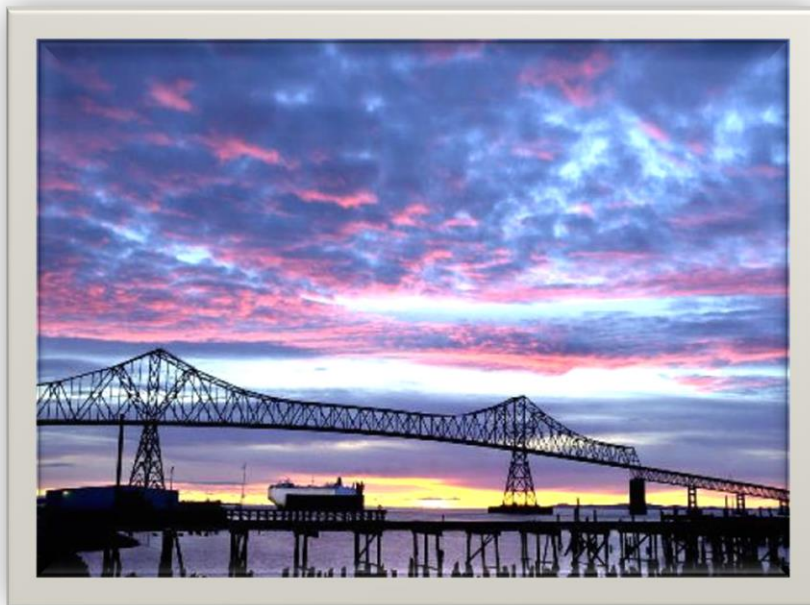




Climate of Astoria

NOAA Technical Memorandum/NWS-WR-250
Climate of Astoria, Oregon



4th Revision: Feb 2024

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Climate of Astoria

I. Revision Notes.

This is the fourth revision of the Climate of Astoria, which was originally issued in 1996.

This revision updates data through Jan 2024.

II. Geographical Overview.

Astoria's perennially verdant landscape is hemmed by rather low mountains to the north, east and south. To the west, it is open to the Pacific Ocean, with over four miles of low green dune lands between the river and the Astoria airport, as well as the last 10 miles of the Columbia River.

North of the Astoria airport, 8 to 12 miles distant, the Washington 'hills' rise to 1000 - 1200 feet. Often, fog and stratus will bank against these hills during, and even before a storm. East to northeast for 2 to 4 miles, the Astoria hills rise to about 600 feet. To the east to southeast, for 4 to 14 miles, consecutively rise the ridges of the Coast Range. The highest point near Astoria is the prominent landmark of Saddle Mountain, rising to 3283 feet above sea level. After the passage of a strong winter cold front, fresh snow on the mountain will mark the freezing level. An arm of the Coast Range extends from east of Astoria and to the south, and ends 15 miles to the southwest at Tillamook Head, just south of the town of Seaside.

From Seaside northward to the south bank of the Columbia River are 18 miles of sandy beaches. Behind these beaches lies a 2 to 3 mile wide stretch of dunal lands, exposed to the ocean winds. Homes and farms shelter in the depression, which parallels the crests of the undulating terrain. Here also are shallow fishing and swimming lakes, and cranberry bogs, disposed to fog and frost. Similar areas

continue north of the Columbia River in Washington.

Because of the damp climate, it is necessary to convert to ensilage much of the hay grown on the dairy and other farms that dot the lower lands, particularly along Youngs River and the Lewis and Clark River. Forest cover much of the surrounding hills and uplands.

The airport sits by the south bank of the Columbia estuary, and west of Youngs Bay on their flood plain or tidal flats. Low dikes shut out their waters, and partially rim the field. This increases the bog-like characteristics in collecting chilly air, with fog and/or frost. When air temperatures drop below water temperatures, fog forms easily, or will roll in from the Pacific Ocean, Columbia River, and/or Youngs Bay. This fog will often roll into the airport area late in the afternoon to the evening hours, and persist well into the following day. However, midday cloud ceilings and visibilities are generally above flight minimums. During the summer months, a sea breeze commonly blows inland up the Columbia River by early afternoon, thus stopping the diurnal rise in temperature. In winter, cold air may funnel down the Columbia River from further inland. This area is also a favorite flying destination for general recreational pilots.



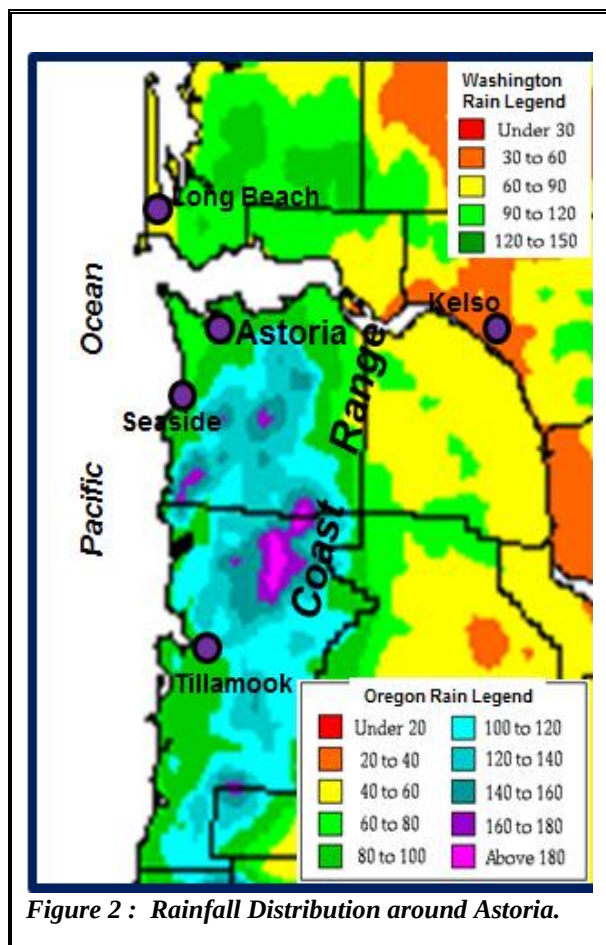
III. Climatological Summary.

Weather hazards occasionally occur. For flying concerns, the greatest are fog and low clouds that often obscure surrounding terrain, and gales. Even with moderate surface wind speeds, wind and turbulence at 800 feet may be severe enough to upset a heavy plane. Storms over the Pacific may sink or wreck ships. Even in fair weather, winds and wave may combine to produce a type of breaker known as the 'widow-maker' and swamp a boat quickly. Heavy winter rains can inundate the lowlands and cause landslides. High tides enhanced by storm surge from gales can push seawater across highways or up higher onto beaches. Powerful winter storms bring strong winds, which can topple power lines and trees. Showers of small hail may briefly whiten the ground in nearly any month.

Rain is a part of life during autumn and winter. Nearly 90 percent of the annual rainfall occurs between early October and mid-May. In fact, only about 2 percent of our rain occurs in July and August. It is not uncommon to see relatively dry, with little rain in both July and August. The first autumn rain often arrives about early September, but it generally is not until early October for the rain to increase in frequency. Terrain differences can bring significant changes in rainfall. Along the coast, rainfall is generally 65 to 90 inches. But just inland, the Coast Range receives over 120 inches of rain per year (*figure 2*).

Precipitation falls mostly as rain, with an average of fourteen days per year recording measurable snow. Snow accumulations are rarely more than one inch, and often melt within a day. On average, Astoria receives 1.4 inches of snow annually. Most likely areas of snow will be the higher terrain above 800 feet. Too many times, warm air pushing in from the Pacific quickly ends the threat of low elevation snow. However, occasionally, significant snow can occur, such as in late January of 1969 with nearly 2 feet of snow.

The winter season is characterized by mild temperatures, frequent cloudy skies, and rain. Winds are predominately either southerly during the mild rainy spells, or northerly during the colder dry spells. Outbreaks of cold arctic air from east of the Cascades will occasionally spill into Western Oregon via the Columbia River Gorge, bringing chilly east winds. During these cold air events, if a moist Pacific front pushes into the region, rain will occur. Initially, the warm south winds may not be strong enough to scour out the cold air from the lowlands. As a result, the rain falls into the shallow layer of sub-freezing air, with freezing rain, sleet, and sometimes snow resulting. Often this phase is of short duration, with temperatures warming



and ending the threat of freezing/frozen precipitation.

Temperatures are generally mild during the cool season, with highs in the middle 40s to lower 50s and lows in the 30s. It is common to see overnight winter low temperatures into 20s. During cold nights in winter, with an arctic air mass in place over the region, winds are often light under clear skies. This allows for rapid temperatures falls once the sun sets. At that time, temperatures can plummet below 20°F. Such cold temperatures are rare, averaging about twice per winter. The most notable cold snaps occurred in 1990 and 1972. During the 1990 and 1972 cold snap, Astoria recorded its lowest temperature at 6°F above zero.

Spring is a transitional time as the weather pattern shift from winter to summer. However, spring is not all that warm, and often, not all that dry. March and April are often damp and cool, with only a few warm dry days. May and June turn more dry, and see the most of the warming weather. Generally, afternoon temperatures are rather stable, with highs in the upper 50s to middle 60s. However, it is not uncommon to see temperatures into the 80s during late April through June. This will occur when winds blow from the land out to sea (offshore flow). The warmest day in May was 93°F, occurring in 2008. Even though the number of rainy days decreases in May and June, there are still plenty of cloudy days.

Summer finally arrives in early July, when afternoon highs in the upper 60s to lower 70s occur with regularity. High pressure over the Pacific builds in the summer, with north to northwest winds prevailing in the afternoons and evenings. This high also shuts off the moisture source, allowing summers to often be dry and warm. Temperatures will often reach the lower to middle 70s, but these warm

days do not last long before the cooler ocean air moves inland and cools the region back into the 60s. Temperatures above 100 degrees are quite rare, only occurring twice since 1890. Hottest temperature recorded Astoria was 101°F, occurring on 1st of July 1942 and 27th of June 2021.

Autumn is the reverse of spring. September is still warm and dry, but by early to mid-October, the wet autumn weather arrives with high temperatures in the 50s. As the night time hours increase, the valley cools more, allowing fog to form on clear nights. Fog can be quite dense during the late night and early morning hours, and can persist for several days.

Destructive windstorms are common in Astoria, as strong fronts and low pressure systems arrive from the Pacific. Astoria is often spared the strongest winds, due to proximity of the hills to south and southeast. These hills act as a block for the strong southerly winds. However, strong south winds will blow across the lowlands between the Pacific and Astoria. Surface winds often exceed gale force (50 mph or greater) and have commonly exceed 70 mph. Such strong winds predominately occur between October and March. The strongest winds occurred during the infamous Columbus Day storm of 1962, when south winds peaked at 104 mph.

Thunderstorms can occur during any month, but are not common. Thunderstorms in the winter and spring are weak, producing small hail and brief gusty winds. However, those in summer can produce prolific lightning, strong winds and larger hail. Occasionally, thunderstorms will produce funnel clouds, but tornadoes are rare. A few times per year, some funnels touch the ocean surface, resulting in a waterspout.

On average, the last occurrence of minimum temperatures of 32°F or colder in the spring is 25 March, while the first of autumn occurs near 15 November. However, minimum temperatures of 32°F have occurred as late in spring as 12 May (in 1985) and as early in autumn as 7 October (in 1983).

IV. Station Observing History.

Astoria's weather records date back to October 1850, with some breaks. In November 1883, the Weather Bureau established a station at Astoria, and the records have been nearly continuous since. In 1948, an experimental agriculture station, Astor Experimental Station, was created. This station, located about 3 miles to south of Astoria, just off the Nehalem Highway, near where the Wallooskee River empties into Youngs River. This station continued until 1973. This site provided supplemental data for our records when data from Astoria was incomplete.

Between 1883 and 1953, the Astoria station moved about several locations in downtown Astoria (*figure 3*). In 1953, the United States Weather Bureau (USWB) established a new first-order weather station at the Clatsop County Airport, located to the southwest of downtown Astoria on the west side of Youngs Bay. Staff now observed and recorded weather observations 24 hours per day. The primary reason for the new weather station was due to the increased air traffic along the coast. Many of the aircraft needed to land and refuel between the two cities. Astoria, like North Bend and Newport, became stopping points for aircraft. The new weather stations supplied weather information to pilots, making these pilot weather briefings a significant operation and the new offices. Old weather equipment was replaced, and other equipment such as wind anemometers and barometers were added. In



Fig 3: Observation sites around Astoria.

addition to the pilot weather briefings and weather data collection, the new Astoria weather office issued regular public and coastal marine weather forecasts and if necessary, local storm warnings.

On 1 March 1993, the Automated Surface Observing Station (ASOS) became fully operational. The National Weather Service (NWS) continued operations at Astoria through December 1995. Afterwards, weather forecasts, services and warning operations were transferred to the NWS office in Portland.

Climate data continue to be collected, but snowfall was no longer measured due to ASOS inability to measure snowfall and snow depth. Supplemental snow data for Astoria (1993-2005) was been provided via the data collected at the Fort Clatsop National Monument, located 1.6 miles southwest of the airport.

V. Updating this Study.

For future updates to the data in this study, refer to the latest climatic data published by the National Climatic for Environmental Information, or contact the National Weather Service in Portland.

Astoria climate and past weather data is also available on our website:

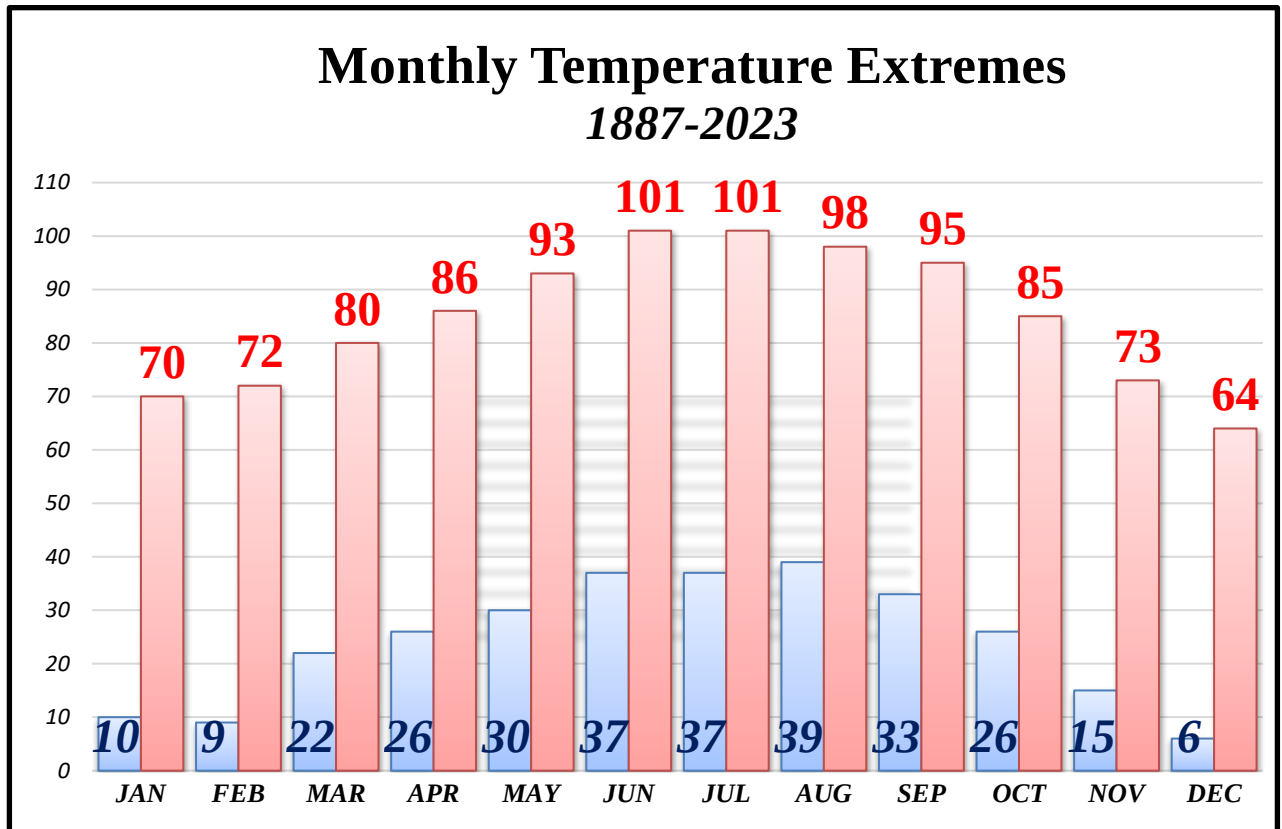
<http://weather.gov/Portland>

Following gives details on the movement of Astoria's weather equipment.

Astoria Observation Equipment History and Locations	Occupied		D I S T A N C E M O V E (mile)	L A T I T U D E	L O N G I T U D E	Elevation (in feet) Above								
	F R O M	T O				Sea Level	Ground							
						G R O U N D T E M P S	W I N D E Q U I P M	E X T R E M E T E M P	P S Y C H R O M E T E R	S U N S H I N E	T I P P I N G B U C K	W E I G H T I N G B U C	8 I N C H R A I N	H Y G R O T H E R M
Cooperative Sites														
Astoria sites n/a	1 Dec 1850	30 Nov 1883	n/a	46°11’	123°50’									
Pythian Building	1 Dec 1883	28 Feb 1897	n/a	46°11’	123°50’	15	60	39					56	
Savings Bank Bldg	9 Nov 1910	18 Jul 1916	n/a	46°11’	123°50’	16	10	64					64	
530 Bond St.	19 Jul 1916	26 Nov 1917	n/a	46°11’	123°50’	24	11							
Kinney Bldg. 510 Commercial	15 Jan 1918	11 May 1919	n/a	46°11’	123°50’	36	12							
Exchange St/12 th	26 Jun 1930	1 Aug 1942	n/a	46°11’	123°50’	10	18	14					14	
212 Harrison	5 Nov 1945	1 Jan 1961	0.5W	46°11’	123°50’	220	22							
Airport Sites														
Clatsop Airport	15 Nov 1946	15 Jan 1953	3 SW	46°09’	123°53’		67	5	4			4	4	
Clatsop Airport	15 Jan 1953	7 Oct 1964	none	46°09’	123°53’	8	46	6	5			4	4	4
Clatsop Airport	7 Oct 1964	11 Feb 1976	none	46°09’	123°53’	8	20	6	5			4	4	4
Clatsop Airport	11 Feb 1976	1 Mar 1993	400 ft S	46°09’	123°53’	8	20	5	5		5	5	4	4
Clatsop Airport (ASOS)	1 Mar 1993	present	none	46°09’	123°53’	9								
Supplemental Data Sites														
Astor Ex. Station	1 Jul 1948	1 Jul 1973	3 SE	48°08’	123°49’	39								
Ft. Clatsop Natl. Monument	1 Jul 1998	present	1.5 SW	48°08’	123°52’	42								

notes:

Astoria Temperature Data & Records



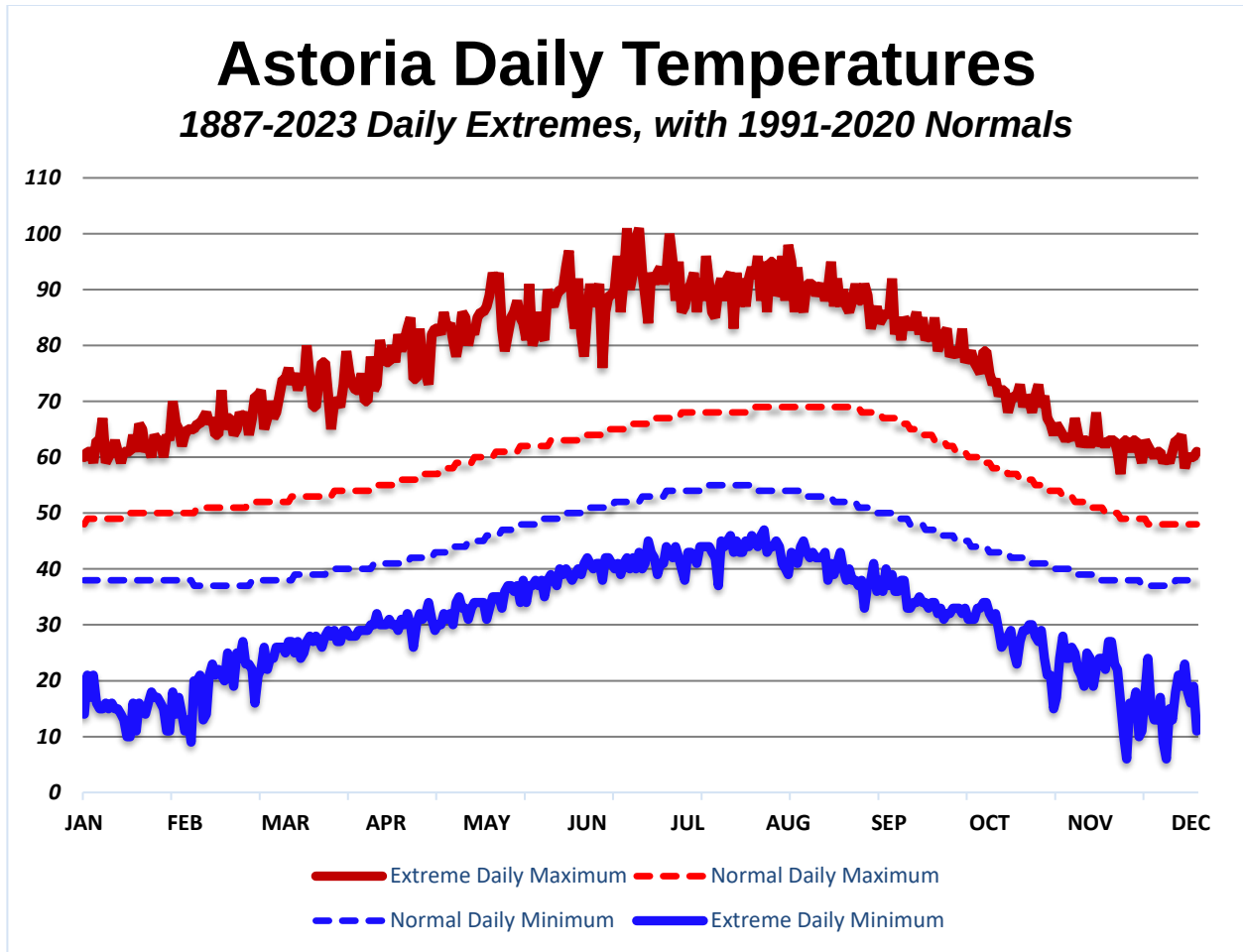
Astoria: Extremes Temperatures (1887-2023)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Warmest	70°	72°	80°	86°	93°	101°	101°	98°	95°	85°	73°	64°
date	30 th 1940	15 th 1996 ¹	14 th 1926	28 th 2023	14 th 2023 ¹	27 th 2021	1 st 1942	19 th 2016	2 nd 1972	6 th 1987	3 rd 2010 ¹	26 th 1980
Coldest	10°	9°	22°	26°	30°	37°	37°	39°	33°	26°	15°	6°
date	16 th 1888	5 th 1989	1 st 1971	18 th 1927	1 st 1954	4 th 1980	27 th 1930	19 th 1973	28 th 1983 ¹	28 th 1971	14 th 1955	21 st 1990 ¹

Warmest Recorded Temperature
Coldest Recorded Temperature

101° on 27 Jun 2021 and on 1 Jul 1942
6° on 21 Dec 1990, and 8 Dec 1972

¹ temperature has occurred more than once, with most recent occurrence listed.



Astoria Airport: Climatic Normals (1991-2020)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Max Temp	49.4	50.9	53.0	55.9	60.5	64.0	67.4	68.7	67.6	60.7	53.6	48.7	58.4
Min Temp	38.1	37.4	39.0	41.5	46.3	50.6	53.9	53.9	50.5	44.9	40.2	37.6	44.5
Mean Temp	43.7	44.2	46.0	48.7	53.4	57.3	60.6	61.3	59.0	52.8	46.9	43.2	51.4

ASTORIA: JANUARY Daily Temperature (°F) Records

	MAXIMUM (TX)				MINIMUM (TN)				1991-2020 Normals ¹				%days TN		% days TX		
	Warmest		Coolest		Warmest		Coolest		TX	TN	HD	CD	≤32	≤39	≤39	≥50	≥60
1	60	1981	29	1924	50	1997	14	1979	48	38	22	0	29	67	10	40	1
2	61	1981	32	1950	50	2003	21	1974	49	38	22	0	26	69	14	38	2
3	61	2020	30	1959	50	1903	17	1959	49	38	22	0	30	70	15	43	1
4	59	2001	29	1890	51	1914	21	1974	49	38	22	0	30	69	15	38	0
5	63	2006	29	1890	50	2006	16	1974	49	38	22	0	25	65	14	42	1
6	63	2003	30	1909	48	2009	15	1982	49	38	22	0	27	66	12	33	2
7	67	1986	29	1909	54	1896	15	1974	49	38	22	0	23	65	11	39	2
8	59	1934	30	1909	49	1933	16	1974	49	38	22	0	17	66	9	42	0
9	60	1941	26	1909	48	2006	15	1974	49	38	21	0	22	75	8	41	1
10	61	1986	26	1909	49	2014	16	1993	49	38	21	0	20	66	9	39	2
11	63	2010	26	1963	50	1991	15	1963	49	38	21	0	24	64	11	40	2
12	61	1986	25	1909	51	1991	15	1909	49	38	21	0	24	65	10	48	2
13	59	1941	29	2023	51	1973	14	1888	49	38	21	0	28	62	13	46	0
14	61	2018	22	1888	52	1961	13	1888	49	38	21	0	24	65	9	41	1
15	61	1965	19	1888	52	1974	10	1888	49	38	21	0	28	68	12	38	2
16	61	1944	16	1888	49	2011	10	1888	50	38	21	0	28	62	8	39	1
17	64	2018	30	1950	50	2018	16	1930	50	38	21	0	28	66	8	42	2
18	61	2009	26	1950	53	2005	11	1943	50	38	21	0	26	64	8	46	4
19	66	2005	28	1935	50	1981	16	1935	50	38	21	0	29	67	11	39	2
20	65	1961	29	1935	50	1972	15	1930	50	38	21	0	26	67	9	41	2
21	61	1981	30	1937	51	1981	14	1962	50	38	21	0	24	76	11	42	2
22	62	1981	29	1927	49	1981	16	1943	50	38	21	0	24	65	5	46	2
23	60	1968	32	1969	51	2020	18	1943	50	38	21	0	25	65	8	45	1
24	64	2006	30	1969	52	1935	17	1949	50	38	21	0	30	71	8	40	2
25	63	2015	30	1950	49	2003	17	1950	50	38	21	0	28	68	7	38	3
26	63	1983	28	1902	51	2003	16	1957	50	38	21	0	32	73	10	46	2
27	60	2024	31	1893	50	2024	15	1957	50	38	21	0	27	66	11	42	2
28	64	1940	29	1969	54	2024	11	1969	50	38	21	0	27	63	11	48	2
29	65	2024	27	1950	50	1992	11	1980	50	38	21	0	26	62	11	44	5
30	70	1940	30	1916	51	1995	18	1950	50	38	21	0	30	66	10	43	4
31	66	1940	25	1950	52	2020	14	1950	50	38	21	0	27	61	12	44	5
Extreme MAXIMUM				Extreme MINIMUM				Month Normals				January					
Warmest		Coolest		Warmest		Coldest		TX	TN	HD	CD						
70 1940		16 1888		54 1896		10 1888		49.4	38.1	659	0						

¹ Degree Days: HD is heating, CD is cooling. HD & CD: daily and monthly normals differ, as the monthly total is based on actual occurrences, rather than a normalized curve, as are the daily values. **Period of Record: 1887-2024.**

ASTORIA: FEBRUARY Daily Temperature (°F) Records

	MAXIMUM (TX)		MINIMUM (TN)		1991-2020 Normals ¹				%days TN		% days TX		
	Warmest	Coolest	Warmest	Coolest	TX	TN	HD	CD	≤32	≤39	≤39	≥50	≥60
1	65 1940	29 1950	49 1991	17 1950	50	38	21	0	32	61	9	51	4
2	62 1906	27 1989	48 2018	14 1989	50	38	21	0	27	64	10	48	2
3	64 2009	19 1989	52 1963	11 1989	50	38	21	0	25	64	8	47	5
4	65 1984	27 1899	50 1963	13 1989	50	38	21	0	21	59	7	52	8
5	65 1941	32 1899	50 2015	9 1989	50	38	21	0	24	60	5	50	5
6	65 1954	29 2014	50 2015	20 2014	50	38	21	0	23	59	4	52	9
7	66 1963	34 2014	50 2015	20 2014	51	37	21	0	23	68	2	56	5
8	66 1987	36 2014	50 1907	21 1994	51	37	21	0	26	68	2	56	6
9	67 2016	31 1933	50 2015	13 1933	51	37	21	0	30	67	4	51	4
10	68 1963	34 1939	50 1977	14 1933	51	37	21	0	26	63	2	54	5
11	66 1934	36 1923	52 1983	21 1905	51	37	21	0	17	67	3	56	6
12	67 1996	33 2021	49 2016	23 1905	51	37	21	0	22	63	3	51	8
13	64 2017	31 1923	52 1982	21 1949	51	37	21	0	22	68	5	53	5
14	64 1934	38 1936	51 2016	22 1990	51	37	21	0	28	66	3	53	5
15	72 1996	33 1900	51 1981	21 1956	51	37	21	0	17	60	2	58	6
16	65 1941	34 1900	52 1981	20 1956	51	37	21	0	11	57	3	62	6
17	67 1941	36 1936	50 1958	25 1985	51	37	21	0	14	57	2	56	5
18	67 1958	34 1936	51 1968	23 1955	51	37	21	0	20	60	2	58	8
19	64 1941	38 1936	53 1995	19 2006	51	37	21	0	18	60	1	58	8
20	65 1916	35 1894	49 1961	25 2011	51	37	21	0	19	65	2	60	5
21	68 1973	36 1894	48 2012	24 1894	51	37	21	0	18	71	2	65	7
22	67 1908	41 2022	54 1983	27 2018	51	37	21	0	19	63	0	63	8
23	68 2005	35 2023	50 1968	23 2018	51	37	21	0	19	68	2	60	6
24	64 1970	38 2011	52 1986	23 1962	52	37	21	0	21	64	1	65	7
25	67 1992	37 2011	51 1896	22 1890	52	38	21	0	19	61	1	63	9
26	71 1992	30 1890	51 1932	16 1890	52	38	20	0	18	58	1	58	10
27	71 1968	39 1890	52 1980	21 1962	52	38	20	0	17	58	0	65	7
28	72 1968	40 1923	52 2022	22 1960	52	38	20	0	17	64	0	61	8
29	65 1988	43 1976	47 1992	26 1960	52	38	20	0	6	65	0	52	3
Extreme MAXIMUM		Extreme MINIMUM		Month Normals				February					
Warmest	Coolest	Warmest	Coldest	TX	TN	HD	CD						
72 1996	19 1989	54 1983	9 1989	50.9	37.4	584	0						

¹ Degree Days: HD is heating, CD is cooling. HD & CD: daily and monthly normals differ, as the monthly total is based on actual occurrences, rather than a normalized curve, as are the daily values. **Period of Record: 1887-2023.**

ASTORIA: MARCH Daily Temperature (°F) Records

	MAXIMUM (TX)				MINIMUM (TN)				1991-2020 Normals ¹				%days TN		% days TX		
	Warmest		Coolest		Warmest		Coolest		TX	TN	HD	CD	≤32	≤39	≤49	≥60	≥70
1	67	1947	34	1896	52	1994	22	1971	52	38	20	0	21	67	33	8	0
2	70	1986	34	1896	49	1994	24	1896	52	38	20	0	20	61	38	8	1
3	67	1965	39	1896	53	1987	24	1989	52	38	20	0	21	62	38	7	0
4	68	1937	38	1935	51	1979	26	2019	52	38	20	0	20	68	34	7	0
5	71	1905	37	1951	50	2016	26	2019	52	38	20	0	15	63	38	7	1
6	74	1905	39	1951	49	1986	26	1943	52	38	20	0	20	65	27	11	2
7	74	1905	40	2002	49	2004	25	1974	52	38	20	0	17	63	29	11	1
8	76	1905	36	1923	51	1983	27	1974	52	38	20	0	17	58	32	18	1
9	73	1934	40	1951	53	1983	27	1969	53	38	20	0	14	53	27	14	2
10	75	1905	41	2006	50	1972	25	1969	53	39	20	0	18	58	29	8	3
11	72	1934	40	1906	52	2007	27	2019	53	39	19	0	18	60	28	10	1
12	74	1941	37	1906	52	1972	24	1897	53	39	19	0	15	56	33	10	2
13	73	1979	40	1903	50	1972	25	1969	53	39	19	0	15	60	38	14	3
14	80	1926	41	1921	54	1926	27	1969	53	39	19	0	12	55	34	10	2
15	74	1947	43	1923	50	1905	28	1988	53	39	19	0	12	54	27	9	1
16	69	1941	43	1923	48	1914	27	2021	53	39	19	0	11	60	18	12	0
17	69	2019	43	1894	49	1997	28	1906	53	39	19	0	15	56	24	15	0
18	74	2019	43	2012	54	1997	27	1971	53	39	19	0	10	57	21	18	2
19	77	2019	42	1952	52	1928	26	1965	53	39	19	0	11	54	20	18	2
20	77	1915	41	1966	50	1915	28	1955	53	39	19	0	11	58	24	15	3
21	71	1915	41	1935	50	2004	29	1971	53	40	19	0	11	57	27	15	2
22	65	1915	41	1907	49	1978	28	2001	53	40	19	0	8	53	24	11	0
23	70	1934	44	1923	48	1978	29	1973	54	40	18	0	8	60	22	5	1
24	70	1934	42	2018	49	1918	27	1964	54	40	18	0	10	59	24	13	1
25	69	1934	43	1920	49	1919	27	1996	54	40	18	0	10	57	19	9	0
26	73	1889	41	2008	55	1889	29	1996	54	40	18	0	8	53	21	10	1
27	79	1941	45	1998	52	1889	29	1991	54	40	18	0	8	49	22	15	4
28	75	1941	43	2008	52	1934	28	1987	54	40	18	0	8	43	18	18	3
29	73	1964	42	1897	52	1934	28	1938	54	40	18	0	3	49	18	19	2
30	72	1941	44	1936	50	1941	28	1954	54	40	18	0	8	45	18	18	2
31	72	1987	44	1920	50	1889	29	1936	54	40	18	0	7	40	15	18	2
	Extreme MAXIMUM				Extreme MINIMUM				Month Normals				March				
	Warmest		Coolest		Warmest		Coldest		TX	TN	HD	CD					
	80 1926		34 1896		55 1889		22 1971		53.0	39.0	589	0					

¹ Degree Days: HD is heating, CD is cooling. HD & CD: daily and monthly normals differ, as the monthly total is based on actual occurrences, rather than a normalized curve, as are the daily values. **Period of Record: 1887-2023.**

ASTORIA: APRIL Daily Temperature (°F) Records

	MAXIMUM (TX)				MINIMUM (TN)				1991-2020 Normals ¹				%days TN		% days TX		
	Warmest		Coolest		Warmest		Coolest		TX	TN	HD	CD	≤32	≤39	≤49	≥60	≥70
1	75	1944	43	1936	51	1915	29	1953	54	40	18	0	6	42	13	14	2
2	70	1942	44	1901	51	1915	29	2008	54	40	18	0	5	49	17	16	2
3	70	1966	42	1975	48	2019	29	2008	54	40	18	0	11	55	13	19	2
4	78	1966	45	1999	51	2013	30	2009	54	40	18	0	6	45	13	20	2
5	72	2007	45	1901	50	1942	30	2021	55	41	18	0	8	43	11	17	2
6	73	2009	47	2001	51	2018	32	1978	55	41	17	0	3	48	11	23	2
7	81	2016	45	1945	50	2016	30	2011	55	41	17	0	3	45	9	22	3
8	78	1909	46	1920	52	1996	30	1988	55	41	17	0	5	42	10	21	4
9	77	1959	46	1971	50	2016	30	2021	55	41	17	0	2	36	5	23	4
10	77	2004	47	2022	50	2002	31	1982	55	41	17	0	2	36	9	24	3
11	80	1904	44	1911	55	1951	30	2021	55	41	17	0	4	39	2	27	5
12	77	2008	47	1911	53	1904	30	1968	55	41	17	0	2	33	6	25	8
13	82	1926	46	1922	53	1904	29	1968	55	41	17	0	5	33	8	30	4
14	79	1947	45	1920	54	1926	31	2001	56	41	17	0	2	44	11	27	4
15	81	1947	45	1955	53	1897	30	1967	56	41	17	0	2	42	8	23	5
16	83	1999	47	1979	53	1999	32	1982	56	41	16	0	3	36	3	24	5
17	85	2016	48	1927	53	1936	30	1967	56	42	16	0	6	33	2	25	4
18	74	2016	48	1970	51	1994	26	1927	56	42	16	0	3	33	8	24	2
19	74	1956	45	1955	51	1997	30	1967	56	42	16	0	2	35	8	29	3
20	83	1956	44	1923	53	1906	32	2007	56	42	16	0	1	29	3	30	6
21	77	1982	47	2008	53	1934	31	1985	57	42	16	0	2	30	3	23	4
22	75	2005	45	1961	54	1934	32	1960	57	42	16	0	1	29	1	25	3
23	73	2018	48	2008	52	1934	34	2013	57	42	15	0	0	31	1	27	5
24	82	2018	47	1955	52	1905	31	1986	57	42	15	0	4	27	2	30	5
25	83	1941	48	1970	51	1978	29	1955	57	43	15	0	2	28	1	33	4
26	83	1987	48	1954	52	1992	30	1943	57	43	15	0	2	21	2	34	6
27	82	1926	44	1955	52	2015	30	1954	58	43	15	0	2	18	2	31	6
28	81	1925	45	2011	54	1981	32	1985	58	43	15	0	1	25	4	30	7
29	83	1908	49	1923	54	1931	31	1975	58	43	15	0	1	22	1	33	8
30	84	2014	47	1923	53	1908	32	1986	58	43	14	0	1	29	2	34	5
Extreme MAXIMUM				Extreme MINIMUM				Month Normals				April					
Warmest		Coolest		Warmest		Coldest		TX	TX	HD	CD						
85 2016		42 1975		55 1951		26 1927		55.9	41.5	489	0						

¹ Degree Days: HD is heating, CD is cooling. HD & CD: daily and monthly normals differ, as the monthly total is based on actual occurrences, rather than a normalized curve, as are the daily values. **Period of Record: 1887-2023.**

ASTORIA: MAY Daily Temperature (°F) Records

	MAXIMUM (TX)				MINIMUM (TN)				1991-2020 Normals ¹				%days TN		% days TX		
	Warmest		Coolest		Warmest		Coolest		TX	TN	HD	CD	≤32	≤39	≤59	≥70	≥80
1	81	2016	46	1923	56	2014	30	1954	58	44	14	0	2	19	64	8	2
2	78	1909	48	1955	54	1946	34	1948	59	44	14	0	0	17	63	4	0
3	81	1992	50	1965	56	1890	35	1980	59	44	14	0	0	21	64	8	2
4	86	1953	51	2023	58	1890	33	1969	59	44	14	0	0	14	59	8	2
5	85	2013	50	1971	54	1989	33	1949	59	44	13	0	0	14	62	11	1
6	80	1987	48	1887	55	1989	31	1965	59	45	13	0	1	15	58	10	2
7	83	1987	48	1887	54	1989	33	1985	59	45	13	0	0	14	56	8	2
8	82	2020	49	1901	53	2020	34	1990	60	45	13	<1	0	11	56	3	1
9	85	2019	51	1999	53	2020	34	2006	60	45	13	<1	0	12	60	5	1
10	86	1941	51	1887	57	1931	34	1967	60	45	13	<1	0	18	58	8	2
11	86	1997	52	2011	57	1931	34	2012	60	45	12	<1	0	14	51	10	2
12	87	1912	50	1968	56	1895	31	1985	60	46	12	<1	2	12	48	17	4
13	89	2023	50	1955	62	1912	33	1958	60	46	12	<1	0	14	47	15	5
14	93	2023	50	1894	55	2005	35	1964	60	46	12	<1	0	10	47	9	2
15	91	2006	51	1974	61	1897	35	1985	61	46	12	<1	0	5	45	11	3
16	93	2008	50	1923	63	2008	35	1986	61	46	12	<1	0	10	41	11	4
17	83	1958	50	1923	57	1952	33	1974	61	47	11	<1	0	5	47	9	2
18	79	1997	50	1927	55	2023	36	2003	61	47	11	<1	0	5	42	8	0
19	82	1889	52	1927	55	1993	37	2012	61	47	11	<1	0	7	41	8	2
20	85	1914	52	1930	55	1983	37	1909	61	47	11	<1	0	3	38	8	2
21	86	1914	50	1923	56	1914	36	1973	61	47	11	<1	0	5	44	9	2
22	88	1941	49	1923	55	1941	37	1960	61	47	11	<1	0	5	48	12	3
23	85	1999	51	2013	60	1894	34	1966	62	48	11	<1	0	5	35	11	2
24	84	1993	53	1998	56	1981	38	1923	62	48	10	<1	0	3	33	9	2
25	81	2005	52	1980	59	1986	34	1967	62	48	10	<1	0	5	31	10	2
26	91	2005	48	1923	57	2005	37	1998	62	48	10	<1	0	3	37	7	2
27	80	2003	53	1923	56	1997	37	1940	62	48	10	<1	0	4	36	7	1
28	82	1887	52	1909	58	1997	38	1973	62	48	10	<1	0	3	34	11	1
29	86	1887	50	1923	65	1887	37	1966	62	49	10	<1	0	3	39	12	2
30	82	1887	53	1923	60	1997	38	1943	62	49	10	<1	0	4	27	11	0
31	81	1978	51	1898	56	1997	35	1953	62	49	10	<1	0	2	25	13	2
	Extreme MAXIMUM				Extreme MINIMUM				Month Normals				May				
	Warmest		Coolest		Warmest		Coldest		TX	TN	HD	CD					
	93 2023		46 1923		65 1887		30 1954		60.5	46.3	361	2					

¹ Degree Days: HD is heating, CD is cooling. HD & CD: daily and monthly normals differ, as the monthly total is based on actual occurrences, rather than a normalized curve, as are the daily values. **Period of Record: 1887-2023.**

ASTORIA: JUNE Daily Temperature (°F) Records

	MAXIMUM (TX)		MINIMUM (TN)		1991-2020 Normals ¹				%days TN		% days TX		
	Warmest	Coolest	Warmest	Coolest	TX	TN	HD	CD	≤32	≤39	≤59	≥70	≥80
1	90 1970	49 1923	62 1919	38 1966	62	49	9	<1	0	2	25	11	2
2	88 1889	50 1923	60 1889	39 1987	63	49	9	<1	0	1	23	14	0
3	87 1889	54 2008	56 1957	38 1976	63	49	9	<1	0	1	24	15	2
4	89 1989	53 1911	60 1919	37 1980	63	49	9	<1	0	2	18	16	5
5	90 2003	53 1956	61 1897	40 2023	63	49	9	<1	0	0	23	21	6
6	90 1912	51 1924	63 1897	39 1933	63	50	9	<1	0	1	20	14	5
7	94 1903	54 1911	64 1903	40 1933	63	50	9	<1	0	0	17	14	2
8	93 1955	54 1964	59 1921	39 1933	63	50	9	<1	0	1	18	9	2
9	87 1924	55 1894	58 1958	38 1933	63	50	9	<1	0	2	21	11	1
10	83 1889	51 2008	58 1918	39 1973	63	50	8	<1	0	2	18	11	2
11	92 1940	53 1952	59 2009	40 1988	63	50	8	<1	0	0	15	11	2
12	82 2002	55 1955	58 1918	39 1949	64	50	8	<1	0	1	14	15	2
13	78 1917	52 1923	59 1919	41 2001	64	50	8	<1	0	0	15	9	0
14	86 1914	54 1911	58 1972	42 1949	64	50	8	<1	0	0	14	8	1
15	91 1966	57 1954	58 1997	41 1959	64	51	8	<1	0	0	11	9	3
16	87 1958	57 1976	59 1997	40 1955	64	51	8	<1	0	0	14	13	2
17	89 2004	57 2002	61 1919	41 1987	64	51	8	<1	0	0	11	15	3
18	91 1982	57 1998	62 1919	41 1991	64	51	8	<1	0	0	8	18	2
19	76 1946	57 1923	62 1919	38 1955	64	51	7	<1	0	1	6	14	0
20	86 1902	52 1991	61 1919	42 1947	65	51	7	<1	0	0	5	20	1
21	89 1990	57 1998	60 1919	42 1956	65	51	7	<1	0	0	10	15	2
22	89 1992	58 1998	60 1919	41 1965	65	51	7	<1	0	0	6	15	1
23	90 1926	57 1901	61 1919	40 1977	65	52	7	<1	0	0	5	16	2
24	96 1925	55 1971	61 1919	41 1988	65	52	7	<1	0	0	4	23	2
25	86 2022	55 1901	61 1925	39 1966	65	52	7	<1	0	1	3	21	5
26	92 2022	56 1975	60 1925	41 1976	65	52	7	<1	0	0	7	18	4
27	101 2021	57 1955	60 2021	42 1965	65	52	6	<1	0	0	5	17	4
28	90 1995	57 1988	60 2021	40 1985	66	52	6	<1	0	0	3	18	6
29	93 1908	58 1968	60 2021	42 1966	66	52	6	<1	0	0	5	19	5
30	99 1942	58 1998	65 1942	40 1985	66	52	6	<1	0	0	4	21	3
	Extreme MAXIMUM		Extreme MINIMUM		Month Normals				June				
	Warmest	Coolest	Warmest	Coolest	TX	TN	HD	CD					
	101 2021	49 1923	65 1942	37 1980	64.0	50.6	233	2					

¹ Degree Days: HD is heating, CD is cooling. HD & CD: daily and monthly normals differ, as the monthly total is based on actual occurrences, rather than a normalized curve, as are the daily values. **Period of Record: 1887-2023.**

ASTORIA: JULY Daily Temperature (°F) Records

	MAXIMUM (TX)		MINIMUM (TN)		1991-2020 Normals ¹				%days TN		% days TX		
	Warmest	Coolest	Warmest	Coolest	TX	TN	HD	CD	≤32	≤39	≤59	≥70	≥80
1	101 1942	57 1964	69 1942	43 1985	66	52	6	<1	0	0	5	22	5
2	93 1906	59 1998	61 1919	40 1949	66	53	6	<1	0	0	3	23	3
3	89 1972	57 1998	71 1906	41 1949	66	53	6	<1	0	0	5	19	2
4	84 1975	59 2006	59 2013	45 2012	66	53	6	<1	0	0	2	23	2
5	93 1908	59 1923	61 1896	43 1932	67	53	5	<1	0	0	1	22	2
6	91 1908	56 1923	59 2022	42 1932	67	53	5	<1	0	0	1	24	4
7	93 2010	56 1935	66 1919	39 1971	67	53	5	<1	0	1	2	34	3
8	94 1905	58 1935	68 1919	41 1900	67	53	5	<1	0	0	2	27	4
9	91 1926	59 1991	65 1919	41 1938	67	53	5	<1	0	0	2	27	6
10	93 1908	58 1887	65 1895	44 1967	67	54	5	<1	0	0	1	29	5
11	100 1961	60 2009	69 1906	43 2008	67	54	5	<1	0	0	0	27	4
12	95 1906	60 2009	63 1906	42 1950	67	54	5	<1	0	0	0	31	4
13	88 1935	61 2014	65 1935	44 1954	67	54	5	<1	0	0	0	34	5
14	95 1941	60 1962	62 1941	42 1970	67	54	5	<1	0	0	0	34	7
15	86 1979	57 2001	61 2019	40 1930	68	54	4	<1	0	0	2	37	4
16	87 1979	60 1974	60 2019	38 1930	68	54	4	<1	0	1	0	31	6
17	90 1908	61 2008	64 1912	43 1930	68	54	4	<1	0	0	0	36	5
18	91 1913	60 2010	60 1979	43 1986	68	54	4	<1	0	0	0	38	6
19	93 1988	61 1952	61 2002	42 1977	68	54	4	<1	0	0	0	40	8
20	86 1946	60 2010	68 1946	41 1930	68	54	4	<1	0	0	0	37	7
21	92 1980	60 1912	61 1916	44 1966	68	54	4	<1	0	0	0	36	4
22	88 1891	61 2010	62 2007	44 1977	68	55	4	<1	0	0	0	38	4
23	96 2004	61 1955	64 1891	44 1977	68	55	4	<1	0	0	0	37	5
24	91 1928	60 1887	61 1891	44 2008	68	55	4	<1	0	0	0	34	3
25	86 1899	61 1924	60 2016	43 1930	68	55	4	<1	0	0	0	31	4
26	85 1899	60 1961	61 1920	42 1930	68	55	4	<1	0	0	0	34	5
27	90 1958	60 1948	60 2000	37 1930	68	55	4	<1	0	1	0	34	3
28	92 2009	60 2010	64 1916	45 2008	68	55	4	<1	0	0	0	34	4
29	88 1908	60 1901	61 2000	44 1959	68	55	4	<1	0	0	0	37	3
30	92 1959	60 2010	60 2000	45 1949	68	55	4	<1	0	0	0	37	3
31	93 1913	60 1962	61 2000	46 1970	68	55	4	<1	0	0	0	37	3
Extreme MAXIMUM		Extreme MINIMUM		Month Normals				July					
Warmest	Coolest	Warmest	Coldest	TX	TN	HD	CD						
101 1942	56 1935	71 1906	37 1930	67.4	53.9	140	5						

