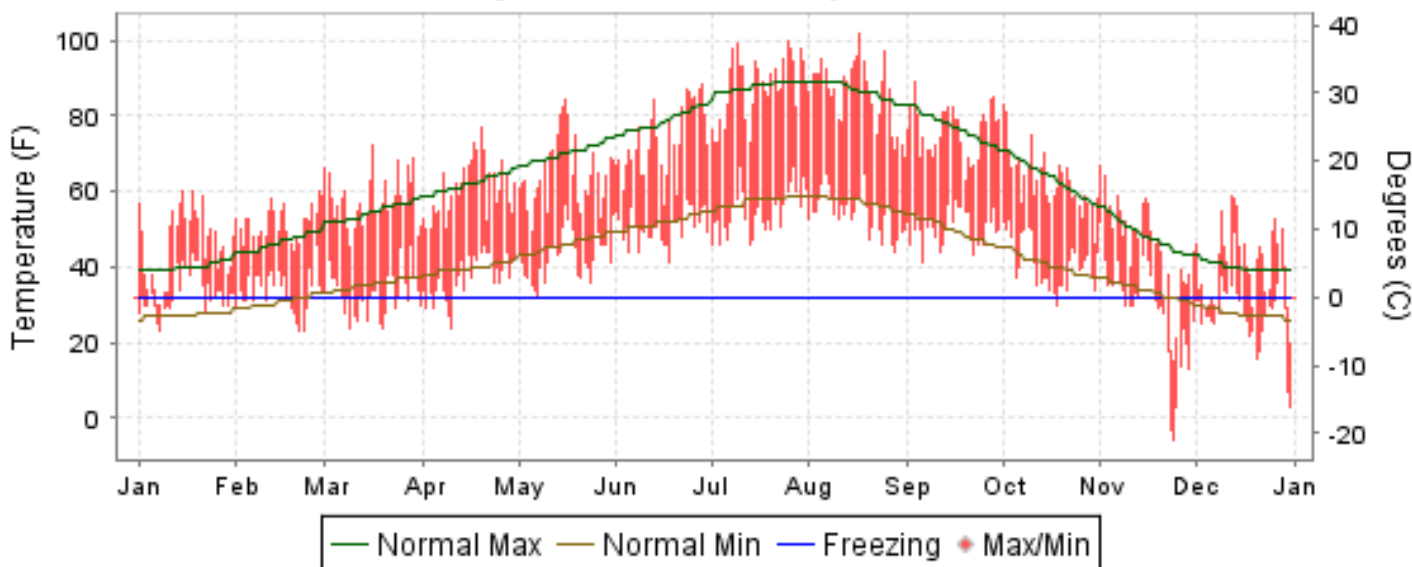


# 2010 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

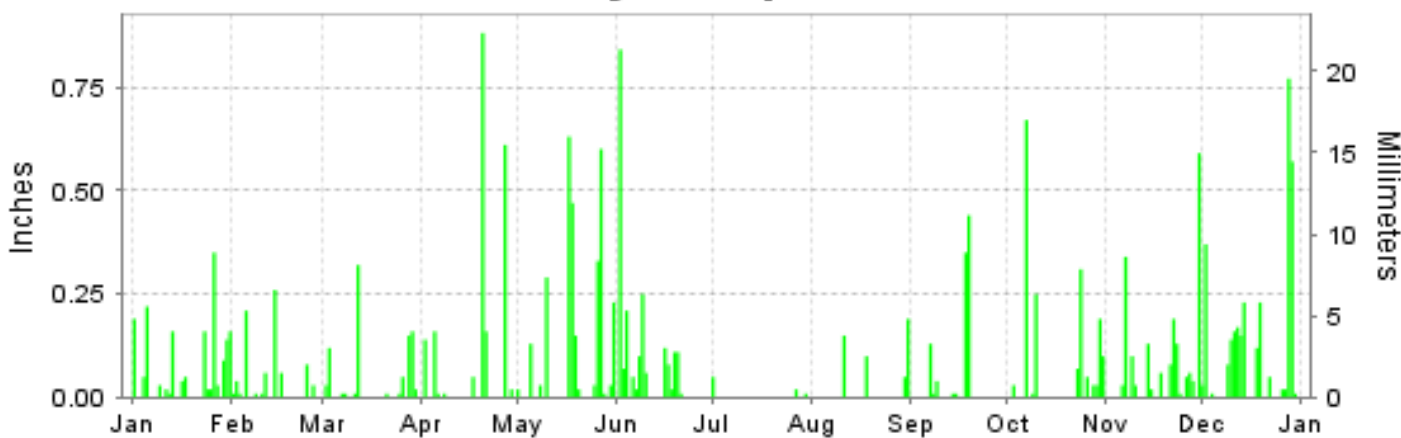
ISSN 0198-4179

## PENDLETON, OREGON (KPDT)

### Daily Max/Min Temperature



### Daily Precipitation



### Daily Station Pressure



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NATIONAL  
CLIMATIC DATA CENTER  
ASHEVILLE, NORTH CAROLINA

*Thomas R. Karl*  
DIRECTOR  
NATIONAL CLIMATIC DATA CENTER

# METEOROLOGICAL DATA FOR 2010

## PENDLETON (KPDT)

LATITUDE: 45° 41'N      LONGITUDE: -118° 50'W      ELEVATION (FT): GRND: 1481    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	46.0	51.4	57.8	60.9	65.0	73.5	87.8	86.0	76.0	63.1	45.5	41.1	62.8	
	HIGHEST DAILY MAXIMUM	60	60	72	77	84	88	100	102	89	83	67	59	102	
	DATE OF OCCURRENCE	18+	27	16	19	16	28	25	17	03	01	01	12	AUG 17	
	MEAN DAILY MINIMUM	33.2	33.5	32.8	37.3	42.8	50.7	55.0	54.4	50.5	41.2	28.8	27.8	40.7	
	LOWEST DAILY MINIMUM	23	23	24	24	32	41	46	44	41	30	-6	3	-6	
	DATE OF OCCURRENCE	08	22+	19+	10	07	18	13+	28	06	18	24	31	NOV 24	
	AVERAGE DRY BULB	39.6	42.5	45.3	49.1	53.9	62.1	71.4	70.2	63.3	52.2	37.2	34.5	51.8	
	MEAN WET BULB	36.3	38.2	38.8	42.0	46.1	53.1	55.9	54.8	53.6	45.9	35.0	31.9	44.3	
	MEAN DEW POINT	32.5	33.9	30.7	33.5	38.4	45.3	41.9	41.0	45.7	39.8	31.5	28.5	36.9	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	0	0	0	15	12	0	0	0	0	27
