

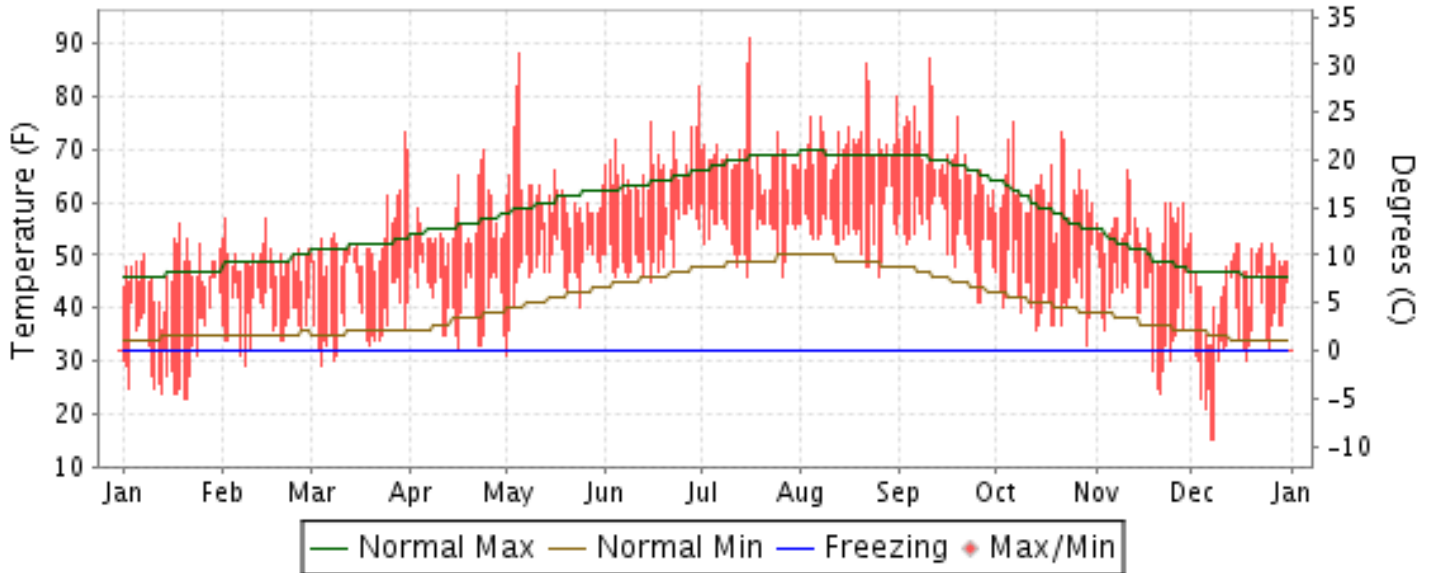


# 2013 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

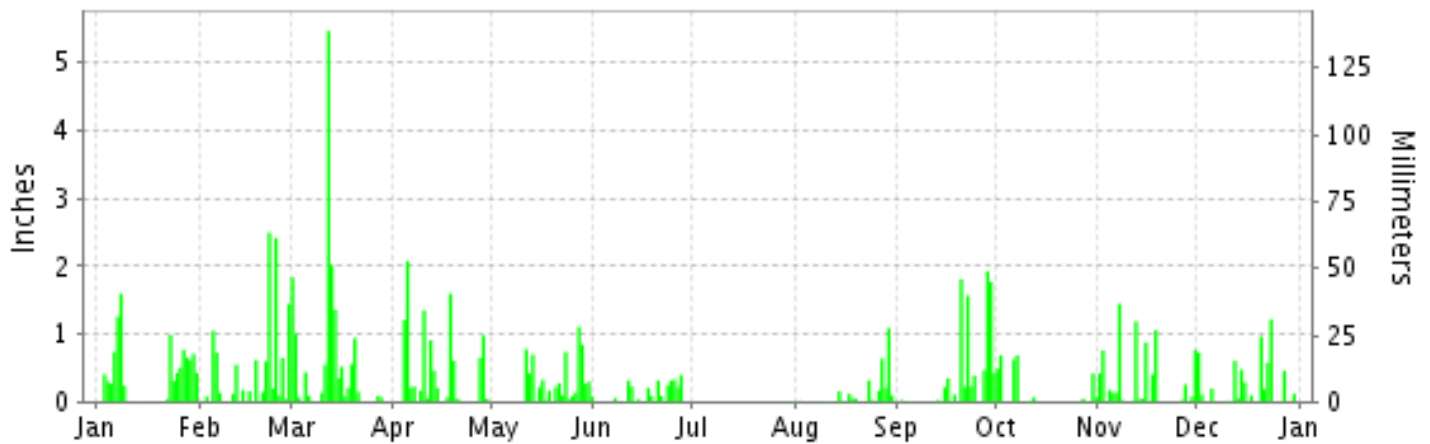
ISSN 0198-5426

## QUILLAYUTE, WASHINGTON (KUIL)

### Daily Max/Min Temperature



### Daily Precipitation



### Daily Station Pressure



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OCEANIC AND  
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AND INFORMATION SERVICE