¹ Degree Days: HD is heating, CD is cooling. HD & CD: daily and monthly normals differ, as the monthly total is based on actual occurrences, rather than a normalized curve, as are the daily values. **Period of Record: 1887-2023.**

ASTORIA: AUGUST Daily Temperature (°F) Records

	MAXIMUM (TX)		MINIMUM (TN)		1991-2020 Normals ¹				%days TN		% days TX		
	Warmest	Coolest	Warmest	Coolest	TX	TN	HD	CD	≤32	≤39	≤59	≥70	≥80
1	83 2017	60 1954	62 2019	43 1987	68	55	4	<1	0	0	0	37	1
2	93 2017	57 1956	60 1994	45 1969	68	55	4	<1	0	0	1	43	3
3	87 1993	61 1992	62 2023	43 1969	68	55	4	<1	0	0	0	47	5
4	92 2012	61 1911	61 1971	43 1982	68	55	4	<1	0	0	0	40	5
5	87 1932	60 2003	60 2000	45 1982	68	55	4	<1	0	0	0	42	3
6	92 1940	61 1995	61 2023	44 1959	68	55	4	<1	0	0	0	41	6
7	94 1978	62 1907	63 2023	46 1946	68	55	4	<1	0	0	0	40	8
8	92 1939	61 2010	61 1925	45 1988	69	55	4	<1	0	0	0	37	6
9	96 1981	59 1911	60 1976	44 1975	69	54	4	<1	0	0	1	44	7
10	88 1977	57 1911	60 2016	46 1970	69	54	4	<1	0	0	1	38	6
11	95 1992	60 1945	61 1992	47 1966	69	54	4	<1	0	0	0	41	4
12	86 1935	59 1911	61 1935	43 1966	69	54	4	<1	0	0	2	40	5
13	95 2002	61 1968	61 2015	44 2020	69	54	4	<1	0	0	0	45	4
14	95 2023	60 1899	62 1897	44 1984	69	54	4	<1	0	0	0	38	6
15	89 1919	60 1976	62 2019	45 1982	69	54	4	<1	0	0	0	38	5
16	90 1927	59 1912	61 2019	44 1973	69	54	4	<1	0	0	1	41	5
17	96 1940	60 2012	60 2022	41 1973	69	54	4	<1	0	0	0	39	4
18	88 2016	60 1901	61 2004	40 1973	69	54	4	<1	0	0	0	39	5
19	98 2016	59 1975	62 2022	39 1973	69	54	4	<1	1	0	1	37	5
20	95 1915	57 1908	64 1915	43 1947	69	54	4	<1	0	0	2	39	6
21	86 2018	60 2006	64 1936	42 1988	69	54	4	<1	0	0	0	44	4
22	94 1942	56 1919	61 1911	41 1987	69	54	4	<1	0	0	2	38	8
23	88 1911	60 1960	70 1916	44 1959	69	54	4	<1	0	0	0	39	5
24	86 1964	60 1963	61 2004	45 1992	69	53	4	<1	0	0	0	39	7
25	91 2016	59 1938	61 1936	43 1992	69	53	4	<1	0	0	1	40	4
26	91 2016	59 1899	60 2022	42 1991	69	53	4	<1	0	0	1	40	7
27	91 2019	60 1910	66 1935	43 1955	69	53	4	<1	0	0	0	42	7
28	89 1909	59 1991	67 1894	42 1985	69	53	4	<1	0	0	1	42	5
29	90 1936	60 1946	65 1894	42 1985	69	53	4	<1	0	0	0	33	8
30	91 1918	60 1922	64 1918	42 1920	69	53	4	<1	0	0	0	31	6
31	88 1942	59 1928	64 1918	43 1973	69	53	4	<1	0	0	1	37	8
Extreme MAXIMUM		Extreme MINIMUM		Month Normals				August					
Warmest	Coolest	Warmest	Coldest	TX	TN	HD	CD						
98 2016	56 1919	70 1916	39 1973	68.7	53.9	122	7						

¹ Degree Days: HD is heating, CD is cooling. HD & CD: daily and monthly normals differ, as the monthly total is based on actual occurrences, rather than a normalized curve, as are the daily values. **Period of Record: 1887-2023.**

ASTORIA: SEPTEMBER Daily Temperature (°F) Records

	MAXIMUM (TX)		MINIMUM (TN)		1991-2020 Normals ¹				%days TN		% days TX		
	Warmest	Coolest	Warmest	Coolest	TX	TN	HD	CD	≤32	≤39	≤59	≥70	≥80
1	90 1972	57 1914	60 2019	38 1973	69	53	4	<1	0	1	2	40	5
2	95 1972	60 1928	64 1931	41 1984	69	53	5	<1	0	0	0	40	7
3	87 2017	58 1988	63 1931	39 1956	69	52	5	<1	0	1	2	36	6
4	92 1955	60 1959	64 1896	41 1956	69	52	5	<1	0	0	0	39	6
5	87 2014	58 1970	59 2007	43 1969	69	52	5	<1	0	0	5	32	5
6	90 1958	56 1947	63 1898	40 1992	69	52	5	<1	0	0	2	28	5
7	87 1958	59 1964	64 1907	38 1992	69	52	5	<1	0	2	1	33	5
8	86 1940	58 1914	67 1907	40 1988	69	52	5	<1	0	0	1	33	8
9	88 1948	58 1920	61 1948	38 1970	69	52	5	<1	0	0	1	37	8
10	91 1922	57 1993	63 1922	38 1970	69	52	5	<1	0	2	2	44	10
11	88 2009	56 1928	65 1922	37 1988	69	51	5	<1	0	1	7	36	8
12	88 1924	59 1927	60 1999	38 1986	68	51	6	<1	0	1	1	32	8
13	91 1957	58 1914	60 2013	33 1970	68	51	6	<1	0	1	2	34	11
14	89 1967	58 1988	65 1912	37 1986	68	51	6	<1	0	2	2	23	8
15	83 1919	57 1955	60 2020	38 1969	68	51	6	<1	0	1	4	28	3
16	85 1994	56 1910	60 2020	41 1978	68	51	6	<1	0	0	5	28	2
17	87 1889	56 1944	60 2016	36 1965	68	50	6	<1	0	1	3	25	4
18	84 1889	57 1893	62 2000	38 1988	68	50	6	<1	0	4	3	25	3
19	85 1939	57 2012	60 2000	36 1983	67	50	7	<1	0	2	7	22	5
20	86 2014	57 2006	63 1939	40 1985	67	50	7	<1	0	0	5	28	3
21	85 1994	58 1920	60 1995	37 1960	67	50	7	<1	0	3	6	29	14
22	92 2009	57 1984	61 2011	39 1956	67	50	7	<1	0	1	5	30	11
23	82 1974	55 1948	59 2014	36 2005	67	49	7	<1	0	3	7	27	3
24	85 1991	52 1924	61 1991	36 1970	66	49	7	<1	0	3	8	27	7
25	81 1899	55 1920	60 1922	38 1972	66	49	8	<1	0	2	7	25	2
26	85 1967	56 1893	60 2010	38 1908	66	49	8	<1	0	2	6	24	5
27	84 2017	53 1922	60 2010	33 1972	66	49	8	<1	0	3	8	28	4
28	83 1989	54 1972	58 1888	33 1983	65	48	8	<1	0	1	9	29	3
29	84 1987	54 2019	59 2000	34 1983	65	48	8	<1	0	5	14	22	3
30	86 1987	54 1898	59 2000	34 1985	65	48	9	<1	0	6	11	15	3
Extreme MAXIMUM		Extreme MINIMUM		Month Normals				September					
Warmest	Coolest	Warmest	Coldest	TX	TN	HD	CD						
95 1972	52 1924	67 1907	33 1983	67.6	50.5	185	6						

¹ Degree Days: HD is heating, CD is cooling. HD & CD: daily and monthly normals differ, as the monthly total is based on actual occurrences, rather than a normalized curve, as are the daily values. **Period of Record: 1887-2023.**

ASTORIA: OCTOBER Daily Temperature (°F) Records

	MAXIMUM (TX)		MINIMUM (TN)		1991-2020 Normals ¹				%days TN		% days TX		
	Warmest	Coolest	Warmest	Coolest	TX	TN	HD	CD	≤32	≤39	≤49	≥60	≥70
1	82 2022	54 1919	58 1917	35 2019	65	48	9	<1	0	5	0	86	16
2	85 1980	54 2013	60 1980	34 1968	64	48	9	0	0	7	0	81	14
3	81 1932	53 1928	58 1932	34 1989	64	47	9	0	0	9	0	80	9
4	82 1942	54 1957	62 1899	33 1973	64	47	10	0	0	6	0	82	19
5	81 2015	55 1973	57 1917	34 1992	64	47	10	0	0	7	0	83	25
6	85 1987	49 1973	57 2023	34 1949	63	47	10	0	0	9	1	82	22
7	79 1945	54 2018	59 1984	32 1983	63	47	10	0	1	5	0	77	12
8	81 1971	52 1926	58 1984	33 1985	63	46	11	0	0	6	0	76	12
9	82 1936	55 2008	57 2010	31 1985	63	46	11	0	1	8	0	71	14
10	83 1991	54 1955	58 2015	32 2019	62	46	11	0	1	8	0	68	11
11	78 1987	51 1945	58 1918	32 2008	62	46	11	0	1	8	0	60	9
12	79 1939	52 1968	56 1940	33 2021	62	46	11	0	0	11	0	63	9
13	79 1982	55 1986	57 2016	33 1966	61	45	12	0	0	12	0	66	10
14	78 1978	53 2006	56 2012	33 2017	61	45	12	0	0	11	0	66	13
15	83 2022	53 1984	58 1988	32 1992	61	45	12	0	2	15	0	65	11
16	77 2018	50 1986	58 1978	33 1983	61	45	12	0	0	19	0	59	8
17	78 1942	49 1920	59 1940	31 1984	60	45	13	0	1	18	1	59	8
18	79 1978	51 1984	58 2003	31 1949	60	44	13	0	1	15	0	56	8
19	77 1938	50 1949	58 1940	31 1949	60	44	13	0	2	10	0	59	5
20	76 1938	52 1996	62 2003	33 1949	60	44	13	0	0	12	0	52	5
21	75 1998	48 2012	58 2003	33 1957	59	44	13	0	0	15	1	47	11
22	79 1937	49 2012	58 1959	34 2020	59	44	14	0	0	13	1	52	9
23	79 1929	48 1900	57 1959	34 1991	59	44	14	0	0	16	1	47	8
24	75 1941	46 1939	56 1889	32 1954	59	43	14	0	1	15	2	47	3
25	73 1901	46 1939	58 1986	31 1939	58	43	14	0	2	16	2	44	2
26	74 1908	46 1946	57 1906	32 1996	58	43	14	0	2	19	2	40	3
27	71 2017	48 1975	58 1906	29 1971	58	43	15	0	2	16	3	38	2
28	72 1962	44 1991	55 1937	26 1971	58	43	15	0	2	23	3	29	2
29	72 1958	47 1935	57 2015	27 1971	58	43	15	0	5	25	3	31	1
30	68 1949	42 1935	59 2015	28 1935	57	43	15	0	6	25	3	28	0
31	70 1954	44 1955	56 2015	29 2019	57	42	15	0	5	27	5	24	1
Extreme MAXIMUM		Extreme MINIMUM		Month Normals				October					
Warmest	Coolest	Warmest	Coldest	TX	TN	HD	CD						
85 1987+	42 1935	62 2003	26 1971	60.7	44.9	378	<1						

¹ Degree Days: HD is heating, CD is cooling. HD & CD: daily and monthly normals differ, as the monthly total is based on actual occurrences, rather than a normalized curve, as are the daily values. **Period of Record: 1887-2023.**

ASTORIA: NOVEMBER Daily Temperature (°F) Records

	MAXIMUM (TX)		MINIMUM (TN)		1991-2020 Normals ¹				%days TN		% days TX		
	Warmest	Coolest	Warmest	Coolest	TX	TN	HD	CD	≤32	≤39	≤39	≥50	≥60
1	71 1969	43 1935	57 2018	25 1935	57	42	16	0	7	30	0	92	25
2	71 1970	43 2003	54 1985	23 1935	57	42	16	0	8	28	0	95	20
3	73 2010	44 1973	56 2006	27 2003	56	42	16	0	5	26	0	97	23
4	69 1923	44 2003	57 2020	29 1961	56	42	16	0	5	32	0	95	23
5	71 1923	45 1973	54 2016	29 1971	56	42	16	0	5	27	0	95	19
6	70 1923	48 1973	58 1999	30 1957	56	42	16	0	3	23	0	95	18
7	68 1923	42 1945	57 2008	30 1993	56	41	17	0	3	28	0	92	16
8	71 2016	45 1915	54 1999	28 2020	55	41	17	0	5	38	0	91	17
9	73 1907	43 1985	56 1990	27 2020	55	41	17	0	5	35	0	85	16
10	69 1907	45 1978	57 1990	29 2012	55	41	17	0	6	37	0	85	17
11	71 1999	35 1911	57 1999	24 1978	55	41	17	0	8	34	1	85	15
12	67 1907	31 1955	56 1999	21 1955	54	41	18	0	8	35	1	88	12
13	66 1999	32 1955	57 1999	21 1955	54	41	18	0	8	33	1	87	8
14	64 2001	29 1955	57 1999	15 1955	54	40	18	0	9	41	1	84	7
15	66 2004	27 1955	55 1999	17 1955	54	40	18	0	9	40	1	84	6
16	65 1976	30 1955	53 1976	24 1955	54	40	18	0	8	37	2	79	9
17	64 1908	44 1977	54 1932	28 1994	53	40	18	0	7	40	0	83	8
18	63 1925	41 1977	55 2003	24 1994	53	40	19	0	9	38	0	76	5
19	64 1987	39 1900	53 1999	24 1977	53	40	19	0	12	45	1	79	4
20	63 1987	33 1900	52 1958	26 2011	53	40	19	0	15	47	2	68	2
21	67 1917	36 1900	50 1981	25 1985	52	39	19	0	15	52	2	68	4
22	64 2017	33 1985	57 2017	22 1985	52	39	19	0	15	50	3	73	2
23	62 1956	31 2010	55 1986	21 1985	52	39	20	0	14	50	2	76	2
24	63 1936	31 2010	54 2004	19 1985	52	39	20	0	12	51	2	72	4
25	63 2017	37 1896	56 1999	25 1985	52	39	20	0	13	52	1	69	4
26	62 2017	34 1896	54 1899	24 1896	51	39	20	0	14	51	1	66	4
27	63 2002	31 1896	55 2014	19 1896	51	39	20	0	18	54	2	70	4
28	68 1907	33 1985	55 1995	22 1896	51	39	20	0	20	51	2	65	4
29	62 1999	32 1985	52 2008	24 2019	51	38	20	0	16	53	2	63	2
30	63 1901	29 1985	54 1964	24 1985	51	38	21	0	12	48	2	66	3
Extreme MAXIMUM		Extreme MINIMUM		Month Normals				November					
Warmest	Coolest	Warmest	Coldest	TX	TN	HD	CD						
73 2010	27 1955	58 1999	15 1955	53.6	40.2	543	0						

¹ Degree Days: HD is heating, CD is cooling. HD & CD: daily and monthly normals differ, as the monthly total is based on actual occurrences, rather than a normalized curve, as are the daily values. **Period of Record: 1887-2023.**

ASTORIA: DECEMBER Daily Temperature (°F) Records

	MAXIMUM (TX)		MINIMUM (TN)		1991-2020 Normals ¹				%days TN		% days TX		
	Warmest	Coolest	Warmest	Coolest	TX	TN	HD	CD	≤32	≤39	≤39	≥50	≥60
1	62 1958	29 1985	52 1975	22 1985	50	38	21	0	12	44	2	62	4
2	63 1940	41 1970	53 1975	27 1976	50	38	21	0	8	55	0	64	3
3	63 2015	37 1948	54 2007	27 2013	50	38	21	0	14	59	1	60	5
4	63 1939	34 1972	53 1989	23 2013	50	38	21	0	12	56	4	51	2
5	61 2020	29 1972	50 2023	22 2013	50	38	21	0	15	64	3	54	2
6	57 2015	30 1972	50 2015	16 1972	49	38	21	0	18	57	3	52	0
7	63 1939	26 1972	51 1976	10 1972	49	38	22	0	16	58	5	54	1
8	63 1939	27 1972	56 2015	6 1972	49	38	22	0	14	57	5	56	3
9	61 2014	31 2013	54 2014	16 2009	49	38	22	0	11	60	5	56	4
10	63 2014	25 1919	51 1933	15 1972	49	38	22	0	13	55	4	50	2
11	63 2014	26 1919	51 1999	18 1919	49	38	22	0	20	55	4	53	1
12	61 2002	24 1919	52 2010	10 1919	49	38	22	0	24	58	2	51	1
13	59 1969	27 1919	51 1977	11 1972	49	37	22	0	20	53	5	50	0
14	63 2018	29 1919	51 1979	18 1919	49	37	22	0	18	60	5	46	3
15	62 1980	33 2008	53 1999	24 1965	48	37	22	0	21	58	5	41	1
16	61 1980	35 1964	51 2009	15 1964	48	37	22	0	20	68	5	42	1
17	60 1979	26 1924	50 1979	13 1924	48	37	22	0	54	58	6	43	1
18	61 1981	23 1924	50 1979	13 1924	48	37	22	0	26	61	7	46	2
19	61 1981	29 1924	52 1972	17 1924	48	37	22	0	22	58	7	47	1
20	59 2018	22 1990	52 1974	9 1990	48	37	22	0	18	59	7	51	0
21	60 1980	21 1990	52 1919	6 1990	48	37	22	0	19	64	7	45	2
22	59 1999	24 1990	52 2005	15 1983	48	37	22	0	20	63	8	42	0
23	61 2005	26 1983	48 1933	13 1983	48	37	22	0	23	67	7	43	1
24	63 1963	28 1983	56 2005	18 1983	48	38	22	0	19	67	6	39	2
25	63 1980	35 1990	57 1980	21 1924	48	38	22	0	24	66	4	43	1
26	64 1980	31 1924	57 1980	19 1924	48	38	22	0	25	70	4	39	2
27	58 2022	31 2021	52 1897	23 1985	48	38	22	0	18	72	4	42	0
28	60 1980	34 1971	51 1897	18 1978	48	38	22	0	24	67	9	36	1
29	60 1920	26 1990	50 1995	16 1990	48	38	22	0	24	69	7	37	1
30	60 1980	23 1968	51 1980	19 1990	48	38	22	0	29	72	10	32	2
31	61 1996	25 1978	50 1963	11 1978	48	38	22	0	29	66	11	34	1
Extreme MAXIMUM		Extreme MINIMUM		Month Normals				December					
Warmest	Coolest	Warmest	Coldest	TX	TN	HD	CD						
64 1980	21 1990	57 1980	6 1990	48.7	37.6	677	0						

¹ Degree Days: HD is heating, CD is cooling. HD & CD: daily and monthly normals differ, as the monthly total is based on actual occurrences, rather than a normalized curve, as are the daily values. **Period of Record: 1887-2023.**

ASTORIA: Cumulative Temperature Frequencies

(based on 1887-2023 data)

Maximum Temperature

How to use: MAXIMUM temperature in June is ≥ 70 deg 14% of the time, **or** < 70 deg 86% of the time.

Max	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
≥ 105	-	-	-	-	-	-	-	-	-	-	-	-	0
≥ 100	-	-	-	-	-	~0	~0	-	-	-	-	-	~0
≥ 95	-	-	-	-	-	~0	~0	~0	~0	-	-	-	~0
≥ 90	-	-	-	-	~0	~0	~0	~0	~0	-	-	-	~0
≥ 85	-	-	-	~0	~0	1	1	2	1	~0	-	-	~0
≥ 80	-	-	~0	~0	1	2	4	5	5	~0	-	-	1
≥ 75	-	-	~0	1	4	5	10	12	12	3	~0	-	4
≥ 70	~0	~0	1	3	9	14	31	39	29	8	~0	-	11
≥ 65	~0	1	4	10	21	45	81	86	65	22	1	0	28
≥ 60	1	6	12	25	54	87	99	99	95	58	10	1	46
≥ 55	10	19	31	57	89	99	100	100	99	92	43	11	62
≥ 50	41	55	73	94	99	99	100	100	100	99	80	47	82
≥ 45	72	86	96	99	100	100	100	100	100	99	96	80	94
≥ 40	89	96	99	100	100	100	100	100	100	100	99	94	98
≥ 35	96	99	99	100	100	100	100	100	100	100	99	98	~100
≥ 30	99	99	100	100	100	100	100	100	100	100	99	99	~100
≥ 25	99	99	100	100	100	100	100	100	100	100	100	99	~100
≥ 20	100	~100	100	100	100	100	100	100	100	100	100	100	~100
Climatic normal monthly maximum temperatures (1991-2020 normals)													
MAX	49.4	50.9	53.0	55.9	60.5	64.0	67.4	68.7	67.6	60.7	53.6	48.7	58.4

Minimum Temperatures

How to use: MINIMUM temperature in March is ≥ 40 deg 43% of the time, **or** < 40 deg 57% of the time

Min	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
≥ 70	-	-	-	-	-	-	~0	~0	-	-	-	-	~0
≥ 65	-	-	-	-	~0	~0	~0	~0	~0	-	-	-	~0
≥ 60	-	-	-	-	~0	~0	2	3	1	~0	-	-	~0
≥ 55	-	-	~0	~0	1	11	37	43	19	4	~0	~0	10
≥ 50	~0	1	1	3	19	58	84	86	60	28	7	1	29
≥ 45	10	10	12	24	61	91	98	98	89	61	29	12	50
≥ 40	33	36	43	65	90	99	99	99	98	86	60	38	71
≥ 35	62	67	77	92	99	100	100	100	99	97	84	69	87
≥ 30	86	90	96	99	100	100	100	100	100	99	96	92	96
≥ 25	94	97	99	100	100	100	100	100	100	100	99	97	99
≥ 20	98	99	100	100	100	100	100	100	100	100	99	98	99
≥ 15	99	99	100	100	100	100	100	100	100	100	100	99	99
≥ 10	100	~100	100	100	100	100	100	100	100	100	100	99	~100
≥ 5	100	100	100	100	100	100	100	100	100	100	100	100	100
Climatic normal monthly minimum temperatures (1991-2020 normals)													
MIN	38.1	37.4	39.0	41.5	46.3	50.6	53.9	53.9	50.5	44.9	40.2	37.6	44.5

Days per Month with...

format: days in the month / years of those occurrence(s)

	MAXIMUM Temperature of...								
	≥ 90° F			≥ 80° F			≤ 32° F		
	N ¹	Most	Least	N ¹	Most	Least	N ¹	Most	Least
Jan	0	--	--	0	--	--	0	10 / 1950	0 / 2023 ⁺
Feb	0	--	--	0	--	--	0	4 / 1899	0 / 2023 ⁺
Mar	0	--	--	0	1 / 1926	0 / 2023 ⁺	0	--	--
Apr	0	--	--	0	3 / 1947 ⁺	0 / 2022 ⁺	0	--	--
May	<1	1 / 2023 ⁺	0 / 2022 ⁺	1	4 / 1887	0 / 2022 ⁺	0	--	--
Jun	<1	2 / 1995 ⁺	0 / 2023 ⁺	1	5 / 1889	0 / 2023 ⁺	0	--	--
Jul	<1	5 / 1908	0 / 2023 ⁺	1	13 / 1908	0 / 2021 ⁺	0	--	--
Aug	<1	3 / 2016 ⁺	0 / 2022 ⁺	1	7 / 1942 ⁺	0 / 2014 ⁺	0	--	--
Sep	<1	2 / 1972	0 / 2023 ⁺	2	8 / 1989	0 / 2019 ⁺	0	--	--
Oct	0	--	--	0	2 / 2022 ⁺	0 / 2021 ⁺	0	--	--
Nov	0	--	--	0	--	--	0	5 / 1955	0 / 2023 ⁺
Dec	0	--	--	0	--	--	0	8 / 1972	0 / 2023 ⁺
Year (Jan-Dec)	1	6 / 1942 ⁺	0 / 2020 ⁺	6	26 / 1908	0 / 1998 ⁺	<1	13 / 1950	0 / 2023 ⁺
Winter Season (July to June) →							<1	13 days 1949-50	0 in 2020-21 ⁺

	MINIMUM Temperature of...								
	≥ 60° F			≤ 32° F			≤ 20° F		
	N ¹	Most	Least	N ¹	Most	Least	N ¹	Most	Least
Jan	0	--	--	6	31 / 1949	0 / 2018 ⁺	<1	9 / 1950	0 / 2023 ⁺
Feb	0	--	--	7	17 / 1936	0 / 2016 ⁺	<1	4 / 1989	0 / 2023 ⁺
Mar	0	--	--	4	17 / 1954	0 / 2010 ⁺	0	--	--
Apr	0	--	--	1	9 / 1967	0 / 2022 ⁺	0	--	--
May	0	2 / 1997 ⁺	0 / 2023 ⁺	0	1 / 2013 ⁺	0 / 2023 ⁺	0	--	--
Jun	<1	11 / 1919	0 / 2023 ⁺	0	--	--	0	--	--
Jul	1	8 / 2015	0 / 2023 ⁺	0	--	--	0	--	--
Aug	1	11 / 1894	0 / 2020 ⁺	0	--	--	0	--	--
Sep	1	4 / 2020 ⁺	0 / 2023 ⁺	0	--	--	0	--	--
Oct	<1	1 / 2003 ⁺	0 / 2023 ⁺	1	5 / 2019	0 / 2022 ⁺	0	--	--
Nov	0	--	--	4	17 / 1985	0 / 2017 ⁺	0	2 / 1955	0 / 2023 ⁺
Dec	0	--	--	7	20 / 1985	0 / 2001 ⁺	<1	7 / 1990 ⁺	0 / 2023 ⁺
Year (Jan-Dec)	3	21 / 1919	0 / 2018 ⁺	29	90 / 1985	2 / 1934	1	17 / 1972	0 / 2023 ⁺
Winter Season (July to June) →				29	73 days 1948-49	1 day 1933-34	1	21 days 1948-49	0 days 2022-23 ⁺

¹1991-2020 Normals. Normals for year/season are based on total in a year occurrences, not sum of all the months of the year.

⁺Multiple occurrences. Year of last occurrence listed. Period of Record: 1887 to 2023.

Heat Waves and Cold Snaps¹

Consecutive Days with MAXIMUM Temperature						
	≥ 70°		≥ 80°		≥ 90°	
	days	year(s)	days	year(s)	days	year(s)
Jan	1	1940	0	-	0	-
Feb	2	1968	0	-	0	-
Mar	6	1905	1	1926	0	-
Apr	4	1947+	2	1947	0	-
May	6	1940+	3	1912	1	2023+
Jun	11	1940	4	1908	2	1995+
Jul	21	1936	4	1895	3	1908
Aug	27	1930	5	1981+	2	2023+
Sep	17	1929	5	1989	2	1972
Oct	7	1937+	2	1964+	0	-
Nov	2	1970+	0	-	0	-
Dec	0	-	0	-	0	-
Year	39	1936	5	1989+	3	1908

Consecutive Days with MINIMUM Temperature						
	≤ 32°		≤ 20°		≥ 60°	
	days	year	days	year	days	year
Jan	31	1949	5	1974	0	-
Feb	14	1949	4	1989	0	-
Mar	11	1951	0	-	0	-
Apr	4	1966	0	-	0	-
May	1	2013+	0	-	2	1997
Jun	0	-	0	-	9	1919
Jul	0	-	0	-	5	2015+
Aug	0	-	0	-	7	1894
Sep	0	-	0	-	3	1907
Oct	4	2019	0	-	1	2003+
Nov	8	2015+	2	1955	0	-
Dec	14	2011+	5	2009+	0	-
Year	45	1949	5	2009+	9	1919
Winter	45	1949-50	5	2009-10+		

⁺most recent year of multiple occurrences

¹for period of record: 1887 through 2023

Consecutive Days with... Dates

Highs of 1 day June 27, 2021
 ≥ 100°F 1 July 11, 1961
 1 July 1, 1942

Only 3 times temperature ≥100° on record

Highs of 3 days Jul 5-7, 1908
 ≥ 90°F 2 Aug 13-14, 2023
 2 Aug 25-26, 2016
 2 *occurred 7 other times*

Highs of 5 Sep 9-13, 1989
 ≥ 80°F 5 Aug 6-10, 1981
 5 Jun 27-Jul 1, 1908
 5 Aug 26-30, 1894
 4 *9 times, last in 1977*

Highs of 39 Jul 11-Aug 18, 1936
 ≥ 70°F 29 Jul 30-Aug 27, 1930
 25 Aug 24-Sep 17, 1929
 24 Jul 25-Aug 17, 2023
 20 Jul 22-Aug 10, 1908

Highs of 8 Jan 22-29, 1969
 ≤ 32°F 8 Jan 6-13, 1909
 7 Dec 5-11, 1972
 6 *2 times, last in 1990*

Lows of 45 Jan. 1-Feb 14, 1949
 ≤ 32°F 24 Jan. 5-28, 1930
 19 Jan 21-Feb 7, 1985
 16 *3 times, last in 1978*

Lows of 5 Dec 7-11, 2009
 ≤ 20°F 5 Jan 5-9, 1974
 5 *occurred 5 other times*

Lows of 2 Dec 20-21, 1990
 ≤ 10° 2 Dec 7-8, 1972
 2 Jan 15-16, 1888
 1 *2 times, last in 1989*

Lows of 9 Jun 17-25, 1919
 ≥ 60°F 7 Aug 25-31, 1894
 5 Jun 27-Jul 1, 2021
 5 Jul 9-13, 2015
 5 *also in 2004 & 2000*

ASTORIA: Monthly & Annual Average MAXIMUM Temperatures

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1887	M	M	M	M	62.0	62.7	64.9	65.6	64.4	59.6	50.1	46.8	M
1888	40.2	49.8	53.2	M	M	M	M	69.5	68.7	60.4	51.3	49.3	M
1889	47.3	50.9	58.4	59.7	65.3	68.8	68.9	65.8	66.9	63.2	55.1	45.0	59.6
1890	39.8	45.3	50.5	55.7	64.9	64.9	67.2	68.1	66.0	58.8	54.9	51.8	57.4
1891	49.7	45.3	50.8	56.5	61.7	64.0	69.8	72.6	65.1	62.1	54.1	48.9	58.5
1892	47.9	51.2	53.9	53.5	62.1	64.9	66.2	68.5	64.6	60.2	51.9	45.3	57.4
1893	43.4	44.7	50.7	50.5	58.3	62.2	68.1	70.3	63.2	55.5	50.7	49.4	55.6
1894	45.8	45.0	49.2	54.0	59.7	62.7	68.2	72.3	65.3	57.9	54.1	45.3	56.6
1895	45.5	49.5	52.3	56.5	61.2	65.7	69.8	69.9	62.6	61.4	50.6	48.1	57.8
1896	48.0	51.6	50.7	53.1	57.6	65.2	71.9	69.9	67.5	60.1	46.1	50.3	57.7
1897	45.2	47.7	46.9	59.0	64.6	65.6	66.3	71.2	64.4	60.1	51.3	49.5	57.7
1898	46.0	51.1	50.0	56.7	62.1	66.7	67.3	69.0	66.6	59.7	51.1	46.4	57.7
1899	47.2	44.6	49.5	54.4	55.5	62.4	69.5	65.3	68.0	58.9	56.9	50.6	56.9
1900	51.0	47.7	55.0	57.3	58.8	63.5	67.3	66.3	64.9	57.4	52.4	50.5	57.7
1901	45.5	48.0	50.9	53.1	57.7	59.4	63.8	66.7	63.2	62.6	55.2	47.6	56.1
1902	46.5	52.5	50.3	55.1	59.6	65.6	67.9	70.8	66.6	61.9	52.3	49.2	58.2
1903	48.8	47.5	52.5	55.7	61.5	68.8	71.7	69.9	65.7	61.3	52.6	48.6	58.7
1904	46.9	46.0	47.8	62.1	61.6	63.5	67.5	67.2	68.8	62.3	57.6	51.6	58.6
1905	48.3	50.8	58.0	60.8	61.3	62.0	68.8	69.2	65.1	58.2	54.0	46.8	58.6
1906	48.9	53.1	52.0	60.6	60.1	64.8	73.6	70.1	66.2	63.4	51.8	49.0	59.5
1907	42.2	50.8	49.9	57.2	62.4	65.5	68.5	67.5	65.7	67.1	59.4	50.5	58.9
1908	50.6	52.8	58.7	64.8	64.4	70.8	79.7	72.8	73.0	61.7	57.5	47.0	62.8
1909	43.0	48.7	54.6	59.4	61.3	68.3	69.5	70.9	M	63.0	M	M	59.9
1910	46.4	46.7	55.1	56.5	61.7	62.0	67.1	64.3	64.8	60.5	52.4	49.6	57.3
1911	44.1	47.8	55.7	54.5	56.7	60.2	68.5	68.1	63.9	62.4	51.9	47.1	56.7
1912	48.1	51.4	53.6	55.3	64.3	66.1	68.0	68.7	69.2	59.3	53.1	48.4	58.8
1913	43.8	48.9	50.0	55.7	59.8	65.0	69.9	70.3	68.7	59.3	53.8	48.3	57.8
1914	50.0	49.2	56.6	59.1	64.3	62.7	69.0	67.4	63.5	62.8	53.4	44.9	58.6
1915	47.1	51.5	59.1	59.5	61.7	64.5	67.8	71.9	67.4	61.7	51.2	47.9	59.3
1916	37.4	53.3	52.9	58.3	59.0	64.6	66.6	70.2	68.3	61.9	52.7	45.7	57.6
1917	45.9	46.9	48.8	52.3	58.4	64.7	70.2	73.1	69.5	64.7	59.1	M	59.4
1918	47.6	47.8	51.0	58.6	58.9	68.5	69.3	71.0	70.5	60.4	52.7	48.2	58.7
1919	48.7	49.0	53.1	57.6	62.4	67.5	70.5	70.0	70.5	58.8	50.2	44.1	58.5
1920	46.7	50.9	51.2	53.5	59.7	65.3	69.8	72.7	65.1	59.1	54.6	49.5	58.2
1921	47.3	49.0	51.5	55.9	60.5	65.3	67.5	68.6	66.6	63.3	54.5	46.2	58.0
1922	43.2	45.8	48.9	54.4	62.0	67.7	70.8	67.8	67.7	60.5	51.4	45.9	57.2
1923	42.5	41.8	47.6	53.5	54.1	59.9	64.5	70.7	68.7	64.2	58.5	49.4	56.3
1924	45.9	52.7	52.1	56.6	62.1	65.3	68.5	67.0	69.1	61.0	53.0	41.9	57.9
1925	48.7	52.6	52.3	57.1	65.5	65.8	68.9	68.0	68.0	62.9	53.6	51.4	59.6
1926	50.0	53.1	60.0	64.8	62.4	68.7	70.7	68.4	65.0	61.1	55.1	46.3	60.5
1927	45.4	49.9	51.7	56.4	57.1	65.0	66.4	69.9	65.8	60.3	51.9	44.0	57.0
1928	46.2	50.6	55.1	56.4	64.6	64.2	69.1	68.1	64.6	60.0	54.0	48.1	58.4
1929	42.8	46.0	52.0	53.6	60.9	65.4	73.4	72.5	72.7	63.9	54.2	50.2	59.0
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual

ASTORIA: Monthly & Annual Average MAXIMUM Temperatures

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1930	37.5	51.7	56.5	59.9	58.8	64.7	67.1	72.9	67.4	60.9	53.9	49.8	58.4
1931	52.0	52.8	55.9	61.4	66.5	66.6	71.9	74.4	66.2	61.3	51.5	46.1	60.6
1932	45.4	47.6	53.6	57.4	62.1	67.5	67.0	71.0	71.0	63.0	54.5	45.6	58.8
1933	44.2	45.6	52.0	57.4	56.5	64.4	69.7	71.4	64.4	62.6	54.5	51.5	57.9
1934	52.0	58.8	60.3	63.0	67.4	66.7	68.1	69.8	67.7	63.3	55.8	50.8	62.0
1935	47.7	54.3	48.2	58.3	61.2	68.4	68.4	71.7	69.7	60.4	52.0	50.7	59.3
1936	50.7	44.7	51.7	57.4	65.4	68.7	71.2	73.5	69.6	65.5	56.0	49.3	60.3
1937	38.8	48.2	56.8	53.9	62.3	68.2	70.3	71.4	69.1	67.4	55.8	52.0	59.5
1938	50.4	50.6	53.3	61.8	64.2	67.2	69.5	67.9	70.3	64.1	52.7	50.2	60.2
1939	49.6	46.0	53.8	61.0	65.0	63.6	70.9	73.4	71.9	60.4	54.5	53.9	60.3
1940	52.3	53.8	57.6	61.8	69.0	71.9	70.5	74.1	71.3	66.0	54.9	52.7	63.0
1941	53.8	59.5	65.2	63.3	65.4	68.8	74.2	71.1	67.3	65.3	57.5	50.7	63.5
1942	48.5	54.4	57.0	60.6	61.7	65.9	73.1	75.7	71.2	67.0	53.1	48.9	61.4
1943	44.8	54.7	53.4	60.8	61.9	M	M	M	M	M	55.6	50.1	54.5
1944	49.3	51.0	52.5	57.8	62.0	65.0	67.5	68.7	67.8	63.1	51.1	46.5	58.5
1945	48.3	49.7	49.3	53.7	61.2	65.8	70.2	67.7	66.6	60.2	50.2	46.6	57.5
1946	47.7	47.3	51.1	54.7	63.1	64.7	71.3	68.1	66.8	55.5	49.5	47.0	57.2
1947	43.5	54.0	56.4	59.6	65.7	65.1	69.7	67.7	67.8	58.7	50.1	48.7	58.9
1948	46.8	45.5	49.7	52.2	59.7	68.9	67.7	66.8	66.8	59.4	48.3	42.6	56.2
1949	37.2	44.1	51.6	57.7	64.5	65.3	69.7	69.4	69.0	57.9	57.6	46.8	57.6
1950	37.5	48.1	48.7	55.2	59.1	67.1	67.5	69.4	66.0	57.2	52.5	52.2	56.7
1951	46.0	49.4	47.7	59.4	60.9	65.7	68.7	67.3	66.5	59.5	51.9	45.2	57.4
1952	42.0	46.5	48.1	57.3	62.7	63.1	68.0	67.3	67.9	64.7	51.0	48.9	57.3
1953	51.3	50.4	51.4	54.9	60.7	61.7	68.2	68.2	68.5	62.6	56.0	51.0	58.7
1954	45.6	52.5	52.1	53.7	60.7	61.0	64.7	66.1	66.8	62.5	56.7	49.5	57.7
1955	46.7	47.9	47.7	51.2	56.7	62.0	63.8	66.6	66.2	59.1	48.6	47.5	55.3
1956	47.0	43.6	49.3	56.8	61.9	61.3	68.5	67.0	66.5	57.9	53.4	48.4	56.8
1957	42.4	49.6	52.2	56.2	61.6	65.6	67.6	68.6	72.5	61.5	54.6	51.1	58.6
1958	51.8	55.5	53.3	56.7	63.7	67.4	70.5	71.1	68.5	64.4	53.3	53.2	60.8
1959	48.8	48.7	52.1	56.8	60.9	63.7	68.7	67.4	64.0	61.6	54.4	49.3	58.0
1960	45.9	50.7	51.9	56.6	58.4	64.0	67.7	66.4	67.6	61.2	53.6	50.2	57.9
1961	53.8	51.8	52.7	54.3	60.0	67.2	69.3	69.1	65.5	59.7	52.0	47.6	58.6
1962	47.1	50.5	50.9	55.6	56.6	62.1	65.0	68.3	67.1	61.1	55.1	51.5	57.6
1963	43.7	57.1	52.5	54.9	61.5	62.5	67.4	68.3	70.6	62.3	53.8	51.4	58.8
1964	49.2	50.8	51.3	53.3	57.3	62.0	66.4	67.4	65.8	63.2	51.6	45.3	57.0
1965	48.0	49.4	58.0	56.8	57.6	63.6	68.1	69.6	66.0	64.1	54.5	46.0	58.5
1966	47.9	49.1	51.4	56.7	59.4	65.1	67.2	70.7	68.8	60.2	54.3	50.1	58.4
1967	48.8	50.3	49.2	52.9	60.0	65.3	69.9	73.1	70.9	60.7	54.6	45.8	58.5
1968	47.7	55.8	53.6	53.9	59.9	63.9	69.1	68.2	66.2	58.4	53.4	45.0	57.9
1969	39.7	47.5	53.5	54.1	62.5	65.7	65.8	68.4	64.9	59.6	54.2	49.9	57.2
1970	47.4	55.4	54.0	52.7	60.3	65.3	67.4	69.3	65.8	59.3	53.6	46.3	58.1
1971	45.3	48.8	49.2	54.7	58.8	61.5	66.1	71.1	67.8	59.4	52.5	46.3	56.8
1972	44.9	49.3	54.1	54.5	62.3	65.3	71.5	73.8	67.4	61.9	53.8	43.9	58.6
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual

ASTORIA: Monthly & Annual Average MAXIMUM Temperatures

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1973	46.2	53.1	51.9	57.5	62.3	63.6	68.5	65.4	67.9	59.3	50.3	50.4	58.0
1974	44.6	47.7	51.2	55.2	57.5	63.1	67.5	68.5	71.2	62.0	54.2	50.5	57.8
1975	47.6	49.3	50.9	53.0	60.3	62.2	68.0	66.0	69.9	56.5	51.5	50.3	57.1
1976	50.2	49.3	50.7	56.9	60.5	63.2	69.0	68.0	69.1	61.8	56.3	49.9	58.7
1977	46.7	53.3	50.8	56.9	58.1	64.5	67.1	70.4	65.8	61.5	51.1	48.6	57.9
1978	49.0	51.7	55.9	56.4	61.0	67.8	68.3	68.8	65.5	64.6	49.6	43.9	58.5
1979	41.9	47.6	55.7	56.4	62.7	65.2	70.5	69.2	71.6	62.5	54.3	53.2	59.2
1980	45.8	52.6	51.2	58.8	59.1	62.2	67.2	64.6	66.6	65.1	56.9	53.0	58.6
1981	55.2	54.2	56.7	56.9	60.3	64.4	67.2	70.8	68.0	61.8	56.5	51.6	60.3
1982	46.9	50.1	52.8	55.1	60.1	64.4	66.4	69.7	68.8	63.7	53.8	49.6	58.5
1983	53.0	56.1	58.1	60.1	63.2	67.2	68.1	69.7	66.6	60.4	54.2	43.8	60.0
1984	49.6	52.4	55.5	54.4	58.1	61.1	67.8	69.7	67.6	57.5	53.0	45.8	57.7
1985	47.5	47.4	50.8	55.6	60.5	65.3	68.9	68.3	64.9	58.7	45.2	47.7	56.7
1986	54.2	50.5	57.3	55.8	60.6	66.7	65.4	68.5	64.2	62.4	54.1	50.3	59.2
1987	49.8	53.6	56.2	58.8	62.6	65.5	65.9	68.9	67.7	66.1	56.8	48.0	60.0
1988	48.0	53.6	54.0	56.6	60.5	64.5	68.6	67.9	66.4	62.6	53.4	49.6	58.8
1989	47.7	44.3	51.4	61.2	61.5	66.0	66.9	67.6	72.4	61.2	55.0	50.5	58.8
1990	50.4	50.1	55.2	57.6	60.1	64.7	70.1	70.3	69.5	59.7	54.4	42.6	58.7
1991	47.6	55.6	50.7	53.9	56.1	60.5	67.1	65.6	71.3	61.5	53.2	49.4	57.7
1992	50.7	56.0	58.0	58.6	64.6	65.8	68.0	69.6	65.6	60.9	53.0	45.8	59.7
1993	44.7	50.4	54.4	55.2	63.4	63.8	64.3	68.2	65.3	61.6	50.5	48.8	57.5
1994	51.2	48.5	56.4	56.0	61.8	63.6	66.0	69.7	68.8	59.3	49.0	48.0	58.2
1995	51.5	53.1	54.9	55.9	60.7	65.2	69.0	67.8	68.8	60.7	56.5	50.6	59.6
1996	47.8	52.0	54.2	56.7	57.7	63.8	68.7	68.7	64.9	60.1	52.1	49.5	58.0
1997	49.3	50.8	52.2	56.2	65.3	64.9	68.9	71.9	70.0	59.6	57.1	50.4	59.7
1998	50.6	52.5	53.4	56.7	57.3	60.1	65.7	69.5	67.7	60.6	52.5	46.8	57.8
1999	48.8	49.6	51.3	56.0	58.1	62.5	65.9	67.9	67.7	61.5	60.2	52.6	58.5
2000	48.8	52.2	53.3	59.0	60.0	65.6	68.8	68.4	68.5	64.2	54.1	50.5	59.5
2001	51.2	51.1	53.5	53.8	61.0	62.7	64.7	67.3	65.7	59.0	55.1	49.5	57.9
2002	48.3	51.1	50.5	55.6	57.8	64.4	68.5	68.7	67.9	60.3	57.2	51.0	58.4
2003	53.6	51.6	53.3	54.8	60.5	66.5	69.7	69.7	69.5	61.9	52.0	49.4	59.4
2004	47.5	52.3	55.1	61.1	61.9	66.9	70.0	70.1	66.5	60.8	54.0	50.9	59.8
2005	50.6	54.3	56.6	56.1	63.2	65.0	69.7	69.4	65.8	59.9	52.5	49.2	59.4
2006	51.6	50.3	51.7	56.5	62.0	65.6	67.7	66.1	67.4	59.9	52.3	49.0	58.3
2007	46.7	49.5	53.0	54.9	60.5	63.2	68.7	68.9	65.3	59.0	52.7	47.6	57.5
2008	46.2	50.4	50.0	52.6	59.3	60.6	65.8	66.6	67.4	60.7	56.1	45.5	56.8
2009	50.0	51.1	50.1	56.4	61.4	65.6	68.6	68.7	70.0	60.8	54.1	47.3	58.7
2010	53.6	55.1	55.8	54.6	57.7	63.3	65.6	66.7	66.8	61.2	50.3	49.2	58.3
2011	47.7	46.7	50.7	51.6	57.2	62.9	65.9	68.2	68.3	60.0	52.4	47.3	56.6
2012	49.0	50.1	49.5	55.7	59.1	61.7	65.2	68.2	67.8	59.7	53.8	48.2	57.3
2013	46.7	49.6	52.7	55.4	61.3	65.8	65.8	68.4	66.6	60.6	53.8	44.2	57.6
2014	51.6	48.2	54.7	58.1	64.2	64.8	68.8	70.5	71.9	65.3	54.4	52.5	60.4
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual

ASTORIA: Monthly & Annual Average MAXIMUM Temperatures

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2015	53.3	56.5	58.4	58.4	61.4	67.9	72.3	72.9	68.2	65.6	54.8	51.3	61.8
2016	51.3	55.2	56.2	61.6	63.8	66.6	68.8	72.8	69.0	62.2	59.1	47.2	61.2
2017	45.9	49.4	51.8	55.6	60.7	65.0	68.3	70.6	70.0	61.6	53.5	48.7	58.4
2018	52.4	47.9	52.6	56.7	62.0	65.4	68.4	68.9	67.3	61.9	56.0	50.7	59.2
2019	52.0	44.9	55.6	56.7	61.5	65.3	68.7	71.2	66.7	58.7	53.8	49.0	58.7
2020	50.2	49.5	50.3	57.2	62.7	64.4	67.1	70.0	70.1	60.2	53.5	51.0	58.9
2021	49.7	47.4	51.3	58.2	60.2	68.3	67.3	68.2	68.0	59.5	54.6	45.7	58.2
2022	51.6	50.8	51.8	54.0	57.5	65.4	70.1	72.6	70.4	64.6	52.1	47.8	59.1
2023	49.4	48.6	51.0	53.9	64.1	64.3	70.7	74.2	68.2	63.6	55.0	53.1	59.4
2024	50.1												
2025													
2026													
2027													
2028													
2029													
normal	49.4	50.9	53.0	55.9	60.5	64.0	67.4	68.7	67.6	60.7	53.6	48.7	58.4

Normal are 1991-2020 normals

Progression of Astoria's 30-Year Climatic Normals for MAXIMUM Temperatures

30-year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
1891-1920	46.5	49.7	53.1	56.9	60.6	64.8	69.1	69.6	66.4	60.8	53.1	48.2	58.2
1901-1930	46.3	49.7	53.0	57.2	60.8	65.1	69.2	69.6	66.9	61.6	53.8	47.8	58.5
1911-1940	46.4	49.8	53.4	56.38	61.8	65.9	69.1	70.6	68.2	62.1	53.6	48.4	58.9
1921-1950	46.3	50.0	53.5	57.0	62.3	66.2	69.5	70.3	68.2	61.9	53.5	48.3	58.9
1931-1960	46.5	49.9	51.9	56.9	61.6	65.1	68.6	69.2	67.2	61.1	53.5	49.4	58.4
1941-1970	46.5	50.6	52.1	55.6	60.3	63.8	67.7	68.3	67.6	61.0	53.4	48.6	58.0
1951-1980	46.8	50.6	51.9	55.5	60.2	63.9	67.9	68.6	67.8	61.4	53.5	48.8	58.1
1961-1990	47.8	51.0	53.2	56.0	60.1	64.1	67.5	68.8	67.8	61.1	53.5	48.2	58.3
1971-2000	48.4	51.0	53.4	56.3	60.2	63.7	67.5	68.5	67.8	61.2	53.2	48.6	58.3
1981-2010	49.8	51.6	53.8	56.4	60.4	63.9	67.4	68.7	67.6	60.9	53.5	48.7	58.6
1991-2020	49.4	50.9	53.0	55.9	60.5	64.0	67.4	68.7	67.6	60.7	53.6	48.7	58.4
2001-2030													

¹Normals 1971-2000 recalculated using same methodology as that of the 1981-2010. There may or may not be much difference from the original 1971-2000 normals data set, but this process does yield more realistic normal for that period. Same process is used for subsequent normals (1981-2010 and 1991-2020).