MAXIMUM <= 32°	2	0	0	0	0	0	0	0	0	0	4	7	13		
MINIMUM <= 32°	16	12	17	5	1	0	0	0	0	1	17	23	92		
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	2	0	2		
H/C	HEATING DEGREE DAYS	780	625	602	468	347	121	16	25	77	395	828	940	5224	
	COOLING DEGREE DAYS	0	0	0	0	10	43	220	196	31	4	0	0	504	
RH	MEAN (PERCENT)	80	76	61	57	61	58	37	38	58	67	80	81	63	
	HOUR 04 LST	82	85	74	73	78	77	60	59	77	78	85	84	76	
	HOUR 10 LST	78	69	47	46	52	48	27	30	47	57	75	75	54	
	HOUR 16 LST	79	68	50	42	44	41	21	23	40	59	78	79	52	
	HOUR 22 LST	82	82	70	66	69	68	46	44	67	73	84	83	70	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	12	9	1	0	0	1	0	0	2	1	7	13	46	
	THUNDERSTORMS	0	0	0	1	1	1	1	2	1	0	0	0	7	
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.)	28.32	28.37	28.39	28.28	28.35	28.38	28.34	28.30	28.35	28.43	28.44	28.33	28.36	
	MEAN SEA-LEVEL PRESS. (IN.)	29.94	29.98	30.00	29.87	29.94	29.96	29.90	29.86	29.93	30.03	30.06	29.94	29.95	
WINDS	RESULTANT SPEED (MPH)	1.1	1.1	2.9	6.8	6.2	4.8	3.9	3.8	2.7	2.3	2.8	1.9	3.0	
	RES. DIR. (TENS OF DEGS.)	15	14	23	25	26	26	27	27	25	21	24	23	25	
	MEAN SPEED (MPH)	6.4	5.6	8.1	11.8	10.0	8.5	8.7	8.4	7.5	7.0	7.6	6.8	8.0	
	PREVAIL.DIR.(TENS OF DEGS.)	17	15	26	26	26	26	27	26	15	14	16	31	26	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	44	26	44	47	53	33	38	39	36	43	53	43	53	