NATIONAL  
CLIMATIC DATA CENTER  
ASHEVILLE, NORTH CAROLINA

*Thomas R. Karl*  
DIRECTOR  
NATIONAL CLIMATIC DATA CENTER

# METEOROLOGICAL DATA FOR 2013

## QUILLAYUTE (KUIL)

LATITUDE: 47° 56'N      LONGITUDE: 124° 33'W      ELEVATION (FT): GRND: 185 BARO: 181      TIME ZONE: PACIFIC (UTC -8)      WBAN: 94240

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	47.0	49.6	53.2	55.9	62.2	66.6	68.9	71.6	69.0	62.2	55.0	46.3	59.0	
	HIGHEST DAILY MAXIMUM	56	57	73	70	88	82	91	86	87	75	66	54	91	
	DATE OF OCCURRENCE	19	15+	30	24	05	30	16	21	10	06	11	01	JUL 16	
	MEAN DAILY MINIMUM	32.1	38.1	38.6	41.6	47.2	51.2	53.7	54.5	53.6	42.3	40.2	34.4	44.0	
	LOWEST DAILY MINIMUM	23	29	29	32	31	45	46	46	41	33	24	15	15	
	DATE OF OCCURRENCE	21+	08	04	16	01	15	26+	25	26+	29	21	08+	DEC 08+	
	AVERAGE DRY BULB	39.6	43.9	45.9	48.8	54.7	58.9	61.3	63.1	61.3	52.2	47.6	40.3	51.5	
	MEAN WET BULB	37.5	41.4	42.8	44.8	50.2	54.7	55.8	58.0	56.8	48.0	44.2	38.9	47.8	
	MEAN DEW POINT	35.7	38.6	38.9	40.3	45.9	51.3	52.0	54.7	53.8	44.3	40.7	35.6	44.3	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	0	0	0	1	0	0	0	0	0	1
	MAXIMUM <= 32°	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	MINIMUM <= 32°	17	3	4	1	1	0	0	0	0	0	5	12	43	
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	780	585	583	480	313	180	113	59	119	388	517	757	4874	
	COOLING DEGREE DAYS	0	0	0	0	3	7	6	9	14	0	0	0	39	
RH	MEAN (PERCENT)	89	82	78	75	76	77	75	78	80	78	80	82	79	
	HOUR 04 LST	94	85	85	83	83	86	85	87	86	83	84	84	85	
	HOUR 10 LST	87	79	70	70	69	70	69	69	73	69	74	79	73	
	HOUR 16 LST	88	78	70	68	67	68	65	66	72	73	78	83	73	
	HOUR 22 LST	92	84	83	81	81	84	82	86	84	84	83	85	84	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	14	18	18	2	7	5	2	9	11	16	5	14	121	
	THUNDERSTORMS	0	0	0	0	0	0	0	0	3	1	0	0	4	
PR	MEAN STATION PRESS. (IN.)	29.96	29.93	29.88	29.91	29.85	29.82	29.86	29.78	29.65	29.91	29.85	30.04	29.87	
	MEAN SEA-LEVEL PRESS. (IN.)	30.18	30.16	30.11	30.14	30.07	30.04	30.08	30.01	29.87	30.13	30.07	30.26	30.09	
WINDS	RESULTANT SPEED (MPH)	0.6	1.7	1.5	2.3	1.1	1.9	2.7	1.7	1.6	0.3	0.2	0.9	1.0	
	RES. DIR. (TENS OF DEGS.)	16	20	21	25	22	25	29	25	22	31	15	09	24	
	MEAN SPEED (MPH)	3.3	4.8	5.0	5.7	4.6	4.2	4.5	4.1	3.9	3.1	4.4	4.2	4.3	
	PREVAIL.DIR.(TENS OF DEGS.)	08	14	18	29	19	19	30	19	24	09	08	08	08	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	28	29	30	24	25	17	17	20	32	30	33	25	33	
	DIR. (TENS OF DEGS.)	21	27	25	27	02	19	02	19	24	04	31	06	31	
	DATE OF OCCURRENCE	08	25	20	12	04	26	15	29	29	28	02	06	NOV 02	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	39	40	37	37	35	32	26	32	46	43	52	36	52	
DIR. (TENS OF DEGS.)	20	15	25	19	26	36	32	19	22	19	31	06	31		
DATE OF OCCURRENCE	08	24	20	04	13	20	29	29	29	06	02	06	NOV 02		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	10.30	11.76	15.99	10.93	6.87	2.90	0.01	3.01	9.59	3.15	7.92	6.16	88.59	
	GREATEST 24-HOUR (IN.)	1.70	2.57	5.87	2.09	1.34	0.54	0.01	1.12	1.99	1.32	1.59	1.74	5.87	
	DATE OF OCCURRENCE	08-09	21-22	12-13	18-19	27-28	23-24	31	29-30	28-29	06-07	06-07	22-23	MAR 12-13	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	18	20	21	19	19	15	1	15	17	11	19	17	192	
PRECIPITATION 0.10	16	16	14	13	15	9	0	8	12	5	12	13	133		
PRECIPITATION 1.00	2	4	5	4	1	0	0	1	4	0	3	1	25		
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 QUILLAYUTE (KUIL)