ASTORIA: Monthly & Annual Average MINIMUM Temperatures

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1887	M	M	M	M	47.4	51.0	53.5	54.8	52.4	49.3	41.7	40.2	M
1888	30.2	39.2	38.9	M	M	M	M	56.6	56.2	51.1	42.0	42.1	M
1889	37.6	38.9	45.3	45.6	49.9	52.0	55.5	52.8	52.1	52.1	43.4	36.5	47.8
1890	30.9	35.1	38.5	40.9	49.3	50.6	53.5	54.8	50.1	45.5	43.4	40.7	44.5
1891	40.8	33.7	38.0	44.0	48.5	51.1	55.2	58.0	53.0	51.6	44.9	38.5	46.5
1892	37.2	38.9	42.9	41.5	47.4	50.8	54.2	55.8	53.0	49.0	43.7	37.4	46.0
1893	33.9	35.3	39.5	40.9	46.9	48.9	53.5	54.7	51.6	45.2	40.4	41.5	44.4
1894	37.4	35.4	37.8	42.2	46.6	50.9	53.6	58.0	52.9	47.0	44.8	36.4	45.3
1895	35.5	39.8	39.2	42.2	47.9	50.6	54.3	53.1	50.1	49.5	41.0	38.6	45.2
1896	38.9	41.4	37.8	40.3	44.9	50.4	56.6	57.6	51.9	48.5	37.1	41.7	45.6
1897	37.6	38.2	36.3	44.4	49.6	54.5	53.8	55.5	51.5	48.7	41.4	41.1	46.1
1898	36.7	40.6	38.4	43.0	46.8	51.8	53.8	57.1	53.3	47.9	41.9	37.1	45.7
1899	39.1	35.4	38.2	41.9	44.9	48.2	53.9	54.5	53.0	47.5	48.8	41.2	45.6
1900	39.0	37.4	42.8	42.7	47.5	52.0	53.2	54.4	52.0	46.9	41.4	41.2	45.9
1901	35.8	36.4	39.4	39.7	45.8	48.2	50.5	53.2	50.2	51.5	44.3	37.9	44.4
1902	35.2	41.0	38.9	40.9	46.9	49.6	52.7	52.6	49.6	49.2	42.4	38.0	44.8
1903	39.4	34.6	36.9	40.5	45.2	51.8	54.1	54.7	51.1	48.2	40.8	37.4	44.6
1904	36.9	34.8	36.2	44.8	46.7	49.9	54.0	53.9	51.3	50.3	47.4	37.7	45.3
1905	36.7	37.8	43.6	44.8	45.2	52.2	54.6	54.2	52.9	45.1	39.8	37.2	45.3
1906	37.9	41.1	38.3	43.7	48.5	51.3	56.3	54.3	52.1	50.2	42.8	39.9	46.4
1907	32.9	41.2	38.7	44.7	50.3	52.8	56.0	55.8	54.7	50.9	44.6	40.2	46.9
1908	39.4	37.1	39.7	41.5	44.8	49.8	54.8	52.6	49.2	45.9	45.6	36.2	44.7
1909	31.7	38.1	39.6	41.0	43.0	48.6	52.0	53.0	M	46.8	M	M	43.8
1910	36.9	35.5	41.9	42.5	47.8	49.2	53.2	52.9	51.1	49.2	42.4	39.8	45.2
1911	34.5	34.3	39.5	38.8	44.4	48.5	53.6	53.8	51.1	47.2	42.1	38.5	43.9
1912	38.8	40.5	37.6	40.6	47.9	50.7	53.9	54.5	51.7	45.4	42.5	37.9	45.2
1913	33.7	34.9	37.1	41.4	46.7	51.1	53.8	55.2	51.5	46.5	42.2	38.6	44.4
1914	40.7	39.0	42.4	43.4	48.0	49.9	53.0	53.6	51.6	50.0	43.4	34.5	45.8
1915	36.6	39.4	44.4	44.9	47.9	52.3	55.5	56.4	52.6	49.2	40.4	38.7	46.5
1916	28.0	38.2	39.5	42.0	43.6	49.6	54.6	55.9	52.9	44.3	37.2	34.6	43.4
1917	34.1	34.9	35.2	40.5	45.1	48.8	52.8	53.5	53.7	48.6	44.7	M	44.7
1918	40.1	37.7	39.7	42.8	46.7	52.1	55.2	56.3	54.5	50.6	43.2	39.3	46.5
1919	39.1	38.9	41.8	44.4	47.5	57.1	55.5	54.1	52.9	45.0	40.9	33.5	45.9
1920	35.5	36.2	39.0	39.3	43.4	48.8	54.5	54.9	52.9	46.1	41.3	40.4	44.4
1921	36.8	39.4	39.8	41.4	45.7	52.6	53.2	54.1	50.1	49.1	43.0	36.1	45.1
1922	32.2	33.9	35.9	40.5	45.1	51.3	53.3	54.9	53.7	50.1	40.1	39.1	44.2
1923	M	31.6	37.5	42.3	45.6	48.6	53.6	54.3	51.4	47.7	43.9	37.8	44.9
1924	36.0	40.7	36.1	39.7	45.3	48.2	51.6	53.2	48.5	45.9	39.5	32.1	43.1
1925	38.3	39.5	37.0	41.9	45.9	48.4	51.9	51.6	50.2	45.4	40.5	40.6	44.3
1926	36.7	41.3	41.3	45.0	46.0	50.3	50.0	52.9	47.7	47.6	44.1	36.5	45.0
1927	36.3	37.0	36.2	39.2	43.5	50.6	53.0	53.4	51.9	46.7	42.8	33.6	43.7
1928	35.3	37.8	42.1	41.1	45.8	51.1	53.8	53.0	49.9	46.9	42.0	36.7	44.6
1929	32.2	32.0	40.1	40.3	46.0	51.0	53.2	54.1	50.8	48.6	39.0	39.4	43.9
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual

ASTORIA: Monthly & Annual Average MINIMUM Temperatures

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1930	26.9	38.6	39.9	45.5	45.5	49.8	48.0	54.8	53.4	45.8	41.2	37.7	43.9
1931	39.8	39.1	41.5	43.7	49.0	52.0	55.0	53.1	51.2	47.0	39.0	36.7	45.6
1932	35.5	35.8	41.5	42.4	46.4	52.3	52.1	55.6	50.7	48.8	43.8	34.4	44.9
1933	35.5	33.1	38.7	40.0	43.4	47.7	51.5	54.2	49.2	46.5	41.9	41.9	43.6
1934	41.6	41.1	43.4	46.3	49.0	50.1	53.8	54.9	52.7	47.7	44.6	39.3	47.0
1935	35.7	39.5	35.6	41.0	45.5	51.8	53.1	53.5	51.3	45.4	37.6	37.8	44.0
1936	37.9	30.9	36.0	44.5	47.7	52.5	53.3	56.2	48.5	46.6	38.6	38.6	44.3
1937	27.2	35.0	41.2	40.7	45.4	51.4	52.7	52.3	50.4	48.8	42.2	38.1	43.8
1938	36.7	35.1	36.2	41.1	44.3	47.8	51.1	52.1	52.2	46.3	38.6	36.3	43.2
1939	37.5	33.1	36.4	41.1	43.6	47.4	51.6	52.2	52.1	43.8	40.5	41.5	43.4
1940	37.5	40.7	41.0	43.2	46.1	49.4	51.4	54.2	52.7	51.1	38.7	40.1	45.5
1941	39.5	40.6	42.6	41.7	46.6	48.7	55.0	53.0	47.5	46.3	42.4	37.2	45.1
1942	34.6	37.5	36.0	41.5	44.3	48.1	54.0	52.5	49.1	44.3	37.4	37.3	43.1
1943	29.2	34.6	34.6	40.3	41.0	M	M	M	M	M	41.2	36.4	36.8
1944	35.7	35.8	37.5	41.6	45.7	49.4	53.2	53.5	51.8	50.1	40.8	36.1	44.3
1945	38.1	37.8	36.7	40.3	46.3	47.4	51.4	51.8	49.4	46.0	40.5	38.7	43.7
1946	38.0	37.8	39.1	40.8	47.5	49.5	52.8	52.3	51.0	43.4	37.9	37.5	44.0
1947	32.6	39.3	40.9	43.6	46.6	49.4	52.4	52.2	50.5	46.3	40.3	38.4	44.4
1948	34.2	33.1	35.7	37.4	43.9	49.9	50.6	51.6	48.4	43.2	36.3	31.1	41.3
1949	24.9	31.2	37.1	39.6	42.9	44.9	46.8	50.1	47.5	39.0	41.3	36.2	40.1
1950	26.6	35.5	38.4	38.7	43.1	49.4	51.6	54.0	50.2	44.5	40.8	42.5	42.9
1951	35.5	36.7	34.3	42.3	44.5	50.1	53.5	52.0	50.4	46.5	41.1	34.7	43.5
1952	32.9	35.9	36.6	41.2	44.7	48.8	52.2	52.9	51.2	49.9	39.2	37.7	43.6
1953	44.6	36.6	37.8	40.5	44.4	48.2	52.5	54.0	50.3	45.8	43.2	39.7	44.8
1954	34.9	37.6	33.4	39.3	43.9	47.4	50.6	53.2	50.4	43.0	44.4	37.3	42.9
1955	35.3	34.6	35.0	35.8	41.8	48.5	51.8	50.0	47.2	45.2	37.1	35.5	41.5
1956	36.7	33.2	36.2	40.1	45.8	49.0	53.2	52.7	47.9	42.7	36.1	36.3	42.5
1957	29.3	35.2	39.0	41.4	46.7	49.9	50.3	51.7	51.4	44.7	37.2	38.9	43.0
1958	40.0	43.0	36.2	40.2	47.4	54.3	54.7	52.8	49.2	45.7	39.4	42.0	45.4
1959	38.6	37.2	37.8	42.0	43.5	49.9	51.9	50.2	48.7	45.6	38.7	35.0	43.3
1960	34.7	36.6	37.7	41.6	43.6	48.5	50.3	53.2	46.9	45.8	40.2	36.7	43.0
1961	40.8	41.3	38.8	40.7	45.2	50.1	54.4	53.5	47.2	42.3	35.4	37.0	43.9
1962	33.0	36.9	35.6	41.0	43.9	47.6	51.4	52.6	50.0	45.6	42.4	37.6	43.1
1963	30.1	42.2	37.5	41.1	44.5	49.1	53.1	53.8	51.7	47.5	41.7	37.5	44.2
1964	38.1	33.7	37.2	38.3	41.6	48.4	52.0	51.1	49.0	44.4	38.0	34.6	42.2
1965	36.6	39.0	36.3	41.7	44.1	48.7	52.3	53.7	47.9	46.5	43.1	34.6	43.7
1966	36.6	36.0	35.9	41.3	41.6	47.2	52.0	49.9	49.6	43.2	41.2	40.9	42.9
1967	38.7	36.0	35.2	35.1	43.4	51.2	52.2	52.5	50.0	45.1	41.5	36.6	43.1
1968	36.3	39.1	39.8	38.2	44.5	48.3	52.8	51.9	49.6	42.8	40.7	34.0	43.2
1969	28.8	33.1	35.1	39.5	44.4	53.4	51.3	48.9	49.5	42.3	38.7	38.3	41.9
1970	36.2	37.2	35.7	37.8	42.4	47.9	51.1	51.0	46.2	42.7	40.5	35.2	42.0
1971	36.1	35.6	34.8	38.2	43.9	47.7	52.7	53.6	47.9	43.1	41.1	36.1	42.6
1972	35.1	37.1	41.5	38.7	47.0	51.2	52.8	53.0	47.8	42.6	40.7	33.3	43.4
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual

ASTORIA: Monthly & Annual Average MINIMUM Temperatures

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1973	34.7	35.5	36.8	40.3	44.4	49.5	50.8	49.7	47.9	43.0	38.2	39.9	42.6
1974	33.2	36.2	38.1	40.8	43.5	49.1	51.0	55.6	50.5	41.8	41.8	40.6	43.5
1975	38.1	36.9	36.6	36.8	45.2	49.0	53.3	53.4	48.4	45.3	40.8	39.0	43.6
1976	38.0	35.9	36.7	40.4	45.0	48.5	53.1	55.3	52.4	44.5	39.7	37.0	43.9
1977	33.0	40.2	38.3	40.8	42.2	49.1	50.2	54.9	48.2	41.9	38.1	39.2	43.0
1978	39.0	40.3	38.0	41.1	43.5	51.0	53.4	54.1	50.6	44.0	33.7	31.3	43.3
1979	28.7	35.9	38.9	41.9	44.9	48.3	54.2	54.4	51.2	47.4	39.4	41.5	43.9
1980	31.6	40.2	38.4	40.1	45.5	48.6	54.2	52.9	51.1	44.9	43.3	42.0	44.4
1981	41.1	39.0	39.4	42.1	46.4	51.0	53.6	54.0	50.1	43.6	41.5	38.9	45.1
1982	36.4	37.8	37.5	38.5	44.3	51.2	52.1	52.9	50.6	47.3	39.3	37.4	43.8
1983	41.5	44.3	43.6	40.2	48.2	52.4	54.3	53.6	46.4	40.4	43.0	31.9	45.0
1984	37.4	38.4	41.3	39.0	43.5	50.0	51.4	50.1	49.2	43.0	40.3	33.4	43.1
1985	31.0	33.1	34.7	41.1	44.4	48.3	52.3	50.5	47.4	42.6	33.1	30.8	40.8
1986	39.6	37.6	41.2	39.1	44.9	50.0	51.9	53.6	47.2	47.3	41.6	38.5	44.4
1987	37.5	39.0	39.8	42.0	47.4	49.2	52.5	51.9	49.0	42.9	42.3	33.7	43.9
1988	35.5	38.0	36.7	41.1	44.4	46.8	51.2	50.5	46.8	48.3	41.3	37.0	43.1
1989	36.5	29.8	38.7	41.7	44.7	51.3	52.6	53.3	48.3	44.3	43.3	37.5	43.5
1990	39.0	36.1	39.9	42.9	45.7	50.5	54.5	55.1	52.1	42.5	41.2	31.2	44.2
1991	35.0	40.4	35.8	39.7	45.4	48.4	52.0	53.8	49.9	40.9	41.3	39.5	43.5
1992	39.6	40.6	39.9	43.2	44.9	51.4	53.3	51.6	47.0	44.3	39.5	35.5	44.2
1993	33.0	33.3	40.3	43.1	49.0	51.2	53.6	53.1	47.9	46.6	34.0	36.5	43.5
1994	38.9	35.6	39.8	43.9	45.7	49.3	53.1	53.7	51.8	41.3	34.8	36.7	43.7
1995	41.1	39.2	37.8	40.8	46.9	49.4	54.7	51.7	53.9	45.2	44.6	39.8	45.4
1996	37.1	36.1	38.8	44.0	44.4	49.1	52.4	51.9	48.6	43.3	39.2	37.6	43.5
1997	37.8	36.7	39.6	41.5	48.2	51.2	53.8	55.8	53.8	45.7	43.3	37.3	45.4
1998	40.8	40.9	39.6	39.6	46.6	51.4	54.4	52.9	49.4	44.1	41.9	37.0	44.9
1999	37.3	38.9	37.6	38.9	44.9	50.5	52.3	55.0	47.9	43.4	48.6	42.1	44.8
2000	37.5	39.4	37.6	43.3	47.7	50.7	55.6	54.1	50.6	47.9	39.1	39.3	45.2
2001	37.5	34.8	38.7	39.9	44.8	47.7	52.4	54.1	49.5	43.8	42.2	38.7	43.7
2002	38.1	37.2	37.8	41.4	44.1	51.0	54.2	51.9	49.2	43.5	40.0	40.1	44.0
2003	43.1	36.6	41.9	42.0	44.4	50.7	53.9	53.1	49.6	49.0	38.6	38.7	45.1
2004	38.3	38.9	40.9	40.6	48.0	52.1	55.8	57.5	50.2	46.3	38.4	39.2	45.5
2005	38.7	35.1	40.0	43.5	49.6	51.6	54.4	55.1	46.2	46.5	37.8	37.8	44.7
2006	40.8	35.1	37.8	41.1	44.6	51.8	53.2	52.0	49.4	42.1	40.7	36.4	43.8
2007	33.5	38.3	40.3	40.7	45.0	49.2	55.3	53.7	49.7	43.1	37.6	36.8	43.6
2008	34.6	36.8	36.5	37.8	47.2	48.0	51.3	53.9	50.0	44.3	43.6	34.7	43.2
2009	36.3	33.6	36.9	39.9	44.9	52.5	54.7	54.8	50.9	45.9	42.8	33.1	43.9
2010	42.9	40.3	40.5	42.7	44.3	49.2	53.4	53.6	52.7	44.9	39.1	39.9	45.3
2011	36.8	34.4	39.5	38.2	43.2	50.5	52.2	53.8	51.0	46.3	36.7	33.0	43.0
2012	35.5	38.1	37.8	41.8	43.9	48.5	53.4	53.2	48.3	44.6	42.0	39.2	43.9
2013	34.8	39.2	39.8	42.0	46.6	51.9	54.5	54.4	53.3	41.5	40.0	31.6	44.1
2014	38.2	36.5	41.5	42.5	48.7	52.6	54.3	55.9	52.8	50.9	40.0	41.7	46.3
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual

ASTORIA: Monthly & Annual Average MINIMUM Temperatures

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2015	39.2	42.5	41.0	40.3	48.5	51.7	56.0	54.5	50.2	50.7	39.1	41.0	46.2
2016	40.2	42.7	41.6	44.9	47.6	51.7	56.8	55.7	51.9	50.2	47.6	35.0	47.2
2017	34.0	36.1	41.3	42.5	46.8	51.3	52.2	53.6	51.2	42.2	41.8	36.1	44.1
2018	42.3	36.3	37.0	42.9	49.4	50.9	54.2	54.9	48.8	45.1	41.7	38.7	45.2
2019	38.5	32.7	34.4	43.9	49.3	50.8	55.5	55.6	52.6	40.9	38.3	38.2	44.2
2020	41.2	35.6	35.8	39.9	47.7	50.5	53.0	53.1	54.5	45.3	38.6	38.6	44.5
2021	37.1	37.5	35.6	40.0	46.3	52.6	54.4	53.9	49.7	45.6	43.2	35.9	44.3
2022	37.4	37.5	39.1	39.4	44.9	51.8	55.5	56.2	52.1	47.4	35.4	36.6	44.4
2023	38.1	34.6	36.1	41.2	49.5	50.1	53.7	56.8	49.9	47.6	39.2	41.8	44.9
2024	40.3												
2025													
2026													
2027													
2028													
2029													
normal	38.1	37.4	39.0	41.5	46.3	50.6	53.9	53.9	50.5	44.9	40.2	37.6	44.5

Normal are 1991-2020 normals

Progression of Astoria's 30-Year Climatic Normals for MAXIMUM Temperatures

30-year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
1891-1920	36.6	37.6	39.1	42.5	46.6	50.7	54.1	54.8	52.1	48.1	42.5	38.4	45.2
1901-1930	35.5	37.5	39.0	42.0	46.0	50.5	53.4	54.1	51.7	47.8	42.1	37.5	44.9
1911-1940	35.6	37.4	38.4	42.0	45.9	50.4	53.0	54.2	51.6	47.3	41.2	37.5	44.7
1921-1950	34.8	36.9	38.5	41.5	45.4	49.7	52.2	53.3	50.6	46.5	40.9	37.5	43.8
1931-1960	34.8	35.7	37.1	41.0	44.9	49.5	52.5	52.7	48.8	44.7	39.1	36.8	43.1
1941-1970	34.6	36.7	36.7	40.0	44.3	49.1	52.2	52.2	49.1	44.5	39.6	36.9	43.0
1951-1980	35.4	37.1	36.9	39.7	44.1	49.2	52.2	52.6	49.2	44.3	39.7	37.3	43.1
1961-1990	35.9	37.3	38.1	40.3	44.8	49.5	52.4	52.6	49.0	44.0	40.2	36.6	43.4
1971-2000	36.7	37.6	38.6	40.8	45.4	49.8	52.9	53.2	49.5	44.1	40.1	37.1	43.8
1981-2010	37.7	37.2	38.9	41.0	45.6	50.0	53.1	53.1	49.4	44.2	40.1	36.6	43.9
1991-2020	38.1	37.4	39.0	41.5	46.3	50.6	53.9	53.9	50.5	44.9	40.2	37.6	44.5
2001-2030													

¹Normals 1971-2000 recalculated using same methodology as that of the 1981-2010. There may or may not be much difference from the original 1971-2000 normals data set, but this process does yield more realistic normal for that period. Same process is used for subsequent normals (1981-2010 and 1991-2020).

ASTORIA: Monthly & Annual Average MEAN Temperatures

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1850	M	M	M	M	M	M	M	62.2	59.4	55.4	46.4	40.7	M
1851	43.0	43.6	45.7	52.8	55.0	59.5	61.6	63.8	58.1	52.2	45.8	40.7	51.8
1852	M	M	M	M	M	M	M	M	M	M	M	M	M
1853	32.3	M	M	M	M	M	M	M	59.4	M	46.5	43.6	M
1854	32.3	39.0	44.1	49.5	51.6	55.1	59.2	60.4	59.2	53.5	49.9	35.8	49.7
1855	38.2	44.8	49.2	48.6	52.2	57.7	61.8	62.0	59.2	55.2	45.0	39.9	50.8
1856	42.4	44.2	48.9	50.4	53.5	57.1	58.7	59.1	58.8	50.8	46.2	44.0	50.8
1857	39.7	43.1	45.9	52.8	56.1	58.4	59.0	58.7	58.2	54.3	46.1	39.0	51.4
1858	40.6	41.4	44.0	47.6	53.1	58.1	58.6	60.6	59.3	50.6	47.6	37.4	50.0
1859	40.1	40.0	41.4	48.2	52.4	60.2	58.8	59.9	58.9	53.6	41.9	43.8	49.3
1860	41.5	43.6	45.8	47.2	51.8	56.4	58.5	63.4	59.4	53.4	45.6	40.5	50.9
1861	40.6	43.4	44.8	47.3	50.4	55.2	59.9	60.5	59.3	51.4	43.1	41.2	49.5
1862	28.2	34.6	42.0	46.4	53.3	59.2	60.9	60.9	57.2	52.3	44.6	42.9	48.4
1863	41.1	39.1	44.5	46.7	52.5	57.0	62.1	58.8	58.1	51.0	44.8	38.0	49.9
1864	39.6	44.6	45.8	49.4	54.3	55.7	58.8	60.5	57.3	52.8	45.2	45.2	50.2
1865	38.0	38.1	39.3	46.1	53.9	56.5	58.8	59.6	56.1	52.7	48.1	44.1	48.5
1866	39.0	38.7	44.3	47.0	51.9	55.5	60.3	61.3	57.8	52.7	48.6	42.6	49.7
1867	40.7	49.4	37.4	47.5	53.2	56.9	60.9	60.2	57.9	50.9	47.3	44.2	49.7
1868	29.7	39.5	42.9	49.5	52.0	56.6	60.5	59.1	54.7	52.3	45.7	42.3	49.0
1869	41.7	41.5	48.1	50.8	55.6	60.8	60.9	63.8	57.4	52.3	48.0	36.8	51.2
1870	41.2	42.4	41.1	48.5	52.3	57.4	64.2	60.0	58.9	52.2	47.5	39.1	50.5
1871	43.0	43.0	44.2	47.1	49.7	56.1	54.8	59.2	56.0	51.6	44.5	41.9	49.2
1872	40.1	44.3	47.1	46.5	52.0	56.3	59.8	61.5	57.0	52.4	42.9	37.7	50.0
1873	43.7	38.9	46.2	49.0	51.9	55.4	60.1	61.5	58.2	50.4	47.4	37.7	50.9
1874	40.4	40.1	41.5	48.9	53.4	55.3	58.8	59.8	59.0	54.0	45.2	42.1	49.9
1875	32.2	40.1	41.8	49.1	50.0	55.4	59.4	59.7	56.2	56.0	43.9	46.1	49.2
1876	37.4	42.9	42.0	47.3	50.3	57.3	58.3	58.0	58.6	53.1	46.3	41.0	49.4
1877	M	M	M	M	M	M	M	M	M	M	M	M	M
1878	M	M	M	M	M	M	M	M	M	M	M	M	M
1879	M	M	M	M	M	M	M	M	M	M	M	M	M
1880	M	M	M	M	M	M	M	M	M	M	M	M	M
1881	M	M	M	M	M	M	M	M	M	M	M	M	M
1882	M	M	M	M	M	M	M	M	M	M	M	M	M
1883	M	M	M	M	M	M	M	M	M	M	M	M	M
1884	M	M	M	M	M	M	M	M	M	M	M	M	M
1885	M	M	M	M	M	M	M	M	M	M	M	M	M
1886	M	M	M	M	M	M	M	M	M	M	M	M	M
1887	38.5	41.2	46.3	47.2	54.7	56.8	59.2	60.2	58.4	54.5	45.9	43.5	49.9
1888	35.2	44.5	46.1	50.6	56.4	M	M	63.1	62.5	55.7	46.7	45.7	53.1
1889	42.4	44.9	51.8	52.7	57.6	60.4	62.2	59.3	59.5	57.6	49.3	40.7	53.2
1890	35.3	40.2	44.5	48.3	57.1	57.8	60.4	61.5	58.1	52.2	49.2	46.3	50.9
1891	45.3	39.5	44.4	50.3	55.1	57.6	62.5	65.3	59.0	56.8	49.5	43.7	52.5
1892	42.5	45.1	48.4	47.5	54.8	57.9	60.2	62.1	58.8	54.6	47.8	41.3	51.7
1893	38.7	40.0	45.1	45.7	52.6	55.6	60.8	62.5	57.4	50.4	45.6	45.4	50.0
1894	41.6	40.2	43.5	48.1	53.2	56.8	60.9	65.2	59.1	52.5	49.5	40.8	50.9
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual

ASTORIA: Monthly & Annual Average MEAN Temperatures

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1895	40.5	44.6	45.8	49.4	54.6	58.2	62.0	61.5	56.3	55.5	45.8	43.3	51.5
1896	43.5	46.5	44.3	46.7	51.3	57.8	64.2	63.8	59.7	54.3	41.6	46.0	51.6
1897	41.4	42.9	41.6	51.7	57.1	60.1	60.1	63.3	58.0	54.4	46.4	45.3	51.9
1898	41.3	45.9	44.2	49.8	54.4	59.3	60.6	63.1	60.0	53.8	46.5	41.8	51.7
1899	43.1	40.0	43.8	48.2	50.2	55.3	61.7	59.9	60.5	53.2	52.9	45.9	51.2
1900	45.0	42.5	48.9	50.0	53.1	57.8	60.3	60.3	58.5	52.2	46.9	45.8	51.8
1901	40.5	42.2	45.1	46.4	51.7	53.8	57.2	59.9	56.7	57.1	49.8	42.7	50.3
1902	40.8	46.8	44.6	48.0	53.3	57.6	60.3	61.7	58.1	55.5	47.4	43.6	51.5
1903	44.1	41.1	44.7	48.1	53.4	60.3	62.9	62.3	58.4	54.7	46.7	43.0	51.6
1904	41.9	40.4	42.0	53.5	54.2	56.7	60.7	60.6	60.1	56.3	52.5	44.7	52.0
1905	42.5	44.3	50.8	52.8	53.2	57.1	61.7	61.7	59.0	51.6	46.9	42.0	52.0
1906	43.4	47.1	45.1	52.1	54.3	58.1	65.0	62.2	59.2	56.8	47.3	44.4	52.9
1907	37.5	46.0	44.3	51.0	56.3	59.1	62.3	61.6	60.2	59.0	52.0	45.3	52.9
1908	45.0	44.9	49.2	53.1	54.6	60.3	67.3	62.7	61.1	53.8	51.6	41.6	53.8
1909	37.4	43.4	47.1	50.2	52.2	58.5	60.8	61.9	M	54.9	M	M	51.8
1910	41.6	41.1	48.5	49.5	54.8	55.6	60.1	58.6	58.0	54.9	47.4	44.7	51.2
1911	39.3	41.0	47.6	46.7	50.5	54.4	61.0	60.9	57.5	54.8	47.0	42.8	50.3
1912	43.5	46.0	45.6	48.0	56.1	58.4	60.9	61.6	60.5	52.4	47.8	43.1	52.0
1913	38.8	41.9	43.6	48.6	53.3	58.1	61.9	62.8	60.1	52.9	48.0	43.5	51.1
1914	45.4	44.1	49.5	51.3	56.1	56.3	61.0	60.5	57.6	56.4	48.4	39.7	52.2
1915	41.9	45.4	51.7	52.2	54.8	58.4	61.6	64.1	60.0	55.4	45.8	43.3	52.9
1916	32.7	45.7	46.2	50.1	51.3	57.1	60.6	63.1	60.6	53.1	45.0	40.2	50.5
1917	40.0	40.9	42.0	46.4	51.7	56.7	61.5	63.3	61.6	56.7	51.9	M	52.1
1918	43.8	42.8	45.3	50.7	52.8	60.3	62.2	63.6	62.5	55.5	47.9	43.8	52.6
1919	43.9	43.9	47.5	51.0	54.9	62.3	63.0	62.0	61.7	51.9	45.6	38.8	52.2
1920	41.1	43.5	45.1	46.4	51.5	57.1	62.1	63.8	59.0	52.6	48.0	44.9	51.3
1921	42.0	44.2	45.7	48.6	53.1	58.9	60.4	61.3	58.4	56.2	48.7	41.1	51.6
1922	37.7	39.8	42.4	47.4	53.5	59.5	62.1	61.4	60.7	55.3	45.7	42.5	50.7
1923	M	36.7	42.6	47.9	49.9	54.2	59.0	62.5	60.1	56.0	51.2	43.6	51.2
1924	41.0	46.7	44.1	48.1	53.7	56.8	60.0	60.1	58.8	53.5	46.2	37.0	50.5
1925	43.5	46.1	44.6	49.5	55.7	57.1	60.4	59.8	59.1	54.1	47.1	46.0	51.9
1926	43.4	47.2	50.7	54.9	54.2	59.5	60.4	60.7	56.3	54.3	49.6	41.4	52.7
1927	40.8	43.4	44.0	47.8	50.3	57.8	59.7	61.6	58.9	53.5	47.4	38.8	50.3
1928	40.7	44.2	48.6	48.8	55.2	57.7	61.5	60.5	57.3	53.5	48.0	42.4	51.5
1929	37.5	39.0	46.0	47.0	53.4	58.2	63.3	63.3	61.7	56.3	46.6	44.8	51.4
1930	32.2	45.2	48.2	52.7	52.1	57.3	57.5	63.8	60.4	53.3	47.6	43.8	51.2
1931	45.9	46.0	48.7	52.5	57.7	59.3	63.4	63.7	58.7	54.1	45.3	41.4	53.1
1932	40.4	41.7	47.6	49.9	54.2	59.9	59.6	63.3	60.9	55.9	49.2	40.0	51.9
1933	39.8	39.4	45.3	48.7	49.9	56.0	60.6	62.8	56.8	54.5	48.2	46.7	50.7
1934	46.8	49.9	51.9	54.7	58.2	58.4	61.0	62.4	60.2	55.5	50.2	45.1	54.5
1935	41.7	46.9	41.9	49.7	53.3	60.1	60.7	62.6	60.5	52.9	44.8	44.3	51.6
1936	44.3	37.8	43.9	51.0	56.5	60.6	62.2	64.8	59.1	56.0	47.3	44.0	52.3
1937	33.0	41.6	49.0	47.3	53.8	59.8	61.5	61.8	59.7	58.1	49.0	45.0	51.6
1938	43.5	42.9	44.7	51.5	54.2	57.5	60.3	60.0	61.2	55.2	45.7	43.2	51.7
1939	43.6	39.6	45.1	51.1	54.3	55.5	61.3	62.8	62.0	52.1	47.5	47.7	51.9
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual

ASTORIA: Monthly & Annual Average MEAN Temperatures

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1940	44.9	47.2	49.3	52.5	57.5	60.7	60.9	64.2	62.0	58.6	46.8	46.4	54.2
1941	46.7	50.1	53.9	52.5	56.0	58.8	64.6	62.1	57.4	55.8	49.9	44.0	54.3
1942	41.5	45.9	46.5	51.1	53.0	57.0	63.5	64.1	60.2	55.6	45.3	43.1	52.2
1943	37.0	44.6	44.0	50.6	51.4	M	M	M	M	M	48.4	42.9	45.6
1944	42.1	43.1	45.0	49.7	53.9	57.2	60.3	61.1	59.8	56.6	46.0	41.3	51.3
1945	43.2	43.7	43.0	47.0	53.7	56.6	60.8	59.8	58.0	53.1	45.4	42.6	50.6
1946	42.8	42.5	45.1	47.8	55.3	57.1	62.1	60.2	58.9	49.5	43.7	42.3	50.6
1947	38.0	46.6	48.6	51.6	56.2	57.2	61.0	60.0	59.1	52.5	45.2	43.5	51.6
1948	40.5	39.3	42.7	44.8	51.8	59.4	59.2	59.2	57.6	51.3	42.3	36.9	48.8
1949	31.0	37.7	44.4	48.7	53.7	55.1	58.3	59.7	58.3	48.4	49.5	41.5	48.9
1950	32.1	41.8	43.5	46.9	51.1	58.2	59.6	61.7	58.1	50.9	46.7	47.4	49.8
1951	40.8	43.0	41.0	50.8	52.7	57.9	61.1	59.6	58.4	53.0	46.5	40.0	50.4
1952	37.5	41.2	42.4	49.3	53.7	55.9	60.1	60.1	59.6	57.3	45.1	43.3	50.5
1953	47.9	43.5	44.6	47.7	52.5	54.9	60.3	61.1	59.4	54.2	49.6	45.3	51.8
1954	40.3	45.0	42.7	46.5	52.3	54.2	57.7	59.6	58.6	52.7	50.6	43.4	50.3
1955	41.0	41.2	41.3	43.5	49.2	55.3	57.8	58.3	56.7	52.2	42.9	41.5	48.4
1956	41.8	38.4	42.8	48.5	53.9	55.1	60.9	59.9	57.2	50.3	44.7	42.3	49.7
1957	35.8	42.4	45.6	48.8	54.2	57.8	58.9	60.1	62.0	53.1	45.9	45.0	50.8
1958	45.9	49.2	44.7	48.4	55.5	60.9	62.6	61.9	58.9	55.0	46.4	47.6	53.1
1959	43.7	42.9	45.0	49.4	52.2	56.8	60.3	58.8	56.4	53.6	46.6	42.1	50.7
1960	40.3	43.7	44.8	49.1	51.0	56.3	59.0	59.8	57.3	53.5	46.9	43.5	50.4
1961	47.3	46.5	45.7	47.5	52.6	58.7	61.9	61.3	56.4	51.0	43.7	42.3	51.2
1962	40.1	43.7	43.2	48.3	50.3	54.8	58.2	60.5	58.5	53.3	48.8	44.5	50.4
1963	36.9	49.6	45.0	48.0	53.0	55.8	60.2	61.0	61.1	54.9	47.7	44.4	51.5
1964	43.6	42.3	44.3	45.8	49.4	55.2	59.2	59.3	57.4	53.8	44.8	40.0	49.6
1965	42.3	44.2	47.2	49.2	50.8	56.1	60.2	61.7	57.0	55.3	48.8	40.3	51.1
1966	42.3	42.6	43.7	49.0	50.5	56.2	59.6	60.3	59.2	51.7	47.7	45.5	50.7
1967	43.8	43.2	42.2	44.0	51.7	58.2	61.0	62.8	60.4	52.9	48.1	41.2	50.8
1968	42.0	47.5	46.7	46.1	52.2	56.1	60.9	60.0	57.9	50.6	47.1	39.5	50.6
1969	34.3	40.3	44.3	46.8	53.5	59.6	58.5	58.7	57.2	51.0	46.5	44.1	49.6
1970	41.8	46.3	44.9	45.3	51.4	56.6	59.2	60.2	56.0	51.0	47.1	40.8	50.1
1971	40.7	42.2	42.0	46.5	51.3	54.6	59.4	62.4	57.8	51.2	46.8	41.2	49.7
1972	40.0	43.2	47.8	46.6	54.6	58.2	62.1	63.4	57.6	52.2	47.2	38.6	51.0
1973	40.5	44.3	44.3	48.9	53.3	56.6	59.7	57.6	57.9	51.1	44.2	45.1	50.3
1974	38.9	41.9	44.6	48.0	50.5	56.1	59.2	62.0	60.8	51.9	48.0	45.5	50.6
1975	42.9	43.1	43.7	44.9	52.8	55.6	60.6	59.7	59.2	50.9	46.1	44.6	50.3
1976	44.1	42.6	43.7	48.7	52.7	55.9	61.0	61.6	60.7	53.1	48.0	43.5	51.3
1977	39.8	46.8	44.5	48.9	50.1	56.8	58.6	62.7	57.0	51.7	44.6	43.9	50.4
1978	44.0	46.0	47.0	48.7	52.2	59.4	60.9	61.5	58.0	54.3	41.7	37.6	50.9
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual

ASTORIA: Monthly & Annual Average MEAN Temperatures

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1979	35.3	41.8	47.3	49.2	53.8	56.7	62.3	61.8	61.4	54.9	46.9	47.3	51.6
1980	38.7	46.4	44.8	49.5	52.3	55.4	60.7	58.8	58.9	55.0	50.1	47.5	51.5
1981	48.2	46.6	48.0	49.5	53.3	57.7	60.4	62.4	59.1	52.7	49.0	45.2	52.7
1982	41.6	43.9	45.1	46.8	52.2	57.8	59.2	61.3	59.7	55.5	46.6	43.5	51.1
1983	47.3	50.2	50.8	50.2	55.7	59.8	61.2	61.7	56.5	50.4	48.6	37.9	52.5
1984	43.5	45.4	48.4	46.7	50.8	55.5	59.6	59.9	58.4	50.3	46.6	39.6	50.4
1985	39.3	40.3	42.8	48.4	52.5	56.8	60.6	59.4	56.1	50.6	39.2	39.3	48.8
1986	46.9	44.1	49.2	47.4	52.8	58.3	58.6	61.0	55.7	54.8	47.9	44.4	51.8
1987	43.6	46.3	48.0	50.4	55.0	57.3	59.2	60.4	58.4	54.5	49.6	40.8	52.0
1988	41.7	45.8	45.4	48.9	52.5	55.6	59.9	59.2	56.6	55.4	47.4	43.3	51.0
1989	42.1	37.1	45.0	51.5	53.1	58.6	59.7	60.5	60.4	52.7	49.2	44.0	51.2
1990	44.7	43.1	47.5	50.3	52.9	57.6	62.3	62.7	60.8	51.1	47.8	36.9	51.5
1991	41.3	48.0	43.3	46.8	50.7	54.5	59.5	59.7	60.6	51.2	47.2	44.5	50.6
1992	45.1	48.3	48.9	50.9	54.7	58.6	60.6	60.6	56.3	52.6	46.3	40.6	52.0
1993	38.9	41.8	47.3	49.2	56.2	57.5	58.9	60.7	56.6	54.1	42.2	42.6	50.5
1994	45.1	42.1	48.1	50.0	53.8	56.5	59.6	61.7	60.3	50.3	41.9	42.3	51.0
1995	46.3	46.2	46.4	48.4	53.8	57.3	61.9	59.8	61.4	53.0	50.6	45.2	52.5
1996	42.4	44.1	46.5	50.4	51.0	56.4	60.5	60.3	56.8	51.7	45.7	43.6	50.8
1997	43.5	43.8	45.9	48.9	56.8	58.1	61.4	63.8	61.9	52.7	50.2	43.8	52.6
1998	45.7	46.7	46.5	48.1	52.0	55.7	60.0	61.2	58.5	52.3	47.2	41.9	51.3
1999	43.0	44.2	44.5	47.5	51.5	56.5	59.1	61.5	57.8	52.5	54.4	47.4	51.7
2000	43.2	45.8	45.5	51.1	53.8	58.2	62.2	61.3	59.6	56.0	46.6	44.9	52.4
2001	44.4	43.0	46.1	46.9	52.9	55.2	58.6	60.7	57.6	51.4	48.6	44.1	50.8
2002	43.2	44.1	44.2	48.5	51.0	57.7	61.4	60.3	58.6	51.9	48.6	45.6	51.3
2003	48.4	44.1	47.6	48.4	52.5	58.6	61.8	61.4	59.5	55.4	45.3	44.1	52.3
2004	42.9	45.6	48.0	50.9	55.0	59.5	62.9	63.8	58.4	53.5	46.2	44.9	52.6
2005	44.7	44.7	48.3	49.8	56.4	58.3	62.0	62.3	56.0	53.2	45.2	43.5	52.0
2006	46.2	42.7	44.8	48.8	53.3	58.7	60.5	59.1	58.4	51.0	46.5	42.7	51.1
2007	40.1	43.9	46.7	47.8	52.8	56.2	62.0	61.3	57.5	51.0	45.2	42.2	50.6
2008	40.4	43.6	43.3	45.2	53.2	54.3	58.5	60.3	58.7	52.5	49.9	40.1	50.0
2009	43.2	42.4	43.5	48.2	53.2	59.0	61.7	61.8	60.4	53.3	48.5	40.2	51.3
2010	48.2	47.7	48.1	48.6	51.0	56.3	59.5	60.2	59.7	53.0	44.7	44.5	51.8
2011	42.3	40.6	45.1	44.9	50.2	56.7	59.1	61.0	59.7	53.2	44.6	40.1	49.8
2012	42.3	44.1	43.6	48.8	51.5	55.1	59.3	60.7	58.1	52.1	47.9	43.7	50.6
2013	40.8	44.4	46.3	48.7	54.0	58.9	60.2	61.4	59.9	51.0	46.9	37.9	50.9
2014	44.9	42.3	48.1	50.3	56.5	58.7	61.5	63.2	62.4	58.1	47.2	47.1	53.4
2015	46.3	49.5	49.7	49.3	55.0	59.8	64.1	63.7	59.2	58.1	46.9	46.2	54.0
2016	45.7	49.0	48.9	53.3	55.7	59.1	62.8	64.3	60.5	56.2	53.3	41.1	54.2
2017	39.9	42.8	46.5	49.0	53.7	58.2	60.3	62.1	60.6	51.9	47.6	42.4	51.3
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual

ASTORIA: Monthly & Annual Average MEAN Temperatures

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2018	47.3	42.1	44.8	49.8	55.7	58.2	61.3	61.9	58.1	53.5	48.8	44.7	52.2
2019	45.3	38.8	45.0	50.3	55.4	58.1	62.1	63.4	59.7	49.8	46.1	43.6	51.5
2020	45.7	42.6	43.1	48.5	55.2	57.5	60.0	61.5	62.3	52.8	46.0	44.8	51.7
2021	43.4	42.4	43.5	49.1	53.3	60.5	60.9	61.0	58.9	52.6	48.9	40.8	51.3
2022	44.5	44.2	45.5	46.7	51.2	58.6	62.8	64.4	61.2	56.0	43.7	42.2	51.8
2023	43.7	41.6	43.5	47.6	56.8	57.2	62.2	65.5	59.1	55.6	47.1	47.4	52.1
2024	45.2												
2025													
2026													
2027													
2028													
2029													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
normal	43.7	44.2	46.0	48.7	53.4	57.3	60.6	61.3	59.0	52.8	46.9	43.2	51.4

Normal are 1991-2020 normals

Progression of Astoria's 30-Year Climatic Normals for MAXIMUM Temperatures

30-year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
1891-1920	41.6	43.6	46.1	49.6	53.6	57.7	61.6	62.2	59.3	54.5	47.8	43.3	51.8
1901-1930	40.8	43.6	46.0	49.6	53.4	57.8	61.3	61.9	59.3	54.7	48.0	42.8	51.7
1911-1940	41.0	43.6	45.9	49.4	53.8	58.1	61.1	62.4	59.9	54.7	47.4	42.9	51.9
1921-1950	40.6	43.4	46.0	49.3	53.9	58.0	60.9	61.8	59.4	54.2	47.2	42.9	51.6
1931-1960	40.7	42.8	44.5	49.0	53.3	57.3	60.6	61.0	58.0	52.9	46.3	43.1	50.8
1941-1970	40.6	43.6	44.4	47.8	52.3	56.5	60.0	60.3	58.4	52.8	46.5	42.8	50.5
1951-1980	41.1	43.9	44.4	47.6	52.2	56.6	60.1	60.6	58.5	52.9	46.6	43.1	50.6
1961-1990	41.9	44.2	45.7	48.2	52.5	56.9	60.0	60.7	58.4	52.6	46.9	42.4	50.9
1971-2000	42.4	44.2	45.8	48.3	52.6	56.6	60.0	60.5	58.4	52.4	46.4	42.6	50.9
1981-2010	43.8	44.4	46.4	48.7	53.0	57.0	60.3	60.9	58.5	52.6	46.8	42.7	51.3
1991-2020	43.7	44.2	46.0	48.7	53.4	57.3	60.6	61.3	59.0	52.8	46.9	43.2	51.4
2001-2030													

¹Normals 1971-2000 recalculated using same methodology as that of the 1981-2010. There may or may not be much difference from the original 1971-2000 normals data set, but this process does yield more realistic normal for that period. Same process is used for subsequent normals (1981-2010 and 1991-2020).