	DIR. (TENS OF DEGS.)	29	12	22	26	27	28	27	28	26	28	27	28	27	
	DATE OF OCCURRENCE	01	26	29	08	03	18	12	26	04	24	16	14	NOV 16	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	60	33	52	55	61	40	52	46	44	56	67	52	67	
DIR. (TENS OF DEGS.)	29	13	22	26	26	28	31	27	27	32	27	29	27		
DATE OF OCCURRENCE	01	26	29	08	03	18	18	26	04	24	16	14	NOV 16		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	1.74	0.78	0.90	2.04	2.97	2.05	0.08	0.49	0.99	1.74	1.86	3.13	18.77	
	GREATEST 24-HOUR (IN.)	0.38	0.26	0.32	1.04	1.10	0.84	0.05	0.19	0.48	0.67	0.59	1.32	1.32	
	DATE OF OCCURRENCE	26-27	14	12	20-21	17-18	02	01	31	18-19	07	30	28-29	DEC 28-29	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	17	11	12	9	14	14	3	4	7	11	15	17	134	
PRECIPITATION 0.10	7	2	4	5	8	7	0	3	3	5	6	10	60		
PRECIPITATION 1.00	0	0	0	0	0	0	0	0	0	0	0	0	0		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	0.0	0.0	T	T	T	0.0	0.0	0.0	0.0	0.0	8.6	9.8	18.4	
	GREATEST 24-HOUR (IN.)	0.0	0.0	T	T	T	0.0	0.0	0.0	0.0	0.0	4.5	4.0	4.5	
	DATE OF OCCURRENCE			30+	02	05						23	29	NOV 23	
	MAXIMUM SNOW DEPTH (IN.)	0	0	0	0	0	0	0	0	0	0	3	3	3	
	DATE OF OCCURRENCE											25+	31+	DEC 31+	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	0	0	0	0	0	0	0	0	0	0	3	4	7		