**LATITUDE:**  
47° 56'N

**LONGITUDE:**  
124° 33'W

**ELEVATION (FT):**  
GRND: 185 BARO: 181

**TIME ZONE:**  
PACIFIC (UTC -8)

**WBAN: 94240**

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	47.1	49.1	51.4	54.8	59.5	63.1	67.4	68.6	66.2	58.2	50.3	46.0	56.8	
	MEAN DAILY MAXIMUM	47	46.6	49.3	51.4	54.9	60.0	63.7	67.9	68.9	66.9	58.9	51.0	46.4	57.2	
	HIGHEST DAILY MAXIMUM	47	78	73	73	83	92	96	97	99	97	83	69	64	99	
	YEAR OF OCCURRENCE		2005	1992	2013	1987	1987	1982	1988	1981	1988	1988	1976	1969	1969	AUG 1981
	MEAN OF EXTREME MAXS.	47	55.8	59.8	63.3	70.4	78.4	81.3	85.4	85.4	82.9	72.5	60.1	54.8	70.8	
	NORMAL DAILY MINIMUM	30	36.0	35.2	36.8	38.6	43.1	47.5	50.5	50.5	46.9	41.8	38.1	34.7	41.6	
	MEAN DAILY MINIMUM	47	34.7	34.9	36.0	37.9	42.5	47.0	50.2	50.3	46.8	41.5	37.7	34.6	41.2	
	LOWEST DAILY MINIMUM	47	0	11	19	23	29	33	38	36	28	23	5	7	0	
	YEAR OF OCCURRENCE		1998	1989	1989	1999	2011	1976	2002	1985	1972	2006	1985	1972	1972	JAN 1998
	MEAN OF EXTREME MINS.	47	21.3	22.9	26.0	28.9	32.9	38.6	41.5	41.8	36.4	30.1	25.6	21.8	30.7	
	NORMAL DRY BULB	30	41.6	42.1	44.1	46.7	51.3	55.3	58.9	59.6	56.6	50.0	44.2	40.4	49.2	
	MEAN DRY BULB	47	40.7	42.1	43.7	46.4	51.2	55.4	59.0	59.6	56.8	50.2	44.4	40.5	49.2	
	MEAN WET BULB	29	39.6	39.5	40.9	43.3	47.5	51.4	54.6	55.2	52.6	47.4	42.9	38.7	46.1	
	MEAN DEW POINT	29	38.8	38.0	39.9	42.0	46.1	50.1	53.4	54.0	51.5	46.6	41.9	38.0	45.0	
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.3	0.1	0.0	0.0	0.0	0.8
	MAXIMUM <= 32	30	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.7	1.3
MINIMUM <= 32	30	9.3	9.9	6.4	3.7	0.2	0.0	0.0	0.0	0.0	0.1	1.9	5.6	10.9	48.0	
MINIMUM <= 0	30	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	0.0	
H/C	NORMAL HEATING DEG. DAYS	30	727	640	648	549	426	294	194	175	256	465	624	764	5762	
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	1	3	7	6	2	0	0	0	19	
RH	NORMAL (PERCENT)	30	89	86	85	82	82	82	82	83	83	88	90	90	85	
	HOURLY 04 LST	30	91	91	92	93	94	94	94	95	94	94	93	92	93	
	HOURLY 10 LST	30	90	87	82	75	74	75	75	76	76	85	89	91	81	
	HOURLY 16 LST	30	83	78	73	68	67	68	66	68	67	75	84	86	74	
	HOURLY 22 LST	30	91	90	90	89	89	89	89	91	91	93	92	92	91	
S	PERCENT POSSIBLE SUNSHINE	30	22	30	34	35	37	35	43	44	47	34	21	19	33	
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	47	3.9	3.0	3.4	2.4	2.9	2.8	4.6	8.1	7.7	7.5	4.0	3.9	54.2	
	THUNDERSTORMS	47	0.4	0.2	0.3	0.3	0.2	0.1	0.3	0.2	0.4	0.8	1.0	0.6	4.8	
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS)	30	6.6	6.4	6.3	6.5	6.2	6.2	5.3	5.3	5.0	5.8	6.6	6.3	6.0	
	MIDNIGHT-MIDNIGHT (OKTAS)	30	6.3	6.0	6.0	6.2	6.0	6.1	5.4	5.3	4.9	5.5	6.3	6.1	5.8	
	MEAN NO. DAYS WITH: CLEAR	30	3.4	3.8	3.5	2.8	2.6	3.5	6.0	6.1	7.7	4.9	2.6	3.6	50.5	
	PARTLY CLOUDY	30	3.1	3.6	5.9	5.7	8.0	6.8	8.3	8.7	7.7	7.1	4.9	3.8	73.6	
	CLOUDY	30	24.5	20.9	21.6	21.5	20.4	19.7	15.7	15.2	13.8	18.2	21.6	23.6	236.7	
PR	MEAN STATION PRESSURE(IN)	30	29.80	29.79	29.78	29.81	29.82	29.83	29.86	29.83	29.81	29.82	29.77	29.80	29.81	
	MEAN SEA-LEVEL PRES. (IN)	30	30.02	30.01	30.00	30.03	30.05	30.06	30.08	30.05	30.03	30.04	30.00	30.02	30.03	
WINDS	MEAN SPEED (MPH)	30	6.3	6.2	6.3	5.9	5.4	5.1	4.8	4.5	4.2	4.9	6.0	6.1	5.5	
	PREVAIL.DIR(TENS OF DEGS)	34	05	07	18	19	25	28	32	25	19	18	07	07	07	
	MAXIMUM 2-MINUTE: SPEED (MPH)	17	37	36	38	37	31	25	28	24	32	31	37	43	43	
	DIR. (TENS OF DEGS)		28	24	23	20	16	27	04	04	24	22	24	29	29	
	YEAR OF OCCURRENCE		2004	2006	1999	2010	2010	2008	2007	2012	2013	2010	1998	2006	2006	DEC 2006
	MAXIMUM 3-SECOND SPEED (MPH)	17	61	62	55	54	60	39	37	33	58	60	56	69	69	
	DIR. (TENS OF DEGS)		17	18	17	21	14	28	05	03	14	17	15	30	30	
YEAR OF OCCURRENCE		2010	2006	2011	2010	2010	2008	2007	2010	2011	2010	2007	2008	2008	DEC 2008	
PRECIPITATION	NORMAL (IN)	30	14.61	10.35	10.83	7.85	5.11	3.50	1.98	2.49	3.82	10.49	15.52	12.99	99.54	
	MAXIMUM MONTHLY (IN)	47	24.02	26.20	23.23	13.90	12.45	8.83	11.02	15.07	12.82	27.17	29.14	27.82	29.14	
	YEAR OF OCCURRENCE		2006	1999	2007	1992	1974	1997	1983	1991	1997	1975	1983	1979	1979	NOV 1983
	MINIMUM MONTHLY (IN)	47	1.22	0.87	1.84	1.78	1.05	0.40	0.01	0.17	0.12	1.37	4.41	3.63	0.01	
	YEAR OF OCCURRENCE		1985	1993	1992	2004	1972	1967	2013	1998	1991	1987	1976	1985	1985	JUL 2013
	MAXIMUM IN 24 HOURS (IN)	47	8.32	5.07	5.87	2.77	3.54	3.25	6.45	4.70	4.13	5.54	6.27	6.76	8.32	
	YEAR OF OCCURRENCE		1968	1982	2013	1968	1973	1997	1972	1991	1968	1975	2003	1972	1972	JAN 1968
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	22.8	18.4	21.9	19.0	16.7	14.4	10.3	8.9	10.9	18.1	22.8	22.1	206.3	
PRECIPITATION >= 1.00	30	4.9	3.1	3.0	1.9	0.9	0.6	0.4	0.6	1.0	3.5	5.0	4.2	29.1		
SNOWFALL	NORMAL (IN)	30	2.0	2.6	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.1	8.9	
	MAXIMUM MONTHLY (IN)	30	40.1	16.1	10.2	2.8	T	T	T	T	T	T	15.6	11.6	40.1	
	YEAR OF OCCURRENCE		1969	1990	1971	1975	1994	1988			1972	1996	1985	1972	1972	JAN 1969
	MAXIMUM IN 24 HOURS (IN)	30	8.2	8.4	7.5	2.4	T	T	0.0	0.0	T	T	7.7	7.3	8.4	
	YEAR OF OCCURRENCE		1969	1971	1989	1975	1994	1988			1972	1995	1985	1981	1981	FEB 1971
	MAXIMUM SNOW DEPTH (IN)	29	17	12	7	0	0	0	0	0	0	0	6	6	17	
	YEAR OF OCCURRENCE		1969	1969	1989								1985	1972	1972	JAN 1969
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	0.8	0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	3.0		