Top 5 Warmest/Coldest Months and Years¹

Astoria: 1887 through Jan 2024

	Average MAX Temp				Average MIN Temp				Average MEAN Temp			
	warmest		coldest		warmest		coldest		warmest		coldest	
January	55.2	1981	37.2	1949	43.1	2003	24.9	1949	48.4	2003	31.0	1949
	54.2	1986	37.4	1916	42.9	2010	26.6	1950	48.2	2010	32.1	1950
	53.8	1961	37.5	1950	42.8	1953	26.9	1930	48.2	1981	32.2	1930
	53.8	1941	37.5	1930	42.3	2018	27.2	1937	47.3	2018	32.7	1916
	53.6	2010	38.8	1937	41.6	1934	28.0	1916	47.3	1983	33.0	1937
	normal temp 49.4				normal temp 38.1				normal temp 43.7			
February	59.5	1941	41.8	1923	44.3	1983	29.8	1989	50.2	1983	36.7	1923
	58.8	1934	43.6	1956	43.0	1958	30.9	1936	50.1	1941	37.1	1989
	57.1	1963	44.1	1949	42.7	2016	31.2	1949	49.9	1934	37.7	1949
	56.5	2015	44.3	1989	42.5	2015	31.6	1923	49.6	1963	37.8	1936
	56.1	1983	44.6	1899	42.2	1963	32.0	1929	49.5	2015	38.4	1956
	normal temp 50.9				normal temp 37.4				normal temp 44.2			
March	65.2	1941	46.9	1897	45.3	1889	33.4	1954	53.9	1941	41.0	1951
	60.7	1934	47.6	1923	44.4	1915	34.3	1951	51.9	1934	41.3	1955
	60.3	2023	47.7	1955	43.6	1983	34.4	2019	51.8	1889	41.6	1897
	60.0	1926	47.7	1951	43.6	1905	34.6	1943	51.7	1915	41.9	1935
	59.1	1915	47.8	1904	43.4	1934	34.7	1985	50.8	1983	42.0	1971
	normal temp 53.0				normal temp 39.0				normal temp 46.0			
April	64.8	1926	50.5	1893	46.3	1934	35.1	1967	54.9	1926	43.5	1955
	64.8	1908	51.2	1955	45.6	1889	35.8	1955	54.7	1934	44.0	1967
	63.3	1941	51.6	2011	45.5	1930	36.8	1975	53.5	1904	44.8	1948
	63.0	1934	52.2	1948	45.0	1926	37.4	1948	53.3	2016	44.9	2011
	62.1	1904	52.3	1917	44.9	2016	37.8	2008	53.1	1908	44.9	1975
	normal temp 55.9				normal temp 41.5				normal temp 48.7			
May	69.0	1940	54.1	1923	50.3	1907	41.0	1943	58.2	1934	49.2	1955
	67.4	1934	55.5	1899	49.9	1889	41.6	1966	57.7	1931	49.4	1964
	66.5	1931	56.1	1991	49.6	2005	41.6	1964	57.6	1889	49.9	1933
	65.7	1947	56.5	1933	49.6	1897	41.8	1955	57.5	1940	49.9	1923
	65.5	1925	56.6	1962	49.5	2023	42.2	1977	57.1	1897	50.1	1977
	normal temp 60.5				normal temp 46.3				normal temp 53.4			
June	71.9	1940	59.4	1901	57.1	1919	44.9	1949	62.3	1919	53.8	1901
	70.8	1908	59.9	1923	54.5	1897	46.8	1988	60.9	1958	54.2	1954
	68.9	1948	60.1	1998	54.3	1958	47.2	1966	60.7	1940	54.2	1923
	68.8	1941	60.2	1911	53.4	1969	47.4	1954	60.6	1936	54.3	2008
	68.8	1903	60.5	1991	52.8	1907	47.4	1945	60.5	2021	54.4	1911
	normal temp 64.0				normal temp 50.6				normal temp 57.3			
July	79.7	1908	63.8	1955	56.8	2016	46.8	1949	67.3	1908	57.2	1901
	74.2	1941	63.8	1901	56.6	1896	48.0	1930	65.0	1906	57.5	1930
	73.6	1906	64.3	1993	56.3	1906	50.0	1926	64.6	1941	57.7	1954
	73.4	1929	64.5	1923	56.0	2015	50.2	1977	64.2	1896	57.8	1955
	73.1	1942	64.7	2001	56.0	1907	50.3	1960	64.1	2015	58.2	1962
	normal temp 67.4				normal temp 53.9				normal temp 60.6			

¹ Normals are the 1991-2020 climate normals.

Top 5 Warmest/Coldest Months and Years¹

Astoria: 1887 through Jan 2024

	Average MAX Temp				Average MIN Temp				Average MEAN Temp			
	warmest		coldest		warmest		coldest		warmest		coldest	
August	75.7	1942	64.3	1910	58.0	1894	48.9	1969	65.5	2023	57.6	1973
	74.4	1931	64.6	1980	58.0	1891	49.7	1973	65.3	1891	58.3	1955
	74.2	2023	65.3	1899	57.6	1896	49.9	1966	65.2	1894	58.6	1910
	74.1	1940	65.4	1973	57.5	2004	50.0	1955	64.8	1936	58.7	1969
	73.8	1972	65.6	1991	57.1	1898	50.1	1984	64.4	2022	58.8	1980
	normal temp 68.7				normal temp 53.9				normal temp 61.3			
September	73.0	1908	62.6	1895	56.2	1888	46.2	2005	62.5	1918	55.7	1986
	72.7	1929	63.2	1901	54.7	1907	46.2	1970	62.5	1888	56.0	2005
	72.5	1957	63.2	1893	54.5	2020	46.4	1983	62.4	2014	56.0	1970
	72.4	1989	63.5	1914	54.5	1918	46.8	1988	62.3	2020	56.1	1985
	71.9	2014	63.9	1911	53.9	1995	46.9	1960	62.0	1957	56.3	1992
	normal temp 67.6				normal temp 50.5				normal temp 59.0			
October	67.4	1937	55.5	1946	52.1	1889	39.0	1949	59.0	1907	48.4	1949
	67.1	1907	55.5	1893	51.6	1891	40.4	1983	58.6	1940	49.5	1946
	67.0	1942	56.5	1975	51.5	1901	40.9	2019	58.1	2015	49.8	2019
	66.1	1987	57.2	1950	51.1	1940	40.9	1991	58.1	2014	50.3	1994
	66.0	1940	57.4	1900	51.1	1888	41.3	1994	58.1	1937	50.3	1984
	normal temp 60.7				normal temp 44.9				normal temp 52.8			
November	60.2	1999	45.2	1985	48.8	1899	33.1	1985	54.4	1999	39.2	1985
	59.4	1907	46.1	1896	48.6	1999	33.7	1978	53.3	2016	41.6	1896
	59.1	2016	48.3	1948	47.6	2016	34.0	1993	52.9	1899	41.7	1978
	59.1	1917	48.6	1955	47.4	1904	34.8	1994	52.5	1904	41.9	1994
	58.5	1923	49.0	1994	45.4	1908	35.4	2022	52.0	1907	42.2	1993
	normal temp 53.6				normal temp 40.2				normal temp 46.9			
December	53.9	1939	41.9	1924	42.5	1950	30.8	1985	47.7	1939	36.9	1990
	53.2	1979	42.6	1990	42.1	1999	31.1	1948	47.6	1958	36.9	1948
	53.2	1958	42.6	1948	42.1	1888	31.2	1990	47.5	1980	37.0	1924
	53.1	2023	43.8	1983	42.0	1980	31.3	1978	47.4	2023	37.6	1978
	53.0	1980	43.9	1978	42.0	1958	31.6	2013	47.4	1999	37.9	2013
	normal temp 48.7				normal temp 37.6				normal temp 43.2			
Annual	63.5	1941	55.3	1955	47.8	1889	40.1	1949	54.5	1934	48.5	1955
	63.0	1940	55.6	1893	47.2	2016	40.8	1985	54.3	1941	48.8	1985
	62.8	1908	56.1	1901	47.0	1934	41.3	1948	54.2	2016	48.8	1948
	62.0	1934	56.2	1948	46.9	1907	41.5	1955	54.2	1940	48.9	1949
	61.8	2015	56.3	1923	46.5	1918	41.9	1969	54.0	2015	49.6	1969
	61.5	1942	56.6	2011	46.5	1915	42.0	1970	53.8	1908	49.6	1964
	61.2	2016	56.6	1894	46.4	1906	42.2	1964	53.4	2014	49.7	1971
	60.8	1958	56.7	1985	46.3	2014	42.5	1956	53.1	1958	49.7	1956
	60.5	1931	56.7	1950	46.2	2015	42.6	1973	53.1	1931	49.8	2011
	60.4	2014	56.7	1911	46.1	1897	42.6	1971	52.9	1915	48.9	1950
	normal temp 58.4				normal temp 44.5				normal temp 51.4			

¹Normals are the 1991-2020 climate normals.

Top 5 Warmest and Coldest Seasons¹

Astoria: 1887 through 2023

	Average MAX				Average MIN				Average MEAN			
	warmest		coldest		warmest		coldest		warmest		coldest	
Winter Dec 21- Mar 20 <i>[91 days]</i>	53.6	1991-92	44.7	1951-52	40.8	2015-16	34.2	1951-52	46.8	2015-16	39.4	1951-52
	53.6	1939-40	46.2	1955-56	40.0	1991-92	34.5	1947-48	46.8	1991-92	40.4	1955-56
	52.9	2015-17	46.6	1915-16	39.0	1895-96	34.6	1955-56	46.3	1939-40	40.6	1915-16
	52.8	1907-08	46.7	1903-04	39.0	1939-40	34.7	1915-16	45.7	1907-08	40.8	1947-48
	51.6	1967-68	47.2	1947-48	38.6	1907-08	35.3	1959-60	45.1	1967-68	41.4	1903-04
	normal 50.8				normal 37.9				normal 44.3			
Rainy Season Oct 15-Mar 15 <i>[152 days]</i>	57.1	1940-41	45.5	1948-49	42.4	1899-00	32.7	1948-49	49.2	1940-41	39.1	1948-49
	55.9	1980-81	47.5	1951-52	42.3	1933-34	34.2	1978-79	48.7	1933-34	41.4	1978-79
	55.5	2014-15	48.0	1955-56	42.1	2014-15	34.6	1984-85	48.6	2014-15	41.5	1968-69
	55.2	1933-34	48.1	1968-69	41.8	1982-83	34.9	1968-69	48.6	1980-81	41.9	1984-85
	54.9	1907-08	48.1	1892-93	41.5	1904-05	35.2	1942-43	48.3	2015-16	42.0	1949-50
	normal 52.0				normal 39.0				normal 45.5			
Spring Mar 21-Jun 20 <i>[92 days]</i>	65.9	1940	55.0	1923	48.1	1919	40.5	1943	56.4	1934	48.0	1955
	65.6	1941	55.3	1955	47.8	1897	40.8	1955	55.7	1940	49.0	2008
	65.0	1934	55.4	2008	47.8	1934	41.1	1949	55.3	1931	49.0	1964
	64.7	1908	55.5	1901	47.8	1915	41.2	1970	55.2	1941	49.1	1991
	63.8	1926	55.6	1991	47.4	1907	41.6	1964	54.9	1926	49.3	2011
	normal 59.2				normal 44.9				normal 52.0			
Summer Jun 21-Sep 22 <i>[94 days]</i>	75.6	1908	64.4	1901	55.7	1896	48.0	1949	64.2	1908	57.7	1955
	73.8	1942	65.1	1955	55.7	1891	49.7	1988	63.0	2022	57.9	1901
	72.9	1929	65.2	1910	55.6	1907	49.7	1969	63.0	1929	58.0	1969
	72.6	1940	65.3	1954	55.4	2004	50.0	1970	63.0	1896	58.3	1954
	71.6	2015	65.7	1993	55.2	1918	50.0	1966	62.9	1942	58.3	1949
	normal 68.2				normal 53.1				normal 60.6			
Deep Summer Jul 5-Sep 5 <i>[63 days]</i>	76.2	1908	65.3	1901	57.3	1896	48.9	1949	65.0	1908	58.4	1969
	73.3	1942	65.7	1954	57.2	1891	49.7	1969	64.3	1896	58.6	1901
	73.2	1931	65.8	1910	56.7	2004	50.0	1973	64.3	1891	58.8	1973
	73.0	1929	65.8	2001	56.2	2016	50.3	1984	63.8	1931	58.9	1955
	72.6	1972	66.1	1980	56.0	1918	50.9	1966	63.7	2022	58.9	1954
	normal 68.6				normal 54.0				normal 61.3			
Autumn Sep 22-Dec 21 <i>[91 days]</i>	63.0	1909	52.2	1948	47.7	1917	37.0	1985	55.2	1917	45.0	1985
	62.8	1917	52.6	1943	47.1	1899	38.4	1961	54.9	1909	45.3	1948
	60.4	1907	53.0	1985	46.8	1909	38.4	1948	53.5	1907	45.7	1943
	60.2	1941	53.0	1946	46.7	1904	38.6	1943	52.7	1904	46.3	1961
	59.9	1937	53.2	1919	46.6	1907	38.7	1972	52.5	2014	46.5	1945
	normal 56.6				normal 42.2				normal 49.4			
Early Autumn Sep 15-Oct 31 <i>[47 days]</i>	68.4	1942	58.0	1893	52.1	1907	41.2	1949	59.4	1940	51.4	1949
	68.0	1936	59.0	1946	51.6	2014	41.4	1983	59.1	2014	51.9	1961
	67.4	1940	59.1	1900	51.6	1918	43.0	1985	59.0	1907	52.0	1983
	67.3	1987	59.6	1905	51.4	1940	43.1	1961	58.3	1952	52.0	1948
	66.9	1937	59.7	1894	51.4	1906	43.5	1972	58.2	1917	52.1	1985
	normal 66.0				normal 47.9				normal 57.0			

¹For calculation of averages, no missing daily data are allowed, as need all days in the month or season for the rankings.

Normals are based on 1991-2020 data. **Period of record: Apr 1887 to Dec 2023.**

ASTORIA: Top 10 WARMEST & COOLEST Days (maximum temperature)

Date Format: DD.YYYY, where DD is day and YYYY is year

	COOLEST Days (coolest high temp)						WARMEST Days (warmest high temp)					
	January		February		March		January		February		March	
	temp	date ¹	temp	date ¹	temp	date ¹	temp	date ¹	temp	date ¹	temp	date ¹
1	16	16.1888	19	03.1989	34	02.1896	70	30.1940	72	15.1996	80	14.1926
2	19	15.1888	27	02.1989	34	01.1896	67	07.1986	72	28.1968	79	27.1941
3	22	14.1888	27	04.1899	36	08.1923	66	19.2005	71	26.1992	77	19.2019
4	24	14.1950	27	03.1899	37	05.1951	66	31.1940	71	27.1968	77	20.1915
5	25	31.1950	29	06.2014	37	12.1906	65	29.2024	68	23.2005	76	20.2019
6	25	12.1909	29	04.1989	38	01.1966	65	20.1961	68	21.1973	76	08.1905
7	26	11.1963	29	01.1950	38	02.1960	65	31.1935	68	10.1963	75	28.1941
8	26	18.1950	30	02.1950	38	04.1935	64	17.2018	68	28.1938	75	28.1930
9	26	10.1909	30	02.1899	39	08.1951	64	24.2006	68	21.1908	75	20.1914
10	26	09.1909	30	26.1890	39	06.1951	64	28.1940	67	09.2016	75	10.1905
	April		May		June		April		May		June	
1	42	03.1975	46	01.1923	49	01.1923	86	28.2023	93	14.2023	101	27.2021
2	43	01.1936	48	02.1955	50	02.1923	85	17.2016	93	16.2008	99	30.1942
3	44	27.1955	48	26.1923	51	10.2008	84	30.2014	91	15.2006	97	08.1903
4	44	20.1923	48	07.1887	51	06.1924	83	16.1999	91	26.2005	96	24.1925
5	44	11.1911	48	06.1887	52	20.1991	83	26.1987	89	13.2023	94	07.1903
6	44	02.1901	49	22.1923	52	01.1971	83	20.1956	89	13.1939	93	24.2017
7	45	28.2011	49	08.1901	52	02.1966	83	25.1941	89	13.1912	93	08.1955
8	45	03.2010	50	01.2017	52	13.1923	83	29.1908	88	22.1941	93	29.1908
9	45	04.1999	50	07.2008	53	05.1956	82	24.2018	87	14.2014	92	26.2022
10	45	22.1961	50	05.1971	53	11.1952	82	27.1926	87	16.1985	92	29.1995
	July		August		September		July		August		September	
1	56	07.1935	56	22.1919	52	24.1924	101	01.1942	98	19.2016	95	02.1972
2	56	06.1923	57	02.1956	53	27.1922	100	11.1961	96	09.1981	92	22.2009
3	57	15.2001	57	10.1911	54	29.2019	96	23.2004	96	17.1940	92	04.1955
4	57	03.1998	57	20.1908	54	28.1972	95	14.1941	95	14.2023	91	04.2017
5	57	01.1964	58	20.1901	54	30.1898	95	12.1906	95	13.2002	91	13.1957
6	57	03.1938	59	28.1991	55	29.1971	94	08.1905	95	11.1992	91	02.1934
7	58	03.1980	59	19.1975	55	29.1959	93	07.2010	95	20.1915	91	10.1922
8	58	08.1935	59	25.1938	55	23.1948	93	19.1988	94	07.1978	90	01.1972
9	58	07.1923	59	31.1928	55	25.1920	93	31.1913	94	22.1942	90	06.1958
10	58	01.1912	59	22.1925	55	29.1905	93	10.1908	93	13.2023	89	22.1989
	October		November		December		October		November		December	
1	42	30.1935	27	15.1955	21	21.1990	85	06.1987	73	03.2010	64	26.1980
2	44	28.1991	29	30.1985	22	20.1990	85	02.1980	73	09.1907	63	14.2018
3	44	31.1955	29	14.1955	23	30.1968	83	06.2023	71	08.2016	63	03.2015
4	46	31.1956	30	16.1955	23	18.1924	83	15.2022	71	11.1999	63	11.2014
5	46	26.1946	31	24.2010	24	22.1990	83	10.1991	71	02.1970	63	10.2014
6	46	25.1939	31	23.2010	24	22.1983	82	01.2022	71	01.1969	63	10.1995
7	46	24.1939	31	12.1955	24	20.1924	82	04.1942	71	05.1923	63	25.1980
8	46	31.1935	31	27.1896	24	12.1919	82	09.1936	70	02.1981	63	03.1979
9	47	28.1946	32	29.1985	25	31.1978	81	05.2015	70	01.1970	63	24.1963
10	47	29.1935	32	13.1955	25	31.1927	81	09.1996	70	08.1941	63	02.1940

¹ Data for 10th may or may not be most recent of multiple occurrences.

Period of Record: Apr 1887 to Jan 2024.

ASTORIA: Top 10 COLDEST & MILDEST Nights (minimum temperatures)

Date Format: DD.YYYY, where DD is day and YYYY is year

	COLDEST Nights (coolest low temp)						MILDEST Nights (warmest low temp)					
	January		February		March		January		February		March	
	temp	date ¹	temp	date ¹	temp	date ¹	temp	date ¹	temp	date ¹	temp	date ¹
1	10	16.1888	9	05.1989	22	01.1971	54	28.2024	54	22.1983	55	26.1889
2	10	15.1888	11	03.1989	24	03.1989	54	07.1896	53	19.1995	54	18.1997
3	11	29.1980	13	04.1989	24	01.1960	53	18.2005	52	28.2022	54	14.1926
4	11	28.1969	13	09.1933	24	12.1897	53	07.2002	52	28.1994	53	03.1987
5	11	18.1943	14	02.1989	24	02.1896	52	31.2020	52	24.1986	53	09.1983
6	13	14.1888	14	10.1933	25	07.1974	52	31.1995	52	11.1983	52	11.2007
7	14	01.1979	15	03.1899	25	13.1969	52	15.1974	52	13.1982	52	01.1994
8	14	21.1962	16	04.1899	25	10.1969	52	14.1961	52	16.1981	52	12.1972
9	14	31.1950	16	26.1890	25	10.1943	52	24.1935	52	27.1980	52	29.1934
10	14	13.1888	17	01.1950	25	13.1906	51	23.2020	52	27.1972	52	28.1934
	April		May		June		April		May		June	
1	26	18.1927	30	01.1954	37	04.1980	55	11.1951	65	29.1887	65	30.1942
2	29	03.2008	31	12.1985	38	03.1976	54	28.1981	63	16.2008	64	07.1903
3	29	02.2008	31	06.1965	38	01.1966	54	22.1934	62	13.1912	63	06.1897
4	29	13.1968	32	01.2013	38	19.1955	54	29.1931	61	15.1897	62	19.1919
5	29	25.1955	32	12.1977	38	09.1933	54	14.1926	60	30.1997	62	18.1919
6	29	01.1953	33	01.2011	39	04.2001	54	11.1904	60	29.1997	62	01.1919
7	30	11.2021	33	07.1985	39	02.1987	53	16.1999	60	29.1897	62	07.1897
8	30	09.2021	33	06.1978	39	01.1984	53	28.1992	60	23.1894	61	30.2021
9	30	05.2021	33	17.1974	39	10.1973	53	16.1992	60	25.1889	61	25.1925
10	30	13.2020	33	04.1969	39	25.1966	53	16.1990	59	25.1986	61	24.1919
	July		August		September		July		August		September	
1	37	27.1930	39	19.1973	33	28.1983	71	03.1906	70	23.1916	67	08.1907
2	38	16.1930	40	18.1973	33	27.1972	69	01.1942	67	28.1894	65	11.1922
3	39	07.1971	41	22.1987	33	13.1970	69	11.1906	66	27.1935	65	14.1912
4	40	02.1949	41	22.1973	34	30.1985	68	20.1946	65	29.1894	64	02.1931
5	40	15.1930	41	17.1973	34	29.1983	68	08.1919	64	29.1936	64	07.1907
6	41	15.1949	42	26.1991	36	30.2019	66	07.1919	64	21.1936	64	04.1896
7	41	03.1949	42	21.1988	36	23.2005	65	13.1935	64	31.1918	63	20.1939
8	41	09.1938	42	29.1985	36	23.2000	65	09.1919	64	30.1918	63	03.1931
9	41	20.1930	42	28.1985	36	19.1983	65	10.1895	64	20.1915	63	10.1922
10	41	08.1900	42	28.1984	36	24.1970	64	28.1916	64	27.1894	63	06.1898
	October		November		December		October		November		December	
1	26	28.1971	15	14.1955	6	21.1990	62	20.2003	58	06.1999	57	26.1980
2	27	29.1971	17	15.1955	6	08.1972	62	04.1899	57	04.2020	57	25.1980
3	28	30.1935	19	24.1985	9	20.1990	60	02.1980	57	01.2018	56	08.2015
4	29	31.2019	19	27.1896	10	07.1972	60	02.1952	57	22.2017	56	24.2005
5	29	31.2006	21	24.2010	10	12.1919	60	25.1889	57	07.2008	54	09.2014
6	29	31.2002	21	23.1985	11	31.1978	59	30.2015	57	06.2006	54	03.2007
7	29	30.2002	21	13.1955	11	13.1972	59	07.1984	57	14.1999	53	15.1999
8	29	30.1972	21	12.1955	12	12.1972	59	17.1940	57	13.1999	53	04.1989
9	29	27.1971	22	22.1985	13	08.2013	58	10.2015	57	11.1999	53	02.1975
10	30	29.2019	22	13.1978	13	23.1983	58	21.2003	57	10.1990	53	03.1918

¹ Data for 10th may or may not be most recent of multiple occurrences.

Period of Record: Apr 1887 to Jan 2024.

. ASTORIA: Extreme Temperature Swings¹

Daily Climb (same day) and Day-to-Day Change of MAX Temperature

	Daily Temperature Climb <i>low to high temp on any day</i>			Change of MAX Temperature <i>compared to previous day max T</i>	
	Average	Smallest	Largest	Largest Drop	Largest Rise
January	12°	1° 14 th / 1975 44° → 45°	31° 7 th / 1986 36° → 67°	-14° 16 th / 1965+ 61° → 47°	+28° 17 th / 1888 16° → 44°
February	14°	1° 21 st / 2012+ 48° → 49°	38° 15 th / 1996 34° → 72°	-21° 16 th / 1996 72° → 51°	+17° 19 th / 1908 45° → 62°
March	15°	2° 29 th / 2012+ 47° → 49°	38° 26 th / 1994 34° → 72°	-24° 15 th / 1926 80° → 56°	+17° 8 th / 2012+ 48° → 65°
April	15°	3° 2 nd / 1993+ 48° → 51°	43° 11 th / 1943 35° → 78°	-29° 29 th / 2023 86° → 57°	+25° 27 th / 2015 56° → 81°
May	15°	2° 22 nd / 1923+ 47° → 49°	43° 29 th / 2007 42° → 85°	-26° 27 th / 2005 91° → 65°	+26° 12 th / 1959 60° → 86°
June	14°	2° 1 st / 1923 47° → 49°	43° 29 th / 1924 44° → 87°	-28° 30 th / 1995 92° → 64°	+24° 9 th / 1924 63° → 87°
July	14°	2° 17 th / 2019 61° → 63°	43° 11 th / 1961 57° → 100°	-28° 8 th / 2010 93° → 65°	+26° 11 th / 1961 74° → 100°
August	15°	3° 28 th / 1991+ 56° → 59°	46° 7 th / 1978 48° → 94°	-34° 20 th / 2016 98° → 64°	+23° 13 th / 2010 63° → 86°
September	18°	2° 4 th / 1919 59° → 61°	43° 2 nd / 1972 52° → 95°	-31° 3 rd / 1972 95° → 64°	+23° 13 th / 1957 68° → 91°
October	16°	2° 31 st / 1953 56° → 58°	42° 4 th / 1942 40° → 82°	-24° 17 th / 2002 77° → 53°	+17° 13 th / 1955 59° → 76°
November	13°	1° 18 th / 2003+ 55° → 56°	31° 5 th / 1957 30° → 61°	-15° 9 th / 1959 65° → 50°	+22° 28 th / 1907 46° → 68°
December	12°	1° 1 st / 1975 52° → 53°	28° 17 th / 1988 28° → 56°	-15° 20 th / 1981 61° → 46°	+25° 31 st / 1968 23° → 48°

All-Time Top 5	Daily Temperature Climb		Change of MAX Temperature	
	Smallest	Largest	Largest Drop	Largest Rise
# 1	1° 21 Feb 2012 48° → 49°	46° 7 Aug 1978 48° → 94°	-34° 19-20 Aug 2016 98° → 64°	+28° 16-17 Jan 1888 16° → 44°
# 2	1° 18 Nov 2003 55° → 56°	44° 22 Aug 1988 44° → 88°	-31° 2-3 Sep 1972 95° → 64°	+26° 10-11 Jul 1961 74° → 100°
# 3	1° 23 Nov 1990 54° → 55°	43° 2 Aug 2017 50° → 93°	-29° 28-29 Apr 2023 86° → 57°	+26° 11-12 May 1959 60° → 86°
# 4	1° 10 Feb 1990 49° → 50°	43° 19 Aug 2016 55° → 98°	-29° 22-23 Sep 2009 92° → 63°	+25° 26-27 Apr 2015 56° → 81°
# 5	1° 1 st / 1975 52° → 53°	43° 2 Sep 1972+ 52° → 95°	-29° 10-11 Sep 2007 88° → 59°	+25° 28-29 May 2007 60° → 85°

¹Data is Apr 1887-Dec 2023. A + indicates multiple occurrences, with most recent listed.

ASTORIA: Most Days w/Daily MAX Temperature Above/Below Normal

1887-2023	At/Above Normal					Below Normal				
	total days		consecutive days			total days		consecutive days		
January	31	1986	31	1986	1-31 st	31	1949	31	1949	1-31 st
	31	1934	30	1983	1-30 th	30	1890	27	1890	1-27 th
	30	2010	30	1981	2-31 st	29	1937	25	1969	7-31 st
	single day departure: +23° on 30 Jan 1940					single day departure: -30° on 16 Jan 1888				
February	29	1968	29	1968	1-29 th	27	2021	27	2021	2-28 th
	28	2015	28	2015	1-28 th	27	2019	27	2019	2-28 th
	28	1983	28	1983	1-28 th	27	1923	22	1891	7-28 th
	single day departure: +21° on 15 Feb 1996					single day departure: -30° on 3 Feb 1889				
March	31	2015	31	2015	1-31 st	31	1917	31	1917	1-31 st
	31	1992	31	1992	1-31 st	30	1897	28	1922	3-30 th
	31	1983+	31	1983	1-31 st	28	2020	25	1898	7-31 st
	single day departure: +27° on 14 Mar 1926					single day departure: -18° on 2 Mar 1896				
April	28	1908	25	1926	4-28 th	29	2011	24	1955	7-30 th
	27	1926	22	1941	8-29 th	29	1893	21	2011	1-21 st
	26	1941	19	1934	9-28 th	28	1955	21	1937	9-29 th
	single day departure: +28° on 17 Apr 2016					single day departure: -15° on 27 Apr 1955				
May	31	1940	31	1940	1-31 st	31	1899	31	1899	1-31 st
	29	1997	25	1997	7-31 st	30	1962	24	1962	8-31 st
	26	1936	22	1934	8-29 th	28	1991+	23	1923	9-31 st
	single day departure: +33° on 16 May 2008					single day departure: -14° on 26 May 1923				
June	30	1940	30	1940	1-30 th	28	1956	21	1955	10-30 th
	29	1936	29	1936	2-30 th	27	1971	21	1954	8-28 th
	28	1983+	27	1983	1-27 th	27	1954	21	1923	6-26 th
	single day departure: +36° on 27 Jun 2021					single day departure: -13° on 1 Jun 1923				
July	29	1936	26	1941	1-26 th	30	1955	27	1901	1-27 th
	28	2015	20	2015	12-31 st	30	1901	23	1892	9-31 st
	28	1997+	18	1936	11-28 th	28	1993+	22	2001	10-31 st
	single day departure: +34° on 1 Jul 1942					single day departure: -12° on 7 Jul 1935				
August	30	1936	26	1930	2-27 th	29	1980	28	1899	4-31 st
	28	1997	25	1931	7-31 st	29	1899	27	1980	2-28 th
	27	2015+	18	1936	1-18 th	28	1948+	26	1954	1-26 th
	single day departure: +29° on 19 Aug 2016					single day departure: -14° on 2 Aug 1956				
September	28	1979	27	1979	4-30 th	27	1986	25	1986	6-30 th
	27	1908	23	1908	8-30 th	26	1895	25	1895	1-25 th
	26	1895	19	1917	3-21 st	25	2005+	20	2007	11-30 th
	single day departure: +27° on 2 Sep 1972					single day departure: -13° on 6 Sep 1947				
October	29	2014	27	1978	1-27 th	31	1946	31	1946	1-31 st
	28	2015	27	1937	5-31 st	28	1956	26	1949	2-27 th
	28	1978+	24	1942	2-25 th	28	1951+	23	1947	1-23 rd
	single day departure: +22° on 15 Oct 2022					single day departure: -16° on 30 Oct 1935				
November	30	2016	30	2016	1-30 th	30	1948	21	1948	1-30 th
	30	2002	26	2002	1-30 th	28	1994	28	1994	1-28 th
	30	1999+	25	1999	1-30 th	28	1985	28	1985	1-28 th
	single day departure: +18° on 28 Nov 1907					single day departure: -27° on 15 Nov 1955+				
December	30	1999	28	1999	1-28 th	27	1951	18	1894	12-29 th
	29	1958	26	1934	1-26 th	27	1948	18	1889	11-28 th
	29	1939	25	1904	1-25 th	27	1894	16	1919	1-16 th
	single day departure: +17° on 26 Dec 1980					single day departure: -27° on 21 Dec 1990				

Most Consecutive Days: At/Above Normal: 93 days 1941 3 Jan to 6 Apr
Below Normal: 62 days 22 Dec 1948 to 20 Feb 1949

ASTORIA: Most Days w/Daily MIN Temperature Above/Below Normal

1887-2023	At/Above Normal					Below Normal				
	total days		consecutive days			total days		consecutive days		
January	31	2006	31	2006	1-31 st	31	1949	31	1949	1-31 st
	30	2003	29	2018	3-31 st	30	1916	26	1930	4-29 th
	30	1934	28	1961	4-31 st	29	1937	22	1969	10-31 st
	single day departure: +18° on 15 Jan 1974					single day departure: -26° on 16 Jan 1888				
February	27	1983	26	1958	1-26 th	27	1936	26	1936	1-26 th
	26	2016	24	1983	5-28 th	26	1923	19	1938	1-19 th
	26	1958	24	1907	5-28 th	26	1891	15	1949	1-15 th
	single day departure: +17° on 3 Feb 1963					single day departure: -28° on 5 Feb 1889				
March	30	1889	27	1905	1-27 th	31	1917	31	1917	1-31 st
	29	1883	24	1984	5-28 th	25	2019	19	2020	4-22 nd
	29	1941+	24	1915	8-31 st	25	1948+	18	1942	10-27 th
	single day departure: +16° on 18 Mar 1997+					single day departure: -15° on 12 Mar 1897				
April	26	2010	25	1934	4-28 th	29	1955	22	1955	9-30 th
	26	2000	18	1905	9-26 th	28	1967	21	1967	10-30 th
	26	1996+	17	1985	1-17 th	28	1948	16	1927	5-20 th
	single day departure: +14° on 11 Apr 1951					single day departure: -17° on 18 Apr 1927				
May	29	2019	24	2019	2-25 th	26	1950	19	1909	4-22 nd
	29	2004	21	2018	1-21 st	26	1920	16	1960	14-29 th
	29	1993+	20	1907	12-31 st	25	1909	15	1942	1-15 th
	single day departure: +18° on 16 May 2008					single day departure: -14° on 1 May 1954				
June	29	1919	29	1919	1-29 th	29	1949	24	1949	7-30 th
	26	1992	24	1969	2-25 th	24	1899	16	1893	15-30 th
	26	1983	19	1905	1-19 th	23	1923+	13	1938	7-19 th
	single day departure: +15° on 7 Jun 1903					single day departure: -13° on 19 Jun 1955				
July	29	2016	24	1908	1-24 th	31	1949	31	1949	1-31 st
	28	2009	22	2015	11-31 st	30	1926	29	1926	3-31 st
	28	2004	21	2009	3-23 rd	29	1901	20	1901	1-20 th
	single day departure: +18° on 3 Jul 1906					single day departure: -18° on 27 Jul 1930				
August	31	1896	31	1896	1-31 st	30	1949	28	1949	1-28 th
	30	2004	23	2004	9-31 st	27	1963	18	1959	2-19 th
	28	1898	21	1894	11-31 st	27	1908	17	1945	15-31 st
	single day departure: +15° on 23 Aug 1916					single day departure: -13° on 19 Aug 1973				
September	30	1995	30	1995	1-30 th	26	1941	19	1941	5-23 rd
	28	2013	24	2020	7-30 th	25	1936	16	1949	10-25 th
	28	1997	24	2013	1-24 th	24	2005	16	1948	15-30 th
	single day departure: +14° on 8 Sep 1907					single day departure: -16° on 13 Sep 1970				
October	30	2014	29	2014	3-31 st	31	1949	31	1949	1-31 st
	28	1901	23	2003	1-23 rd	27	1948	16	1983	4-19 th
	28	1891	23	2000	7-29 th	26	1946+	16	1977	5-20 th
	single day departure: +19° on 20 Oct 2003					single day departure: -18° on 30 Oct 1935				
November	30	2016	30	2016	1-30 th	26	1956	22	1946	1-22 nd
	29	1904	25	1999	6-30 th	25	1994	18	1948	1-18 th
	29	1899	25	1899	6-30 th	25	1948	18	1931	13-30 th
	single day departure: +18° on 22 Nov 2017					single day departure: -26° on 14 Nov 1955				
December	29	1950	28	1950	4-31 st	30	1948	24	1985	8-31 st
	28	1999	26	2014	3-28 th	27	1927	23	1927	9-31 st
	28	1888	22	1888	1-22 nd	26	1985	21	1948	11-31 st
	single day departure: +21° on 26 Dec 1980+					single day departure: -32° on 8 Dec 1972				

Most Consecutive Days: At/Above Normal: 53 days 2016 14 Oct to 5 Dec
Below Normal: 83 days 1949 7 Jun to 2 Sept

ASTORIA: Monthly EXTREME MAX/MIN Temperatures

	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec		Year	
	Hi	Lo	Hi	Lo	Hi	Lo	Hi	Lo	Hi	Lo	Hi	Lo	Hi	Lo	Hi	Lo	Hi	Lo	Hi	Lo	Hi	Lo	Hi	Lo	Hi	Lo
1887	M	M	M	M	M	M	57	35	86	36	84	46	75	45	77	48	80	47	71	42	60	30	55	32	86	30
1888	64	10	54	32	64	28	M	M	M	M	M	M	M	M	74	54	80	49	68	41	58	35	55	34	80	10
1889	56	30	60	25	73	39	68	40	82	45	88	46	84	52	77	50	87	41	73	44	63	35	52	30	88	25
1890	50	21	53	16	59	32	68	32	76	40	76	45	76	50	83	50	76	42	65	38	64	35	60	34	83	16
1891	56	31	50	29	56	27	68	34	72	38	73	42	88	46	83	52	82	45	73	46	66	37	62	30	88	27
1892	54	32	58	31	64	35	67	33	79	40	81	44	74	47	77	50	75	44	68	41	60	36	54	27	81	27
1893	53	16	51	22	60	33	58	34	67	41	85	44	78	47	82	50	76	45	63	34	56	31	55	35	85	16
1894	56	25	54	24	59	31	62	35	77	37	78	43	77	48	88	51	78	44	66	40	61	32	52	31	88	24
1895	60	28	57	33	61	27	69	34	85	42	80	43	91	46	84	45	76	40	76	42	58	34	58	31	91	27
1896	58	29	62	31	61	24	64	32	68	39	84	43	86	51	85	56	85	45	70	45	59	19	59	33	86	19
1897	54	25	56	32	56	24	78	37	80	40	75	49	74	47	84	49	78	45	74	40	62	34	56	33	84	24
1898	51	27	59	35	65	30	71	35	80	40	90	40	80	48	84	51	84	46	66	42	57	35	55	32	90	27
1899	56	29	52	15	58	32	66	33	60	38	75	42	86	48	72	47	81	46	81	36	63	42	58	33	86	15
1900	59	32	53	25	74	34	81	34	64	42	70	44	80	41	75	49	82	43	70	40	65	26	58	30	82	25
1901	54	30	58	28	62	33	62	34	78	39	76	42	70	43	84	49	81	45	74	46	64	38	56	30	84	28
1902	56	19	64	32	62	36	62	36	71	39	86	44	82	47	86	46	81	40	76	42	57	34	59	33	86	19
1903	55	33	57	27	62	30	66	33	71	40	94	42	78	51	76	50	80	45	73	42	64	34	56	32	94	27
1904	56	30	54	28	58	30	80	35	67	40	72	43	81	47	74	49	76	41	70	40	70	37	57	35	81	28
1905	57	29	63	21	76	33	72	37	69	39	68	48	94	50	77	47	84	45	68	37	59	31	51	30	94	21
1906	57	30	62	35	65	25	77	34	69	43	82	44	95	51	78	50	71	40	75	40	63	29	56	32	95	25
1907	52	18	58	34	58	34	68	39	73	45	70	46	78	52	73	50	78	49	81	43	73	38	62	33	81	18
1908	59	28	68	28	73	32	83	35	75	40	93	44	93	47	82	49	85	38	77	35	68	36	59	30	93	28
1909	57	15	54	32	67	34	78	35	81	35	80	43	76	45	89	48	M	M	79	37	M	M	M	M	89	15
1910	57	31	55	29	63	35	69	37	73	43	75	44	82	46	76	48	82	46	74	43	61	34	57	33	82	29
1911	51	24	57	27	69	35	72	31	73	38	74	40	89	46	88	48	73	45	69	40	61	25	56	32	89	24
1912	58	28	59	34	64	29	61	35	89	42	90	43	82	50	85	47	83	45	72	38	60	35	54	32	90	28
1913	50	24	57	30	64	29	70	34	73	41	79	43	93	49	83	48	81	45	70	40	65	34	54	33	93	24
1914	60	34	56	30	75	34	69	38	86	41	86	42	80	47	80	49	78	48	73	43	59	35	53	27	86	27
1915	54	30	59	31	77	35	75	37	80	37	88	46	82	50	95	52	77	48	72	42	58	32	58	25	95	25
1916	51	19	66	28	65	33	68	37	73	36	81	45	73	44	88	50	81	45	72	39	59	30	52	29	88	19
1917	52	21	53	29	52	29	64	33	62	40	78	43	82	47	85	50	78	49	80	37	67	39	M	M	85	21
1918	57	26	56	31	61	32	75	35	68	40	82	45	75	49	91	52	83	49	67	41	58	36	56	29	91	26
1919	57	28	56	34	69	37	68	37	76	41	79	49	87	49	89	51	86	42	75	32	60	30	57	10	89	10
1920	59	26	60	30	60	31	65	33	74	37	78	43	78	50	86	42	82	47	66	32	61	31	60	33	86	26
1921	59	31	58	32	61	32	68	34	74	40	78	47	76	44	78	49	75	43	76	41	65	35	58	25	78	25
1922	50	20	55	24	61	29	73	35	81	34	76	44	79	50	84	49	91	48	71	40	57	32	M	M	91	20
1923	50	M	56	23	72	28	70	36	68	38	85	44	78	47	85	47	83	42	76	36	71	38	61	21	85	21
1924	60	15	63	32	59	31	78	31	79	37	87	42	91	43	74	44	88	40	71	36	59	30	55	13	91	13
1925	55	30	58	32	64	31	81	33	84	37	96	41	74	47	85	44	81	44	72	39	63	30	58	33	96	30
1926	55	30	61	36	80	33	82	38	85	38	90	41	91	45	73	46	77	40	72	41	65	36	61	21	91	21
1927	56	17	55	30	62	31	66	26	72	38	76	45	77	48	90	48	80	45	68	37	59	32	54	19	90	17
1928	55	22	58	31	74	33	72	35	83	39	69	46	91	50	74	47	83	43	65	41	62	33	56	30	91	22
1929	52	23	53	22	60	34	65	32	72	39	78	44	83	47	85	49	84	44	79	39	66	33	60	31	85	22
1930	53	15	62	30	75	31	72	38	67	38	80	43	72	37	79	50	81	38	68	40	66	29	56	29	81	15
	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec		Year	

ASTORIA: Monthly EXTREME MAX/MIN Temperatures

	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec		Year	
	Hi	Lo	Hi	Lo	Hi	Lo	Hi	Lo	Hi	Lo	Hi	Lo	Hi	Lo	Hi	Lo	Hi	Lo	Hi	Lo	Hi	Lo	Hi	Lo	Hi	Lo
1931	63	31	64	33	67	32	74	34	85	40	83	47	88	49	86	48	78	39	73	39	68	28	56	29	88	28
1932	53	27	59	22	68	33	68	37	79	38	82	48	74	42	88	50	81	44	81	40	60	36	55	17	88	17
1933	54	26	51	13	61	31	70	33	67	38	72	38	82	45	90	49	72	40	76	38	59	33	56	33	90	13
1934	59	32	66	34	73	38	74	36	86	42	73	41	76	47	85	51	91	40	73	40	64	37	59	32	91	32
1935	65	16	61	29	56	30	75	36	70	39	85	40	88	42	90	45	83	45	70	28	57	23	55	29	90	16
1936	62	30	57	23	60	29	66	33	78	40	78	47	75	50	90	51	82	42	82	38	63	30	55	30	90	23
1937	47	17	59	29	68	34	67	36	76	39	85	45	75	46	79	45	83	42	79	42	68	34	59	27	85	17
1938	57	30	68	30	64	28	77	35	76	38	82	39	89	41	75	47	78	46	77	37	57	28	57	29	89	28
1939	59	29	52	21	68	29	77	31	89	39	69	41	83	46	92	45	85	45	79	31	60	35	63	30	92	21
1940	70	28	65	31	70	31	77	38	78	37	92	43	77	45	96	49	86	43	77	42	64	32	63	30	96	28
1941	62	29	67	32	79	36	83	35	88	41	85	42	95	51	80	48	78	40	75	40	70	32	59	25	95	25
1942	58	18	60	29	70	30	70	37	78	34	99	43	101	47	94	47	85	40	82	35	63	29	57	30	101	18
1943	56	11	65	25	62	25	78	30	79	35	M	M	M	M	M	M	M	M	M	M	62	34	57	31	M	11
1944	61	30	56	30	68	28	75	36	81	38	74	41	82	49	88	48	85	45	73	45	58	34	54	27	88	27
1945	55	29	55	30	57	30	62	32	78	40	78	41	85	44	79	47	77	38	79	37	59	32	59	29	85	29
1946	55	30	55	30	60	34	67	35	77	42	76	46	91	48	84	46	79	44	62	36	60	31	57	27	91	27
1947	52	21	62	29	74	34	81	37	84	40	71	42	75	47	74	43	85	41	66	40	55	32	55	32	85	21
1948	54	29	53	25	68	30	60	30	72	34	84	45	76	46	71	46	88	39	73	35	53	30	50	25	88	25
1949	45	17	58	21	60	29	72	32	80	33	79	39	83	40	78	45	85	40	68	31	67	37	53	25	85	17
1950	52	14	57	17	57	30	68	35	76	39	81	42	79	42	82	49	84	44	65	39	60	32	56	37	84	14
1951	53	20	60	30	62	27	77	36	74	41	86	44	91	48	78	47	85	40	81	38	57	34	54	26	91	20
1952	52	25	52	30	56	32	66	34	82	36	70	42	87	47	80	48	84	44	78	42	64	28	57	33	87	25
1953	55	34	54	27	68	26	67	29	86	35	70	41	83	45	82	47	88	40	78	35	64	33	59	34	88	26
1954	56	24	65	28	60	27	68	30	77	30	71	41	70	43	73	46	78	39	78	32	66	31	56	29	78	24
1955	53	27	54	23	61	26	70	29	66	35	93	38	70	42	74	43	92	38	76	37	65	15	55	27	93	15
1956	58	21	49	20	67	27	83	32	82	37	70	42	89	46	75	46	85	39	77	30	62	26	54	22	89	20
1957	50	15	62	23	65	30	75	32	69	39	70	43	73	44	76	45	91	42	72	33	61	29	62	31	91	15
1958	57	34	67	28	60	29	72	34	83	33	87	45	90	47	77	47	90	40	78	35	62	27	62	35	90	27
1959	57	17	56	27	65	30	77	31	86	35	72	41	92	44	74	44	77	40	76	34	65	28	56	26	92	17
1960	63	23	58	22	68	24	68	31	70	37	72	42	83	43	77	44	85	37	75	34	65	28	58	30	85	22
1961	65	27	60	31	61	29	62	32	81	36	82	43	100	45	81	47	85	40	77	32	63	25	54	25	100	25
1962	63	14	62	19	69	27	68	31	61	35	70	40	75	43	78	46	86	42	72	37	69	31	62	23	86	14
1963	54	15	68	34	64	28	69	30	83	37	75	43	73	44	80	48	84	44	70	35	61	30	63	26	84	15
1964	53	32	60	25	73	27	61	31	74	35	72	42	76	44	86	43	78	41	81	32	60	28	55	15	86	15
1965	61	30	57	32	72	26	70	30	63	31	75	41	81	46	82	43	82	36	77	37	62	28	56	24	82	24
1966	55	25	62	27	69	27	78	30	68	33	91	38	73	44	89	43	83	41	78	33	64	30	56	29	91	25
1967	54	27	56	29	56	27	63	30	72	34	75	43	88	44	86	44	89	41	75	36	63	31	53	23	89	23
1968	60	25	72	26	68	28	70	29	73	36	76	41	85	45	84	45	86	41	68	34	59	30	55	19	86	19
1969	54	11	55	28	68	25	68	32	83	33	81	45	72	44	76	42	79	38	70	33	71	28	59	29	83	11
1970	57	24	64	29	60	26	61	31	81	37	90	41	80	42	84	43	82	33	81	32	71	27	54	25	90	24
	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec		Year	

ASTORIA: Monthly EXTREME MAX/MIN Temperatures

	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec		Year	
	Hi	Lo	Hi	Lo	Hi	Lo	Hi	Lo	Hi	Lo	Hi	Lo	Hi	Lo	Hi	Lo	Hi	Lo	Hi	Lo	Hi	Lo	Hi	Lo	Hi	Lo
1971	58	21	60	25	58	22	66	32	77	36	80	41	75	39	83	45	80	37	81	26	59	29	53	27	83	21
1972	53	19	57	25	66	29	66	34	78	35	73	41	89	44	93	45	95	33	78	29	60	30	58	6	95	6
1973	56	19	68	23	59	29	67	32	84	36	79	39	83	44	70	39	89	38	67	33	60	29	57	30	89	19
1974	57	15	55	27	61	25	69	30	66	33	80	42	82	44	83	49	85	39	71	35	63	34	57	28	85	15
1975	54	25	64	28	59	28	63	31	82	37	72	40	84	48	73	44	87	41	62	38	62	27	59	27	87	25
1976	63	27	60	20	60	26	70	33	76	37	79	38	79	46	80	46	82	46	78	34	67	25	56	27	82	20
1977	55	20	62	32	56	29	71	32	65	32	79	40	79	42	88	48	80	40	72	34	63	24	56	27	88	20
1978	55	27	62	26	65	27	71	32	81	33	83	46	86	46	94	48	75	39	79	32	60	22	54	11	94	11
1979	53	14	58	19	73	30	69	36	77	38	76	40	87	46	75	48	88	43	78	36	64	29	63	31	88	14
1980	57	11	64	31	61	32	76	30	64	35	67	37	92	44	70	42	82	43	85	35	66	33	64	28	92	11
1981	62	30	66	27	67	31	74	31	76	37	73	43	81	45	96	46	86	40	71	34	70	29	61	31	96	27
1982	59	15	58	24	64	30	77	31	74	35	91	44	75	44	82	43	79	38	79	36	65	30	60	27	91	15
1983	63	29	63	36	66	35	81	31	78	39	76	46	76	47	80	48	79	33	67	32	62	31	55	13	81	13
1984	59	20	65	30	64	29	69	31	76	37	68	39	85	45	77	42	85	38	71	31	59	31	56	23	85	20
1985	56	23	57	20	58	26	70	31	87	31	88	40	80	43	87	42	78	34	73	30	57	19	56	22	88	19
1986	67	30	65	27	70	32	66	31	78	35	78	43	74	43	81	45	74	37	73	36	67	30	57	32	81	27
1987	57	24	66	26	72	28	83	32	83	40	84	39	74	46	83	41	86	40	85	33	69	28	60	24	86	24
1988	60	27	67	24	64	28	71	30	79	35	79	40	93	43	88	42	88	37	77	33	63	32	61	26	93	24
1989	54	27	54	9	61	24	78	32	73	36	89	43	72	44	71	46	89	39	74	33	60	32	60	27	89	9
1990	56	28	67	22	65	29	71	33	78	34	89	45	82	47	86	47	85	40	67	35	63	30	55	6	89	6
1991	56	23	66	31	63	29	71	31	67	39	70	40	83	45	71	42	86	43	83	31	59	29	54	29	86	23
1992	61	27	71	30	67	32	70	34	81	35	89	43	81	46	95	43	75	37	73	32	59	29	52	25	95	25
1993	58	16	62	23	62	30	63	34	84	40	71	45	74	48	87	44	81	38	74	39	58	24	60	27	87	16
1994	57	29	56	21	73	30	65	37	76	39	69	43	82	47	73	48	85	46	71	33	53	24	57	24	85	21
1995	57	33	62	24	68	28	71	34	68	37	92	45	89	48	78	45	82	49	72	30	64	27	63	28	92	24
1996	58	23	72	21	70	27	68	36	66	35	77	41	86	44	79	45	75	39	81	32	64	30	61	30	86	21
1997	60	20	59	30	61	30	66	31	86	39	72	45	77	48	83	50	84	49	70	35	64	36	56	30	86	20
1998	60	32	61	29	66	30	78	32	74	37	67	45	77	47	78	46	76	42	75	34	57	32	57	16	78	16
1999	54	29	55	29	68	29	83	31	85	36	77	40	74	46	81	48	86	38	73	36	71	37	59	35	86	29
2000	56	32	61	31	65	32	72	35	72	39	89	41	79	48	76	43	82	36	80	39	64	27	56	30	89	27
2001	60	29	60	27	70	28	69	31	81	35	72	39	76	45	86	49	77	40	78	33	64	33	54	33	86	27
2002	60	27	62	28	59	28	70	32	67	36	82	44	87	46	95	46	80	41	77	29	63	29	61	31	95	27
2003	63	34	62	28	66	30	64	36	80	36	90	44	82	44	80	46	84	41	72	31	59	26	59	26	90	26
2004	55	25	63	29	67	31	79	32	69	39	89	45	96	50	87	52	72	43	76	38	66	30	60	32	96	25
2005	66	27	68	27	68	31	75	36	91	43	74	43	83	49	85	50	72	36	72	35	62	30	62	23	91	23
2006	64	36	60	19	63	29	73	34	91	34	85	46	81	46	75	45	87	42	70	29	60	25	56	27	91	19
2007	54	22	57	26	64	31	72	30	85	36	74	41	92	49	83	45	88	40	73	31	62	29	59	27	92	22
2008	52	24	62	30	60	30	77	29	93	39	83	42	79	43	78	48	81	41	71	32	65	33	56	23	93	23
2009	61	26	64	28	57	28	73	30	75	37	76	43	92	44	82	48	92	41	66	37	64	35	57	15	92	15
2010	63	33	63	30	67	33	64	37	65	36	71	43	93	47	90	46	83	45	75	34	73	21	59	26	93	21
	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec		Year	