# NORMALS, MEANS, AND EXTREMES PENDLETON (KPDT)

LATITUDE:  
45° 41'N

LONGITUDE:  
-118° 50'W

ELEVATION (FT):  
GRND: 1481 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	83	39.5	45.2	54.6	61.8	70.8	78.0	88.5	86.5	76.8	63.9	48.5	41.3	63.0	
	HIGHEST DAILY MAXIMUM	75	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	1980	AUG 1961
	MEAN OF EXTREME MAXS.	83	58.6	62.0	68.4	77.7	88.2	94.9	101.7	100.1	92.2	79.9	66.1	59.4	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	83	26.3	29.6	34.9	39.1	45.9	51.7	57.7	56.6	49.3	40.7	32.9	28.7	41.1	
	LOWEST DAILY MINIMUM	75	-22	-18	1	18	25	35	42	40	30	11	-12	-19	-22	
	YEAR OF OCCURRENCE		1957	1950	1993	1936	1954	1991	2008	1980	2000	1935	1985	1983	JAN 1957	
	MEAN OF EXTREME MINS.	83	7.9	15.5	24.0	29.6	34.8	42.2	47.7	47.3	38.6	28.0	20.2	11.7	29.0	
	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	83	32.9	37.4	44.8	50.5	58.4	64.8	73.1	71.6	63.0	52.3	40.7	35.0	52.0	
	MEAN WET BULB	27	31.4	33.6	38.3	42.3	47.6	51.8	54.5	53.9	49.5	43.1	36.5	30.2	42.7	
	MEAN DEW POINT	27	29.3	30.6	34.2	37.6	42.6	45.3	46.5	45.7	42.5	37.9	33.7	28.0	37.8	
	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	
	HOURLY 04 LST	30	80	78	75	72	71	67	56	54	62	70	79	81	70	
	HOURLY 10 LST	30	78	71	61	53	49	43	34	36	43	54	73	78	56	
	HOURLY 16 LST	30	74	64	51	43	39	33	25	26	32	43	69	77	48	
	HOURLY 22 LST	30	80	77	71	65	60	53	41	41	52	64	78	81	64	
S	PERCENT POSSIBLE SUNSHINE															
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	47	7.8	5.1	1.6	0.4	0.1	0.1	0.0	0.0	0.3	0.8	6.0	8.3	30.5	
	THUNDERSTORMS	63	0.0	0.0	0.2	0.9	1.5	1.8	1.8	1.9	0.9	0.2	0.1	0.0	9.3	
CLOUDNESS	MEAN: SUNRISE-SUNSET (OKTAS)															
	MIDNIGHT-MIDNIGHT (OKTAS)															
	MEAN NO. DAYS WITH: CLEAR	1	1.0	3.0	4.0		5.0	7.0								
	PARTLY CLOUDY			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)	27	28.51	28.47	28.42	28.40	28.38	28.38	28.38	28.38	28.41	28.46	28.47	28.51	28.43	
	MEAN SEA-LEVEL PRES. (IN)	27	30.13	30.08	30.02	29.99	29.96	29.94	29.94	29.93	29.98	30.05	30.09	30.14	30.02	
WINDS	MEAN SPEED (MPH)	27	6.9	7.0	8.3	8.9	8.8	8.6	8.4	8.1	7.7	7.3	7.4	6.8	7.9	
	PREVAIL.DIR(TENS OF DEGS)	32	17	15	26	27	27	27	27	27	15	15	16	17	27	
	MAXIMUM 2-MINUTE: SPEED (MPH)	15	53	52	55	48	53	47	49	43	45	45	53	54	55	
	DIR. (TENS OF DEGS)		26	22	25	25	27	17	31	23	27	25	27	22	25	
	YEAR OF OCCURRENCE		2004	2002	1997	1997	2010	2008	2002	1997	1999	2003	2010	1998	MAR 1997	
	MAXIMUM 3-SECOND SPEED (MPH)	15	64	61	63	55	61	62	56	59	53	56	67	66	67	
	DIR. (TENS OF DEGS)		25	23	25	26	26	17	31	23	27	32	27	22	27	
YEAR OF OCCURRENCE		2004	2002	1997	2010	2010	2008	2002	1997	1999	2010	2010	1998	NOV 2010		
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)	75	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)	75	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	2009	1969	1993	1987	1939	1989	AUG 1969	
	MAXIMUM IN 24 HOURS (IN)	75	4.97	1.41	1.33	1.24	1.52	1.49	1.19	2.19	1.23	1.88	1.35	1.32	4.97	
	YEAR OF OCCURRENCE		2009	1994	1983	1990	1972	1947	1948	1993	1981	1982	1971	2010	JAN 2009	
	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	0.0	0.3	2.2	5.2	17.2	
	MAXIMUM MONTHLY (IN)	73	41.6	16.8	4.9	2.2	T	T	T	0.0	0.0	3.2	14.9	32.5	41.6	
	YEAR OF OCCURRENCE		1950	1994	1971	1975	2010	1994	2009			1973	1985	2008	JAN 1950	
	MAXIMUM IN 24 HOURS (IN)	73	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	2010	1994	1993			1973	1977	1948	FEB 1994	
	MAXIMUM SNOW DEPTH (IN)	61	16	12	6	0	0	0	0	0	0	2	8	15	16	
	YEAR OF OCCURRENCE		1957	1994	1993							1971	1978	2008	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) 2010 PENDLETON (KPDT)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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	.06	.05	.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	1.45	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
2006	2.18	0.37	1.87	1.57	1.17	1.96	0.07	0.02	0.37	0.50	2.06	1.67	13.81
2007	0.45	1.63	1.21	0.87	0.64	0.88	0.21	0.44	0.60	0.96	2.05	1.56	11.50
2008	1.82	0.44	1.12	0.23	1.61	1.37	T	0.76	0.13	0.32	1.39	2.58	11.77
2009	1.39	0.99	2.62	0.97	1.16	1.05	T	1.04	0.04	1.50	0.91	1.52	13.19
2010	1.74	0.78	0.90	2.04	2.97	2.05	0.08	0.49	0.99	1.74	1.86	3.13	18.77
POR= 83 YRS	1.51	1.12	1.20	1.08	1.16	0.95	0.30	0.41	0.58	1.05	1.46	1.56	12.38