**PRECIPITATION (inches) 2013 QUILLAYUTE (KUIL)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1984	18.27	13.77	9.79	8.89	10.56	2.83	0.55	1.61	3.69	13.91	14.65	13.89	112.41
1985	1.22	6.90	9.33	6.19	1.86	2.43	0.36	1.09	4.75	14.69	7.79	3.63	60.24
1986	16.11	12.74	13.09	6.79	11.02	1.48	3.45	0.30	3.68	5.36	13.29	12.42	99.73
1987	14.05	8.20	13.37	6.95	8.52	1.74	1.39	0.55	1.75	1.37	11.34	11.71	80.94
1988	9.39	8.45	12.83	10.87	10.68	2.28	1.80	1.30	5.73	8.07	15.51	12.12	99.03
1989	15.65	6.22	10.03	5.57	3.31	4.52	2.36	1.99	0.13	9.80	16.57	8.82	84.97
1990	17.09	15.85	8.68	5.51	4.59	6.47	0.95	2.30	0.38	15.85	22.59	16.79	117.05
1991	12.88	16.45	6.89	7.88	4.31	2.27	1.28	15.07	0.12	2.66	18.49	10.71	99.01
1992	23.99	7.19	1.84	13.90	1.27	1.72	0.43	1.85	5.34	11.19	11.86	9.79	90.37
1993	7.88	0.87	10.96	12.25	6.83	3.67	0.98	1.25	0.23	5.46	6.62	12.85	69.85
1994	9.87	17.97	9.74	6.50	4.42	4.00	1.70	0.96	4.19	9.58	14.88	20.00	103.81
1995	14.14	10.96	9.90	5.98	1.21	3.31	2.45	6.27	1.72	13.99	20.64	13.97	104.54
1996	15.56	10.23	5.17	13.33	3.27	2.20	.75	1.24	3.16	14.54	13.23	14.64	97.32
1997	19.48	8.23	20.32	9.99	7.07	8.83	0.77	3.73	12.82	14.70	9.49	13.45	128.88
1998	19.19	11.73	6.82	3.15	3.54	1.26	2.07	0.17	0.50	8.20	26.11	21.77	104.51
1999	15.03	26.20	14.29	3.90	5.89	4.33	1.81	0.56	1.78	14.43	21.53	21.61	131.36
2000	12.44	8.34	9.76	7.04	9.32	5.69	2.80	1.21	5.44	8.62	5.60	6.72	82.98
2001	11.16	3.50	7.27	9.73	6.99	3.69	1.28	7.36	3.74	13.07	12.45	15.84	96.08
2002	15.32	13.09	9.50	8.31	4.57	4.29	0.89	0.45	2.88	2.10	14.49	14.69	90.58
2003	14.47	4.43	16.26	10.13	2.83	1.24	1.68	0.28	3.14	18.86	17.51	13.61	104.44
2004	13.56	6.57	10.10	1.78	4.12	3.72	1.30	5.01	6.21	11.45	13.06	12.13	89.01
2005	16.84	3.42	11.31	9.75	5.87	2.35	4.69	0.92	4.35	13.90	10.94	9.28	93.62
2006	24.02	6.37	12.74	5.93	3.14	3.01	0.97	0.24	3.32	2.85	24.47	8.77	95.83
2007	17.40	12.54	23.23	8.96	3.04	4.57	4.38	1.30	4.39	12.74	9.89	17.36	119.80
2008	12.02	7.92	8.58	4.40	2.33	2.70	2.69	5.73	1.67	8.28	17.83	11.18	85.33
2009	11.16	3.22	9.36	4.94	4.32	1.02	1.04	1.54	5.77	12.27	26.55	6.91	88.10
2010	22.54	7.18	9.79	10.11	8.12	4.30	0.35	2.90	8.85	12.28	12.33	19.02	117.77
2011	17.58	10.47	17.95	7.84	5.56	1.87	2.28	3.27	7.68	10.39	14.54	7.90	107.33
2012	15.59	11.40	21.00	10.29	4.26	7.00	1.93	0.52	0.57	15.60	13.84	17.53	119.53
2013	10.30	11.76	15.99	10.93	6.87	2.90	0.01	3.01	9.59	3.15	7.92	6.16	88.59
POR= 47 YRS	14.52	10.98	11.64	7.78	5.16	3.31	2.14	2.57	4.68	10.42	14.54	14.24	101.98