ASTORIA: Monthly EXTREME MAX/MIN Temperatures

	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec		Year	
	Hi	Lo	Hi	Lo	Hi	Lo	Hi	Lo	Hi	Lo	Hi	Lo	Hi	Lo	Hi	Lo	Hi	Lo	Hi	Lo	Hi	Lo	Hi	Lo	Hi	Lo
2011	56	25	53	21	59	29	57	30	63	33	78	43	73	45	82	46	84	45	76	34	61	26	55	25	84	21
2012	58	24	60	27	65	26	68	35	76	34	70	42	69	45	92	44	85	41	77	34	61	29	55	32	92	24
2013	53	23	59	26	70	29	71	34	85	32	76	44	74	46	77	47	81	44	72	32	62	29	53	13	85	13
2014	60	27	64	20	67	30	84	35	87	39	75	45	89	48	79	49	87	45	78	42	62	24	63	25	89	20
2015	63	27	65	30	67	29	81	34	75	40	85	47	89	51	86	46	79	39	81	42	63	28	63	30	89	27
2016	61	29	67	34	69	32	85	36	81	42	87	44	74	52	98	51	80	44	68	40	71	41	56	27	98	27
2017	57	22	64	29	59	32	70	35	84	40	93	41	77	47	93	47	91	43	71	33	64	34	56	26	93	22
2018	64	33	54	23	71	30	82	33	73	43	79	43	83	49	86	50	79	41	77	35	62	31	63	29	86	23
2019	58	29	52	24	77	26	67	35	85	41	86	43	76	48	91	47	77	36	68	29	64	24	55	30	91	24
2020	61	31	57	27	57	29	70	30	82	37	76	41	83	47	86	44	87	49	73	33	64	27	61	29	87	27
2021	57	26	51	28	65	27	80	30	75	39	101	43	77	46	88	46	83	43	66	33	61	30	54	26	101	26
2022	60	27	64	24	61	29	71	33	67	37	92	44	85	51	88	49	85	46	83	39	60	30	61	27	92	24
2023	58	24	59	23	65	26	86	32	72	41	77	40	83	49	82	48	80	39	83	32	63	29	60	32	86	23
2024	65	24																								
2025																										
2026																										
2027																										
2028																										
2029																										
2030																										
	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec		Year	
Ext Max T	70°		72°		80°		86°		93°		101°		101°		98°		95°		85°		73°		64°		101°	
Ext Min T	10°		9°		22°		26°		30°		37°		37°		38°		33°		26°		15°		6°		6°	

Largest Temperature Range between Extremes for each Month

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
1888	1996	2019	1999	2006	2021	1961	1992	1972	1971	2010	1972	1972
54°	51°	51°	52°	57°	58°	55°	52°	62°	55°	52°	52°	89°
10 / 64	21 / 72	26 / 77	31 / 83	34 / 91	43 / 101	45 / 100	43 / 95	33 / 95	26 / 81	21 / 73	6 / 58	6 / 95

Top 5 Largest Temperature Range of the Extremes for Calendar Year

1. **89°** in 1972 *from 6° to 95°*
2. **83°** in 1990 *from 23° to 86°*
3. **83°** in 1978 *from 11° to 94°*
4. **83°** in 1942 *from 18° to 101°*
5. **81°** in 1980 *from 11° to 92°*

ASTORIA's FIRST/LAST of Year for MAXIMUM Temperature of...

format: date of occurrence (month.day), followed by that day's maximum temperature

	at least 70 deg.				at least 80 deg.				at least 90 deg.				at least 100 deg.			
	First		Last		First		Last		First		Last		First		Last	
Some data are not available (n/a). Two dashes (--) means that temperature did not occur.																
1887	5.15	78	10.11	71	5.16	80	9.27	80	--	--	--	--	--	--	--	--
1888	n/a		9.25	80	n/a		9.25	80	--	--	--	--	--	--	--	--
1889	3.26	73	10.19	73	5.20	80	9.18	84	--	--	--	--	--	--	--	--
1890	5.03	72	9.22	70	8.13	83	8.13	83	--	--	--	--	--	--	--	--
1891	5.20	70	10.07	73	7.22	88	9.01	82	--	--	--	--	--	--	--	--
1892	5.19	77	9.09	71	6.28	81	6.28	81	--	--	--	--	--	--	--	--
1893	6.03	73	9.16	75	6.04	84	8.30	80	--	--	--	--	--	--	--	--
1894	5.18	74	9.23	70	8.26	80	8.30	83	--	--	--	--	--	--	--	--
1895	5.11	75	10.18	71	5.15	85	8.28	84	7.09	91	7.10	91	--	--	--	--
1896	6.20	71	10.15	70	6.25	84	9.05	80	--	--	--	--	--	--	--	--
1897	4.12	70	10.06	74	5.12	80	8.14	84	--	--	--	--	--	--	--	--
1898	4.12	71	9.24	71	5.25	80	9.06	84	6.06	90	6.06	90	--	--	--	--
1899	6.18	71	10.05	70	7.25	86	10.04	81	--	--	--	--	--	--	--	--
1900	3.13	70	10.08	70	4.29	81	9.11	82	--	--	--	--	--	--	--	--
1901	5.25	78	10.25	73	8.04	81	9.18	81	--	--	--	--	--	--	--	--
1902	5.05	70	10.11	70	6.20	86	9.10	80					--	--	--	--
1903	5.05	70	10.22	73	6.06	86	9.03	80	6.07	94	6.07	94	--	--	--	--
1904	4.09	74	11.09	70	4.11	80	8.31	81	--	--	--	--	--	--	--	--
1905	3.05	71	9.21	72	7.08	94	9.01	84	7.08	94	7.09	90	--	--	--	--
1906	4.20	77	10.10	70	6.23	82	7.26	80	7.02	93	7.12	95	--	--	--	--
1907	5.30	73	11.09	73	10.10	81	10.10	81	--	--	--	--	--	--	--	--
1908	3.20	73	10.26	74	4.29	83	9.30	82	6.29	93	8.17	98	--	--	--	--
1909	4.07	70	n/a		5.31	81	n/a		--	--	--	--	--	--	--	--
1910	5.16	73	10.19	74	7.09	80	9.19	82	--	--	--	--	--	--	--	--
1911	4.23	72	9.25	73	7.12	84	8.26	84	--	--	--	--	--	--	--	--
1912	5.11	77	10.12	72	5.12	87	9.21	81	6.06	90	6.06	90	--	--	--	--
1913	4.17	70	10.01	70	7.18	91	9.11	81	7.18	91	7.31	93	--	--	--	--
1914	3.19	72	10.28	72	5.20	85	8.12	80	--	--	--	--	--	--	--	--
1915	3.20	77	10.16	72	5.04	80	8.27	84	8.20	95	8.20	95	--	--	--	--
1916	5.15	73	10.09	70	6.12	81	9.14	81	--	--	--	--	--	--	--	--
1917	6.12	72	10.22	70	7.14	82	10.04	80	--	--	--	--	--	--	--	--
1918	4.19	73	9.27	83	6.05	82	9.27	83	8.30	91	8.30	91	--	--	--	--
1919	5.13	76	10.06	75	7.09	83	9.24	82	--	--	--	--	--	--	--	--
1920	5.06	74	9.29	79	8.08	80	9.01	82	--	--	--	--	--	--	--	--
1921	5.28	74	10.08	73	--	--	--	--	--	--	--	--	--	--	--	--
1922	4.25	73	10.22	71	5.28	81	9.11	87	9.10	91	9.10	91	--	--	--	--
1923	3.27	71	11.06	70	6.28	85	9.30	83	--	--	--	--	--	--	--	--
1924	4.24	73	10.70	72	6.09	87	9.12	88	7.23	91	7.23	91	--	--	--	--
1925	4.27	73	10.20	72	4.28	81	9.21	81	6.24	96	6.24	96	--	--	--	--
1926	3.13	72	10.04	72	3.14	80	n/a		6.23	90	7.09	91	--	--	--	--
1927	5.13	72	9.26	70	8.12	83	9.18	80	9.16	90	9.16	90	--	--	--	--
1928	3.18	74	9.22	83	5.24	83	9.22	83	7.24	91	7.24	91	--	--	--	--
1929	5.17	70	10.23	79	7.08	83	9.16	81	--	--	--	--	--	--	--	--

ASTORIA'S FIRST/LAST of Year for MAXIMUM Temperature of...

	at least 70 deg.				at least 80 deg.				at least 90 deg.				at least 100 deg.			
	First		Last		First		Last		First		Last		First		Last	
1930	3.27	72	9.20	74	6.15	80	9.02	81	--	--	--	--	--	--	--	--
1931	4.03	70	10.13	73	5.10	85	8.28	86	--	--	--	--	--	--	--	--
1932	5.27	70	10.05	70	6.08	82	10.03	81	--	--	--	--	--	--	--	--
1933	4.20	70	10.06	73	7.14	82	8.26	87	8.22	90	8.22	90	--	--	--	--
1934	3.09	73	10.10	73	5.12	80	9.02	91	9.02	91	9.02	91	--	--	--	--
1935	4.27	75	10.06	70	6.05	85	9.28	83	8.26	90	8.26	90	--	--	--	--
1936	5.01	74	10.17	78	8.29	90	10.10	80	8.29	90	8.29	90	--	--	--	--
1937	5.06	76	10.22	79	6.04	83	9.14	83	--	--	--	--	--	--	--	--
1938	4.07	77	10.22	74	6.06	82	7.19	81	--	--	--	--	--	--	--	--
1939	4.16	77	10.13	73	5.13	89	9.22	80	8.08	92	8.19	91	--	--	--	--
1940	1.30	70	10.18	70	6.11	92	9.22	85	6.11	92	8.17	96	--	--	--	--
1941	3.10	72	11.08	70	4.25	83	8.06	80	7.14	95	7.14	95	--	--	--	--
1942	3.30	70	10.21	71	6.29	87	10.04	82	6.30	99	8.22	94	7.01	101	7.01	101
1943	4.11	78	n/a		n/a		n/a		n/a		n/a		--	--	--	--
1944	4.01	75	10.28	71	5.03	81	9.04	85	--	--	--	--	--	--	--	--
1945	5.01	78	10.07	79	7.06	85	7.06	85	--	--	--	--	--	--	--	--
1946	5.01	77	9.29	70	7.19	91	8.18	80	7.19	91	7.19	91	--	--	--	--
1947	3.14	70	9.29	70	4.13	80	9.22	81	--	--	--	--	--	--	--	--
1948	5.15	72	10.01	73	6.06	84	9.10	82	--	--	--	--	--	--	--	--
1949	4.14	72	9.27	74	5.06	80	8.26	26	--	--	--	--	--	--	--	--
1950	5.24	71	9.21	84	6.03	81	9.21	84	--	--	--	--	--	--	--	--
1951	4.11	77	10.09	73	6.28	86	10.08	81	7.11	91	7.11	91	--	--	--	--
1952	5.16	82	10.17	72	5.16	82	9.19	80	--	--	--	--	--	--	--	--
1953	5.03	72	10.05	78	5.04	86	9.10	88	--	--	--	--	--	--	--	--
1954	5.06	74	10.31	70	--	--	--	--	--	--	--	--	--	--	--	--
1955	4.06	70	10.16	70	6.08	93	9.04	92	6.08	93	9.04	92	--	--	--	--
1956	4.19	74	10.06	77	4.20	83	9.05	85	--	--	--	--	--	--	--	--
1957	4.29	75	10.10	72	9.10	85	9.29	81	9.13	91	9.13	91	--	--	--	--
1958	4.12	72	10.29	72	5.17	83	9.07	87	7.27	90	9.06	90	--	--	--	--
1959	4.08	72	10.17	76	5.12	86	7.30	92	7.30	92	7.30	92	--	--	--	--
1960	5.09	70	10.17	74	7.05	83	9.09	85	--	--	--	--	--	--	--	--
1961	5.18	79	10.14	76	5.19	81	9.12	85	7.11	100	7.11	100	7.11	100	7.11	100
1962	6.07	70	10.28	72	9.17	86	9.21	81	--	--	--	--	--	--	--	--
1963	5.17	76	10.10	70	5.20	83	9.26	81	--	--	--	--	--	--	--	--
1964	3.28	70	10.22	74	8.24	86	10.05	81	--	--	--	--	--	--	--	--
1965	3.10	72	10.24	73	7.23	81	9.24	82	--	--	--	--	--	--	--	--
1966	4.03	70	10.04	78	6.15	91	9.21	83	6.15	91	6.15	91	--	--	--	--
1967	5.16	72	10.17	75	7.01	88	9.26	85	--	--	--	--	--	--	--	--
1968	2.27	71	9.29	78	7.01	85	9.05	86	--	--	--	--	--	--	--	--
1969	5.06	72	11.01	71	5.07	83	6.17	81	--	--	--	--	--	--	--	--
1970	5.03	72	11.02	71	5.31	81	10.02	81	6.01	90	6.01	90	--	--	--	--
1971	5.01	70	10.08	81	6.20	80	10.08	81	--	--	--	--	--	--	--	--
1972	5.12	73	10.15	71	7.02	88	9.02	95	8.07	93	9.02	95	--	--	--	--
1973	5.11	75	9.28	71	5.13	84	9.10	89	--	--	--	--	--	--	--	--
1974	5.10	72	10.18	71	5.29	80	9.24	85	--	--	--	--	--	--	--	--

ASTORIA'S FIRST/LAST of Year for MAXIMUM Temperature of...format: date of occurrence (*month.day*), followed by that day's maximum temperature

	at least 70 deg.				at least 80 deg.				at least 90 deg.				at least 100 deg.			
	First		Last		First		Last		First		Last		First		Last	
1975	5.13	82	9.30	82	5.13	82	9.30	82	--	--	--	--	--	--	--	--
1976	4.27	70	10.07	78	8.29	80	9.19	80	--	--	--	--	--	--	--	--
1977	4.23	70	10.14	70	8.09	83	9.12	80	--	--	--	--	--	--	--	--
1978	4.24	71	10.18	79	5.19	81	8.07	94	8.07	94	8.07	94	--	--	--	--
1979	3.13	73	10.09	78	7.14	80	9.13	88	--	--	--	--	--	--	--	--
1980	4.12	76	10.23	71	7.21	92	10.04	80	7.21	92	7.21	92	--	--	--	--
1981	4.14	71	11.02	70	7.26	81	9.14	80	8.09	96	8.09	96	--	--	--	--
1982	4.20	71	10.14	73	6.18	91	8.24	82	6.18	91	6.18	91	--	--	--	--
1983	4.17	81	9.30	70	4.17	81	8.07	80	--	--	--	--	--	--	--	--
1984	5.28	76	10.07	71	7.22	85	9.14	85	--	--	--	--	--	--	--	--
1985	4.06	70	10.04	73	5.16	87	8.23	82	--	--	--	--	--	--	--	--
1986	3.02	70	10.12	72	8.26	81	8.26	81	--	--	--	--	--	--	--	--
1987	3.31	72	10.19	71	4.26	83	10.06	85	--	--	--	--	--	--	--	--
1988	4.09	71	10.09	77	7.19	93	9.13	85	7.19	93	7.19	93	--	--	--	--
1989	4.09	73	10.17	74	6.03	80	9.28	83	--	--	--	--	--	--	--	--
1990	4.10	71	9.30	70	6.21	89	9.21	85	--	--	--	--	--	--	--	--
1991	4.30	71	10.11	73	7.22	83	10.10	83	--	--	--	--	--	--	--	--
1992	2.26	71	10.07	73	5.03	81	8.25	82	8.11	95	8.11	95	--	--	--	--
1993	5.17	77	10.09	74	5.24	84	9.26	81	--	--	--	--	--	--	--	--
1994	3.26	72	10.04	71	7.19	82	9.22	82	--	--	--	--	--	--	--	--
1995	4.23	71	10.19	72	6.27	87	9.22	82	6.28	90	6.29	92	--	--	--	--
1996	2.15	72	10.09	81	7.13	86	10.09	81	--	--	--	--	--	--	--	--
1997	5.10	70	10.15	70	5.11	86	9.21	83	--	--	--	--	--	--	--	--
1998	4.28	70	10.21	75	--	--	--	--	--	--	--	--	--	--	--	--
1999	4.15	77	11.11	71	4.16	83	9.18	81	--	--	--	--	--	--	--	--
2000	4.11	72	10.25	70	6.26	81	10.06	80	--	--	--	--	--	--	--	--
2001	3.06	70	10.15	71	5.22	81	5.22	81	--	--	--	--	--	--	--	--
2002	4.04	70	10.16	77	6.12	82	9.22	80	8.13	95	8.13	95	--	--	--	--
2003	5.23	73	10.26	72	5.27	80	9.27	84	6.05	90	6.05	90	--	--	--	--
2004	4.10	77	10.14	71	6.16	80	8.09	82	7.23	96	7.23	96	--	--	--	--
2005	4.22	75	10.21	72	5.25	81	8.25	85	5.26	91	5.26	91	--	--	--	--
2006	4.23	73	10.10	70	5.15	91	9.24	81	5.15	91	5.15	91	--	--	--	--
2007	4.05	72	10.23	73	5.29	85	9.10	88	7.10	92	7.10	10	--	--	--	--
2008	4.12	77	10.22	71	5.15	82	9.29	81	5.16	93	5.16	93	--	--	--	--
2009	4.06	73	9.27	74	7.02	80	9.22	92	7.28	92	9.22	92	--	--	--	--
2010	5.05	70	11.03	73	7.06	80	9.02	83	7.07	93	8.14	90	--	--	--	--
2011	6.03	71	10.18	76	8.20	82	9.10	82	--	--	--	--	--	--	--	--
2012	5.07	71	10.07	77	8.04	92	9.17	82	8.04	92	8.04	92	--	--	--	--
2013	3.30	70	10.21	72	5.04	82	9.10	81	--	--	--	--	--	--	--	--
2014	4.13	72	10.07	73	4.30	84	9.14	82	--	--	--	--	--	--	--	--

ASTORIA's FIRST/LAST of Year for MAXIMUM Temperature of...

format: date of occurrence (month.day), followed by that day's maximum temperature

	at least 70 deg.				at least 80 deg.				at least 90 deg.				at least 100 deg.			
	First		Last		First		Last		First		Last		First		Last	
2011	6.03	71	10.18	76	8.20	82	9.10	82	--	--	--	--	--	--	--	--
2012	5.07	71	10.07	77	8.04	92	9.17	82	8.04	92	8.04	92	--	--	--	--
2013	3.30	70	10.21	72	5.04	82	9.10	81	--	--	--	--	--	--	--	--
2014	4.13	72	10.07	73	4.30	84	9.14	82	--	--	--	--	--	--	--	--
2015	4.27	81	10.15	77	4.27	81	10.05	81	--	--	--	--	--	--	--	--
2016	4.17	85	10.08	71	4.17	85	9.13	80	8.19	98	8.26	91	--	--	--	--
2017	4.21	70	10.27	71	5.22	84	9.27	84	6.24	93	9.04	91	--	--	--	--
2018	3.12	71	10.16	77	4.24	82	8.21	86	--	--	--	--	--	--	--	--
2019	3.18	74	9.12	73	5.09	85	8.27	91	8.27	91	8.27	91	--	--	--	--
2020	4.16	70	10.06	73	5.08	82	9.29	83	--	--	--	--	--	--	--	--
2021	4.15	72	9.24	83	4.17	80	9.24	83	6.27	101	6.27	101	6.27	101	6.27	101
2022	4.07	71	10.18	70	6.25	86	10.15	83	6.26	92	6.26	92	--	--	--	--
2023	4.28	86	10.18	72	4.28	86	10.06	83	5.14	93	9.14	95	--	--	--	--
2024																
2025																
2026																
2027																
2028																
2029																
AVG	21 Apr		13 Oct		13 Jun		12 Sep		13 Jul		25 Jul		--		--	

Astoria	FIRST Occurrence of Spring/Summer		
	Average	Earliest	Latest
Temp ≥ 70° F	21 Apr	30 Jan 1940	20 Jun 1896
Temp ≥ 80° F	13 Jun	14 Mar 1926	17 Sept 1962
Temp ≥ 90° F	13 Jul	15 May 2006	13 Sept 1957
Temp ≥ 100° F	----	27 Jun 2021	11 Jul 1961

Since 1887:

- 1921, 1954 and 1998 are the only years in which temperatures failed to reach 80°F.
- Temperatures ≥100°F have only occurred only 3 times: in 1942, 1961 and 2021.

Astoria	LAST Occurrence of Summer/Autumn		
	Average	Earliest	Latest
Temp ≥ 100° F	-	27 Jun 2021	11 Jul 1961
Temp ≥ 90° F	25 Jul	15 May 2006	22 Sept 2009
Temp ≥ 80° F	12 Sep	22 May 2001	15 Oct 2022
Temp ≥ 70° F	13 Oct	9 Sept 1892	11 Nov 1999

HEATING DEGREE DAYS: Heating Degree Day (HDD) units are used by utility companies and other institutions for determining energy consumption. The heating season is July 1st through June 30th.

How are Heating Degree Days calculated? Calculate day's mean temperature (*maximum and minimum added, then divide by 2*), then subtract from 65 (*baseline*). All negative values are recorded as a zero.

Example: Max Temp: 57 Mean Temp = $(57 + 35) \div 2 = 46$
Min Temp: 35 HDD for the day = $65 - 46 = 19$ units

Season	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total	Δ norm ¹
1887-88	172	142	196	320	561	661	918	614	580	M	M	M	M	-
1888-89	M	54	82	281	546	577	693	555	405	364	229	159	3945	-708
1889-90	100	170	175	228	467	747	914	688	628	497	242	211	5067	414
1890-91	136	110	202	391	469	574	604	710	630	435	301	214	4776	123
1891-92	94	27	181	245	457	654	687	597	504	518	311	215	4490	-163
1892-93	142	85	180	315	509	726	809	694	607	571	378	286	5302	649
1893-94	125	77	221	446	577	603	720	689	659	499	362	238	5216	563
1894-95	119	45	178	384	458	744	750	564	588	462	322	205	4819	166
1895-96	120	117	255	289	569	666	660	528	636	542	418	220	5020	367
1896-97	45	53	165	324	695	583	726	610	714	394	242	145	4696	43
1897-98	146	66	209	322	516	605	724	529	637	448	324	184	4710	57
1898-99	138	68	156	339	547	714	670	695	647	495	451	285	5205	552
1899-00	105	153	145	365	359	585	610	624	492	442	360	214	4454	-199
1900-01	143	137	194	391	534	587	726	633	608	551	403	329	5236	583
1901-02	237	166	244	239	454	682	744	506	628	505	357	222	4984	331
1902-03	145	111	214	286	519	656	640	665	626	506	359	171	4898	245
1903-04	71	83	193	309	542	676	709	707	702	338	327	241	4898	245
1904-05	144	128	142	263	367	620	692	574	432	357	357	232	4308	-345
1905-06	111	104	178	407	536	707	661	493	608	379	325	207	4716	63
1906-07	60	85	169	240	524	629	845	525	636	413	262	169	4557	-96
1907-08	80	96	154	172	383	602	612	574	482	350	314	150	3969	-684
1908-09	17	83	118	337	395	718	847	598	548	440	391	187	4679	26
1909-10	124	98	M	236	M	M	532	661	505	459	310	274	M	-
1910-11	154	191	205	306	521	624	790	663	532	543	442	312	5283	630
1911-12	142	144	219	311	530	681	661	545	593	505	286	203	4820	165
1912-13	134	116	154	386	512	668	805	640	656	483	356	203	5113	460
1913-14	117	85	143	369	503	659	602	577	475	403	275	257	4465	-188
1914-15	121	133	217	256	489	778	710	539	404	377	309	201	4534	-119
1915-16	105	53	146	289	568	663	993	552	577	439	418	233	5036	383
1916-17	139	85	131	363	594	762	766	670	703	551	405	240	5409	756
1917-18	107	66	102	259	334	M	355	616	601	421	371	142	M	-
1918-19	88	65	95	288	506	651	647	581	534	412	305	89	4261	-392
1919-20	88	100	121	399	577	805	736	615	610	553	409	231	5244	591
1920-21	92	53	178	376	503	615	706	576	592	484	361	174	4710	57
1921-22	135	111	192	266	483	732	837	695	693	520	352	156	5172	519
1922-23	101	112	148	293	570	334	M	784	685	504	462	320	M	-
1923-24	179	88	153	273	407	655	738	527	643	500	341	246	4750	97
1924-25	156	145	182	352	556	862	658	524	625	458	285	250	5053	400
1925-26	133	165	173	327	531	581	663	494	440	298	327	171	4303	-350
1926-27	140	77	185	322	454	725	741	597	646	507	449	209	5052	322
1927-28	156	117	181	348	520	806	744	596	503	477	297	211	4956	303
1928-29	122	133	234	351	503	694	846	721	579	534	352	199	5268	615
1929-30	68	61	112	265	543	618	1007	550	512	364	391	226	4717	64
1930-31	223	44	136	354	517	650	583	525	498	367	230	164	4291	-362
1931-32	70	61	193	327	585	723	756	668	532	446	328	146	4835	182
1932-33	159	70	129	280	465	766	772	710	601	482	459	259	5152	499

ASTORIA: Heating Degree Days

Season	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total	<i>Δ norm</i>
1933-34	136	89	239	317	498	560	555	414	400	303	209	192	3912	-741
1934-35	119	80	148	288	437	609	713	499	707	451	353	149	4553	-100
1935-36	151	102	137	368	599	634	634	783	648	417	254	129	4856	203
1936-37	81	35	174	274	525	643	985	649	487	526	336	155	4870	217
1937-38	102	93	159	209	472	611	657	610	622	398	326	220	4479	-174
1938-39	154	149	111	295	573	668	659	704	611	409	329	273	4935	282
1939-40	123	107	109	392	518	527	616	506	477	370	226	134	4105	-548
1940-41	122	56	101	191	539	569	561	411	336	369	280	181	3716	-937
1941-42	41	85	221	280	446	645	719	528	567	411	365	257	4565	-88
1942-43	82	64	139	287	585	672	862	562	643	425	412	M	4733	80
1943-44	M	M	M	M	227	501	521	454	615	453	341	228	M	-
1944-45	143	119	154	254	561	728	668	591	675	532	341	243	5009	356
1945-46	127	152	204	364	584	686	681	622	608	510	292	227	5057	404
1946-47	108	149	179	475	633	696	828	505	499	398	271	226	4967	314
1947-48	114	151	181	378	585	657	752	737	685	599	401	165	5405	752
1948-49	173	172	240	416	672	865	1044	757	631	483	343	287	6083	1430
1949-50	202	154	197	504	461	699	1014	640	657	534	425	201	5688	1035
1950-51	161	105	207	432	544	542	745	606	737	419	374	214	5086	433
1951-52	132	159	193	369	549	769	845	682	691	465	344	266	5464	811
1952-53	156	147	176	237	589	664	544	592	625	509	379	298	4916	263
1953-54	137	117	168	327	455	603	758	553	684	548	387	315	5052	57
1954-55	219	158	185	373	426	659	737	658	728	637	482	293	5555	560
1955-56	215	199	250	388	658	720	712	763	683	488	335	289	5700	705
1956-57	138	150	228	448	602	696	896	625	594	476	327	209	5389	394
1957-58	181	145	100	359	561	613	585	435	620	492	285	128	4504	-491
1958-59	86	91	190	303	552	531	654	611	616	460	389	237	4720	-275
1959-60	149	188	253	343	546	703	756	611	615	469	428	256	5317	322
1960-61	178	155	235	349	537	661	541	511	590	520	378	186	4841	-154
1961-62	105	110	254	428	632	697	765	590	667	493	451	299	5491	496
1962-63	203	133	190	353	478	628	864	422	612	502	367	267	5019	-167
1963-64	140	116	121	307	510	629	653	652	635	567	477	285	5092	-94
1964-65	174	179	222	345	598	768	696	576	542	466	432	259	5257	71
1965-66	144	98	235	295	476	760	697	621	658	472	443	267	5166	-20
1966-67	160	142	169	405	514	595	651	603	697	623	404	194	5157	-29
1967-68	118	68	135	369	500	731	705	500	557	560	387	260	4890	-296
1968-69	124	151	216	438	531	782	944	687	633	540	351	161	5558	372
1969-70	193	188	226	423	551	637	710	518	617	584	416	250	5313	127
1970-71	170	142	264	428	531	743	746	632	703	549	415	310	5633	447
1971-72	165	85	212	420	538	728	768	623	526	545	313	196	5119	-67
1972-73	99	65	230	388	525	811	755	574	635	473	357	246	5158	-28
1973-74	164	225	213	421	614	611	803	639	623	503	445	257	5518	223
1974-75	174	97	130	398	502	596	678	606	653	598	373	273	5078	-217
1975-76	133	155	183	429	558	624	642	640	651	483	374	269	5141	-154
1976-77	117	105	128	361	503	660	774	504	628	475	453	238	4946	-349
1977-78	190	82	231	403	606	646	643	524	551	482	389	161	4908	-387
1978-79	125	110	202	324	693	843	910	641	543	467	338	243	5439	144
1979-80	91	92	111	305	537	540	807	529	617	459	388	279	4755	-540
1980-81	140	186	183	309	439	533	513	507	518	458	354	211	4351	-944
1981-82	139	107	173	372	474	604	714	581	610	538	391	212	4915	-380
1982-83	171	112	152	288	546	661	543	407	430	438	282	149	4179	-1116
1983-84	109	98	249	445	485	834	658	559	509	541	433	276	5196	-52
1984-85	160	155	199	452	542	780	788	686	683	493	383	252	5573	325

ASTORIA: Heating Degree Days

Season	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total	<i>Δ norm</i>
1985-86	131	172	259	438	769	788	551	577	481	520	373	194	5253	5
1986-87	188	120	273	308	505	635	654	517	519	431	306	229	4685	-563
1987-88	171	139	194	321	455	741	713	552	601	476	382	273	5018	-230
1988-89	159	173	250	289	520	663	703	773	612	399	363	199	5103	-145
1989-90	157	135	150	371	464	643	621	606	533	435	365	221	4701	-547
1990-91	82	74	127	424	510	863	727	469	667	537	435	309	5224	-24
1991-92	170	155	147	420	523	631	607	479	491	416	309	188	4536	-712
1992-93	129	144	253	379	555	747	803	641	541	469	268	218	5147	-11
1993-94	182	144	247	331	674	688	611	634	516	440	340	249	5056	-102
1994-95	164	93	144	447	686	697	573	520	569	493	338	239	4963	-195
1995-96	98	155	114	365	423	606	692	600	563	432	424	248	4720	-428
1996-97	137	136	240	408	573	656	659	588	584	477	252	201	4911	-247
1997-98	106	46	99	374	437	649	589	503	567	500	396	272	4538	-620
1998-99	149	112	189	385	526	709	674	574	628	522	413	249	5130	-28
1999-00	175	105	219	380	312	538	670	547	598	409	342	203	4498	-660
2000-01	88	110	161	268	543	614	628	610	578	538	369	286	4793	-365
2001-02	192	132	216	415	482	598	667	577	639	487	429	214	5048	-110
2002-03	114	148	187	400	486	593	506	578	532	490	382	191	4607	-449
2003-04	100	105	161	289	582	639	677	555	519	417	304	163	4511	-545
2004-05	76	43	193	346	555	576	622	562	508	450	268	195	4394	-662
2005-06	87	84	262	358	589	658	576	619	618	479	360	189	4879	-177
2006-07	146	176	196	426	548	682	768	585	563	510	375	257	5232	176
2007-08	96	109	227	424	587	699	755	611	666	588	371	316	5449	393
2008-09	191	140	189	379	444	765	671	625	660	497	359	172	5092	36
2009-10	108	98	149	354	488	761	514	476	515	486	427	253	4629	-427
2010-11	170	156	153	364	601	626	697	677	612	594	452	242	5344	288
2011-12	174	118	157	361	606	764	697	601	656	481	410	291	5316	292
2012-13	169	139	209	390	508	651	744	570	573	481	334	181	4949	-74
2013-14	142	105	146	424	536	835	614	627	516	437	265	180	4827	-196
2014-15	110	53	92	204	528	549	573	431	469	461	304	149	3923	-1100
2015-16	39	49	172	206	534	573	591	455	460	346	278	176	3879	-1144
2016-17	61	60	133	265	344	735	770	615	564	475	344	207	4573	-450
2017-18	141	99	144	396	512	694	538	634	620	449	282	198	4707	-316
2018-19	111	96	203	345	478	621	604	729	611	433	289	209	4729	-294
2019-20	86	52	155	462	562	656	589	646	672	487	299	218	4884	-139
2020-21	147	106	104	374	564	618	664	624	659	470	355	157	4842	-181
2021-22	119	122	182	381	475	742	588	577	599	543	420	197	4945	-15
2022-23	72	36	112	274	631	700	648	649	657	516	256	227	4778	-182
2023-24	79	23	91	289	530	538	607							
2024-25														
2025-26														
2026-27														
2027-28														
normal	140	122	185	378	543	677	659	584	589	489	361	233	4960	

JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	SEASON
EXTREMES: Least Monthly/Seasonal HDD and year of occurrence												
17	23	92	172	227	334	270	407	336	298	209	89	3716
1908	2023	2014	1907	1943	1922	1953	1983	1941	1926	1934	1919	1940-41
EXTREMES: Most Monthly and Seasonal HDD and year of occurrence												
237	225	273	504	769	865	1044	784	737	637	482	329	6083
1901	1973	1986	1949	1985	1948	1949	1923	1951	1955	1955	1901	1948-49

COOLING DEGREE DAYS Cooling Degree Day (CDD) units are used by utility companies and institutions for determining energy consumption. The cooling season is January 1st to December 31st.

How are Cooling Degree Days calculated? Calculate day's mean temperature (*maximum and minimum added, then divide by 2*), then subtract from 65 (*baseline*). All negative values are recorded as a zero.

Example: Max Temp: 94

Mean Temp = $(94 + 63) \div 2 = 78.5$

Min Temp: 63

CDD for the day = $78.5 - 65 = 14$ (rounded)

Season	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	Δ norm ¹
1887	0	0	0	0	20	0	0	0	4	0	0	0	24	22
1888	0	0	0	M	M	M	M	2	13	0	0	0	M	--
1889	0	0	0	0	6	26	20	1	15	0	0	0	68	66
1890	0	0	0	0	2	0	1	7	0	0	0	0	10	8
1891	0	0	0	0	0	0	23	44	9	0	0	0	76	74
1892	0	0	0	0	2	10	0	2	1	0	0	0	15	13
1893	0	0	0	0	0	10	2	9	1	0	0	0	22	20
1894	0	0	0	0	4	1	0	58	8	0	0	0	71	69
1895	0	0	0	0	6	5	38	18	1	1	0	0	69	67
1896	0	0	0	0	0	11	28	23	13	0	0	0	75	73
1897	0	0	0	1	6	4	1	23	5	1	0	0	41	39
1898	0	0	0	0	3	20	7	15	11	0	0	0	56	54
1899	0	0	0	0	0	0	11	2	14	7	0	0	34	32
1900	0	0	0	0	0	0	2	0	6	0	0	0	8	6
1901	0	0	0	0	0	0	0	15	3	0	0	0	18	16
1902	0	0	0	0	0	5	6	16	13	0	0	0	40	38
1903	0	0	0	0	0	31	8	7	3	0	0	0	49	47
1904	0	0	0	2	0	0	18	0	0	0	0	0	20	18
1905	0	0	0	0	0	0	17	8	6	0	0	0	31	29
1906	0	0	0	0	0	6	66	4	0	0	0	0	76	74
1907	0	0	0	0	1	0	1	1	18	6	0	0	27	25
1908	0	0	0	1	0	16	93	20	9	0	0	0	139	137
1909	0	0	0	0	0	0	0	17	M	0	M	M	17	15
1910	0	0	0	0	0	0	9	0	2	0	0	0	11	9
1911	0	0	0	0	0	0	27	26	0	0	0	0	53	51
1912	0	0	0	0	19	13	15	15	25	0	0	0	87	85
1913	0	0	0	0	0	1	26	21	4	0	0	0	52	50
1914	0	0	0	0	9	3	5	1	3	0	0	0	21	19
1915	0	0	0	0	0	10	11	34	2	0	0	0	57	55
1916	0	0	0	0	0	3	9	33	10	0	0	0	55	53
1917	0	0	0	0	0	0	7	21	6	8	0	M	42	40
1918	0	0	0	0	0	9	9	32	28	0	0	0	78	76
1919	0	0	0	0	0	14	32	16	29	0	0	0	91	89
1920	0	0	0	0	0	0	7	23	8	0	0	0	38	36
1921	0	0	0	0	0	0	0	3	0	1	0	0	4	2
1922	0	0	0	0	5	0	18	6	26	0	0	0	55	53
1923	M	0	0	0	0	4	1	20	13	2	0	0	40	38
1924	0	0	0	0	0	7	9	0	6	0	0	0	22	20
1925	0	0	0	0	3	20	0	12	1	0	0	0	36	34
1926	0	0	2	2	0	14	6	0	0	0	0	0	24	22
1927	0	0	0	0	0	0	0	21	5	0	0	0	26	24
1928	0	0	0	0	2	0	23	0	7	0	0	0	32	30
1929	0	0	0	0	0	0	24	14	19	2	0	0	59	57
1930	0	0	0	0	0	2	0	13	7	0	0	0	22	20
1931	0	0	0	0	11	2	28	28	13	0	0	0	82	80
1932	0	0	0	0	4	1	0	24	13	8	0	0	50	48

ASTORIA: Cooling Degree Days

Season	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	Δ norm
1933	0	0	0	0	0	0	10	30	0	0	0	0	40	38
1934	0	0	0	0	8	0	1	7	11	0	0	0	27	25
1935	0	0	0	0	0	12	26	33	6	0	0	0	77	75
1936	0	0	0	0	0	3	0	37	1	5	0	0	46	44
1937	0	0	0	0	0	8	0	5	11	2	0	0	26	24
1938	0	0	0	0	0	1	12	0	4	0	0	0	17	15
1939	0	0	0	0	5	0	14	46	27	0	0	0	92	90
1940	0	0	0	0	1	9	2	36	19	0	0	0	67	65
1941	0	0	0	0	10	2	34	2	0	0	0	0	48	46
1942	0	0	0	0	1	24	47	42	1	2	0	0	117	115
1943	0	0	0	0	0	M	M	M	M	M	0	0	M	-
1944	0	0	0	0	3	0	4	5	5	0	0	0	17	15
1945	0	0	0	0	0	0	4	0	1	2	0	0	7	5
1946	0	0	0	0	0	0	23	8	3	0	0	0	34	32
1947	0	0	0	3	5	0	0	0	13	0	0	0	21	19
1948	0	0	0	0	0	4	0	0	25	0	0	0	29	27
1949	0	0	0	0	0	0	1	0	3	0	0	0	4	2
1950	0	0	0	0	0	4	0	10	7	0	0	0	21	19
1951	0	0	0	1	0	8	15	1	5	3	0	0	33	31
1952	0	0	0	0	4	0	11	3	18	4	0	0	40	38
1953	0	0	0	0	1	0	1	4	11	0	0	0	17	15
1954	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1955	0	0	0	0	0	9	0	0	9	0	0	0	18	18
1956	0	0	0	0	0	0	18	0	1	0	0	0	19	19
1957	0	0	0	0	0	0	0	0	17	0	0	0	17	17
1958	0	0	0	0	0	11	20	4	14	0	0	0	49	49
1959	0	0	0	0	1	0	10	0	0	0	0	0	11	11
1960	0	0	0	0	0	0	1	0	8	0	0	0	9	9
1961	0	0	0	0	0	2	17	3	3	0	0	0	25	25
1962	0	0	0	0	0	0	0	0	5	0	0	0	5	5
1963	0	0	0	0	1	0	0	0	10	0	0	0	11	11
1964	0	0	0	0	0	0	0	6	0	3	0	0	9	9
1965	0	0	0	0	0	0	3	2	2	0	0	0	7	7
1966	0	0	0	0	0	7	0	4	3	0	0	0	14	14
1967	0	0	0	0	0	0	2	10	8	0	0	0	20	20
1968	0	0	0	0	0	0	5	6	10	0	0	0	21	21
1969	0	0	0	0	1	4	0	0	0	0	0	0	5	5
1970	0	0	0	0	0	7	0	0	1	0	0	0	8	8
1971	0	0	0	0	0	2	0	11	4	2	0	0	19	19
1972	0	0	0	0	0	1	19	23	16	0	0	0	59	59
1973	0	0	0	0	0	0	6	0	7	0	0	0	13	13
1974	0	0	0	0	0	0	5	11	13	0	0	0	29	15
1975	0	0	0	0	1	0	5	0	17	0	0	0	23	9
1976	0	0	0	0	0	3	4	8	8	1	0	0	24	10
1977	0	0	0	0	0	0	0	18	0	0	0	0	18	4
1978	0	0	0	0	0	0	6	8	0	0	0	0	14	0
1979	0	0	0	0	0	0	15	0	11	1	0	0	27	13
1980	0	0	0	0	0	0	13	0	7	8	0	0	28	14
1981	0	0	0	0	0	0	4	36	2	0	0	0	42	28
1982	0	0	0	0	0	6	0	4	1	1	0	0	12	-2
1983	0	0	0	0	0	0	0	4	1	0	0	0	5	-9
1984	0	0	0	0	0	0	3	1	5	0	0	0	9	-5

ASTORIA: Cooling Degree Days

Season	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	<i>Δ norm</i>
1985	0	0	0	0	3	11	1	6	0	0	0	0	21	7
1986	0	0	0	0	2	0	0	5	0	0	0	0	7	-7
1987	0	0	0	0	2	5	0	5	5	3	0	0	20	6
1988	0	0	0	0	0	0	10	3	6	0	0	0	19	5
1989	0	0	0	1	0	15	0	1	17	0	0	0	34	20
1990	0	0	0	0	0	5	5	12	10	0	0	0	32	18
1991	0	0	0	0	0	0	7	0	24	1	0	0	32	18
1992	0	0	0	0	0	6	1	18	1	0	0	0	26	12
1993	0	0	0	0	2	0	0	16	2	0	0	0	20	12
1994	0	0	0	0	0	0	4	1	9	0	0	0	14	6
1995	0	0	0	0	0	16	8	0	13	0	0	0	37	29
1996	0	0	0	0	0	1	8	0	0	3	0	0	12	4
1997	0	0	0	0	5	0	0	18	13	0	0	0	36	28
1998	0	0	0	0	0	0	2	3	0	0	0	0	5	-3
1999	0	0	0	3	3	0	0	2	12	0	0	0	20	12
2000	0	0	0	0	0	7	11	1	6	0	0	0	25	17
2001	0	0	0	0	1	0	0	5	0	0	0	0	6	-2
2002	0	0	0	0	0	1	9	13	1	0	0	0	24	16
2003	0	0	0	0	1	8	9	2	3	0	0	0	23	1
2004	0	0	0	0	0	5	19	13	0	0	0	0	37	15
2005	0	0	0	0	9	0	3	4	0	0	0	0	16	-6
2006	0	0	0	0	6	7	11	0	6	0	0	0	30	8
2007	0	0	0	0	0	0	10	3	10	0	0	0	23	1
2008	0	0	0	0	14	3	0	2	7	0	0	0	26	4
2009	0	0	0	0	0	0	13	3	20	0	0	0	36	14
2010	0	0	0	0	0	0	8	17	2	0	0	0	27	5
2011	0	0	0	0	0	1	0	3	2	0	0	0	6	-16
2012	0	0	0	0	0	0	0	16	9	0	0	0	25	13
2013	0	0	0	0	1	3	0	2	3	0	0	0	9	-3
2014	0	0	0	3	8	0	8	6	20	0	0	0	45	33
2015	0	0	0	2	0	4	21	16	4	2	0	0	49	37
2016	0	0	0	3	0	6	2	44	7	0	0	0	62	50
2017	0	0	0	0	2	10	4	17	22	0	0	0	55	43
2018	0	0	0	1	0	0	5	8	0	0	0	0	14	2
2019	0	0	0	0	1	7	2	12	1	0	0	0	23	11
2020	0	0	0	0	4	0	1	5	31	0	0	0	41	29
2021	0	0	0	0	0	28	0	9	4	0	0	0	41	19
2022	0	0	0	0	0	12	9	27	5	3	0	0	56	34
2023	0	0	0	1	13	0	1	46	4	5	0	0	70	58
2024	0													
2025														
2026														
2027														
normal	0	0	0	<1	2	2	5	7	6	<1	0	0	22	

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	SEASON
EXTREMES: Least Monthly/Seasonal CDD and year of occurrence												
0	0	0	0	0	0	0	0	0	0	0	0	0
2024+	2023+	2023+	2022+	2022+	2023+	2021+	2006+	2018+	2021+	2023+	2023+	1954
EXTREMES: Most Monthly and Seasonal CDD and year of occurrence												
0	0	2	3	20	28	93	58	31	8	0	0	139
2024+	2023+	1926	2016+	1887	2021	1908	1894	2020	1980+	2023+	2023+	1908

Astoria: Spring & Autumn FREEZE Data

table format: date of occurrence (month.day) that day's minimum temperature and Julian (J) day

	Last Freeze of Spring			First Freeze of Autumn			Freeze Free Period		Last Freeze of Spring			First Freeze of Autumn			Freeze Free Period
	Date	T	J	Date	T	J			Date	T	J	Date	T	J	
1890	4.13		103	none	-	-		1930	3.14	31	73	11.16	29	320	246
1891	3.11		70	12.24		358	287	1931	3.06	32	65	11.21	32	325	259
1892	2.06		37	12.20	27	355	317	1932	2.18	28	49	12.06	32	341	291
1893	2.14	30	45	11.01	31	305	259	1933	3.09	31	68	none	-	-	-
1894	3.04	31	63	11.16	32	320	256	1934	1.15	32	15	12.28	32	362	346
1895	3.14	27	73	12.17	31	351	277	1935	3.27	32	86	10.30	28	303	216
1896	4.03	32	94	11.25	30	330	235	1936	3.31	29	91	11.02	30	307	215
1897	3.30	32	89	none	-	-	-	1937	2.19	32	50	12.08	31	342	291
1898	3.22	30	81	12.11	32	345	263	1938	3.31	31	90	11.10	31	314	223
1899	3.25	32	84	none	-	-	-	1939	4.04	31	94	10.25	31	298	203
1900	2.17	32	48	11.19	30	323	274	1940	3.11	31	71	11.09	32	314	242
1901	2.21	30	52	12.12	30	346	293	1941	2.22	32	53	11.18	32	322	268
1902	2.01	32	32	none	-	-	-	1942	3.26	32	85	11.20	29	324	238
1903	3.13	32	72	12.09	32	343	270	1943	4.26	30	116	12.13	31	347	230
1904	3.26	32	86	none	-	-	-	1944	3.14	32	74	12.17	32	352	277
1905	2.13	29	44	11.27	31	351	286	1945	4.01	32	91	11.07	32	311	219
1906	3.17	28	76	11.18	29	322	245	1946	2.11	30	42	11.16	32	320	277
1907	1.26	32	26	none	-	-	-	1947	2.28	30	59	11.22	32	326	266
1908	3.03	32	63	12.16	31	341	277	1948	4.27	30	118	11.06	30	311	192
1909	2.21	32	52	M	-	-	M	1949	4.06	32	96	10.18	31	291	194
1910	2.23	30	54	none	-	-	-	1950	3.11	30	89	11.13	32	317	227
1911	4.13	31	103	11.11	25	315	211	1951	3.11	32	70	12.22	31	356	285
1912	3.20	32	80	12.07	32	342	261	1952	3.20	32	80	11.23	31	328	247
1913	3.25	30	84	none	-	-	-	1953	4.24	32	114	none	-	-	-
1914	2.06	31	37	12.11	32	345	307	1954	5.01	30	121	10.24	32	297	175
1915	2.14	31	45	11.27	32	331	285	1955	4.25	29	115	11.01	32	305	189
1916	2.05	30	37	11.12	30	317	279	1956	4.17	32	108	10.28	30	302	193
1917	3.17	32	76	M	-	-	M	1957	4.08	32	98	11.03	30	307	208
1918	3.07	32	66	12.25	32	359	292	1958	3.16	30	89	11.15	28	319	229
1919	1.06	32	6	10.25	32	298	291	1959	4.03	31	93	11.06	31	310	216
1920	3.30	31	90	10.19	32	293	202	1960	4.22	32	113	11.26	30	331	217
1921	3.27	32	86	12.17	28	351	264	1961	4.07	32	97	10.30	32	303	205
1922	3.26	31	85	11.29	32	333	247	1962	4.11	32	101	11.23	31	327	225
1923	3.15	31	74	12.01	30	335	260	1963	4.02	31	91	11.19	30	323	231
1924	4.15	31	106	11.12	30	317	210	1964	4.18	31	109	10.26	32	300	190
1925	3.18	32	77	11.04	31	308	230	1965	5.06	31	126	11.23	31	327	200
1926	1.13	30	13	12.13	26	347	333	1966	4.19	30	109	11.08	30	312	202
1927	4.18	26	108	11.26	32	330	221	1967	4.19	30	109	11.20	31	324	214
1928	2.15	31	47	12.14	32	349	301	1968	4.17	31	108	11.14	31	319	210
1929	4.05	32	95	12.12	31	346	250	1969	4.03	32	93	11.27	32	331	237

Astoria: Spring & Autumn FREEZE Data

	Last Freeze of Spring			First Freeze of Autumn			Freeze Free Period		Last Freeze of Spring			First Freeze of Autumn			Freeze Free Period
	Date	T	J	Date	T	J			Date	T	J	Date	T	J	
1970	4.16	31	106	10.27	32	300	193	2000	3.15	32	75	11.11	29	316	240
1971	4.12	32	102	10.27	29	300	197	2001	4.14	31	104	none	-	-	-
1972	3.07	29	67	10.29	31	303	235	2002	4.24	32	114	10.30	29	303	188
1973	4.02	32	92	11.01	29	305	212	2003	3.24	30	83	10.31	31	304	220
1974	4.13	30	102	12.22	31	356	253	2004	4.01	32	92	11.04	32	308	215
1975	4.29	31	119	11.17	32	321	201	2005	3.18	31	77	11.15	32	319	241
1976	3.12	31	72	11.25	32	330	257	2006	3.19	30	78	10.30	31	303	224
1977	5.12	32	132	11.08	29	312	179	2007	4.20	32	110	10.30	31	303	192
1978	4.06	36	96	10.26	32	299	202	2008	4.21	32	112	10.11	32	285	172
1979	3.20	32	79	11.13	31	317	237	2009	4.04	30	94	12.02	32	336	241
1980	4.02	30	93	12.06	29	341	247	2010	2.22	32	83	11.21	30	325	241
1981	4.13	31	103	11.24	32	328	224	2011	4.17	32	107	11.04	31	308	200
1982	4.19	31	109	11.09	30	313	203	2012	3.23	31	83	11.09	30	314	230
1983	4.13	31	103	10.07	32	280	176	2013	5.01	32	121	10.29	32	302	180
1984	4.26	31	117	10.17	31	291	173	2014	3.22	30	81	11.12	32	316	234
1985	5.12	31	132	10.09	31	282	149	2015	3.04	30	63	11.23	32	327	263
1986	4.30	32	120	11.10	31	314	193	2016	3.17	32	77	12.06	30	341	263
1987	4.25	32	115	11.27	32	331	215	2017	3.19	32	78	12.15	32	349	270
1988	4.25	32	116	11.14	32	319	202	2018	3.25	32	84	11.08	31	312	227
1989	4.17	32	107	11.02	32	306	198	2019	3.11	27	70	10.10	32	283	212
1990	3.27	31	86	11.06	31	310	223	2020	4.13	30	104	11.08	28	313	208
1991	4.12	31	102	10.29	32	302	199	2021	4.11	30	101	11.21	32	325	223
1992	3.09	32	69	10.15	32	289	219	2022	3.10	28	69	11.13	30	317	247
1993	3.27	31	86	11.07	30	311	224	2023	4.05	32	95	10.29	32	302	206
1994	3.23	32	82	11.02	32	306	223	2024							
1995	3.27	32	86	10.31	30	304	217	2025							
1996	3.28	30	88	10.26	32	300	211	2026							
1997	4.05	31	95	12.18	31	352	256	2027							
1998	4.13	32	103	11.28	32	332	228	2028							
1999	4.02	31	92	none	-	-	-	2029							

Averages & Extremes ¹	≤ 24° F	≤ 28° F	≤ 32° F	≤ 36° F
Average Last Occurrence in Spring	2 Feb	14 Feb	29 Mar	26 Apr
Latest Occurrence in Spring	12 Mar 1990	18 Apr 1927	12 May 1985	31 May 1953
Average First Occurrence in Autumn	2 Dec	28 Nov	9 Nov	20 Oct
Earliest Occurrence in Autumn	2 Nov 1935	28 Oct 1971	7 Oct 1983	13 Sept 1970
Average Freeze-Free Period	213 days			
Shortest Freeze-Free Period	149 days (1985)			
Longest Freeze-Free Period	346 days (1934)			

¹Averages are based on 1991-2020 data. Extreme data are 1890 to present.