WBAN : 24155

**AVERAGE TEMPERATURE (°F) 2010 PENDLETON (KPDT)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
2006	42.2	36.0	43.9	50.5	59.0	65.5	75.5	71.0	63.9	50.1	42.4	32.9	52.7
2007	30.7	38.4	46.4	49.4	58.2	64.8	75.9	69.4	61.0	49.6	39.6	35.6	51.6
2008	31.5	40.8	41.7	46.2	59.0	63.4	71.7	70.8	62.3	50.7	43.7	28.8	50.9
2009	33.5	35.9	40.3	49.0	58.7	65.7	74.8	72.2	64.9	47.9	41.9	27.1	51.0
2010	39.6	42.5	45.3	49.1	53.9	62.1	71.4	70.2	63.3	52.2	37.2	34.5	51.8
POR= 83 YRS	32.9	37.4	44.8	50.5	58.4	64.8	73.1	71.6	63.0	52.3	40.7	35.0	52.0

**HEATING DEGREE DAYS (base 65°F) 2010 PENDLETON (KPDT)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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
2005-06	1	3	133	370	782	1077	701	804	644	429	240	61	5245
2006-07	5	10	105	458	675	989	1058	739	568	462	212	74	5355
2007-08	0	14	145	470	757	903	1030	694	714	556	214	115	5612
2008-09	3	19	104	444	634	1116	969	809	760	473	228	33	5592
2009-10	0	5	68	526	684	1170	780	625	602	468	347	121	5396
2010-	16	25	77	395	828	940							

WBAN : 24155

**COOLING DEGREE DAYS (base 65°F) 2010 PENDLETON (KPDT)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
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
2006	0	0	0	0	58	79	338	202	79	0	3	0	759
2007	0	0	0	0	8	77	345	158	31	0	0	0	619
2008	0	0	0	0	37	75	218	207	29	7	0	0	573
2009	0	0	0	0	38	60	307	238	69	0	0	0	712
2010	0	0	0	0	10	43	220	196	31	4	0	0	504

**SNOWFALL (inches) 2010 PENDLETON (KPDT)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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
2005-06	0.0	0.0	0.0	0.0	0.2	1.6	T	0.0	T	0.0	0.0	0.0	1.8
2006-07	0.0	0.0	0.0	0.0	0.8	T	1.2	2.5	0.3	0.0	0.0	0.0	4.8
2007-08	0.0	0.0	0.0	0.0	8.7	8.1	10.7	4.3	2.8	T	0.0	0.0	34.6
2008-09	0.0	0.0	0.0	0.0	0.0	32.5	6.6	4.7	1.5	0.5	T	0.0	45.8
2009-10	0.0	0.0	0.0	0.0	T	6.7	0.0	0.0	T	T	T	0.0	6.7
2010-	0.0	0.0	0.0	0.0	8.6	9.8							
POR= 79 YRS	T	0.0	0.0	0.1	1.6	4.4	6.6	3.4	0.8	0.1	T	T	17.0

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. 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: <a href="https://mi3.ncdc.noaa.gov/mi3qry/login.cfm">https://mi3.ncdc.noaa.gov/mi3qry/login.cfm</a> SNOWFALL STOPPED MONTH &amp; YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.</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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# 2010 PENDLETON OREGON (KPDT)

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.

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