WBAN : 94240

**AVERAGE TEMPERATURE (°F) 2013 QUILLAYUTE (KUIL)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1984	42.0	44.0	46.4	45.7	49.4	53.2	58.6	58.9	55.1	47.9	43.5	36.7	48.5
1985	38.9	39.4	40.4	45.9	51.7	54.9	60.3	58.6	54.9	48.7	35.0	38.3	47.3
1986	44.6	40.3	47.3	44.8	51.3	57.4	56.8	60.7	55.1	52.4	44.6	42.8	49.8
1987	41.8	44.4	46.0	49.1	52.7	55.3	58.4	59.5	57.7	52.6	47.8	39.2	50.4
1988	39.7	45.0	44.3	47.7	51.4	54.4	59.5	59.9	55.4	53.0	44.8	41.9	49.8
1989	39.6	35.0	41.9	50.4	51.6	57.4	58.6	59.4	59.3	51.1	45.9	43.6	49.5
1990	42.5	39.8	45.1	48.9	51.4	55.9	61.4	61.5	59.9	48.3	45.3	36.3	49.7
1991	39.5	46.4	41.8	46.0	50.3	53.9	59.2	58.6	60.1	49.3	45.6	43.6	49.5
1992	44.1	46.5	48.5	49.0	54.3	58.4	60.7	60.7	54.8	51.1	44.8	38.1	50.9
1993	36.8	40.9	45.4	48.1	55.5	56.8	57.8	60.9	55.6	52.7	41.6	41.6	49.5
1994	44.9	40.0	45.5	48.9	52.7	54.9	59.3	60.8	58.9	48.9	41.2	40.9	49.7
1995	44.1	45.1	45.0	47.3	53.8	57.4	61.1	58.0	60.1	50.6	47.4	43.1	51.1
1996	39.8	42.7	45.0	48.8	50.0	54.6	60.4	60.9	54.5	49.5	43.6	37.8	49.0
1997	41.1	41.5	42.9	46.1	53.8	55.3	58.8	60.5	59.4	50.8	47.7	42.8	50.1
1998		44.7	45.2	46.5	52.4	55.1	60.4	59.8	56.0	51.4	45.9	39.6	
1999	41.2	41.2	41.7	43.6	48.3	53.4	56.7	59.2	54.6	47.7	46.3	42.6	48.0
2000	38.9	42.2	43.4	48.2	50.2	55.5	59.4	58.8	56.5	49.1	41.7	40.4	48.7
2001	41.7	38.9	43.0	44.8	49.6	52.3	56.3	58.4	55.3	49.0	45.8	40.7	48.0
2002	40.7	41.5	40.6	45.3	48.6	55.7	58.9	58.7	55.5	49.4	47.9	42.7	48.8
2003	46.5	41.4	44.7	45.8	49.8	57.5	59.7	58.9	57.5	52.3	42.3	41.1	49.8
2004	42.0	43.5	45.7	49.1	52.0	57.1	61.1	62.6	56.1	50.7	45.0	42.8	50.6
2005	42.4	42.3	46.6	47.6	55.1	55.9	59.3	60.2	55.0	51.8	42.8	42.3	50.1
2006	44.6	41.5	42.7	47.1	51.9	56.9	59.8	57.5	56.2	49.1	43.1	41.1	49.3
2007	38.9	42.7	44.8	46.7	50.4	54.5	61.3	59.9	56.0	49.2	43.0	40.1	49.0
2008	38.0	42.3	41.5	43.1	51.3	52.7	56.7	59.1	56.4	49.2	47.8	37.0	47.9
2009	40.2	40.3	40.3	45.4	50.0	56.8	60.2	59.5	58.1	49.8	45.3	38.6	48.7
2010	46.4	45.7	45.1	46.7	48.8	54.2	57.8	58.4	57.7	51.4	42.7	42.2	49.8
2011	41.4	38.0	43.2	42.7	48.0	54.5	57.3	59.2	58.5	50.1	42.1	39.7	47.9
2012	40.2	43.5	41.9	47.8	50.4	52.9	58.0	61.3	56.1	50.8	46.1	41.1	49.2
2013	39.6	43.9	45.9	48.8	54.7	58.9	61.3	63.1	61.3	52.2	47.6	40.3	51.5
POR= 47 YRS	40.7	42.1	43.7	46.4	51.2	55.4	59.0	59.6	56.8	50.2	44.4	40.5	49.2