Julian Day Converter

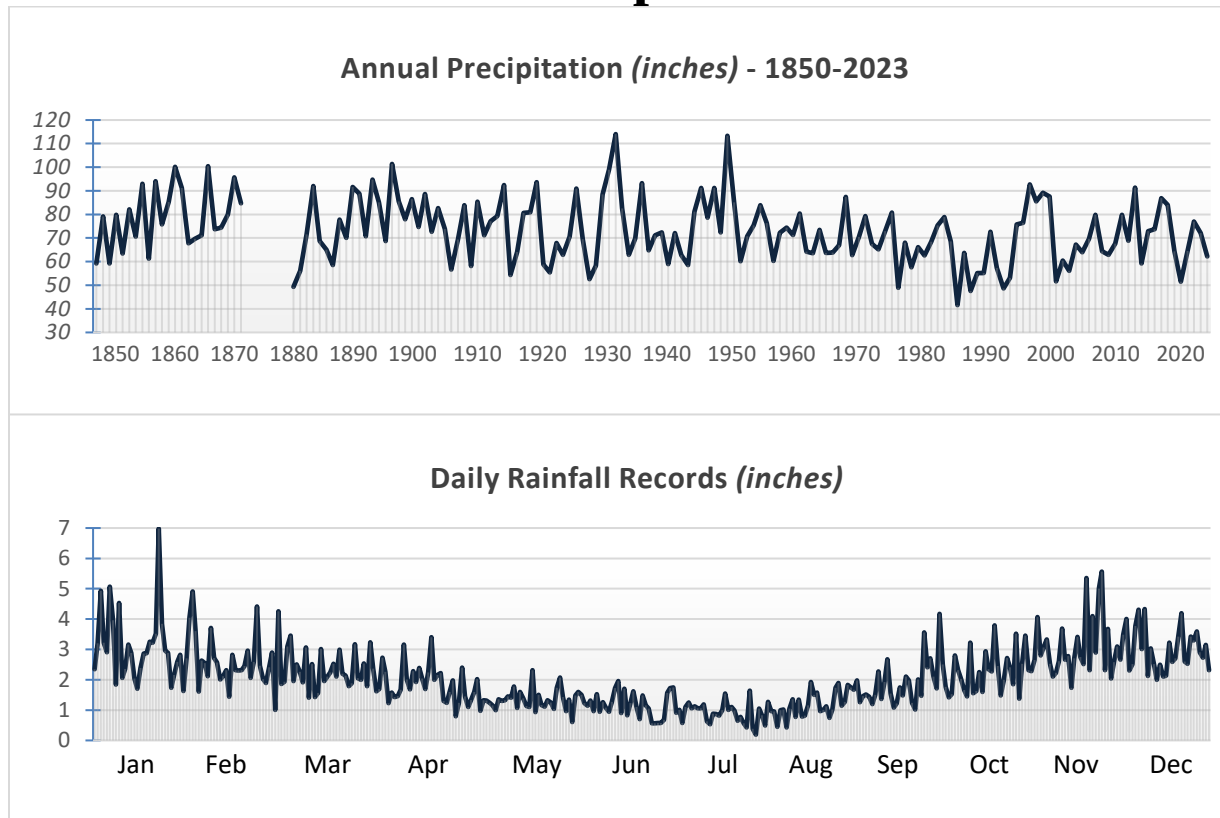
If the year is a leap year, then assign 29 February as Julian day 60.
For the remainder of that year, add 1 for any particular day.

Leap Years for the 20 th and 21 st Centuries						
1904	1932	1960	1988	2016	2044	2072
1908	1936	1964	1992	2020	2048	2076
1912	1940	1968	1996	2024	2052	2080
1916	1944	1972	2000	2028	2056	2084
1920	1948	1976	2004	2032	2060	2088
1924	1952	1980	2008	2036	2064	2092
1928	1956	1984	2012	2040	2068	2096

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1	32	60	91	121	152	182	213	244	274	305	335
2	2	33	61	92	122	153	183	214	245	275	306	336
3	3	34	62	93	123	154	184	215	246	276	307	337
4	4	35	63	94	124	155	186	216	247	277	308	338
5	5	36	64	95	125	156	185	217	248	278	309	339
6	6	37	65	96	126	157	187	218	249	279	310	340
7	7	38	66	97	127	158	188	219	250	280	311	341
8	8	39	67	98	128	159	189	220	251	281	312	342
9	9	40	68	99	129	160	190	221	252	282	313	343
10	10	41	69	100	130	161	191	222	253	283	314	344
11	11	42	70	101	131	162	192	223	254	284	315	345
12	12	43	71	102	132	163	193	224	255	285	316	346
13	13	44	72	103	133	164	194	225	256	286	317	347
14	14	45	73	104	134	165	195	226	257	287	318	348
15	15	46	74	105	135	166	196	227	258	288	319	349
16	16	47	75	106	136	167	197	228	259	289	320	350
17	17	48	76	107	137	168	198	229	260	290	321	351
18	18	49	77	108	138	169	199	230	261	291	322	352
19	19	50	78	109	139	170	200	231	262	292	323	353
20	20	51	79	110	140	171	201	232	263	293	324	354
21	21	52	80	111	141	172	202	233	264	294	325	355
22	22	53	81	112	142	173	203	234	265	295	326	356
23	23	54	82	113	143	174	204	235	266	296	327	357
24	24	55	83	114	144	175	205	236	267	297	328	358
25	25	56	84	115	145	176	206	237	268	298	329	359
26	26	57	85	116	146	177	207	238	269	299	330	360
27	27	58	86	117	147	178	208	239	270	300	331	361
28	28	59	87	118	148	179	209	240	271	301	332	362
29	29	--	88	119	149	180	210	241	272	302	333	363
30	30		89	120	150	181	211	242	273	303	334	364
31	31		90		151		212	243		304		365

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Astoria Precipitation Data



Astoria: Monthly Precipitation Normals/Extremes¹

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Normal Rain	10.59	7.18	7.90	5.80	3.40	2.30	0.83	1.12	2.67	6.74	11.05	10.68	70.26
Wettest Mo/Yr	27.00 1851	21.89 1961	21.52 1859	13.39 1893	8.52 1895	7.70 1931	7.58 1916	5.22 1968	10.69 2013	17.79 1950	22.54 1937	36.07 1933	114.03 1933
Driest Mo/Yr	0.69 1985	0.65 1920	0.93 1965	0.21 1909	0.37 1982	0.06 1869	0.00 1851	0.00 1850	0.00 1909	0.23 1895	1.45 1976	2.67 1985	41.58 1985
Average Snow³	2.0	0.4	0.5	0	0	0	0	0	0	0	0.2	1.1	4.2
Normal Snow³	0.4	0.5	0	0	0	0	0	0	0	0	0.3	0.2	1.4
Snowiest Mo/Yr	26.9 1950	8.5 1952	12.8 1951	1.1 1975	0 -	0 -	0 -	0 -	0 -	T 1994 ²	4.6 1985	19.0 1964	27.3 1969

¹ Normals are 30-year NCDC Climatic Normals (1991-2020). Extremes 1850 through 2023. Units are inches.

² Most snow in October: Trace of snow in both 1971 and 1935.

³ The snow averages are based on weather observations 1953 to 1995, period of full snow observations. These values will be different from the 1991-2020 normals (listed on line labeled 'normal snow', which contained years during which snow was not measured by the ASOS).

Astoria's Daily Precipitation Normals¹ & Records

DY= Daily, MO= Month to Date, YR= Year to date, WY= Water Year to date. Precipitation in units of inches

D A Y	January 1887-2023								February 1887-2023							
	Daily Normals & Cumulative Totals				Daily Records ²				Normals ¹ & Cumulative Totals				Daily Records ²			
					Rain		Snow						Rain		Snow	
	DY	MO	YR	WY	Amt	Year	Amt	Year	DY	MO	YR	WY	Amt	Year	Amt	Year
1	.36	.36	.36	28.83	2.35	1936	10.0	1928	.28	.28	10.87	39.34	4.04	1916	5.0	1893
2	.37	.73	.73	29.20	3.20	2021	9.0	1890	.27	.55	11.14	39.61	4.91	1916	2.0	1949
3	.36	1.09	1.09	29.56	4.93	1895	5.0	1952	.27	.82	11.41	39.88	3.60	1907	1.7	1936
4	.36	1.45	1.45	29.92	3.22	2015	1.1	1959	.27	1.09	11.68	40.15	1.61	1918	0.5	1985
5	.36	1.81	1.81	30.28	2.91	2006	3.9	1982	.28	1.37	11.96	40.43	2.63	1898	5.5	1899
6	.36	2.17	2.17	30.64	5.07	2022	4.0	1890	.27	1.64	12.23	40.70	2.55	1916	0.8	1990
7	.37	2.54	2.54	31.01	3.96	2009	4.0	1909	.27	1.91	12.50	40.97	2.11	1996	2.0	1939
8	.36	2.90	2.90	31.37	1.84	1896	3.1	1993	.27	2.18	12.77	41.24	3.71	1996	5.0	1904
9	.36	3.26	3.26	31.73	4.53	1990	2.5	1909	.27	2.45	13.04	41.51	2.72	1990	4.5	1939
10	.35	3.61	3.61	32.08	2.06	2006	3.0	1952	.28	2.73	13.32	41.79	2.57	1949	3.0	1904
11	.35	3.96	3.96	32.43	2.36	2021	2.4	1971	.27	3.00	13.59	42.06	2.01	1937	3.0	1949
12	.34	4.30	4.30	32.77	3.16	1900	10.8	1971	.26	3.26	13.85	42.32	2.11	1939	0.5	1990
13	.34	4.64	4.64	33.11	2.88	1975	6.3	1950	.24	3.50	14.09	42.56	2.31	1994	6.0	1923
14	.34	4.98	4.98	33.45	2.04	1956	0.8	1993	.25	3.75	14.34	42.81	1.44	1960	1.7	1980
15	.36	5.34	5.34	33.81	1.70	2011	6.0	1950	.24	3.99	14.58	43.05	2.82	1939	1.0	1894
16	.35	5.69	5.69	34.16	2.39	1982	1.5	1954	.24	4.23	14.82	43.29	2.32	1989	1.0	1898
17	.36	6.05	6.05	34.52	2.86	2015	3.1	1954	.25	4.48	15.07	43.54	2.30	1949	2.0	1952
18	.36	6.41	6.41	34.88	2.87	1919	3.5	1935	.24	4.72	15.31	43.78	2.31	1931	1.5	1897
19	.35	6.76	6.76	35.23	3.25	1950	5.0	1943	.25	4.97	15.56	44.03	2.45	1991	2.0	1894
20	.34	7.10	7.10	35.57	3.22	1899	2.3	1969	.24	5.21	15.80	44.27	2.96	1932	4.5	1952
21	.34	7.44	7.44	35.91	3.52	2016	5.0	1952	.23	5.44	16.03	44.50	2.06	1935	2.0	1952
22	.32	7.76	7.76	36.23	6.98	1919	2.5	1890	.24	5.68	16.27	44.74	2.59	2021	Tr	1996
23	.33	8.09	8.09	36.56	3.84	1982	2.0	1927	.24	5.92	16.51	44.98	4.41	1950	0.3	1996
24	.32	8.41	8.41	36.88	2.96	1912	2.0	1898	.24	6.16	16.75	45.22	2.46	1961	1.1	1936
25	.32	8.73	8.73	37.20	2.88	1971	4.8	1933	.25	6.41	17.00	45.47	2.02	1948	1.0	1936
26	.32	9.05	9.05	37.52	1.73	1970	5.2	1969	.26	6.67	17.26	45.73	1.89	1936	0.2	1955
27	.31	9.36	9.36	37.83	2.16	1917	5.8	1969	.25	6.92	17.51	45.98	2.41	1936	0.1	1971
28	.31	9.67	9.67	38.14	2.59	2004	4.0	1929	.26	7.18	17.77	46.24	2.89	2022	4.0	1962
29	.30	9.97	9.97	38.44	2.82	2006	6.6	1969	-	-	-	-	1.01	1936	2.0	1896
30	.31	10.28	10.28	38.75	1.63	1952	0.9	1969								
31	.31	10.59	10.59	39.06	2.70	1987	3.5	1947								
	January				Rain		Snow		February				Rain		Snow	
	Month: Normal Total ¹				10.59"		2.0"		Month: Normal Total ¹				7.18"		0.4"	
	Month: Extreme Most				27.00	1851	26.9	1950	Month: Extreme Most				21.89	1961	22.7	1917
	Month: Extreme Least				0.69	1985	-	-	Month: Extreme Least				0.65	1920	-	-
	Calendar day: most Rain				6.98" on 22 Jan 1919				Calendar day: most Rain				4.91" on 2 Feb 1916			
	Calendar day: most Snow				10.8" on 12 Jan 1971				Calendar day: most Snow				6.0" 13 Feb 1923			
	Any 24-hrs: most Rain				6.98" on 22 Jan 1919				Any 24-hrs: most Rain				4.91" on 2 Feb 1916			
	Any 24-hrs: most Snow				10.8" on 12 Jan 1971				Any 24-hrs: most Snow				6.0" on 13 Feb 1923			

¹ Normals listed are climatic normal (1991-2020). For snow, averages use 1953-1995 data (period of full snow observations).

Daily and cumulative averages based on a daily value that is computed by normalizing monthly total across the days of a month.

² Last year of multiple occurrences listed. Period of Record for daily data: rain 1887-2023, snow 1887-1995.

Astoria's Daily Precipitation Normals¹ & Records

DY= Daily, MO= Month to Date, YR= Year to date, WY= Water Year to date. Precipitation in units of inches

D A Y	March 1887-2023								April 1887-2023							
	Daily Normals & Cumulative Totals				Daily Records ²				Normals ¹ & Cumulative Totals				Daily Records ²			
					Rain		Snow						Rain		Snow	
	DY	MO	YR	WY	Amt	Year	Amt	Year	DY	MO	YR	WY	Amt	Year	Amt	Year
1	.28	.28	18.05	46.52	4.25	1910	2.7	1966	.23	.23	25.90	54.37	2.37	1901	0.9	1936
2	.27	.55	18.32	46.79	1.86	1910	1.5	1966	.23	.46	26.13	54.60	1.62	1893	T	1989
3	.27	.82	18.59	47.06	1.94	1951	4.5	1960	.22	.68	26.35	54.82	1.69	1991	1.0	1975
4	.27	1.09	18.86	47.33	3.09	1950	2.0	1951	.22	.90	26.57	55.04	2.73	1991	0.1	1975
5	.26	1.35	19.12	47.59	3.45	1932	3.0	1894	.23	1.13	26.80	55.27	2.26	1901	T	1992
6	.26	1.61	19.38	47.85	1.96	1933	3.0	1951	.21	1.34	27.01	55.48	1.23	1962	T	1992
7	.26	1.87	19.64	48.11	2.50	1956	1.6	1974	.21	1.55	27.22	55.69	1.58	1917	T	1994
8	.26	2.13	19.90	48.37	2.26	1916	4.5	1951	.21	1.76	27.43	55.90	1.43	1993	0.5	1927
9	.26	2.39	20.16	48.63	1.91	2016	0.1	1956	.22	1.98	27.65	56.12	1.46	1971	0.2	1971
10	.26	2.65	20.42	48.89	3.06	1903	1.0	1954	.21	2.19	27.86	56.33	1.67	1946	T	1991
11	.25	2.90	20.67	49.14	1.41	2010	0.2	1967	.20	2.39	28.06	56.53	3.16	1899	T	1983
12	.26	3.16	20.93	49.40	2.52	1935	0.3	1903	.21	2.60	28.27	56.74	2.01	1896	0.8	1911
13	.27	3.43	21.20	49.67	1.43	1920	1.5	1897	.20	2.80	28.47	56.94	1.68	2002	T	1982
14	.26	3.69	21.46	49.93	1.57	1936	T	1986	.20	3.00	28.67	57.14	2.28	1937	T	1982
15	.27	3.96	21.73	50.20	3.01	1908	0.5	1980	.19	3.19	28.86	57.33	1.92	2005	T	1982
16	.26	4.22	21.99	50.46	1.96	1921	0.2	1953	.20	3.29	29.06	57.53	2.39	1938	T	1978
17	.26	4.48	22.25	50.72	2.10	1921	T	1984	.19	3.58	29.25	57.72	2.04	1908	T	1982
18	.25	4.73	22.50	50.97	2.24	1997	T	1975	.20	3.78	29.45	57.92	1.69	1970	T	1987
19	.25	4.98	22.75	51.22	2.53	1997	T	1994	.19	3.97	29.64	58.11	2.24	1965	T	1995
20	.25	5.23	23.00	51.47	2.10	1905	2.5	1966	.19	4.16	29.83	58.30	3.40	1893	-	-
21	.26	5.49	23.26	51.73	2.99	1948	T	1975	.18	4.34	30.01	58.48	2.00	1921	-	-
22	.25	5.74	23.51	51.98	2.20	1993	2.0	1904	.18	4.52	30.19	58.66	2.16	1996	T	1986
23	.26	6.00	23.77	52.24	2.14	1952	T	1995	.17	4.69	30.36	58.83	2.22	2014	T	1985
24	.25	6.25	24.02	52.49	1.79	2007	T	1972	.17	4.86	30.35	59.00	1.30	1949	T	1991
25	.25	6.50	24.27	52.74	1.88	1916	T	1995	.17	5.03	30.70	59.17	1.24	1892	T	1986
26	.24	6.74	24.51	52.98	3.17	1929	0.2	1898	.16	5.19	30.86	59.33	1.60	2010	T	1955
27	.24	6.98	24.75	53.22	2.05	1968	T	1988	.16	5.35	31.02	59.49	1.98	1951	T	1990
28	.23	7.21	24.98	53.45	2.00	1943	1.5	1936	.16	5.51	31.18	59.65	0.80	1997	T	1990
29	.23	7.44	25.21	53.68	2.54	2012	2.2	1936	.15	5.66	31.33	59.80	1.24	1899	T	1988
30	.23	7.67	25.44	53.91	1.79	1931	T	1982	.14	5.80	31.47	59.94	2.40	1940	-	-
31	.23	7.90	25.67	54.14	3.23	1931	T	1982								
	March				Rain		Snow		April				Rain		Snow	
	Month: Normal Total ¹				7.90"		0.5"		Month: Normal Total ¹				5.80"		0"	
	Month: Extreme Most				21.32 1859		12.8 1951		Month: Extreme Most				13.39 1893		1.1 1975	
	Month: Extreme Least				0.93 1965		- -		Month: Extreme Least				0.21 1909		- -	
	Calendar day: most Rain				4.25" on 1 Mar 1910				Calendar day: most Rain				3.40" on 20 Apr 1893			
	Calendar day: most Snow				4.5" on 3 Mar 1960				Calendar day: most Snow				1.0" on 3 Apr 1975			
	Any 24-hrs: most Rain				4.25" on 1 Mar 1910				Any 24-hrs: most Rain				3.40" on 20 Apr 1893			
	Any 24-hrs: most Snow				5.9" on 2-3 Mar 1960				Any 24-hrs: most Snow				1.0" on 3 Apr 1975			

¹ Normals listed are climatic normal (1991-2020). For snow, averages use 1953-1995 data (period of full snow observations).

Daily and cumulative averages based on a daily value that is computed by normalizing monthly total across the days of a month.

² Last year of multiple occurrences listed. Period of Record for daily data: rain 1887-2023, snow 1887-1995.

Astoria's Daily Precipitation Normals¹ & Records

DY= Daily, MO= Month to Date, YR= Year to date, WY= Water Year to date. Precipitation in units of inches

D A Y	May 1887-2023								June 1887-2023							
	Daily Normals & Cumulative Totals				Daily Records ²				Normals ¹ & Cumulative Totals				Daily Records ²			
					Rain		Snow						Rain		Snow	
	DY	MO	YR	WY	Amt	Year	Amt	Year	DY	MO	YR	WY	Amt	Year	Amt	Year
1	.14	.14	31.61	60.08	1.45	1887	-	-	.10	.10	34.97	63.44	2.07	1968	-	-
2	.13	.27	31.74	60.21	1.10	1893	-	-	.10	.20	35.07	63.54	1.43	1925	-	-
3	.14	.41	31.88	60.35	1.33	2012	-	-	.10	.30	35.17	63.64	0.96	1977	-	-
4	.13	.54	32.01	60.48	1.60	1979	-	-	.09	.39	35.26	63.73	1.34	1974	-	-
5	.13	.67	32.14	60.61	2.02	1948	-	-	.10	.49	35.36	63.83	0.61	1981	-	-
6	.13	.80	32.27	60.74	0.98	2009	-	-	.09	.58	35.45	63.92	1.48	1985	-	-
7	.12	.92	32.39	60.86	1.32	1933	-	-	.09	.67	35.54	64.01	1.60	1988	-	-
8	.12	1.04	32.51	60.98	1.31	2014	-	-	.09	.76	35.63	64.10	1.50	1933	-	-
9	.12	1.16	32.63	61.10	1.24	2005	-	-	.09	.85	35.72	64.19	1.23	2022	-	-
10	.11	1.27	32.74	61.21	1.15	1909	-	-	.09	.94	35.81	64.28	1.14	1915	-	-
11	.11	1.38	32.85	61.32	1.00	1907	-	-	.09	1.03	35.90	64.37	1.31	2000	-	-
12	.11	1.49	32.96	61.43	1.35	2017	-	-	.08	1.11	35.98	64.45	0.97	1906	-	-
13	.11	1.60	33.07	61.54	1.30	1905	-	-	.08	1.19	36.06	64.53	1.52	1931	-	-
14	.11	1.71	33.18	61.65	1.32	2001	-	-	.08	1.27	36.14	64.61	0.94	1957	-	-
15	.11	1.82	33.29	61.76	1.45	1908	-	-	.09	1.36	36.23	64.70	1.26	2017	-	-
16	.11	1.93	33.40	61.87	1.41	1941	-	-	.07	1.43	36.30	64.77	1.08	1947	-	-
17	.10	2.03	33.50	61.97	1.78	1901	-	-	.08	1.51	36.38	64.85	0.94	1937	-	-
18	.11	2.14	33.61	62.08	1.07	1953	-	-	.08	1.59	36.46	64.93	1.27	1921	-	-
19	.09	2.23	33.70	62.17	1.60	1960	-	-	.07	1.66	36.53	65.00	1.72	1900	-	-
20	.10	2.33	33.80	62.27	1.39	1930	-	-	.07	1.73	36.60	65.07	1.96	1900	-	-
21	.10	2.43	33.90	62.37	1.13	1922	-	-	.07	1.80	36.67	65.14	0.90	1997	-	-
22	.10	2.53	34.00	62.47	1.10	1922	-	-	.07	1.87	36.74	65.21	1.70	1897	-	-
23	.09	2.62	34.09	62.56	2.31	2013	-	-	.06	1.93	36.80	65.27	0.83	1914	-	-
24	.10	2.72	34.19	62.66	0.93	1974	-	-	.06	1.99	36.86	65.33	1.23	1973	-	-
25	.10	2.82	34.29	62.76	1.50	1900	-	-	.06	2.05	36.92	65.39	1.62	1931	-	-
26	.10	2.92	34.39	62.86	1.17	1895	-	-	.05	2.10	36.97	65.44	1.10	1931	-	-
27	.09	3.01	34.48	62.95	1.11	2013	-	-	.06	2.16	37.03	65.50	0.70	1966	-	-
28	.10	3.11	34.58	63.05	1.32	1892	-	-	.05	2.21	37.08	65.55	1.48	2002	-	-
29	.10	3.21	34.68	63.15	1.25	1969	-	-	.04	2.25	37.12	65.59	1.16	1917	-	-
30	.10	3.31	34.78	63.25	1.04	1943	-	-	.05	2.30	37.17	65.64	1.05	1989	-	-
31	.09	3.40	34.87	63.34	1.74	1968	-	-								
	May				Rain		Snow		June				Rain		Snow	
	Month: Normal Total ¹				3.40"		0"		Month: Normal Total ¹				2.30"		0"	
	Month: Extreme Most				8.52 1895		-- --		Month: Extreme Most				7.70 1931		-- --	
	Month: Extreme Least				0.37 1982		-- --		Month: Extreme Least				0.06 1869		-- --	
	Calendar day: most Rain				2.31" on 23 May 2013				Calendar day: most Rain				2.07" on 1 Jun 1968			
	Calendar day: most Snow				no snow observed				Calendar day: most Snow				no snow observed			
	Any 24-hrs: most Rain				2.59" 23-24 May 2013				Any 24-hrs: most Rain				2.42" on 1-2 Jun 1968			
	Any 24-hrs: most Snow				---				Any 24-hrs: most Snow				---			

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Daily and cumulative averages based on a daily value that is computed by normalizing monthly total across the days of a month.

² Last year of multiple occurrences listed. Period of Record for daily data: rain 1887-2023, snow 1887-1995.

Astoria's Daily Precipitation Normals¹ & Records

DY= Daily, MO= Month to Date, YR= Year to date, WY= Water Year to date. Precipitation in units of inches

D A Y	July 1887-2023							August 1887-2023						
	Daily Normals & Cumulative Totals				Daily Records ²			Normals ¹ & Cumulative Totals				Daily Records ²		
					Rain		Snow					Rain		Snow
	DY	MO	YR	WY	Amt	Year	Amt Year	DY	MO	YR	WY	Amt	Year	Amt Year
1	.04	.04	37.21	65.68	0.56	1983	- -	.02	.02	38.02	66.49	0.43	1896	- -
2	.04	.08	37.25	65.72	0.56	1923	- -	.03	.05	38.05	66.52	1.64	1956	- -
3	.03	.11	37.28	65.75	0.58	1936	- -	.02	.07	38.07	66.54	0.39	1888	- -
4	.04	.15	37.32	65.79	0.58	1902	- -	.02	.09	38.09	66.56	0.19	1949	- -
5	.03	.18	37.35	65.82	0.68	1895	- -	.02	.11	38.11	66.58	1.05	1943	- -
6	.04	.22	37.39	65.86	1.57	1909	- -	.03	.14	38.14	66.61	0.83	1995	- -
7	.03	.25	37.42	65.89	1.72	1976	- -	.02	.16	38.16	66.63	0.49	1985	- -
8	.03	.28	37.45	65.92	1.75	1946	- -	.03	.19	38.19	66.66	1.27	1994	- -
9	.04	.32	37.49	65.96	0.91	1890	- -	.03	.22	38.22	66.69	0.97	1899	- -
10	.03	.35	37.52	65.99	1.01	1913	- -	.02	.24	38.24	66.71	0.95	1922	- -
11	.03	.38	37.55	66.02	0.58	1892	- -	.03	.27	38.27	66.74	0.45	1978	- -
12	.02	.40	37.57	66.04	1.10	1983	- -	.03	.30	38.30	66.77	1.00	1908	- -
13	.03	.43	37.60	66.07	1.25	1983	- -	.04	.34	38.34	66.81	1.02	1892	- -
14	.02	.45	37.62	66.09	1.06	1957	- -	.03	.37	38.37	66.84	0.43	1899	- -
15	.03	.48	37.65	66.12	1.12	1902	- -	.04	.41	38.41	66.88	1.05	1950	- -
16	.02	.50	37.67	66.14	1.06	1934	- -	.03	.44	38.44	66.91	1.36	1912	- -
17	.03	.53	37.70	66.17	1.06	1974	- -	.04	.48	38.48	66.95	0.77	1889	- -
18	.02	.55	37.72	66.19	1.19	1996	- -	.04	.52	38.52	66.99	1.34	1924	- -
19	.02	.57	37.74	66.21	0.63	1949	- -	.04	.56	38.56	67.03	0.79	2008	- -
20	.02	.59	37.76	66.23	0.53	1954	- -	.05	.61	38.61	66.08	0.82	1899	- -
21	.03	.62	37.79	66.26	0.88	1901	- -	.04	.65	38.65	66.12	1.16	2004	- -
22	.02	.64	37.81	66.28	0.87	2007	- -	.04	.69	38.69	66.16	1.92	2001	- -
23	.02	.66	37.83	66.30	0.82	2014	- -	.04	.73	38.73	66.20	1.50	1968	- -
24	.02	.68	37.85	66.32	1.00	1916	- -	.04	.77	38.77	66.24	1.58	1953	- -
25	.02	.70	37.87	66.34	1.55	1916	- -	.05	.82	38.79	66.29	0.96	2004	- -
26	.02	.72	37.89	66.36	1.01	1916	- -	.04	.86	38.86	66.33	1.01	1997	- -
27	.03	.75	37.92	66.39	1.10	1916	- -	.05	.91	38.91	66.38	1.12	1889	- -
28	.02	.77	37.94	66.41	0.99	1950	- -	.05	.96	38.96	66.43	0.74	1983	- -
29	.02	.79	37.96	66.43	0.65	1932	- -	.05	1.01	39.01	66.48	1.02	1977	- -
30	.02	.81	37.98	66.45	0.78	1985	- -	.06	1.07	39.07	66.54	1.73	1922	- -
31	.02	.83	38.00	66.47	0.56	1964	- -	.05	1.12	39.12	66.59	1.89	1927	- -
	July				Rain		Snow	August				Rain		Snow
	Month: Normal Total ¹				0.83"		0"	Month: Normal Total ¹				1.12"		0"
	Month: Extreme Most				7.58	1916	-- --	Month: Extreme Most				5.22	1968	-- --
	Month: Extreme Least				0.00	1851	-- --	Month: Extreme Least				0.00	1850	-- --
	Calendar day: most Rain				1.75" on 8 Jul 1946			Calendar day: most Rain				1.92" on 22 Aug 2001		
	Calendar day: most Snow				no snow observed			Calendar day: most Snow				no snow observed		
	Any 24-hrs: most Rain				1.98" on 16-17 Jul 1974			Any 24-hrs: most Rain				2.78" on 21-22 Aug 2001		
	Any 24-hrs: most Snow				---			Any 24-hrs: most Snow				---		

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Daily and cumulative averages based on a daily value that is computed by normalizing monthly total across the days of a month.

² Last year of multiple occurrences listed. Period of Record for daily data: rain 1887-2023, snow 1887-1995.

Astoria's Daily Precipitation Normals¹ & Records

DY= Daily, MO= Month to Date, YR= Year to date, WY= Water Year to date. Precipitation in units of inches

D A Y	September 1887-2023								October 1887-2023							
	Daily Normals & Cumulative Totals				Daily Records ²				Normals ¹ & Cumulative Totals				Daily Records ²			
					Rain		Snow						Rain		Snow	
	DY	MO	YR	WY	Amt	Year	Amt	Year	DY	MO	YR	WY	Amt	Year	Amt	Year
1	.06	.06	39.18	66.65	1.14	1971	-	-	.14	.14	41.93	.14	2.10	1889	-	-
2	.06	.12	39.24	66.71	1.27	1912	-	-	.15	.29	42.08	.29	1.71	1947	-	-
3	.06	.18	39.30	66.77	1.83	1979	-	-	.15	.44	42.23	.44	4.17	1927	-	-
4	.07	.25	39.37	66.84	1.75	1913	-	-	.16	.60	42.39	.60	2.50	1920	-	-
5	.07	.32	39.44	66.91	1.67	1931	-	-	.16	.76	42.55	.76	1.77	1981	-	-
6	.07	.39	39.51	66.98	1.98	1947	-	-	.18	.94	42.73	.94	1.42	1981	-	-
7	.06	.45	39.57	67.04	1.26	1906	-	-	.18	1.12	42.91	1.12	1.52	1893	-	-
8	.07	.52	39.64	67.11	1.46	1979	-	-	.18	1.30	43.09	1.30	2.80	1962	-	-
9	.07	.59	39.71	67.18	1.51	2019	-	-	.18	1.48	43.27	1.48	2.32	2010	-	-
10	.07	.66	39.78	67.25	1.44	1962	-	-	.19	1.67	43.46	1.67	2.03	1995	-	-
11	.08	.74	39.86	67.33	1.20	1920	-	-	.19	1.86	43.65	1.86	1.66	1920	-	-
12	.07	.81	39.93	67.40	1.50	1906	-	-	.20	2.06	43.85	2.06	1.45	1926	-	-
13	.08	.89	40.01	67.48	2.27	1935	-	-	.20	2.26	44.05	2.26	3.22	2016	-	-
14	.08	.97	40.09	67.56	1.37	1917	-	-	.20	2.46	44.25	2.46	1.56	2016	-	-
15	.08	1.05	40.17	67.64	1.92	1955	-	-	.21	2.67	44.46	2.67	1.63	1947	-	-
16	.09	1.14	40.26	67.73	2.67	1997	-	-	.21	2.88	44.67	2.88	2.25	1926	-	-
17	.08	1.22	40.34	67.81	1.54	1910	-	-	.23	3.11	44.90	3.11	1.60	1975	-	-
18	.10	1.32	40.44	67.91	1.08	1891	-	-	.23	3.34	45.13	3.34	2.94	1958	-	-
19	.09	1.41	40.53	68.00	1.22	1973	-	-	.23	3.57	45.36	3.57	2.35	1940	-	-
20	.10	1.51	40.63	68.10	1.75	1888	-	-	.24	3.81	45.60	3.81	2.27	1940	-	-
21	.10	1.61	40.73	68.20	1.48	1901	-	-	.25	4.06	45.85	4.06	3.79	2017	-	-
22	.10	1.71	40.83	68.30	2.10	1892	-	-	.25	4.31	46.10	4.31	2.45	1931	-	-
23	.11	1.82	40.94	68.41	1.98	2014	-	-	.26	4.57	46.36	4.57	1.48	1900	-	-
24	.10	1.92	41.04	68.51	1.24	1924	-	-	.26	4.83	46.62	4.83	2.00	1934	-	-
25	.12	2.04	41.16	68.63	1.02	1905	-	-	.26	5.09	46.88	5.09	2.72	1934	-	-
26	.12	2.16	41.28	68.75	2.01	2014	-	-	.27	5.36	47.15	5.36	2.41	1994	T	1971
27	.12	2.28	41.40	68.87	1.47	1927	-	-	.26	5.62	47.41	5.62	1.85	1960	T	1989
28	.12	2.40	41.52	68.99	3.56	2013	-	-	.27	5.89	47.68	5.89	3.52	1982	T	1979
29	.14	2.54	41.66	69.13	2.41	2013	-	-	.28	6.17	47.96	6.17	1.38	1975	T	1994
30	.13	2.67	41.79	69.26	2.70	1887	-	-	.28	6.45	48.24	6.45	2.53	1896	T	1955
31									.29	6.74	48.53	6.74	3.45	1942	T	1992
	September				Rain		Snow		October				Rain		Snow	
	Month: Normal Total ¹				2.67"		0"		Month: Normal Total ¹				6.74"		0"	
	Month: Extreme Most				10.69	2013	--	--	Month: Extreme Most				17.79	1950	Tr	1994 ²
	Month: Extreme Least				0.00	1909	--	--	Month: Extreme Least				0.23	1895	--	--
	Calendar day: most Rain				3.56" on 28 Sep 2013				Calendar day: most Rain				4.17" on 3 Oct 1927			
	Calendar day: most Snow				no snow observed				Calendar day: most Snow				Trace on 29 Oct 1994 ²			
	Any 24-hrs: most Rain				3.84" 27-28 Sep 2013				Any 24-hrs: most Rain				4.17" on 3 Oct 1927			
	Any 24-hrs: most Snow				---				Any 24-hrs: most Snow				Trace on 29 Oct 1994 ²			

¹ Normals listed are climatic normal (1991-2020). For snow, averages use 1953-1995 data (period of full snow observations).

Daily and cumulative averages based on a daily value that is computed by normalizing monthly total across the days of a month.

² Last year of multiple occurrences listed. Period of Record for daily data: rain 1887-2023, snow 1887-1995.

Astoria's Daily Precipitation Normals¹ & Records

DY= Daily, MO= Month to Date, YR= Year to date, WY= Water Year to date. Precipitation in units of inches

D A Y	November 1887-2023								December 1887-2023							
	Daily Normals & Cumulative Totals				Daily Records ²				Normals ¹ & Cumulative Totals				Daily Records ²			
					Rain		Snow						Rain		Snow	
	DY	MO	YR	WY	Amt	Year	Amt	Year	DY	MO	YR	WY	Amt	Year	Amt	Year
1	.30	.30	48.83	7.04	2.31	2010	-	-	.35	.35	59.93	18.14	2.66	1932	0.4	1985
2	.31	.61	49.14	7.35	2.28	1933	T	1994	.36	.71	60.29	18.50	3.49	1932	T	1994
3	.31	.92	49.45	7.66	2.65	1893	T	1984	.36	1.07	60.65	18.86	4.00	1943	1.8	1970
4	.32	1.24	49.77	7.98	4.07	2022	T	1973	.34	1.41	60.99	19.20	2.30	1989	T	1994
5	.33	1.57	50.10	8.31	2.80	2006	-	-	.35	1.76	61.34	19.55	2.52	2023	0.8	1972
6	.34	1.90	50.43	8.64	3.06	1937	T	1983	.36	2.12	61.70	19.91	3.77	1933	1.3	1956
7	.35	2.24	50.77	8.98	3.33	2006	T	1983	.35	2.47	62.05	20.26	4.31	1896	0.9	1956
8	.35	2.59	51.12	9.33	2.53	1973	T	1988	.35	2.82	62.40	20.61	3.01	2015	0.6	1971
9	.37	2.94	51.47	9.68	2.10	1891	-	-	.34	3.16	62.74	20.95	4.33	1933	T	1992
10	.37	3.31	51.84	10.05	2.23	1984	T	1994	.34	3.50	63.08	21.29	2.13	1896	0.2	1979
11	.37	3.68	52.21	10.42	2.61	2021	T	1955	.34	3.84	63.42	21.63	3.03	1946	4.1	1972
12	.37	4.05	52.58	10.79	3.69	2008	T	1973	.33	4.17	63.75	21.96	2.52	1888	0.2	1972
13	.39	4.44	52.97	11.18	2.66	1932	T	1994	.35	4.52	64.10	22.31	2.00	1908	0.3	1972
14	.38	4.82	53.35	11.56	2.78	2015	T	1987	.34	4.86	64.44	22.65	2.49	1939	T	1972
15	.38	5.20	53.73	11.94	1.73	1906	0.5	1896	.33	5.19	64.47	22.98	2.10	1906	0.2	1926
16	.39	5.59	54.12	12.33	2.71	2009	2.5	1896	.33	5.52	65.10	23.31	2.14	2001	1.0	1924
17	.39	5.98	54.51	12.72	3.41	1959	0.2	1975	.33	5.85	65.43	23.64	3.22	1933	0.1	1978
18	.40	6.38	54.91	13.12	2.75	1911	0.3	1979	.33	6.18	65.76	23.97	2.59	1933	1.4	1990
19	.40	6.78	55.31	13.52	2.51	1962	0.1	1978	.33	6.51	66.09	24.30	2.71	2012	1.5	1964
20	.39	7.17	55.70	13.91	5.35	1904	0.5	1896	.34	6.85	66.43	24.64	3.42	2019	1.5	1924
21	.38	7.55	56.08	14.29	2.32	1961	T	1986	.34	7.19	66.77	24.98	4.19	1915	7.0	1892
22	.38	7.93	56.46	14.67	4.10	1901	0.1	1977	.35	7.54	67.12	25.33	2.60	1936	0.3	1926
23	.39	8.32	56.85	15.06	2.90	1942	T	1993	.35	7.89	67.47	25.68	2.53	2005	0.3	1937
24	.38	8.70	57.23	15.44	5.00	1927	T	1988	.36	8.25	67.83	26.04	3.42	1902	T	1990
25	.39	9.09	57.62	15.83	5.56	1998	0.3	1985	.35	8.60	68.18	26.39	3.30	1898	3.2	1916
26	.40	9.49	58.02	16.23	2.31	1955	T	1989	.35	8.95	68.53	26.74	3.59	1974	T	1981
27	.39	9.88	58.41	16.62	3.68	1995	T	1994	.35	9.30	68.88	27.09	2.91	1937	3.5	1964
28	.39	10.27	58.80	17.01	2.04	2001	0.5	1975	.35	9.65	69.23	27.44	2.73	1945	4.7	1964
29	.39	10.66	59.19	17.40	2.58	1897	0.4	1975	.35	10.00	69.58	27.79	3.15	1912	5.7	1964
30	.39	11.05	59.58	17.79	3.10	1975	4.3	1985	.34	10.34	69.92	28.13	2.31	2005	2.6	1964
31									.34	10.68	70.26	28.47	2.60	1968	3.4	1965
	November				Rain		Snow		December				Rain		Snow	
	Month: Normal Total ¹				11.05"		0.2"		Month: Normal Total ¹				10.68"		1.1"	
	Month: Extreme Most				22.54	1937	4.6	1985	Month: Extreme Most				36.07	1933	19.0	1964
	Month: Extreme Least				1.45	1976	--	--	Month: Extreme Least				2.67	1985	--	--
	Calendar day: most Rain				5.56" on 25 Nov 1998				Calendar day: most Rain				4.33" on 9 Dec 1933			
	Calendar day: most Snow				4.3" on 30 Nov 1985				Calendar day: most Snow				7.0" on 6 th Dec 2013			
	Any 24-hrs: most Rain				5.56" on 25 Nov 1998				Any 24-hrs: most Rain				4.33" on 9 Dec 1933			
	Any 24-hrs: most Snow				4.3" on 30 Nov 1985				Any 24-hrs: most Snow				7.0" on 21 Dec 1892			

¹ Normals listed are climatic normal (1991-2020). For snow, averages use 1953-1995 data (period of full snow observations).

Daily and cumulative averages based on a daily value that is computed by normalizing monthly total across the days of a month.

² Last year of multiple occurrences listed. Period of Record for daily data: rain 1887-2023, snow 1887-1995.