**HEATING DEGREE DAYS (base 65°F) 2013 QUILLAYUTE (KUIL)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1984-85	199	184	291	525	637	871	802	712	753	564	408	301	6247
1985-86	145	190	296	498	894	820	622	685	542	599	422	223	5936
1986-87	248	134	290	384	608	682	712	572	582	471	380	285	5348
1987-88	197	177	217	381	510	791	777	574	632	512	417	311	5496
1988-89	183	155	293	366	599	710	783	830	709	434	407	245	5714
1989-90	194	168	173	426	566	659	689	698	610	477	415	273	5348
1990-91	118	114	156	510	584	883	782	515	710	563	447	326	5708
1991-92	185	189	159	481	575	657	644	531	505	476	325	199	4926
1992-93	132	152	299	424	602	825	868	667	598	500	288	239	5594
1993-94	215	145	275	379	695	719	617	695	601	478	373	294	5486
1994-95	176	125	177	494	707	739	639	548	614	524	339	247	5329
1995-96	135	210	142	440	524	670	772	644	612	481	462	309	5401
1996-97	159	128	309	474	636	837	736	652	679	561	343	284	5798
1997-98	186	134	161	432	511	679	777	563	608	549	385	288	5798
1998-99	148	169	266	413	567	777	728	660	715	637	513	343	5936
1999-00	254	174	307	530	556	687	803	654	664	499	452	281	5861
2000-01	170	184	251	482	693	754	715	724	676	601	470	376	6096
2001-02	263	197	283	489	572	743	745	648	751	580	504	277	6052
2002-03	184	202	280	479	508	684	568	656	621	566	464	229	5441
2003-04	162	185	222	388	675	734	706	619	592	469	398	237	5387
2004-05	132	83	259	439	592	684	694	629	560	513	310	265	5160
2005-06	168	143	294	404	658	695	624	654	686	531	403	251	5511
2006-07	182	222	258	485	649	738	801	617	621	540	446	309	5868
2007-08	127	152	261	487	655	764	831	653	724	651	424	366	6095
2008-09	249	183	254	482	510	861	762	685	761	582	458	246	6033
2009-10	158	165	210	466	583	809	570	535	608	542	495	318	5459
2010-11	227	211	212	417	662	701	727	751	671	662	520	311	6072
2011-12	231	174	191	457	681	774	764	619	713	511	447	357	5919
2012-13	209	132	264	433	557	733	780	585	583	480	313	180	5249
2013-	113	59	119	388	517	757							