ASTORIA: Monthly & Annual Precipitation

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1850	M	M	M	M	M	M	M	0.00	1.80	6.70	13.20	6.20	M
1851	27.00	10.95	6.10	4.38	5.95	2.85	0.00	2.30	1.94	M	M	M	M
1852	M	M	M	M	M	M	M	M	M	M	M	M	M
1853	M	M	M	M	M	M	M	M	4.00	M	13.25	7.93	M
1854	5.60	5.15	9.00	9.32	2.17	5.23	0.03	3.08	0.82	4.57	4.09	10.16	59.22
1855	21.52	6.38	7.58	6.77	4.93	1.43	0.94	0.29	4.95	3.29	10.19	10.93	79.20
1856	5.63	3.28	3.84	6.42	3.88	5.12	3.60	0.38	1.84	6.91	7.53	10.74	59.17
1857	16.07	13.05	11.63	0.60	2.04	2.47	0.42	0.28	1.99	2.55	5.94	22.78	79.82
1858	8.58	4.60	6.83	5.28	2.49	1.38	2.30	3.40	3.12	4.88	8.06	12.44	63.36
1859	10.82	12.02	21.32	2.65	3.37	2.10	0.51	1.32	8.45	5.46	7.97	6.16	82.15
1860	13.56	6.05	5.88	5.69	5.04	1.40	1.35	0.78	2.54	7.02	12.44	8.90	70.65
1861	9.70	13.74	7.63	7.92	6.07	6.11	0.19	1.82	2.31	5.99	15.26	16.19	92.93
1862	7.60	5.17	17.41	4.06	2.55	1.36	2.78	1.50	2.21	3.23	2.44	10.98	61.29
1863	18.88	15.53	6.78	4.05	3.64	2.77	2.18	0.59	8.49	6.35	8.12	16.75	94.13
1864	11.64	7.52	13.65	3.12	1.22	3.85	0.87	0.45	4.79	2.16	12.16	14.27	75.70
1865	12.13	6.62	13.25	4.66	3.17	2.88	1.19	2.03	7.64	2.24	16.20	13.21	85.22
1866	16.16	7.33	11.83	7.31	4.52	5.74	0.94	2.17	1.24	9.93	17.73	15.20	100.10
1867	17.52	14.13	2.56	5.70	1.26	1.87	4.27	0.18	1.91	8.21	8.91	24.73	91.25
1868	3.58	4.94	9.06	6.08	4.59	2.76	0.52	0.02	0.33	3.53	8.25	24.08	67.74
1869	11.78	3.18	5.13	6.01	1.33	0.06	0.30	5.87	5.90	1.32	19.12	9.61	69.61
1870	14.89	6.89	8.98	5.62	3.47	3.73	0.73	1.95	2.70	1.81	10.31	10.11	71.19
1871	22.16	10.88	17.11	4.17	6.91	1.03	1.36	0.61	2.36	3.85	14.08	15.90	100.42
1872	8.26	17.57	9.59	7.62	2.54	2.11	0.97	0.61	1.24	4.77	7.10	11.32	73.70
1873	16.06	9.20	18.55	4.48	1.79	4.77	0.95	2.18	0.73	3.43	4.69	7.58	74.41
1874	17.66	12.63	6.69	5.67	3.73	5.06	0.98	2.21	3.00	1.53	13.01	7.82	79.99
1875	8.58	4.40	16.56	4.65	6.83	2.38	0.28	1.16	1.32	13.38	16.70	19.49	95.73
1876	11.91	12.19	12.55	8.70	6.29	4.63	3.55	1.78	1.65	6.50	12.00	3.00	84.75
1877	M	M	M	M	M	M	M	M	M	M	M	M	M
1878	M	M	M	M	M	M	M	M	M	M	M	M	M
1879	M	M	M	M	M	M	M	M	M	M	M	M	M
1880	M	M	M	M	M	M	M	M	M	M	M	M	M
1881	M	M	M	M	M	M	M	M	M	M	M	M	M
1882	M	M	M	M	M	M	M	M	M	M	M	M	M
1883	M	M	M	M	M	M	M	M	M	M	M	M	M
1884	6.75	7.13	2.56	4.59	1.36	2.04	1.29	1.83	6.22	6.43	2.63	6.55	49.38
1885	6.78	10.59	1.51	1.03	3.43	2.78	0.04	0.02	4.24	3.44	12.45	9.85	56.16
1886	13.24	5.69	7.23	4.99	3.65	2.05	2.58	0.56	4.33	5.57	4.84	16.86	71.59
1887	18.24	8.51	16.11	6.83	7.33	0.63	0.72	0.49	4.82	3.66	8.11	16.64	92.09
1888	13.84	4.12	6.64	4.04	0.79	7.23	1.25	0.74	2.32	7.45	10.45	9.86	68.73
1889	10.67	2.84	5.18	5.59	3.06	2.75	0.10	3.78	5.59	9.64	7.61	8.22	65.03
1890	12.64	11.48	7.56	2.62	1.14	3.23	1.84	1.56	0.13	5.61	1.87	8.81	58.49
1891	6.01	8.01	5.40	5.11	1.80	4.72	1.06	1.46	6.14	7.06	15.18	15.79	77.74
1892	5.46	6.69	3.47	10.27	3.84	1.42	2.00	1.29	4.24	4.30	16.78	10.25	70.01
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual

ASTORIA: Monthly & Annual Precipitation

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1893	3.00	12.42	8.55	13.39	5.44	5.11	0.50	0.63	5.03	7.65	17.41	12.55	91.68
1894	15.54	11.87	14.04	7.48	2.10	3.78	0.69	0.07	5.75	12.19	8.66	6.67	88.84
1895	14.84	3.21	6.63	6.30	8.52	1.15	1.15	0.09	2.65	0.23	8.44	17.54	70.75
1896	12.54	10.48	5.72	9.19	6.96	3.34	0.01	1.81	2.62	6.44	16.56	19.14	94.81
1897	9.84	12.89	11.88	3.14	2.38	4.49	1.66	0.87	3.43	3.07	15.36	16.05	85.06
1898	7.51	14.61	4.21	4.02	3.30	2.66	0.75	0.30	5.18	4.06	10.93	11.19	68.72
1899	18.84	12.52	4.21	8.84	5.57	2.60	0.52	4.85	2.10	10.28	17.77	13.30	101.40
1900	10.35	10.73	9.28	3.45	5.68	6.60	0.95	1.87	2.78	8.50	9.13	16.25	85.57
1901	10.84	9.49	8.59	7.84	3.23	3.14	1.12	0.06	4.71	4.38	14.56	9.91	77.87
1902	7.23	16.33	10.41	5.34	4.09	2.80	2.89	0.45	2.28	3.50	15.87	15.29	86.48
1903	14.34	3.18	9.48	6.16	5.44	3.73	0.98	0.96	1.81	7.25	12.45	8.85	74.63
1904	13.30	13.80	13.82	5.22	1.32	2.19	1.99	0.09	0.92	3.57	17.43	15.02	88.67
1905	9.22	6.87	10.89	1.53	6.37	2.52	0.34	1.22	7.38	8.60	5.54	12.15	72.63
1906	8.91	9.79	3.07	2.94	3.26	4.98	0.22	0.28	8.66	8.67	16.98	14.97	82.73
1907	13.54	13.65	7.83	4.37	2.51	2.67	0.74	0.80	2.92	1.08	10.88	12.93	73.92
1908	8.60	6.80	6.90	3.89	4.36	2.72	0.36	1.22	0.03	4.92	6.08	10.73	56.61
1909	12.88	16.84	4.19	0.21	4.91	1.10	2.41	0.68	0.00	6.99	M	M	50.21
1910	12.41	12.72	8.34	5.05	2.87	2.77	0.04	0.58	3.39	8.97	15.85	10.90	83.89
1911	10.68	4.33	2.89	3.22	6.88	1.25	0.40	0.72	2.81	3.06	11.91	9.99	58.14
1912	20.90	9.63	3.30	3.53	3.07	4.14	1.23	4.09	2.69	5.21	15.11	12.43	85.33
1913	15.16	2.98	5.74	4.84	3.17	5.33	2.37	0.41	5.98	5.27	12.00	7.96	71.21
1914	23.83	5.95	6.04	4.84	2.37	3.09	0.13	0.12	4.94	10.02	11.26	4.51	77.10
1915	11.20	6.97	5.70	4.64	4.96	2.04	2.36	0.06	1.39	7.20	14.72	17.99	79.23
1916	10.03	20.20	17.23	4.80	3.63	1.98	7.58	0.45	2.23	2.31	11.13	10.93	92.50
1917	9.63	5.76	10.61	10.73	2.01	4.98	0.47	0.02	4.37	1.25	4.52	M	54.35
1918	6.11	11.45	9.12	2.93	2.70	0.64	0.67	2.03	0.01	8.18	9.01	11.22	64.07
1919	19.36	11.29	10.81	5.52	3.87	1.72	0.31	0.46	3.06	3.52	10.14	10.61	80.67
1920	8.19	0.65	8.39	7.66	2.01	2.76	0.90	1.76	8.55	12.80	8.58	18.65	80.90
1921	18.03	14.53	8.88	8.95	2.52	5.08	0.30	1.26	3.72	7.02	15.95	7.45	93.69
1922	5.64	5.24	9.94	5.44	5.38	0.53	0.11	3.59	4.67	6.89	4.08	7.35	58.86
1923	13.94	3.66	4.97	4.19	3.88	1.47	1.99	0.97	1.69	2.82	4.65	11.17	55.40
1924	7.47	11.52	3.45	1.94	1.04	1.56	0.36	2.23	3.93	11.64	9.95	12.81	67.90
1925	12.51	7.98	4.32	4.37	1.81	3.82	0.30	2.07	1.60	1.53	8.71	13.89	62.91
1926	9.38	9.86	2.97	1.99	7.12	0.33	0.29	1.21	3.22	8.36	13.79	12.11	70.63
1927	14.46	13.80	6.39	4.30	5.05	1.78	0.66	2.82	6.06	10.98	17.27	7.40	90.97
1928	11.24	3.32	12.95	9.43	2.17	1.35	1.48	0.45	2.31	7.18	8.93	8.68	69.49
1929	5.89	3.29	8.79	7.23	2.42	4.43	0.69	0.67	0.81	2.60	2.08	13.72	52.62
1930	7.87	11.87	6.28	3.55	5.76	1.74	0.15	0.14	3.12	4.65	6.52	6.63	58.28
1931	11.84	6.96	16.08	4.61	1.95	7.70	0.21	0.15	5.36	8.54	10.77	14.30	88.47
1932	13.12	10.70	16.00	7.51	1.28	1.19	2.48	1.51	1.17	7.79	17.37	18.77	98.89
1933	18.45	8.89	13.81	2.90	8.10	2.74	0.50	1.05	6.19	7.85	7.48	36.07	114.03
1934	16.86	2.78	9.26	3.25	3.35	0.73	1.67	0.87	2.19	10.68	15.96	14.98	82.58
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual

ASTORIA: Monthly & Annual Precipitation

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1935	14.11	6.59	11.90	3.06	1.37	2.22	0.59	1.02	3.47	4.46	5.11	9.02	62.92
1936	16.03	12.26	7.33	1.53	6.64	4.30	1.93	1.31	0.82	1.68	1.93	13.98	69.74
1937	7.98	12.52	5.31	10.58	2.26	5.13	0.25	3.64	2.66	5.43	22.54	15.01	93.31
1938	7.92	7.61	10.08	6.56	2.38	0.53	0.81	0.52	1.34	6.91	9.93	10.13	64.72
1939	13.30	15.25	6.35	1.85	3.18	2.71	1.86	0.38	0.91	5.18	5.47	14.65	71.09
1940	5.97	15.66	9.53	6.83	2.22	0.37	1.64	0.68	2.67	11.10	7.57	8.16	72.40
1941	7.88	4.57	2.66	2.16	5.83	2.13	0.26	3.84	5.06	4.72	7.26	12.57	58.94
1942	6.53	6.24	5.54	3.54	2.91	3.91	1.76	0.33	0.50	7.60	18.89	14.37	72.12
1943	6.12	8.61	7.39	6.33	4.29	2.35	1.32	2.71	0.63	8.61	5.11	9.33	62.80
1944	7.91	6.49	5.79	7.39	2.75	2.11	0.44	1.36	3.32	5.11	9.41	6.46	58.54
1945	11.07	9.50	9.69	5.64	4.43	0.50	0.83	0.39	5.98	3.41	15.66	14.12	81.22
1946	12.13	15.63	8.13	6.68	1.78	6.83	2.64	0.54	2.95	9.79	12.54	11.63	91.27
1947	10.77	6.26	5.03	5.96	0.75	5.18	2.30	0.84	2.94	15.16	11.70	11.77	78.66
1948	9.01	12.15	8.30	6.65	6.76	1.35	1.21	3.26	6.19	5.56	12.94	17.81	91.19
1949	1.42	16.89	7.30	4.61	1.99	3.15	2.52	0.96	2.72	7.60	9.77	13.50	72.43
1950	14.53	17.84	15.05	7.80	1.51	1.52	2.10	2.17	2.52	17.79	13.04	17.47	113.34
1951	13.99	13.78	8.49	2.88	1.94	0.47	0.57	0.35	4.92	11.75	15.66	10.25	85.05
1952	11.47	6.64	9.68	3.40	3.31	2.48	0.58	2.24	1.06	2.34	2.67	14.34	60.21
1953	22.93	5.32	6.43	2.82	4.11	2.90	0.65	3.12	3.90	4.30	12.82	12.21	81.51
1954	18.94	9.56	4.17	4.70	1.66	5.48	1.77	2.24	2.01	4.44	10.10	10.22	75.29
1955	5.96	6.33	8.64	8.04	1.62	2.73	3.42	0.10	3.57	12.24	14.64	16.57	83.86
1956	17.09	9.32	13.47	1.33	1.43	4.64	0.18	2.15	3.76	11.37	2.57	9.02	76.33
1957	4.76	6.90	9.73	3.94	2.82	3.31	1.63	1.34	0.82	5.43	7.68	11.97	60.33
1958	9.61	10.96	4.62	7.03	1.03	2.80	0.09	0.52	1.94	7.33	14.14	12.17	72.24
1959	13.24	8.04	7.88	4.40	3.45	3.77	0.91	0.92	5.56	6.48	11.40	8.36	74.41
1960	10.09	8.47	7.40	5.92	6.60	1.87	0.01	1.84	1.69	7.33	13.91	6.12	71.25
1961	9.03	21.89	10.69	5.47	2.90	1.10	0.50	1.30	1.45	7.32	8.34	10.40	80.39
1962	6.53	5.61	5.18	7.44	2.88	1.87	0.34	2.49	3.50	7.40	14.21	6.78	64.23
1963	4.76	6.44	6.13	5.76	1.91	1.80	1.52	1.20	2.20	9.58	13.16	9.12	63.58
1964	18.50	4.06	7.41	3.59	2.27	2.70	2.59	2.21	2.73	2.61	11.15	13.67	73.49
1965	16.59	6.77	0.93	5.47	2.74	0.75	0.46	1.95	0.51	3.97	11.82	11.78	63.74
1966	8.61	5.53	8.79	2.90	2.18	2.13	0.54	1.01	2.18	5.83	10.00	14.07	63.77
1967	14.95	6.07	8.38	5.52	1.37	1.14	0.22	0.19	3.07	11.06	5.94	9.04	66.95
1968	9.57	9.57	10.42	4.22	3.91	4.81	1.23	5.22	4.60	8.03	11.96	13.85	87.39
1969	12.02	5.67	3.16	3.84	3.92	3.63	0.56	0.62	6.55	5.28	5.77	11.69	62.71
1970	14.46	5.29	4.28	7.74	1.92	1.19	0.31	0.08	3.65	5.80	9.86	15.93	70.51
1971	16.69	6.67	9.96	4.09	2.30	2.97	1.55	1.14	4.65	6.34	9.08	13.83	79.27
1972	10.62	8.58	10.04	6.82	1.22	0.92	2.01	0.37	4.72	1.96	6.90	13.28	67.44
1973	5.72	2.60	5.71	2.38	3.16	4.26	0.07	0.46	4.19	5.92	14.93	15.75	65.15
1974	12.47	8.38	10.73	4.88	4.37	2.33	4.20	0.29	0.67	1.85	8.95	13.84	72.96
1975	15.21	8.03	5.66	3.90	2.41	1.99	0.22	2.82	0.04	12.56	12.28	15.66	80.78
1976	11.67	7.86	7.17	3.55	2.20	1.27	2.46	2.55	1.58	2.96	1.45	4.20	48.92
1977	3.20	5.22	9.74	1.65	6.00	1.36	0.44	3.85	5.44	4.38	12.37	14.34	67.99
1978	8.66	5.43	4.40	6.35	4.75	3.07	0.90	2.61	6.93	1.01	8.43	4.99	57.53
1979	3.83	11.76	4.52	4.38	4.19	1.82	0.92	0.81	4.35	8.46	7.87	13.18	66.09
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual

ASTORIA: Monthly & Annual Precipitation

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1980	7.21	9.60	6.31	4.85	1.45	1.57	0.64	1.24	2.51	2.79	12.02	12.44	62.63
1981	2.63	8.69	5.80	7.30	2.97	5.47	1.06	0.62	2.77	8.67	10.66	11.80	68.44
1982	13.98	10.87	7.19	6.52	0.37	1.22	0.75	0.63	3.72	8.31	9.62	12.14	75.32
1983	13.52	8.66	8.84	4.26	3.59	4.53	4.39	1.14	1.83	1.87	16.75	9.44	78.82
1984	6.60	8.34	5.90	5.02	5.34	3.90	0.05	0.52	3.16	8.10	15.19	6.51	68.63
1985	0.69	4.09	7.00	2.95	1.90	3.09	0.78	1.11	3.23	8.11	5.96	2.67	41.58
1986	11.19	8.93	6.11	3.58	3.30	0.94	1.69	0.14	3.62	5.45	11.42	7.34	63.71
1987	10.38	5.08	8.52	3.02	3.97	0.65	1.10	0.16	0.95	0.52	4.33	8.85	47.53
1988	6.57	3.60	7.86	3.99	4.09	3.50	0.96	0.88	1.23	2.14	13.06	7.32	55.20
1989	8.20	6.61	10.09	2.27	3.01	2.58	1.64	0.84	0.50	5.30	6.73	7.40	55.17
1990	16.09	11.83	5.15	4.44	4.00	3.47	0.54	1.57	0.67	8.44	11.28	5.11	72.59
1991	6.76	8.57	5.65	9.47	2.68	1.86	0.33	2.31	0.07	2.44	10.53	6.60	57.27
1992	9.34	5.69	1.19	7.49	0.52	0.55	0.24	0.77	2.66	4.10	10.11	5.99	48.65
1993	6.27	1.35	6.93	9.01	4.74	3.70	1.81	0.57	0.12	2.25	6.68	9.63	53.06
1994	6.83	11.34	6.48	4.31	2.52	2.27	0.81	1.49	2.84	9.52	12.56	14.84	75.81
1995	10.59	5.94	8.76	5.80	2.14	2.63	0.64	1.95	2.19	7.13	17.47	11.26	76.50
1996	9.07	14.52	4.70	10.07	3.96	1.38	1.92	0.71	3.34	11.14	11.51	20.38	92.70
1997	12.74	3.95	15.31	6.62	3.61	4.53	1.35	2.90	7.27	11.56	7.65	7.99	85.48
1998	16.20	10.52	10.23	2.49	3.75	1.67	0.33	0.25	0.66	6.86	19.60	16.59	89.15
1999	13.87	18.26	9.53	2.59	5.61	3.43	0.78	1.04	0.21	3.54	15.87	12.85	87.58
2000	11.67	5.05	5.46	3.83	4.14	4.17	0.24	0.61	2.15	4.62	3.86	5.81	51.61
2001	4.60	3.43	5.23	5.59	3.12	2.83	0.85	3.67	0.89	4.21	14.21	11.83	60.46
2002	14.65	4.95	6.72	5.02	1.78	2.32	0.14	0.03	1.07	0.93	5.72	12.77	56.10
2003	12.07	4.75	13.45	5.79	2.18	0.87	0.34	0.10	1.91	6.20	9.75	9.80	67.21
2004	12.90	6.97	5.47	2.85	3.36	1.68	0.15	3.97	4.27	8.43	6.70	7.24	63.99
2005	5.78	3.30	7.64	8.32	5.46	1.67	2.26	0.25	1.22	8.89	10.53	14.36	69.68
2006	24.10	2.94	5.66	3.41	3.30	2.14	1.19	0.56	1.44	3.29	21.07	10.75	79.85
2007	7.62	10.78	8.85	3.00	1.63	2.48	2.81	0.84	1.78	7.34	5.07	12.19	64.39
2008	9.24	5.49	8.79	5.12	2.09	2.58	0.46	2.99	0.48	4.16	11.49	9.95	62.84
2009	10.71	3.65	7.70	4.14	5.83	0.39	0.61	0.92	3.26	7.92	16.71	5.76	67.60
2010	11.19	7.41	7.15	7.67	4.45	3.88	0.60	1.12	4.56	7.96	12.45	11.37	79.81
2011	12.20	7.42	11.85	8.01	4.04	1.66	1.39	0.08	3.02	3.97	10.40	4.85	68.89
2012	10.80	6.80	14.13	7.40	4.94	4.82	0.50	0.06	0.22	13.15	13.84	14.63	91.29
2013	9.10	6.26	3.92	6.84	6.40	2.45	0.03	1.35	10.69	2.05	5.11	5.00	59.20
2014	6.36	7.40	10.86	8.08	5.98	1.85	1.08	0.70	4.94	8.61	6.44	10.57	72.87
2015	9.19	6.29	6.58	3.31	1.29	0.73	0.39	1.34	2.13	7.20	14.80	20.53	73.78
2016	13.75	8.53	12.10	1.99	0.86	2.00	1.12	0.50	2.13	16.32	17.20	10.35	86.85
2017	5.81	12.07	14.45	8.91	5.89	2.44	0.10	0.39	3.15	8.94	14.16	7.69	84.00
2018	11.36	7.25	4.64	9.47	0.44	2.49	0.09	0.54	2.40	8.05	7.77	9.91	64.41
2019	4.93	7.66	2.46	5.30	1.66	1.08	1.62	0.95	6.14	6.96	2.20	10.55	51.51

ASTORIA: Monthly & Annual Precipitation

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2020	18.14	6.90	5.04	1.97	3.55	2.38	0.47	0.50	2.92	4.52	9.96	8.19	64.54
2021	15.95	12.00	4.98	1.37	1.16	1.92	0.22	0.49	5.00	7.36	14.02	12.55	77.02
2022	13.47	5.55	6.73	6.75	6.24	3.83	0.32	0.25	0.74	4.29	12.39	11.54	72.10
2023	6.67	4.73	7.99	8.42	1.17	0.73	0.35	0.81	3.36	4.30	10.90	12.80	62.23
2024	15.16												
2025													
2026													
2027													
2028													
2029													
2030													
2031													
2032													
2033													
2034													
norm	10.59	7.18	7.90	5.80	3.40	2.30	0.83	1.12	2.67	6.74	11.05	10.68	70.26

Progression of Astoria's 30-Year Climatic Normals for Precipitation

period	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
1890-1920	11.68	9.57	7.86	5.56	4.03	3.02	1.23	0.97	3.51	5.98	11.74	11.65	76.82
1911-1940	12.24	8.78	8.48	5.09	3.49	2.59	1.16	1.22	3.13	6.40	10.15	12.02	74.75
1921-1950	9.11	7.72	7.25	4.18	3.37	2.32	0.74	1.18	3.08	6.16	7.54	9.84	62.49
1931-1960	11.71	9.89	7.25	5.18	3.20	3.02	1.27	1.49	3.13	7.78	11.20	13.65	80.44
1941-1970	9.73	7.82	8.92	4.61	2.72	2.45	0.96	1.46	2.83	6.80	9.78	10.57	66.35
1951-1980	11.29	7.81	6.62	4.60	2.84	2.43	1.04	1.56	3.11	6.21	9.88	11.57	69.60
1961-1990	10.00	7.59	7.26	4.60	3.02	2.40	1.15	1.33	2.91	5.73	10.05	10.55	66.40
1971-2000	9.62	7.87	7.07	4.93	3.28	2.57	1.16	1.21	2.61	5.61	10.50	10.40	67.13
1981-2010	10.20	7.19	7.37	5.20	3.32	2.55	1.03	1.16	2.14	5.98	11.15	9.89	67.26
1991-2020	10.59	7.18	7.90	5.80	3.40	2.30	0.83	1.12	2.67	6.74	11.05	10.68	70.26
2001-2030													

Astoria's Water Year Data

Water Year encompasses the rainy season, and is from 1 October through 30 September

Water Year	Total	Water Year	Total	Water Year	Total	Water Year	Total
1849-50	M	1894-95	72.06	1939-40	70.87	1984-85	54.64
1850-51	87.57	1895-96	78.88	1940-41	61.22	1985-86	56.24
1851-52	M	1896-97	92.72	1941-42	55.81	1986-87	58.04
1852-53	M	1897-98	77.02	1942-43	80.61	1987-88	46.38
1853-54	M	1898-99	86.23	1943-44	60.61	1988-89	58.26
1854-55	73.61	1899-1900	93.04	1944-45	69.01	1989-90	67.19
1855-56	58.40	1900-01	82.90	1945-46	90.50	1990-91	62.53
1856-57	73.73	1901-02	80.67	1946-47	73.99	1991-92	48.02
1857-58	69.25	1902-03	80.74	1947-48	93.51	1992-93	54.70
1858-59	87.94	1903-04	81.20	1948-49	77.87	1993-94	57.45
1859-60	61.88	1904-05	82.36	1949-50	95.91	1994-95	77.56
1860-61	83.85	1905-06	68.40	1950-51	95.69	1995-96	85.53
1861-62	82.08	1906-07	89.65	1951-52	78.52	1996-97	101.31
1862-63	79.56	1907-08	59.77	1952-53	71.53	1997-98	73.30
1863-64	78.33	1908-09	64.95	1953-54	79.86	1998-99	98.37
1864-65	82.16	1909-10	M	1954-55	65.17	1999-2000	69.58
1865-66	88.89	1910-11	68.90	1955-56	96.82	2000-01	44.50
1866-67	92.26	1911-12	77.54	1956-57	58.21	2001-02	66.93
1867-68	73.73	1912-13	78.73	1957-58	63.68	2002-03	60.88
1868-69	75.42	1913-14	76.54	1958-59	81.81	2003-04	67.37
1869-70	79.01	1914-15	65.11	1959-60	70.13	2004-05	58.27
1870-71	88.82	1915-16	108.04	1960-61	81.69	2005-06	78.52
1871-72	84.34	1916-17	72.95	1961-62	61.90	2006-07	74.90
1872-73	81.90	1917-18	M	1962-63	60.11	2007-08	61.84
1873-74	73.33	1918-19	84.81	1963-64	77.92	2008-09	62.81
1874-75	68.52	1919-20	65.14	1964-65	63.60	2009-10	78.42
1875-76	112.82	1920-21	103.30	1965-66	61.44	2010-11	81.45
1876-77	M	1921-22	70.96	1966-67	70.81	2011-12	68.89
1877-78	M	1922-23	55.08	1967-68	79.59	2012-13	88.66
1878-79	M	1923-24	52.14	1968-69	73.81	2013-14	59.41
1879-80	M	1924-25	73.18	1969-70	61.66	2014-15	56.87
1880-81	M	1925-26	60.50	1970-71	81.61	2015-16	85.51
1881-82	M	1926-27	89.58	1971-72	74.55	2016-17	97.08
1882-83	M	1927-28	80.35	1972-73	50.69	2017-18	69.47
1883-84	M	1928-29	59.01	1973-74	84.92	2018-19	57.53
1884-85	46.03	1929-30	58.88	1974-75	64.92	2019-20	61.58
1885-86	70.06	1930-31	72.66	1975-76	80.81	2020-21	65.76
1886-87	90.95	1931-32	88.57	1976-77	45.51	2021-22	77.81
1887-88	69.38	1932-33	106.56	1977-78	74.19	2022-23	62.45
1888-89	67.32	1933-34	92.36	1978-79	51.01	2023-24	
1889-90	67.67	1934-35	85.95	1979-80	64.89	2024-25	
1890-91	56.00	1935-36	70.74	1980-81	64.56	2025-26	
1891-92	76.71	1936-37	67.92	1981-82	76.38	2026-27	
1892-93	85.40	1937-38	80.73	1982-83	80.83	2027-28	
1893-94	98.93	1938-39	72.76	1983-84	66.89	2028-29	

Water Year Normal (1991-2020)...

70.26 inches

Extremes...

Wettest

112.82" in 1875-76

Driest

44.50" in 2000-01

Astoria's Top 5 Driest and Wettest Months¹

January			
Wettest		Driest	
27.00	1851	0.69	1985
24.10	2006	1.42	1949
23.83	1914	2.63	1981
22.93	1953	3.00	1893
22.16	1871	3.20	1977
normal for month: 10.59"			

February			
Wettest		Driest	
21.89	1961	0.65	1920
20.20	1916	1.35	1993
18.26	1999	2.60	1973
17.84	1950	2.78	1934
17.57	1872	2.84	1889
normal for month: 7.18"			

March			
Wettest		Driest	
21.32	1859	0.93	1965
18.55	1873	1.19	1992
17.41	1862	1.51	1885
17.23	1916	2.46	2019
17.11	1871	2.56	1884
normal for month: 7.90"			

April			
Wettest		Driest	
13.39	1893	0.21	1909
10.73	1917	0.60	1857
10.58	1937	1.03	1885
10.27	1892	1.33	1956
10.07	1996	1.37	2021
normal for month: 5.80"			

May			
Wettest		Driest	
8.52	1895	0.37	1982
8.10	1933	0.44	2018
7.33	1887	0.52	1992
7.12	1926	0.75	1947
6.96	1896	0.79	1888
normal for month: 3.40"			

June			
Wettest		Driest	
7.70	1931	0.06	1869
7.23	1888	0.33	1926
6.83	1946	0.37	1940
6.60	1900	0.39	2009
6.11	1861	0.47	1951
normal for month: 2.30"			

July			
Wettest		Driest	
7.58	1916	0.00	1851
4.39	1983	0.01	1960
4.27	1867	0.01	1896
4.20	1974	0.03	2013
3.60	1856	0.03	1854
normal for month: 0.83"			

August			
Wettest		Driest	
5.87	1869	0.00	1850
5.22	1968	0.02	1917
4.85	1899	0.02	1885
4.09	1912	0.02	1868
3.97	2004	0.03	2002
normal for month: 1.12"			

September			
Wettest		Driest	
10.69	2013	0.01	1918
8.66	1906	0.03	1908
8.55	1920	0.04	1975
8.49	1863	0.07	1991
8.45	1859	0.12	1993
normal for month: 2.67"			

October			
Wettest		Driest	
17.79	1950	0.23	1895
16.32	2016	0.52	1987
15.16	1947	0.93	2002
13.38	1875	1.01	1978
13.15	2012	1.08	1907
normal for month: 6.74"			

November			
Wettest		Driest	
22.54	1937	1.45	1976
21.07	2006	1.87	1890
19.60	1998	1.93	1936
19.12	1869	2.08	1929
18.89	1942	2.20	2019
normal for month: 11.05"			

December			
Wettest		Driest	
36.07	1933	2.67	1985
27.18	1917	3.00	1876
24.73	1867	4.20	1976
24.08	1868	4.51	1914
22.78	1857	4.85	2011
normal for month: 10.68"			

¹Period of Record: 1850 through 2023. Normals are 1991-2020 normals.

Astoria's Record Top 5 Driest and Wettest Years/Seasons

1887 through 2023 (unless noted otherwise), with 1991-2020 Normals

Calendar Year 1 January to 31 December			
Wettest		Driest	
114.03	1933	41.58	1985
113.34	1950	47.53	1987
101.40	1899	48.65	1985
100.42	1871	48.92	1976
100.10	1866	49.38	1884
normal: 70.26"			
Period of Record: 1850-2023			

Water Year 1 October to 30 September			
Wettest		Driest	
112.82	1875-76	44.50	2000-01
108.04	1915-16	45.51	1976-77
106.56	1932-33	46.03	1884-85
103.30	1920-21	46.38	1987-88
101.31	1996-97	48.02	1991-92
normal: 70.26"			
Period of Record: 1850-2023			

Late Spring 1 May to 30 June			
Wettest		Driest	
12.28	1900	1.07	1992
10.94	1936	1.59	1982
10.84	1933	1.90	2023
10.55	1893	2.02	2015
10.30	1896	2.14	1972
normal: 5.70"			

Spring Season 21 March to 20 June			
Wettest		Driest	
28.49	1893	5.45	1909
21.54	1896	6.30	1924
20.89	1917	6.47	2016
20.50	2012	6.58	2021
20.44	1895	6.77	1966
normal: 13.70"			

Winter Season 21 December to 20 March			
Wettest		Driest	
51.09	1949-50	9.55	1984-85
50.39	1920-21	13.69	1987-88
48.91	1915-16	16.77	1991-92
45.76	1998-99	19.98	1919-20
43.68	1932-33	20.06	1980-81
normal: 26.17"			

Summer Season 21 June to 22 September			
Wettest		Driest	
12.47	1968	0.83	2022
12.14	1997	1.60	2000
10.93	1916	1.62	1998
10.86	1913	1.73	1930
10.28	1969	1.75	2023
normal: 4.11"			

Early Autumn 15 September to 31 October			
Wettest		Driest	
20.22	1950	0.75	1987
17.55	1997	1.44	1895
17.38	2016	1.66	2002
17.23	1920	1.68	1936
15.60	1951	1.85	1974
normal: 8.36"			

Rainy Season 1 October to 31 March			
Wettest		Driest	
87.37	1915-16	26.77	1976-77
85.08	1932-33	27.55	2000-01
84.71	1998-99	31.73	1987-88
84.56	1950-51	32.45	1917-18
83.33	1955-56	34.54	1978-79
normal: 57.69"			

Deep Summer 5 July to 5 September			
Wettest		Driest	
7.74	1916	0.08	2002
5.46	1968	0.10	2003
5.12	1899	0.15	1931
4.52	2001	0.21	1986
4.50	1912	0.21	1930
normal: 1.53"			

Autumn 22 September to 21 December			
Wettest		Driest	
45.99	1933	6.13	1976
43.64	1950	12.61	1936
41.67	2016	13.18	1987
41.36	1896	13.75	2000
41.28	1906	13.93	1935
normal: 26.24"			

Deep Rainy Season 15 November to 15 January			
Wettest		Driest	
58.90	1915-16	9.81	1976-77
57.77	1933-34	15.02	2000-01
55.54	1920-21	16.89	2013-14
52.32	1998-99	17.92	1984-85
46.46	1955-56	18.54	1956-57
normal: 31.87"			

Deep Winter 15 December to 15 February			
Wettest		Driest	
36.88	2005	4.66	1984
31.37	1920	6.01	1976
31.09	1933	6.78	1948
30.14	1952	7.01	1921
29.16	1915	7.55	1978
normal: 16.06"			

Astoria's Top 10 Wettest Calendar Days¹ of Each Month

Rank	January		February		March	
1	6.98"	22 Jan 1919	4.91"	2 Feb 1916	4.25"	1 Mar 1910
2	5.07	6 Jan 2022	4.41	23 Feb 1950	3.45	5 Mar 1932
3	4.93	3 Jan 1895	4.04	1 Feb 1916	3.23	31 Mar 1931
4	4.53	9 Jan 1990	3.71	8 Feb 1996	3.17	26 Mar 1929
5	3.96	7 Jan 2009	3.60	3 Feb 1907	3.09	4 Mar 1950
6	3.84	23 Jan 1982	3.27	1 Feb 1927	3.06	10 Mar 1903
7	3.52	21 Jan 2016	2.96	20 Feb 1932	3.01	15 Mar 1908
8	3.43	22 Jan 1935	2.89	28 Feb 2022	2.99	21 Mar 1948
9	3.33	21 Jan 1954	2.82	15 Feb 1939	2.61	26 Mar 2005
10	3.25	19 Jan 1950	2.80	15 Feb 1970	2.54	29 Mar 2012
Rank	April		May		June	
1	3.40"	20 Apr 1893	2.31"	23 May 2013	2.07"	1 Jun 1968
2	3.16	11 Apr 1899	2.02	5 May 1948	1.96	20 Jun 1900
3	2.73	4 Apr 1991	1.78	17 May 1901	1.72	19 Jun 1900
4	2.40	30 Apr 1940	1.74	31 May 1968	1.70	22 Jun 1897
5	2.39	16 Apr 1938	1.60	4 May 1979	1.62	25 Jun 1931
6	2.37	1 Apr 1901	1.60	19 May 1960	1.60	7 Jun 1988
7	2.28	14 Apr 1937	1.53	17 May 1911	1.52	13 Jun 1931
8	2.26	5 Apr 1901	1.50	25 May 1900	1.50	8 Jun 1933
9	2.24	19 Apr 1965	1.48	23 May 1973	1.48	28 Jun 2002
10	2.22	23 Apr 2014	1.47	4 May 1911	1.48	6 Jun 1985
Rank	July		August		September	
1	1.75"	8 Jul 1946	1.92"	22 Aug 2001	3.56"	28 Sep 2013
2	1.72	7 Jul 1976	1.89	31 Aug 1927	2.70	30 Sep 1887
3	1.57	6 Jul 1909	1.73	30 Aug 1922	2.67	16 Sep 1997
4	1.55	25 Jul 1916	1.64	2 Aug 1956	2.48	30 Sep 1889
5	1.25	13 Jul 1983	1.58	24 Aug 1953	2.41	29 Sep 2013
6	1.19	18 Jul 1996	1.50	23 Aug 1968	2.41	30 Sep 1953
7	1.12	15 Jul 1902	1.36	16 Aug 1912	2.27	13 Sep 1935
8	1.10	12 Jul 1983	1.34	18 Aug 1924	2.10	22 Sep 1892
9	1.10	27 Jul 1916	1.31	23 Aug 1977	2.01	26 Sep 2014
10	1.06	17 Jul 1974	1.27	8 Aug 1994	2.00	29 Sep 1951
Rank	October		November		December	
1	4.17"	3 Oct 1927	5.56"	25 Nov 1998	4.33"	9 Dec 1933
2	3.79	21 Oct 2017	5.35	20 Nov 1904	4.31	7 Dec 1896
3	3.52	28 Oct 1982	5.00	24 Nov 1927	4.19	21 Dec 1915
4	3.45	31 Oct 1942	4.10	22 Nov 1901	4.00	3 Dec 1943
5	3.22	13 Oct 2016	4.07	4 Nov 2022	3.77	6 Dec 1933
6	2.96	31 Oct 1994	3.69	12 Nov 2008	3.59	26 Dec 1974
7	2.94	18 Oct 1958	3.68	27 Nov 1995	3.49	9 Dec 1948
8	2.89	3 Oct 1910	3.54	24 Nov 2016	3.49	2 Dec 1932
9	2.80	8 Oct 1962	3.41	17 Nov 1959	3.42	20 Dec 2019
10	2.72	25 Oct 1934	3.33	7 Nov 2006	3.42	24 Dec 1902

¹Day is the calendar day, midnight to midnight. Period of record for daily rainfall: Apr 1887 through Jan 2024.

Astoria's Short-Term Duration Precipitation Records

	Most in 5 minutes		Most in 10 minutes		Most in 15 minutes		Most in 30 minutes	
	Rain	Date	Rain	Date	Rain	Date	Rain	Date
Jan	0.28"	1 Jan 1997	0.28"	9 Jan 2011 ¹	0.39"	17 Jan 2006	0.66"	17 Jan 2006
Feb	0.20	12 Feb 2011	0.32	12 Feb 2011	0.39	12 Feb 2011	0.57	13 Feb 1994
Mar	0.35	2 Mar 1993	0.41	2 Mar 1993	0.42	2 Mar 1993	0.48	10 Mar 2007
Apr	0.24	6 Apr 2019	0.36	6 Apr 2019	0.38	6 Apr 2019	0.41	6 Apr 2019
May	0.18	2 May 2009	0.27	3 May 2014	0.31	3 May 2014	0.38	3 May 2014 ¹
Jun	0.15	10 Jun 1983	0.19	9 Jun 2018	0.22	18 Jun 1995	0.29	26 Jun 2012
Jul	0.12	23 Jul 2014	0.19	23 Jul 2014	0.21	23 Jul 2014	0.23	23 Jul 2014
Aug	0.11	20 Aug 2008 ¹	0.15	20 Aug 2008 ¹	0.19	20 Aug 2008	0.26	29 Aug 2013 ¹
Sep	0.34	29 Sep 2013	0.59	29 Sep 2013	0.69	29 Sep 2013	0.71	29 Sep 2013
Oct	0.27	17 Oct 2019	0.36	17 Oct 2019 ¹	0.45	23 Oct 2014	0.58	3 Oct 2007
Nov	0.32	17 Nov 2012	0.40	25 Nov 1998	0.66	25 Nov 1998	1.09	25 Nov 1998
Dec	0.25	11 Dec 2021	0.33	11 Dec 2021	0.37	11 Dec 2021	0.50	11 Dec 2021
All-Time	0.35"	2 Mar 1993	0.59"	29 Sep 2013	0.69"	29 Sep 2013	1.09"	25 Nov 1998
	Most in 1 hour		Most in 2 hours		Most in 3 hours		Astoria <i>Airport Data</i> 1953-2023	
	Rain	Date	Rain	Date	Rain	Date		
Jan	0.97"	17 Jan 2006	1.10"	23 Jan 1982 ¹	1.54"	23 Jan 1982		
Feb	0.92	13 Feb 1994	1.22	13 Feb 1994	1.41	13 Feb 1994		
Mar	0.75	8 Mar 1986	0.96	10 Mar 2007	1.07	10 Mar 2007		
Apr	0.55	13 Apr 2002	0.91	13 Apr 2002	1.17	13 Apr 2002		
May	0.47	23 May 2013	0.74	23 May 2013	0.90	23 May 2013		
Jun	0.48	10 Jun 1983	0.61	7 Jun 1988	0.80	7 Jun 1988		
Jul	0.40	7 Jul 1976	0.71	7 Jul 1976	1.01	7 Jul 1976		
Aug	0.58	24 Aug 1953	0.90	24 Aug 1953	1.09	24 Aug 1953		
Sep	1.04	29 Sep 2013	1.19	29 Sep 2013	1.37	29 Sep 2013		
Oct	1.03	28 Oct 1982 ¹	1.54	8 Oct 1962	1.99	8 Oct 1962		
Nov	1.44	25 Nov 1998	1.84	25 Nov 1998	2.09	25 Nov 1998		
Dec	0.73	19 Dec 2012	1.08	21 Dec 1955	1.48	21 Dec 1955		
All-Time	1.44"	25 Nov 1998	1.84"	25 Nov 1998	2.09"	25 Nov 1998		

¹ Most recent date of multiple occurrences is listed.

	Greatest Rainfall in any 24-hour period				
	Rain	Date		Rain	Date
January	6.98"	22 Jan 1919	July	1.98"	16-17 Jul 1994
February	4.91"	2 Feb 1916	August	2.78"	21-22 Aug 2001
March	4.25"	1 Mar 1910	September	3.84"	27-28 Sep 2013
April	3.40"	20 Apr 1893	October	4.17"	3 Oct 1927
May	2.59"	23-24 May 2013	November	5.56"	25 Nov 1998
June	2.42"	1-2 Jun 1968	December	4.33"	9 Dec 1933
All-Time (1887 through 2023)			6.98"	22 Jan 1919	

Number of Days per Month/Year with Rainfall...

Period of Record: 1887 through 2023

	≥ 0.01 inch					≥ 0.10 inch				
	norm ¹	Most Days		Least Days		norm ¹	Most Days		Least Days	
<i>January</i>	22	31	2020+	6	1985	17	30	2020+	3	1985
<i>February</i>	19	28	1961	3	1920	14	28	1961	2	1920
<i>March</i>	22	29	2017	9	1965	16	25	2011+	3	1965
<i>April</i>	19	29	1893	4	1951	13	22	2017+	1	1909
<i>May</i>	16	26	2000	5	1992+	9	17	1960	1	1982
<i>June</i>	14	22	1997+	2	1948+	7	16	1946	1	2009+
<i>July</i>	8	21	1915	1	1985+	2	9	1955	0	2018+
<i>August</i>	8	15	1968+	1	1917+	3	14	1968	0	2012+
<i>September</i>	10	22	1941	0	1909	6	15	1978	0	1999+
<i>October</i>	17	29	2016	2	1987	12	21	2016+	0	1895
<i>November</i>	21	30	1998	7	1976	17	26	2021+	4	1929
<i>December</i>	22	31	1933	8	1985	17	27	1933	7	1985+
Year	196	229	1893	132	1907	131	167	1899	88	1908
Water Year		229	1963-64	138	1907-08		174	1996-97	99	1976-77

	≥ 0.50 inch					≥ 1.00 inch				
	norm ¹	Most Days		Least Days		norm ¹	Most Days		Least Days	
<i>January</i>	8	18	1953	0	1985+	3	9	1953+	0	2023+
<i>February</i>	5	17	1961	0	1993	2	8	1999+	0	2023+
<i>March</i>	5	14	1916	0	2019+	2	8	1916	0	2023+
<i>April</i>	4	9	1917	0	2016+	1	4	1937	0	2021+
<i>May</i>	2	7	1896+	0	2021+	0	3	1895	0	2023+
<i>June</i>	1	6	1937+	0	2023+	0	3	1931	0	2023+
<i>July</i>	0	6	1916	0	2023+	0	5	1916	0	2023+
<i>August</i>	1	4	1941+	0	2023+	0	2	2001+	0	2023+
<i>September</i>	2	9	1906	0	2012+	1	4	1920+	0	2023+
<i>October</i>	5	14	1950	0	1987+	2	8	1950	0	2023+
<i>November</i>	8	16	1937	1	2019+	3	8	2016+	0	2019+
<i>December</i>	7	16	1933	2	1992+	3	12	1933	0	2000+
Year	47	85	1950	25	1985	16	38	1950	6	2000
Water Year		77	1932-33	26	2000-01		35	1920-21	5	2000-01+

¹Normal are the 1991-2020 normals. Normals for the year are not the sum total of the months, but based on actual year's totals.

+ last year of multiple occurrences listed.

Astoria's Streaks of CONSECUTIVE Rainy Days¹

≥0.01	Avg¹	Record Consecutive Days		
		days	year & dates occurred	
January	5	31	2020 ²	1 st – 31 st
February	5	28	1961	1 st – 28 th
March	4	27	1902	1 st – 27 th
April	3	23	1955	7 th – 29 th
May	3	15	1998 ²	11 th – 25 th
June	3	13	1925	2 nd – 14 th
July	2	8	1955 ²	24 th – 31 st
August	2	7	2009 ²	7 th – 13 th
September	2	14	1958	12 th – 25 th
October	3	23	1956	9 th – 31 st
November	5	30	1998	1 st – 30 th
December	5	31	1933	1 st – 31 st
All Time		49	1961	28 Jan-18 Mar
≥0.10	Avg¹	Record Consecutive Days		
		days	year & dates occurred	
January	3	26	1953	6 th – 31 st
February	3	28	1961	1 st – 28 th
March	3	14	1945	7 th – 20 th
April	2	11	2017 ¹	4 th – 14 th
May	2	10	1945	9 th – 18 th
June	2	9	1969	21 st – 29 th
July	1	6	1972	8 th – 13 th
August	2	7	1968 ¹	22 nd – 28 th
September	2	9	1969	16 th – 24 th
October	2	14	1900	18 th – 31 st
November	3	16	2021 ¹	1 st – 16 th
December	3	23	2015	1 st – 23 rd
All Time		23	2015	1 to 23 Dec
≥0.25	Avg¹	Record Consecutive Days		
		days	year & dates occurred	
January	3	12	1904	6 th – 17 th
February	2	13	1961	9 th – 21 st
March	2	11	2012	10 th – 20 th
April	2	7	2018 ²	10 th – 16 th
May	2	7	1887	1 st – 7 th
June	1	5	1894	7 th – 11 th
July	1	5	2007	18 th – 22 nd
August	1	4	1952 ²	22 nd – 25 th
September	2	6	1972 ²	18 th – 23 rd
October	2	9	1924 ²	23 rd – 31 st
November	2	13	1921	18 th – 30 th
December	2	23	2015	1 st – 23 rd
All Time		23	2015	1 to 23 Dec

Streaks with Rainfall of ≥ Trace

1. 50 days 1998 27 Oct – 15 Dec
2. 49 days 1961 28 Jan – 17 Mar
3. 45 days 2019-20 26 Dec – 8 Feb
4. 43 days 1974-75 8 Dec – 19 Jan
5. 43 days 1960 5 Jan – 16 Feb
6. 42 days 1966 9 Nov – 20 Dec
7. 40 days 1913-14 30 Dec – 7 Feb

Streaks with Rainfall of ≥ 0.01 inch

1. 49 days 1961 28 Jan – 18 Mar
2. 40 days 1966 11 Nov – 20 Dec
3. 39 days 2019-20 26 Dec – 2 Feb
4. 39 days 1998 31 Oct – 8 Dec

Streaks with Rainfall of ≥ 0.10 inch

1. 35 days 1961 28 Jan – 3 Mar
2. 26 days 1953 6 Jan – 30 Jan
3. 24 days 1948 22 Nov – 15 Dec
4. 23 days 2015² 1 Dec – 23 Dec

Streaks with Rainfall of ≥ 0.25 inch

1. 23 days 2015 1 Dec – 23 Dec
2. 19 days 1924 23 Oct – 10 Nov
3. 16 days 1990 27 Jan – 11 Feb
3. 16 days 1890 24 Jan – 8 Feb
4. 14 days 1999 4 Dec – 17 Dec
4. 14 days 1921² 18 Nov – 1 Dec

Streaks with Rainfall of ≥ 0.50 inch

1. 12 days 1890 26 Jan – 5 Feb
2. 10 days 2005 21 Dec – 30 Dec
2. 8 days 2002 10 Dec – 17 Dec
3. 8 days 1940 3 Feb – 10 Feb
4. 8 days 1920-21 26 Dec – 2 Jan

Streaks with Rainfall of ≥ 1.00 inch

1. 8 days 1920-21 26 Dec – 2 Jan
2. 5 days 1983² 1 Jan – 5 Jan

Streaks with Rainfall of ≥ 2.00 inches

1. 3 days 2006 5 Nov – 7 Nov
2. 3 days 1996 6 Feb – 8 Feb
3. 3 days 1933 20 Dec – 22 Dec
4. 3 days 1914 4 Jan – 6 Jan
5. 2 days 2021² 11 Jan – 12 Jan

¹Period of record: 1887-2023.