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**COOLING DEGREE DAYS (base 65°F) 2013 QUILLAYUTE (KUIL)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1984	0	0	0	0	0	0	5	1	0	0	0	0	6
1985	0	0	0	0	1	6	6	1	0	0	0	0	14
1986	0	0	0	0	4	1	0	7	0	0	0	0	12
1987	0	0	0	0	2	2	0	12	2	0	0	0	18
1988	0	0	0	0	0	0	19	4	13	0	0	0	36
1989	0	0	0	0	0	24	0	0	9	0	0	0	33
1990	0	0	0	0	0	7	16	10	11	0	0	0	44
1991	0	0	0	0	0	0	11	0	20	0	0	0	31
1992	0	0	0	0	2	9	6	25	0	0	0	0	42
1993	0	0	0	0	2	0	1	25	0	0	0	0	28
1994	0	0	0	0	0	0	6	1	3	0	0	0	10
1995	0	0	0	0	0	27	19	0	0	0	0	0	46
1996	0	0	0	0	0	3	20	8	0	0	0	0	31
1997	0	0	0	0	0	0	0	4	0	0	0	0	4
1998	0	0	0	0	0	0	11	13	0	0	0	0	24
1999	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	2	2	0	4	0	0	0	8
2001	0	0	0	0	0	0	0	1	0	0	0	0	1
2002	0	0	0	0	0	5	3	13	0	0	0	0	21
2003	0	0	0	0	0	11	5	0	3	0	0	0	19
2004	0	0	0	0	0	7	21	16	0	0	0	0	44
2005	0	0	0	0	9	0	2	0	0	0	0	0	11
2006	0	0	0	0	1	12	28	0	4	0	0	0	45
2007	0	0	0	0	0	0	22	1	0	0	0	0	23
2008	0	0	0	0	6	3	0	8	2	0	0	0	19
2009	0	0	0	0	0	8	18	4	12	0	0	0	42
2010	0	0	0	0	0	0	10	14	0	0	0	0	24
2011	0	0	0	0	0	0	0	0	2	0	0	0	2
2012	0	0	0	0	0	0	0	24	4	0	0	0	28
2013	0	0	0	0	3	7	6	9	14	0	0	0	39

**SNOWFALL (inches) 2013 QUILLAYUTE (KUIL)**

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	0.0	0.0	T	T	T	T	0.0	T
1977-78	0.0	0.0	0.0	0.0	T	4.5	1.4	T	T	T	0.0	0.0	5.9
1978-79	0.0	0.0	0.0	0.0	T	1.6	T	0.5	T	0.0	0.0	0.0	2.1
1979-80	0.0	0.0	0.0	0.0	0.0	0.0	11.0	T	2.1	T	T	0.0	13.1
1980-81	0.0	0.0	0.0	0.0	0.0	7.5	0.0	T	T	0.6	0.0	0.0	8.1
1981-82	0.0	0.0	0.0	0.0	T	8.3	13.1	7.2	0.6	0.8	T	0.0	30.0
1982-83	0.0	0.0	0.0	T	T	T	T	T	T	T	T	0.0	T
1983-84	0.0	0.0	0.0	0.0	T	0.9	0.0	T	T	T	T	0.0	0.9
1984-85	0.0	0.0	0.0	T	T	6.7	0.0	4.7	0.4	T	T	0.0	11.8
1985-86	0.0	0.0	0.0	T	15.6	T	T	3.4	T	T	T	0.0	19.0
1986-87	0.0	0.0	0.0	0.0	T	T	0.1	0.9	0.3	0.1	0.0	0.0	1.4
1987-88	0.0	0.0	0.0	0.0	T	0.9	T	T	T	T	T	T	0.9
1988-89	0.0	0.0	0.0	0.0	1.1	T	3.2	0.3	7.5	T	0.0	0.0	12.1
1989-90	0.0	0.0	0.0	T	T	T	5.2	16.1	0.1	T	T	0.0	21.4
1990-91	0.0	0.0	0.0	T	1.5	5.1	T	0.0	0.7	T	T	0.0	7.3
1991-92	0.0	0.0	0.0	T	T	T	0.0	T	0.0	0.2	T	0.0	0.2
1992-93	0.0	0.0	0.0	0.0	0.0	6.8	0.3	2.1	T	T	0.0	0.0	9.2
1993-94	0.0	0.0	0.0	0.0	T	T	T	1.1	2.1	0.0	T	0.0	3.2
1994-95	0.0	0.0	0.0	T	T	2.4	0.0	5.4	T	T	0.0	0.0	7.8
1995-96	0.0	0.0	0.0	T	T	T	10.3	0.6	0.0	0.0	0.0	0.0	10.9
1996-97	0.0	0.0	0.0	T	4.2								
1997-98													
1998-99													
1999-00													
2000-01													
2001-02													
2002-03													
2003-04													
2004-05													
2005-													
POR= 30 YRS	0.0	0.0	0.0	T	1.0	2.7	4.8	2.8	1.5	0.3	T	T	13.1

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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. 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 CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS.</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</p>	<p>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 EIGHTHS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER. STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED STATION HISTORY INFORMATION GO TO "Historical Observing Metadata Repository", URL IS: <a href="http://www.ncdc.noaa.gov/homr/">http://www.ncdc.noaa.gov/homr/</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 "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.</p>
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# 2013 QUILLAYUTE AIRPORT WASHINGTON (KUIL)

Quillayute Airport, located on the coastal plain between the Pacific Ocean and the Olympic Mountains, is 3 miles inland from the coast, and 10 miles west of the city of Forks. The terrain is slightly rolling with a gradual increase in elevation from sea level to 180 feet at the station, to 350 feet in the vicinity of Forks. Foothills of the Olympic Mountains begin near the eastern edge of Forks, and within 10 to 15 miles, the higher ridges reach elevations of 3,000 to 6,000 feet.

Timber is the primary economic product of this northwestern section of the Olympic Peninsula. Only small areas of the Quillayute plains and a few other localities are devoted to cattle raising and agriculture. Logging operations continue throughout the year in the lower elevations with little delay due to normal rain or snow. In the foothills and mountains, heavy snowfall, excessive precipitation, and high winds during the winter season result in shutdowns, but seldom for more than one or two days. Forests are closed to logging and recreation for short periods of time almost every summer when the relative humidity is low and the fire danger is high.

Maritime air from over the Pacific has an influence on the climate throughout the year. In the late fall and winter, the low pressure center in the Gulf of Alaska intensifies and is of major importance in controlling weather systems entering the Pacific Northwest. At this season of the year, storm systems crossing the Pacific follow a more southerly path striking the coast at frequent intervals. The prevailing flow of air is from the southwest and west. Air reaching this area is moist and near the temperature of the ocean water along the coast which ranges from 45 degrees in February to 57 degrees in August. The wet season begins in September or October. From October through January, rain may be expected on about 26 days per month, from February through March, on 20 days, from April to June, on 15 days, and from July to September, on 10 days. As the weather systems move inland, rainfall is usually of moderate intensity and continuous, rather than heavy downpours for brief periods. Gale force winds are not unusual. Most of the winter precipitation over the coastal plains falls as rain, however, snow can be expected each year. Snow seldom reaches depths in excess of 10 inches or remains on the ground longer than two weeks.

Annual precipitation increases from approximately 90 inches near the coast, to amounts in excess of 120 inches over the coastal plains, to 200 inches or more on the wettest slopes of the Olympic Mountains.

During the rainy season, temperatures show little diurnal or day-to-day change. Maximums are in the 40s and minimums in the mid-30s. A few brief outbreaks of cold air from the interior of Canada can be expected each winter. Clear, dry, cold weather generally prevails during periods of easterly winds.

In the late spring and summer, a clockwise circulation of air around the large high pressure center over the north Pacific brings a prevailing northwesterly and westerly flow of cool, comparatively dry, stable air into the northwest Olympic Peninsula. The dry season begins in May with the driest period between mid-July and mid-August. The total rainfall for July is less than .5 inch in one summer out of ten. It also exceeds 5 inches in one summer out of ten. During the warmest months, afternoon temperatures are in the upper 60s and lower 70s, reaching the upper 70s and the lower 80s on a few days. Occasionally, hot, dry air from the east of the Cascade Mountains reaches this area and temperatures are in the mid- or upper-90s for one to three days.

In summer and early fall, fog or low clouds form over the ocean and frequently move inland at night, but generally disappear by midday. In winter, under the influence of a surface high pressure system, centered off the coast, fog, low clouds, and drizzle are a daily occurrence as long as this type of pressure continues.

# Station History

QUILLAYUTE, WA

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
QUILLAYUTE AIRPORT	1966-08-01	1969-01-01	47° 57'	-124° 33'	180		AIRWAYS, COOP
QUILLAYUTE AIRPORT	1969-01-01	1981-12-31	47° 57'	-124° 33'	180		COOP, WXSVC
QUILLAYUTE STATE AIRPORT	2002-03-15	Present	47° 56'	-124° 33'	185		ASOS, COOP
QUILLAYUTE AIRPORT	1982-01-01	1996-12-01	47° 57'	-124° 33'	179		COOP
QUILLAYUTE AIRPORT	1981-12-31	1982-01-01	47° 57'	-124° 33'	180		COOP
QUILLAYUTE STATE AIRPORT	1996-12-01	2002-03-15	47° 56'	-124° 33'	179		ASOS, COOP

# Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
PRECIP	2002-03-15	2011-03-07	HOURLY	2400	AHTB	RCRD;HTD	
PRECIP	2011-03-07	Present	DAILY	2400	PCPNX		
TEMP	2011-03-07	Present	DAILY	2400	ATEMP		
PRECIP	1982-01-01	1999-12-01	DAILY	2400			
PRECIP	1982-01-01	1999-12-01	HOURLY	2400	UNIV	RCRD	
TEMP	1982-01-01	1999-12-01	DAILY	2400			
PRECIP	2002-03-15	2011-03-07	DAILY	2400	PCPNX		
TEMP	2002-03-15	2011-03-07	DAILY	2400	ATEMP		
TEMP	1966-08-01	1982-01-01	DAILY	2400			
PRECIP	2011-03-07	Present	HOURLY	2400	AWPAG	RCRD;HTD	
PRECIP	1966-08-01	1982-01-01	DAILY	2400			
PRECIP	1999-12-01	2002-03-15	DAILY	2400	TB	RCRD	
PRECIP	1999-12-01	2002-03-15	HOURLY	2400	TB	RCRD	
TEMP	1999-12-01	2002-03-15	DAILY	2400	HYGR		

\* 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

Fax Number : (828) 271-4876

TDD : (828) 271-4010

Email : [ncdc.orders@noaa.gov](mailto:ncdc.orders@noaa.gov)

NOAA/National Climatic Data Center

Attn: User Engagement & Services Branch

151 Patton Avenue

Asheville, NC 28801-5001

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