Averages based on same period, 1887-2023.

²Most recent date of multiple occurrences.

Astoria: DRY Days Each Month and Dry Spells (Consecutive DRY Days)

≤ Trace		Days with Rainfall Trace or Less			
		Least Days		Most Days	
		days	year	days	year
January	9	0	2020 ⁺	25	1985
February	10	0	1961	26	1920
March	9	2	2017	22	1965
April	11	1	1893	26	1951
May	15	5	2000	26	1992 ⁺
June	16	8	1997 ⁺	28	1948 ⁺
July	23	10	1915	30	1985 ⁺
August	23	13	1926	30	1917 ⁺
September	20	8	1941	29	1991
October	14	2	2016	29	1987
November	9	0	1998	23	1976
December	9	0	1933	23	1985
Year	168	136	1893	233	1907

≤ Trace		CONSECUTIVE Days with Rainfall of a Trace or Less		
	Avg ¹	days	date of streak	
January	3	13	1980	18 th – 30 th
February	3	13	1906	1 st – 13 th
March	2	19	1965	1 st – 19 th
April	3	26	1951	1 st – 26 th
May	3	18	1891	8 th – 25 th
June	4	19	1962	6 th – 24 th
July	5	30	1960	1 st – 30 th
August	5	29	1915	1 st – 29 th
September	5	27	1975	1 st – 27 th
October	3	29	1987	1 st – 29 th
November	2	14	1952	16 th – 29 th
December	2	23	1985	8 th – 30 th
All Time		45	1985 15 June-29 July	

Streaks with Rainfall of a Trace or Less

- 52 days 1909 27 Aug – 17 Oct
- 45 days 1985 15 Jun – 29 Jul
- 42 days 1936 13 Jul – 23 Aug
- 38 days 1896 13 Jun – 20 Jul
- 36 days 1955 8 Aug – 12 Sep
- 35 days 1997 16 Jul – 19 Aug

Zero		Days with <u>NO</u> Rain Not Even A Drop!			
		Least Days		Most Days	
		days	year	days	year
January	7	0	2020 ⁺	21	1985
February	8	0	1961 ⁺	22	1920
March	7	1	2011 ⁺	20	1947 ⁺
April	8	1	2017 ⁺	25	1951
May	12	2	1960	26	1907
June	12	5	1997	28	1922
July	18	7	1955	30	1896
August	19	7	1960 ⁺	30	1917 ⁺
September	17	7	2019 ⁺	29	1908
October	12	2	2016	26	1907 ⁺
November	6	0	1998	22	1952
December	7	0	1933	21	1943
Year	135	98	1953	233	1907

Zero		CONSECUTIVE Days with <u>NO</u> Rainfall Not Even A Drop!		
	Avg ¹	days		date of streak
January	2	13	1980	18 th – 30 th
February	2	13	1906	1 st – 13 th
March	2	15	1965	1 st – 15 th
April	2	19	1951	1 st – 19 th
May	3	17	1929+	7 th – 23 rd
June	3	18	1922	4 th – 21 st
July	4	21	1938	11 th – 31 st
August	4	25	1917	7 th – 31 st
September	4	23	1908	8 th – 30 th
October	3	17	1909	1 st – 17 th
November	2	14	1952	16 th – 29 th
December	2	19	1985	9 th – 27 th
All Time		42	1936 13 July-23 August	

Streaks with No Rainfall (*Not a drop!*)

- 42 days 1936 13 Jul – 23 Aug
- 33 days 1896 18 Jun – 20 Jul
- 29 days 1997 22 Jul – 19 Aug
- 28 days 1917 7 Aug – 3 Sep

¹Nor are 1991-2020 Normals. AVG are 1887-2023. averages. Year average is based on annual sums, not the sum of months. ⁺Last of several occurrences.

Days per Month with No Rain (N), Trace Only (T) or Measurable Rain (R)

	Jan			Feb			Mar			Apr			May			Jun			Jul			Aug			Sept			Oct			Nov			Dec		
	N	T	R	N	T	R	N	T	R	N	T	R	N	T	R	N	T	R	N	T	R	N	R	N	T	R	N	T	R	N	T	R	N			
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1888	11	0	20	13	0	16	11	0	20	M	M	M	M	M	M	M	M	M	M	M	M	25	1	5	20	1	9	6	0	25	11	0	19	13	0	18
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1893	18	0	13	3	0	25	7	0	24	1	0	29	8	1	22	12	2	16	19	3	9	24	0	7	13	2	15	11	0	20	7	1	22	4	0	27
1894	1	0	30	7	1	20	6	0	25	6	2	22	16	0	15	10	1	19	25	1	5	28	1	2	10	2	18	10	0	21	9	0	21	12	0	19
1895	6	1	24	7	1	20	11	0	20	12	2	16	11	0	20	22	1	7	21	3	7	30	0	1	12	0	18	26	0	5	14	0	16	1	0	30
1896	3	1	27	5	1	23	15	1	15	5	1	24	8	2	21	20	1	9	30	0	1	21	0	10	20	1	9	18	0	13	11	0	19	7	1	23
1897	11	0	20	4	0	24	5	2	24	16	1	13	20	1	10	13	3	14	19	3	9	29	0	2	18	1	11	19	3	9	2	1	27	10	0	21
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1906	2	2	27	13	0	15	12	3	16	17	3	10	14	2	15	9	2	19	25	1	5	28	1	2	20	0	10	11	0	20	6	0	24	12	0	19
1907	17	0	14	15	0	13	13	0	18	21	0	9	26	0	5	17	0	13	28	0	3	21	0	10	26	0	4	26	0	5	12	0	18	11	0	20
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1910	0	3	20	5	0	23	6	6	19	10	5	15	18	1	12	17	5	8	29	1	1	20	5	6	17	1	12	10	2	19	6	0	24	5	1	25
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1914	0	1	30	6	2	20	9	3	19	9	0	21	19	1	11	15	1	14	28	1	2	24	2	5	12	2	16	11	1	19	4	1	25	15	1	15
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1917	8	0	23	10	0	18	8	0	23	4	0	26	13	0	18	17	0	13	26	0	5	30	0	1	15	0	15	24	0	7	M	M	M	M	M	M
1918	M	M	M	7	2	19	10	1	20	18	1	11	13	1	17	23	1	6	19	5	7	18	2	11	27	2	1	5	6	20	6	3	21	12	0	19
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1926	11	1	19	4	1	23	16	3	12	17	0	13	6	0	25	26	0	4	27	0	4	13	0	6	21	0	9	14	0	17	9	1	20	7	0	24
1927	5	0	26	9	0	19	10	3	18	12	2	16	11	0	20	16	2	12	21	1	9</															

Days per Month with No Rain (N), Trace Only (T) or Measurable Rain (R)

	Jan			Feb			Mar			Apr			May			Jun			Jul			Aug			Sept			Oct			Nov			Dec		
	N	T	R	N	T	R	N	T	R	N	T	R	N	T	R	N	T	R	N	T	R	N	T	R	N	T	R	N	T	R	N	T	R			
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1953	2	0	29	8	3	17	4	6	21	5	3	22	7	5	19	7	4	19	21	5	5	8	8	15	16	2	12	12	3	16	2	1	27	6	1	24
1954	4	2	25	11	2	15	15	1	15	11	3	16	12	6	13	6	2	22	17	4	10	7	10	14	15	5	10	15	1	15	6	2	22	9	0	22
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1956	4	2	25	5	1	23	5	2	24	13	5	12	14	4	13	6	6	18	19	9	3	13	9	9	14	6	10	5	0	26	17	3	10	9	2	20
1957	11	1	19	6	3	19	6	1	24	8	6	16	14	4	13	10	7	13	10	13	8	19	3	9	21	0	9	10	1	20	15	1	14	6	1	24
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1960	2	2	27	8	1	20	5	7	19	6	1	23	2	5	24	10	12	8	20	10	1	7	9	15	17	6	7	11	2	18	9	1	20	13	0	18
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1969	4	0	27	5	3	20	16	1	14	4	4	22	16	3	12	6	8	16	16	8	7	14	5	12	8	4	18	13	3	15	16	1	13	4	1	26
1970	4	1	26	13	1	14	8	5	18	10	2	18	14	1	16	15	6	9	16	11	4	15	12	4	16	3	11	15	1	15	6	1	23	5	1	25
1971	6	1	24	6	0	22	6	4	21	8	7	15	10	8	13	9	2	19	13	9	9	17	9	5	13	4	13	12	4	15	3	2	25	1	2	28
1972	7	1	23	4	1	24	6	2	23	3	4	23	15	6	10	12	6	12	22	3	6	22	4	5	14	2	14	14	5	12	6	6	18	6	1	24
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1975	3	3	25	4	0	24	11	1	19	9	5	16	13	5	13	8	5	17	11	16	4	9	9	13	23	6	1	3	4	24	3	1	26	7	2	22
1976	8	2	21	10	0	19	7	3	21	8	5	17	11	5	15	12	6	12	12	10	9	11	8	12	15	9	6	18	4	9	19	4	7	11	5	15
1977	14	2	15	9	2	17	4	1	26	12	3	15	7	1	23	14	8	8	12	6	13	14	10	7	12	2	16	13	2	16	5	3	22	6	2	23
1978	5	2	24	7	2	19	15	1	15	5	1	24	10	2	19	14	5	11	14	10	7	12	5	14	7	2	21	18	6	7	11	2	17	10	2	19
1979	14	3	14	1	2	25	11	4	16	7	4	19	14	5	12	16	4	10	17	8	6	22	2	7	16	5	9	13	3	15	12	2	16	2	1	28
1980	16	0	15	6	2	21	4	1	26	9	2	19	8	11	12	7	6	17	17	10	4	9	13	9	12	8	10	20	2	9	4	5	21	7	3	21
1981	14	2	15	11	2	15	6	9	16	7	3	20	9	4	18	7	3	20	11	9	11	15	11	5	14	5	11	16	1	14	10	2	18	3	2	26
1982	2	3	26	7	2	19	10	1	20	9	4	17	14	10	7	12	10	8	11	13	7	20	4	7	12	5	13	9	6	16	11	1	18	10	4	17
1983	6	1	24	6	0	22	5	3	23	13	3	14	13	4	14	8	2	20	10	9	12	21	3	7	16	4	10	15	2	14	3	0	27	6	6	19
1984	9	7	15	4	3	22	8	1	22	4	3	23	5	3	23	9	7	14	25	3	3	22	2	7	13	6	11	8	3	20	4	2	24	10	2	19
1985	21	4	6	7	4	17	12	3	16	9	3	18	9	4	18	13	8	9	19	11	1	20	5	6	16	3	11	9	1	21	8	2	20	20	3	8
1986	5	1	25	8	5	15	7	3	21	8	7	15	11	3	17	17	6	7	10	11	10	19	9	3	12	5	13	20	3	8	7	4	19	9	4	18
1987	11	2	18	5	3	20	7	2	22	13	1	16	15	3	13	15	10	5	9	9	13	20	9	2	18	7	5	23	6	2	10	4	16	8	4	19
1988	9	2	20	13	1	15	9	2	20	10	2	18	8	2	21	14	5	11	17	7	7	22	6	3	17	5	8	14	6	11	2	0	28	7	5	19
1989	4	0	27	9	2	17	2	2	27	14	6	10	11	8	12	18	4	8	13	7	11	13	11	7	23	2	5	13	5	13	7	6	17	15	3	13
1990	6	1	24	8	0	20	9	5	17	9	5	16	5	7	19	10	4	16	18	6	7	13	7	11	21	7	2	6	1	24	2	1	27	5	4	22
1991	12	5	14	12	2	14	7	3	21	12	0	18	9	6	16																					

Days per Month with No Rain (N), Trace Only (T) or Measurable Rain (R)

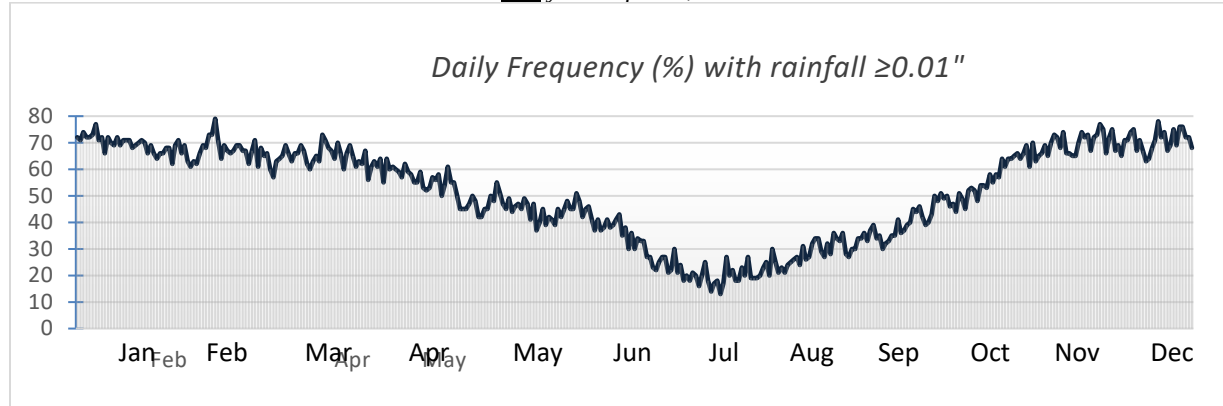
	Jan			Feb			Mar			Apr			May			Jun			Jul			Aug			Sept			Oct			Nov			Dec		
	N	T	R	N	T	R	N	T	R	N	T	R	N	T	R	N	T	R	N	T	R	N	T	R	N	T	R	N	T	R	N	T	R	N	T	R
2015	13	1	17	9	3	16	12	1	18	8	2	20	14	8	9	22	3	5	21	3	7	18	3	10	19	1	10	11	6	14	7	5	18	2	0	29
2016	3	4	24	5	1	23	5	2	24	13	3	14	12	10	9	8	10	12	13	8	10	19	6	6	15	3	12	2	0	29	2	2	26	7	1	23
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2024																																				
2025																																				
2026																																				
2027																																				
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	Total for Year				Total for Year				Total for Year				Total for Year				Total for Year		
	N	T	R		N	T	R		N	T	R		N	T	R		N	T	R
1885	-	-	-	1915	145	17	203	1945	165	7	193	1975	104	57	204	2005	146	42	177
1886	-	-	-	1916	180	6	180	1946	171	19	175	1976	142	61	163	2006	150	28	187
1887	M	M	M	1917	M	M	M	1947	196	15	154	1977	122	42	201	2007	120	37	208
1888	M	M	M	1918	M	M	M	1948	173	28	165	1978	128	40	197	2008	145	21	200
1889	199	1	165	1919	143	41	179	1949	176	42	146	1979	145	43	177	2009	156	25	184
1890	189	3	173	1920	136	31	199	1950	143	31	190	1980	119	63	184	2010	103	39	223
1891	136	4	225	1921	135	25	205	1951	183	32	148	1981	123	53	189	2011	115	37	213
1892	155	5	206	1922	M	M	M	1952	179	28	159	1982	127	63	175	2012	134	31	201
1893	127	9	229	1923	166	7	192	1953	98	41	226	1983	122	37	206	2013	156	25	184
1894	140	8	217	1924	172	10	184	1954	128	38	199	1984	121	42	203	2014	149	31	185
1895	173	8	184	1925	161	8	196	1955	102	47	216	1985	163	51	151	2015	156	36	173
1896	163	9	194	1926	171	6	176	1956	124	49	193	1986	133	61	171	2016	104	50	212
1897	166	15	184	1927	138	12	215	1957	136	41	188	1987	154	60	151	2017	130	36	199
1898	174	15	176	1928	160	12	194	1958	114	58	193	1988	142	43	181	2018	136	40	189
1899	136	11	218	1929	178	22	165	1959	105	48	212	1989	142	56	167	2019	152	37	176
1900	143	14	208	1930	185	15	165	1960	110	56	200	1990	112	48	205	2020	129	32	205
1901	161	15	189	1931	180	11	174	1961	107	53	205	1991	146	57	162	2021	125	38	202
1902	143	15	207	1932	157	15	194	1962	114	62	189	1992	149	46	171	2022	153	26	184
1903	174	15	176	1933	159	10	196	1963	110	62	193	1993	140	45	180	2023	149	39	177
1904	173	9	184	1934	183	8	174	1964	99	44	223	1994	135	35	195	2024			
1905	177	18	170	1935	191	8	166	1965	122	65	178	1995	140	27	198	2025			
1906	169	14	182	1936	203	11	152	1966	125	36	204	1996	123	24	219	2026			
1907	233	0	132	1937	167	9	189	1967	131	38	196	1997	131	20	214	2027			
1908	227	1	138	1938	202	3	160	1968	110	37	219	1998	114	27	224	2028			
1909	M	M	M	1939	164	9	192	1969	122	41	202	1999	138	14	213	2029			
1910	143	30	184	1940	165	18	183	1970	137	45	183	2000	133	30	203	2030			
1911	152	34	179	1941	177	11	177	1971	104	52	209	2001	137	30	198	2031			
1912	159	22	185	1942	141	30	194	1972	131	41	194	2002	169	21	175	2032			
1913	140	26	199	1943	198	13	154	1973	117	54	194	2003	140	24	201	2033			
1914	152	16	197	1944	176	5	185	1974	143	36	186	2004	138	25	203	2034			

Nor mal	No Rain 137 days		Record Days with Rain			Record Days with No Rain		
	w/Trace 32		Least Days	132	in 1907	Least Days	98	in 1953
	w/Rain 196		Most Days	229	in 1893	Most Days	233	in 1907

Daily Frequency of Measurable Precipitation (*Rainfall ≥ 0.01 inch*)

based on 131 years of data, 1892 to 2023



How To Use Chart: For all 22 Jan, rain fell on 92 of them, or 70% of all 22 Jan.

	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
1	89	70	89	68	80	61	86	65	71	54	53	40	48	36	35	27	38	29	59	45	84	64	100	77
2	92	72	81	62	89	68	81	61	81	61	59	45	40	30	26	20	36	27	58	44	84	64	98	75
3	91	71	90	69	85	65	83	63	72	55	52	39	45	34	29	22	42	32	61	46	85	65	86	66
4	95	74	93	71	87	66	82	62	73	55	56	42	43	33	24	18	37	28	55	42	86	66	94	72
5	92	72	86	66	79	60	89	67	66	50	54	41	43	33	24	18	47	36	51	39	84	64	97	75
6	92	72	90	69	75	57	74	56	60	45	51	39	35	27	31	23	45	34	53	40	87	66	87	67
7	94	73	82	63	82	63	81	61	59	45	60	45	36	27	27	20	43	33	57	43	90	69	89	69
8	99	77	80	61	84	64	83	63	59	45	56	42	31	23	35	27	48	36	66	50	80	61	85	65
9	91	71	83	63	85	65	80	61	62	47	60	45	29	22	25	19	37	28	63	48	92	70	91	71
10	93	72	81	62	90	69	84	64	65	50	64	48	33	25	25	19	35	27	67	51	82	63	92	71
11	85	66	86	66	86	66	72	55	64	48	60	45	35	27	25	19	39	30	65	49	85	65	95	74
12	93	72	90	69	83	63	84	64	55	42	59	45	36	27	26	20	39	30	66	50	87	66	97	75
13	90	70	89	68	87	66	79	60	56	42	67	51	28	21	30	23	45	34	61	46	91	69	87	67
14	89	69	95	73	86	66	81	61	60	45	63	48	29	22	33	25	45	34	62	47	85	65	91	71
15	94	72	96	73	91	69	79	60	60	45	55	42	40	30	26	20	48	36	58	44	92	70	87	67
16	90	69	104	79	88	67	78	59	65	50	59	45	28	21	39	30	43	33	67	51	95	73	81	63
17	92	71	93	71	81	62	75	57	63	48	61	46	32	24	33	25	49	37	65	49	94	72	83	64
18	92	71	84	64	79	60	82	62	73	55	54	41	24	18	28	21	51	39	60	45	89	68	88	68
19	93	71	90	69	83	63	78	59	67	51	49	37	26	20	30	23	45	34	69	52	97	74	91	71
20	89	68	88	67	85	65	76	58	62	47	54	41	24	18	28	21	46	35	70	53	87	66	100	78
21	91	69	87	66	83	63	72	55	60	45	49	37	28	21	31	24	40	30	69	52	86	66	93	72
22	92	70	88	67	96	73	72	55	65	49	50	38	27	20	33	25	42	32	63	48	85	65	96	74
23	93	71	91	69	83	71	78	59	58	44	54	41	21	16	34	26	44	33	71	54	85	65	87	67
24	92	70	90	69	89	68	70	53	61	46	50	38	27	20	36	27	46	35	71	54	92	70	90	69
25	86	66	88	67	88	67	68	52	62	47	51	39	33	25	32	24	46	35	70	53	97	74	98	75
26	90	69	88	67	84	64	70	53	59	45	54	41	24	18	40	31	54	41	76	58	94	72	90	69
27	86	66	81	62	83	70	75	57	65	49	57	43	18	14	34	26	47	36	72	55	95	73	99	76
28	84	64	88	67	86	66	74	56	62	47	46	35	22	17	36	27	49	37	77	58	87	67	99	76
29	86	66	22	71	79	60	76	58	54	41	50	38	24	18	42	32	52	39	75	57	93	72	94	72
30	85	66			86	66	66	50	62	47	40	30	17	13	45	34	53	40	84	64	95	73	93	72
31	88	68			90	69			49	37			23	17	44	34			81	61			89	68

is the number of times measurable (0.01" or more) rain fell on that day.

% is percentage of that date' rainy days compared to all days of that particular date.

ASTORIA: Monthly and Seasonal Total Snowfall (inches)

	Jan	Feb	Mar	Apr	May-Sep	Oct	Nov	Dec	Total	Winter	Total
1890	22.5	2.5	-	-	-	-	-	-	25.0	1889-90	M
1891	-	-	-	-	-	-	-	1.0	1.0	1890-1	0
1892	-	-	-	-	-	-	-	7.0	7.0	1891-2	1.0
1893	4.2	8.0	-	-	-	-	-	-	12.2	1892-3	19.2
1894	5.0	7.0	6.0	-	-	-	-	T	18.0	1893-4	18.0
1895	3.5	0.3	-	-	-	-	-	1.0	4.8	1894-5	3.8
1896	0.5	2.0	2.5	-	-	-	3.5	-	8.5	1895-6	6.0
1897	0.3	1.5	3.8	-	-	-	-	-	5.6	1896-7	9.1
1898	2.0	1.0	0.2	-	-	-	-	0.5	3.7	1897-8	3.2
1899	0.5	8.2	-	-	-	-	-	-	8.7	1898-9	9.2
1900	-	-	-	-	-	-	-	-	0	1899-00	0.0
1901	-	T	-	-	-	-	-	-	T	1900-1	0.0
1902	0.7	-	-	-	-	-	-	-	0.7	1901-2	0.7
1903	-	0.5	0.8	-	-	-	-	-	1.3	1902-3	1.3
1904	-	8.0	3.0	-	-	-	-	-	11.0	1903-4	11.0
1905	2.6	-	-	-	-	-	-	-	2.6	1904-5	2.6
1906	T	-	-	-	-	-	-	-	T	1905-6	0.0
1907	4.0	-	-	-	-	-	-	-	4.0	1906-7	4.0
1908	-	T	-	-	-	-	-	0.1	0.1	1907-8	0.0
1909	12.1	-	0.5	-	-	-	M	M	12.6	1908-9	12.7
1910	M	-	M	-	-	-	M	-	M	1909-10	M
1911	4.7	1.2	M	0.8	-	-	-	2.0	8.7	1910-1	6.7
1912	-	-	M	-	-	-	M	-	0	1911-2	2.0
1913	1.4	M	M	-	-	-	M	-	1.4	1912-3	1.4
1914	0.4	M	M	-	-	-	-	-	0.4	1913-4	0.4
1915	-	-	-	-	-	-	-	-	0	1914-5	0.0
1916	27.3	0.3	-	-	-	-	-	3.2	30.8	1915-6	27.6
1917	2.6	-	-	-	-	-	M	M	2.6	1916-7	5.8
1918	-	T	0.3	-	-	-	-	-	0.3	1917-8	0.3
1919	-	-	-	-	-	-	-	M	0	1918-9	0
1920	M	-	M	-	-	-	-	-	M	1919-20	M
1921	M	M	-	-	-	-	-	-	M	1920-1	M
1922	0.4	T	M	-	-	-	-	12.5	12.9	1921-2	0.4
1923	1.6	6.0	T	-	-	-	-	1.5	9.1	1922-3	20.1
1924	1.0	-	-	-	-	-	-	2.5	3.5	1923-4	2.5
1925	-	-	-	-	-	-	-	-	0	1924-5	2.5
1926	-	-	-	-	-	-	-	0.5	0.5	1925-6	0.0
1927	2.0	-	T	0.5	-	-	-	2.0	4.5	1926-7	3.0
1928	10.0	-	-	-	-	-	-	-	10.0	1927-8	12.0
1929	11.9	-	-	T	-	-	-	-	11.9	1928-9	11.9
1930	8.3	-	-	-	-	-	-	-	8.3	1929-30	8.3
1931	-	-	T	-	-	-	-	T	0.0	1930-1	T
1932	2.8	T	-	-	-	-	-	-	2.8	1931-2	2.8
1933	9.3	T	0.2	-	-	-	-	T	9.5	1932-3	9.5
1934	-	-	-	-	-	-	-	1.2	1.2	1933-4	T
1935	7.9	0.0	0.4	-	-	T	-	-	8.3	1934-5	9.5
1936	T	4.6	3.7	0.9	-	-	-	-	9.2	1935-6	9.2
1937	7.2	3.5	-	-	-	-	-	0.3	11.0	1936-7	10.7
1938	T	T	T	-	-	-	-	-	T	1937-8	0.3
1939	-	6.8	-	-	-	-	-	-	6.8	1938-9	6.8

ASTORIA: Monthly and Seasonal Total Snowfall (inches)

	Jan	Feb	Mar	Apr	May-Sep	Oct	Nov	Dec	Total	Winter	Total
1940	-	-	-	-	-	-	-	-	0	1939-40	0
1941	-	-	-	-	-	-	-	T	T	1940-1	0
1942	T	-	T	-	-	-	-	-	T	1941-2	T
1943	13.8	0.8	-	-	-	-	-	-	14.6	1942-3	14.6
1944	-	-	-	-	-	-	-	-	0	1943-4	0
1945	-	-	T	-	-	-	-	-	T	1944-5	T
1946	-	0.9	-	-	-	-	T	T	0.9	1945-6	0.9
1947	6.5	-	-	-	-	-	-	-	6.5	1946-7	6.5
1948	0.2	-	T	0.1	-	-	T	1.0	1.3	1947-8	0.3
1949	9.1	5.2	-	-	-	-	-	0.2	14.5	1948-9	15.3
1950	26.9	T	T	-	-	-	-	-	26.9	1949-50	27.1
1951	T	0.2	12.8	-	-	-	-	0.5	13.5	1950-1	13.0
1952	13.0	8.5	T	-	-	-	-	T	21.5	1951-2	22.0
1953	T	-	-	-	-	-	-	-	T	1952-3	T
1954	6.4	T	1.0	-	-	-	-	0.1	7.5	1953-4	7.4
1955	T	0.2	T	-	-	-	2.2	0.2	2.6	1954-5	0.3
1956	1.0	0.7	2.9	-	-	-	-	2.2	6.8	1955-6	7.0
1957	4.2	0.2	-	-	-	-	-	-	4.4	1956-7	6.6
1958	-	-	-	-	-	-	-	-	0	1957-8	0
1959	1.1	T	T	-	-	-	-	-	1.1	1958-9	1.1
1960	1.1	-	5.9	-	-	-	-	-	7.0	1959-60	7.0
1961	-	T	0.4	-	-	-	-	T	0.4	1960-1	0.4
1962	T	4.0	1.6	-	-	-	-	-	5.6	1961-2	5.6
1963	0.3	-	-	-	-	-	-	-	0.3	1962-3	0.3
1964	T	-	T	-	-	-	T	19.0	19.0	1963-4	T
1965	10.7	-	-	-	-	-	-	3.4	14.1	1964-5	29.7
1966	0.7	-	6.7	-	-	-	-	-	7.4	1965-6	10.8
1967	T	-	0.7	-	-	-	-	0.8	1.5	1966-7	0.7
1968	3.7	-	-	-	-	-	-	4.5	8.2	1967-8	4.5
1969	26.3	1.0	-	-	-	-	-	-	27.3	1968-9	31.8
1970	-	-	-	-	-	-	T	1.8	1.8	1969-70	0
1971	16.1	0.2	1.5	-	-	-	-	3.4	21.2	1970-1	19.6
1972	1.7	-	-	-	-	-	-	5.4	7.1	1971-2	5.1
1973	T	-	-	-	-	-	-	-	T	1972-3	5.4
1974	0.4	T	1.7	-	-	-	-	-	2.1	1973-4	2.1
1975	0.3	-	-	1.1	-	-	1.1	T	2.5	1974-5	1.4
1976	T	-	T	-	-	-	-	-	T	1975-6	1.1
1977	-	-	T	-	-	-	0.1	T	0.1	1976-7	T
1978	-	-	-	-	-	-	0.1	2.5	2.6	1977-8	0.1
1979	0.3	-	-	-	-	-	-	0.2	0.5	1978-9	2.9
1980	0.5	1.7	-	-	-	-	-	T	2.2	1979-80	2.4
1981	-	-	-	-	-	-	-	T	T	1980-1	T
1982	6.1	T	-	-	-	-	T	-	6.1	1981-2	6.1
1983	-	-	-	-	-	-	-	T	T	1982-3	T
1984	-	-	-	-	-	-	-	T	T	1983-4	T
1985	-	1.1	-	-	-	-	4.6	0.4	6.1	1984-5	1.1
1986	-	T	-	-	-	-	-	-	T	1985-6	5.0
1987	-	-	-	-	-	-	-	T	T	1986-7	0
1988	-	-	-	-	-	-	-	-	0	1987-8	T
1989	T	1.5	T	-	-	-	-	-	1.5	1988-9	1.5

ASTORIA: Monthly and Seasonal Total Snowfall (inches)

<i>Snow</i>	Jan	Feb	Mar	Apr	May-Sep	Oct	Nov	Dec	Total	Winter	Total
1990	-	1.8	-	-	-	-	-	1.4	3.2	1989-90	1.8
1991	-	-	T	-	-	-	-	-	1.4	1990-1	1.4
1992	-	-	-	-	-	-	-	T	T	1991-2	0
1993	5.2	3.4	-	-	-	-	T	-	8.6	1992-3	8.6
1994	-	T	T	-	-	-	-	0.6	0.6	1993-4	0
1995	-	T	-	-	-	-	-	-	T	1994-5	0.6
1996	0.2	0.3	-	-	-	-	-	-	0.5	1995-6	0.5
1997	-	-	-	-	-	-	-	T	T	1996-7	0
1998	-	-	-	-	-	-	-	-	0	1997-8	T
1999	-	-	-	-	-	-	-	-	0	1998-9	0
2000	-	-	-	-	-	-	-	-	0	1999-00	0
2001	2.0	-	-	-	-	-	-	-	2.0	2000-1	0
2002	-	-	-	-	-	-	-	-	0	2001-2	2.0
2003	-	-	-	-	-	-	-	-	0	2002-3	0
2004	-	0.2	-	-	-	-	-	-	0.2	2003-4	0.2
2005	-	-	-	-	-	-	-	-	0	2004-5	0
2006	-	-	-	-	-	-	-	-	0	2005-6	0
2007	-	-	-	-	-	-	-	-	0	2006-7	0
2008	-	-	-	-	-	-	-	-	0	2007-8	0
2009	-	-	-	-	-	-	-	-	0	2008-9	0
2010	-	-	-	-	-	-	-	-	0	2009-10	0
2011	-	-	-	-	-	-	-	-	0	2010-1	0
2012	-	-	-	-	-	-	-	-	0	2011-2	0
2013	-	-	-	-	-	-	-	-	0	2012-3	0
2014	-	-	-	-	-	-	-	M	M	2013-4	0
2015	M	M	M	-	-	-	-	M	M	2014-5	M
2016	M	M	M	-	-	-	-	M	M	2015-6	M
2017	M	M	M	-	-	-	-	M	M	2016-7	M
2018	M	M	M	-	-	-	-	M	M	2017-8	M
2019	M	M	M	-	-	-	-	M	M	2018-9	M
2020	M	M	M	-	-	-	-	M	M	2019-20	M
2021	M	M	M	-	-	-	-	M	M	2020-1	M
2022	M	M	M	-	-	-	-	M	M	2021-2	M
2023	M	M	M	-	-	-	-	M	M	2022-3	M
2024										2023-4	
2025										2024-5	
2026										2025-6	
2027										2026-7	
Normal	0.4	0.5	0	-	-	-	0.3	0.2	1.4"	← 1991-2020	
AVG	2.0	0.4	0.5	-	-	-	0.2	1.1	4.2"	← 1953-1995	
	Jan	Feb	Mar	Apr	May-Sep	Oct	Nov	Dec	Total	Winter Season	
Most Snow	26.9	8.5	12.8	1.1	0	T	4.6	19.0	27.3"	31.8"	
Year	1950	1952	1951	1975	-	1971 ⁺	1985	1964	1969	1968-69	

¹ In March 1993, ASOS (*Automated Surface Observation System*) replaced the human observations. ASOS does not have the ability to measure snowfall. **As a result, snowfall was not available 1993 to the present.** To compensate, snowfall at the airport was augmented/derived using data from the nearby Fort Clatsop National Monument.

Astoria: Snowfall (inches) Records and Extremes

1889-2023¹ (- indicates zero or no occurrences)

*** Snow	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Season
	MOST snowfall in a month/season, and year of occurrence												
	0	0	0	0	4.6"	19.0"	27.3"	8.5"	12.8"	1.1"	0	0	31.8"
					1985	1964	1916	1952	1951	1975			1968-69
Snow	LEAST snowfall in a month/season, and year of occurrence ²												
	0	0	0	0	0	0	0	0	0	0	0	0	0
					2021 ²	2021 ²	2022 ²	2022 ²	2022 ²	2022 ²			2021-22 ²

	Days with Measureable Snow (≥0.1 inch)					Consecutive Days w/Snow on Ground		Greatest Snowfall in a 24-hour Period			Greatest Snow Depth (inches)		
	avg	most	year	least	year	days	year	snow	year	dates	depth	year	date
Oct	0	-	-	-	-	-	-	-	-	-	-	-	-
Nov	< 1	3	1975 ²	0	2021 ²	1	1955	4.3"	1985	30 Nov	2"	1955	17 Nov
Dec	< 1	7	1964	0	2021 ²	10	1922	12.5"	1922	11 Dec	7"	1892	21 Dec
Jan	1	12	1950	0	2022 ²	15	1930	10.8"	1971	12 Jan	18"	1969 ²	30 Jan
Feb	1	5	1936	0	2022 ²	6	1893	6.0"	1923	13 Feb	6"	1923	13 Feb
Mar	0	6	1951	0	2022 ²	7	1951	5.9"	1960	2-3 Mar	12"	1951	8-10 Mar
Apr	0	2	1975	0	2022 ²	-	-	1.0"	1975	3 Apr	T	1975	4 Apr
May	0	-	-	-	-	-	-	-	-	-	-	-	-
Winter Season Extremes													
	2	15	1968-1969	0	2019-2020 ²	15	Jan/Feb 1969	12.5"		11 Dec 1922	18"		30 Jan 1969 & 15 Jan 1950

	First Snow of Winter Season				Last Snow of Winter Season		
	average	date(s)	snowfall		average	date(s)	snowfall
≥ Trace	26 Dec	2 Nov 2004	trace		22 Feb	12 Apr 1911	0.8"
≥ 0.1 inch	5 Jan	15 Nov 1896	0.5"		10 Feb	12 Apr 1911	0.8"
≥ 1.0 inch	9 Jan	16 Nov 1955	2.0"		3 Feb	3 Apr 1975	1.0"
≥ 2.0 inches	14 Jan	16 Nov 1955	2.0"		26 Jan	29 Mar 1936	2.2"
≥ 5.0 inches	8 Jan	11 Dec 1922	12.5"		20 Jan	5 Feb 1899	5.5"

¹Regular snowfall measurements at Astoria ended in 1993. Measurements for Astoria airport derived from Fort Clatsop data and other local reports.

²Occurred often, most recent year of occurrence listed.

Christmas Snow³ (1892-2012)

Chance of Snow for Christmas							
< 0.3%							
24 December				25 December			
Snow that Fell		Snow already on Ground		Snow that Fell		Snow already on Ground	
year	amount	year	depth	year	amount	year	depth
1990	Trace	1990	1"	1983	Trace	1990	1"
1983	Trace	1983	Trace	1965	Trace	1983	Trace
1951	Trace	1937	Trace	1952	Trace	1965	Trace
1937	Trace			1951	Trace	1952	Trace
				1937	Trace	1937	Trace
				1916	3.2"		

³Due to lack of observations, the snow that fell in 2008 may or may not have been on the ground for Christmas.

Pressure and Wind Data



picture (above): Trees damaged by wind on 14 December 2007, at Gearhart.

For the Astoria Airport (1953-2023)

Strongest Sustained Wind

South at 55 mph

3 December 2007

and 15 January 1971

Strongest Wind Gust

South at 106 mph

3 December 2007

2nd Strongest South at 96 mph 12 October 1962

For the Astoria Area (1889-2023)

Highest Pressure

30.80 inches

on 30 December 2014

Lowest Pressure

28.45 inches

on 9 January 18880

2nd lowest 28.53 inches

on 12 December 1995

Normal and Extreme Sea Level Pressure
Period of Record: Jan 1953 through Dec 2023 (at Astoria Airport)

Astoria	averages¹	
	<i>inches</i>	<i>millibars</i>
January	30.05	1017.7
February	30.04	1016.6
March	30.02	1015.4
April	30.05	1017.5
May	30.06	1017.6
June	30.06	1017.9
July	30.08	1018.3
August	30.05	1017.1
September	30.04	1016.6
October	30.06	1017.4
November	30.03	1016.5
December	30.05	1017.7
Annually	30.05	1017.1

¹Averages are derived from 1991-2020 data.

Astoria	Highest Pressure²		Lowest Pressure²	
	<i>Pressure</i>	<i>Date</i>	<i>Pressure</i>	<i>Date</i>
January	30.72"	25 Jan 2023 ⁴	28.71"	4 Jan 2008
February	30.71"	11 Feb 2002 ⁴	28.89"	24 Feb 1958
March	30.69"	6 Mar 1955	28.94"	5 Mar 1961
April	30.65"	13 Apr 1999	29.04"	2 Apr 1958
May	30.55"	2 May 2001	29.34"	4 May 2009 ⁴
June	30.49"	20 Jun 1960	29.58"	17 Jun 2005
July	30.38"	3 Jul 1959 ⁴	29.70"	10 Jul 1954
August	30.38"	23 Aug 2010 ⁴	29.51"	29 Aug 2015 ⁴
September	30.45"	22 Sep 1964	29.23"	23 Sep 2013
October	30.64"	31 Oct 1999 ⁴	28.62"	12 Oct 1962
November	30.71"	30 Nov 2011	29.06"	28 Nov 2001
December	30.80"	30 Dec 2014	28.53"	12 Dec 1995
All Time	30.80"	30 Dec 2014	28.53" 28.45"	12 Dec 1995⁵ 9 Jan 1880 ⁵

¹Averages are derived from 1991-2020 data.

²Pressure readings are in units of inches.

³Pressure recorded in the month, but data records not available to determine exact date.

⁴Has occurred more than once, with most recent date of occurrence listed.

⁵Lowest pressure at the airport was set in 1995. But, looking back far into Astoria's historical record, an intense storm in January 1880 brought a record low pressure of 28.45 inches.

Monthly Normal and Extreme Wind Data (mph)

Astoria Airport										1953 through 2023		
	normal ¹		Windiest		Highest Sustained ²			Highest Gust ²				
	dir.	mph	avg.	year	dir.	mph	date	dir.	mph	year		
Jan	E (90°)	8.6	12.2	1974	S	55	15 Jan 1971	S	80	14 Jan 1971		
Feb	E (100°)	8.2	12.5	1999	S	47	12 Feb 1979	S	76	13 Feb 1979		
Mar	S (190°)	8.3	11.1	1971	S	47	9 Mar 2016 ³	S	80	2 Mar 1956		
Apr	SW (230°)	8.1	11.1	1959	S	52	27 Apr 1962	S	72	23 Apr 1996		
May	NW (320°)	7.9	10.7	1987	SW	37	2 May 1975	S	56	2 May 1975		
Jun	NW (320°)	8.1	11.2	1987	S	32	29 Jun 2003	W	54	13 Jun 2013		
Jul	NW (320°)	8.3	11.0	1960	S	29	12 Jul 1988	NW	59	8 Jul 2009		
Aug	NW (320°)	7.5	10.2	1960	S	40	29 Aug 2015	S	62	29 Aug 2015		
Sep	NW (320°)	6.8	9.5	1959	S	39	29 Sep 2013	S	60	16 Sep 1997 ³		
Oct	SE (120°)	7.0	9.3	1961	S	45	13 Oct 2016	S	96	12 Oct 1962		
Nov	E (100°)	8.1	11.9	1983	S	46	19 Nov 2012 ³	S	78	15 Nov 2006		
Dec	E (90°)	8.5	11.2	1977	S	55	3 Dec 2007	S	106	3 Dec 2007		
Year	----	8.0	10.0	1986	South	55 mph	3 Dec 2007 & 15 Jan 1971	South	106 mph	3 Dec 2007		

¹Normal are the 1991-2020 climate 30-year data normals.

²Sustained wind listed as the fastest mile speed in a minute, while gusts are instantaneous, usually 2 to 3 seconds.

³Most recent year of multiple occurrences

Top 5 Days with Strongest Wind Gusts (mph)

(Data 1953-2023. Due to complexity of record keeping, only have peak gust for each day)

January		February		March		April	
S 80	14 Jan 1971	S 76	13 Feb 1979	S 80	2 Mar 1956	S 72	23 Apr 1996
S 75	17 Jan 1986	S 75	12 Feb 1979	SW 76	17 Mar 2012	SW 71	27 Apr 1962
S 75	15 Jan 1971	S 72	23 Feb 1999	SW 74	9 Mar 2016	S 63	2 Apr 1988
S 74	16 Jan 2000	S 70	1 Feb 1987	S 74	2 Mar 1999	S 60	14 Apr 1963
S 73	20 Jan 1993 ³	S 69	24 Feb 1999 ³	S 71	3 Mar 1999	S 56	7 Apr 2017
May		June		July		August	
SW 56	2 May 1975	W 54	13 Jun 2013	NW 59	8 Jul 2009	S 62	29 Aug 2015
SW 54	15 May 1971	S 51	12 Jun 1994	W 46	6 Jul 2012	S 48	7 Aug 2012
S 53	19 May 2010	SW 50	29 Jun 2003	N 45	25 Jul 2006	S 46	6 Aug 1995
S 52	16 May 1971	S 46	27 Jun 2001	S 44	21 Jul 2007	S 46	29 Aug 1991
S 50	28 May 1994	S 45	11 Jun 2000	NW 41	27 Jul 2006	S 45	22 Aug 1993
September		October		November		December	
S 60	16 Sep 1997	S 96	12 Oct 1962	S 78	15 Nov 2006	S 106	3 Dec 2007
S 60	28 Sep 1962	S 77	31 Oct 1994	S 75	3 Nov 1958	S 88	2 Dec 2007
S 59	29 Sep 2013	S 74	21 Oct 1963	S 74	19 Nov 2019	S 81	9 Dec 1993
S 56	25 Sep 1988	S 72	26 Oct 1994	S 74	12 Nov 2007	S 78	14 Dec 2006
SW 51	27 Sep 2023	S 70	18 Oct 2007	S 74	25 Nov 1962	S 76	19 Dec 1994

³Most recent year of multiple occurrences.

Frequency¹ of Astoria's Wind DIRECTION, based on Time of Day

How to use this table: For May, the wind at 1600 LST (4 pm) is from the NW 20.4% of the time. Using the table from the next page, it can be seen that the average wind speed for a NW wind at that time is 13 knots, or 15 mph.

Month & Local Time		Astoria's Wind Direction																
		C A L M	N 349° to 11°	NNE 11° to 34°	NE 34° to 56°	ENE 56° to 79°	E 79° to 101°	ESE 101° to 124°	SE 124° to 146°	SSE 146° to 169°	S 169° to 191°	SSW 191° to 214°	SW 214° to 236°	WSW 236° to 259°	W 259° to 281°	WNW 281° to 304°	NW 304° to 326°	NNW 326° to 349°
J A N	07	8.2	0.8	1.1	4.1	10.8	19.4	13.8	8.3	4.3	7.1	6.8	5.0	3.8	3.6	2.2	0.8	0.2
	13	4.2	3.2	4.1	9.1	13.4	13.8	6.5	3.1	2.3	8.0	9.0	7.3	4.9	4.4	3.0	2.3	1.7
	19	10.0	0.9	0.9	3.3	9.0	15.4	10.5	8.9	6.6	8.9	7.3	6.1	4.0	4.1	2.1	0.9	0.6
F E B	07	12.3	0.7	0.8	2.9	9.6	15.6	13.7	9.4	4.9	8.0	7.1	4.8	3.2	3.8	2.2	1.2	0.2
	13	2.9	6.4	4.0	9.5	10.0	7.1	4.7	2.6	3.6	9.2	10.2	7.8	4.8	4.2	3.9	4.8	4.3
	19	11.5	1.4	1.4	2.2	7.2	11.1	9.3	7.1	5.2	9.9	7.5	7.5	5.0	5.1	3.5	3.4	1.0
M A R	07	11.4	0.6	0.4	2.0	6.01	12.7	16.7	14.2	5.5	7.1	5.8	4.7	3.6	4.7	2.5	1.7	0.5
	13	0.9	6.4	5.1	6.1	3.4	2.5	2.7	3.1	2.7	8.7	11.1	12.6	7.1	5.7	7.0	9.1	5.8
	19	7.6	1.2	0.5	2.1	2.4	4.4	3.2	6.2	6.2	11.2	9.5	10.2	6.5	9.3	9.9	7.5	2.5
A P R	07	12.4	0.4	0.5	2.5	6.5	11.3	13.4	13.6	6.3	6.6	4.0	4.1	5.3	4.8	4.3	3.0	1.1
	13	0.4	4.2	2.4	2.1	1.3	1.5	0.9	1.1	1.8	6.0	10.8	14.4	12.1	11.0	11.4	11.8	7.2
	16	0.3	0.9	0.5	0.7	1.3	1.3	0.9	0.9	0.9	7.2	9.9	14.3	13.3	13.4	15.0	16.6	3.3
	19	5.0	0.9	0.4	0.7	0.7	2.2	2.2	2.0	2.8	7.3	8.9	12.5	11.0	13.0	14.7	13.4	3.1
M A Y	07	15.2	1.6	1.2	2.5	4.6	7.7	10.8	10.7	6.8	5.3	3.7	5.4	6.0	5.0	5.6	5.8	2.1
	13	0.4	2.7	1.0	1.1	0.6	0.3	0.2	0.5	0.5	2.7	8.0	14.8	13.7	14.8	14.4	20.1	5.7
	16	0.3	0.4	0.4	0.6	0.1	0.1	0.3	0.4	0.6	3.4	6.7	14.4	12.4	16.7	20.2	20.4	3.5
	19	1.6	0.6	0.2	0.5	0.2	0.5	0.8	0.7	1.1	5.2	7.7	11.8	10.8	16.3	20.3	17.8	4.4
J U N	07	15.2	2.9	0.9	2.3	3.4	5.7	8.8	9.0	5.2	5.4	5.0	6.5	4.5	6.7	6.2	7.8	5.3
	13	0.7	1.9	0.2	0.9	0.1	0.2	0.1	0.1	0.6	2.7	7.4	16.4	13.0	13.9	16.5	18.5	7.5
	16	0.2	0.4	0.1	0.4	0.2	0.4	0	0.1	0.4	2.7	6.4	14.3	14.2	15.5	19.9	22.1	4.0
	19	1.2	0.4	0.1	0.1	0.1	0.8	0.5	0.5	1.0	4.4	7.6	12.5	10.5	15.9	21.2	19.8	4.7
J U L	07	16.6	2.6	0.5	1.3	2.4	3.3	6.7	8.9	4.6	4.9	4.2	7.4	6.3	5.8	7.5	10.8	6.6
	13	0.1	1.4	0.4	0.3	0.1	0.1	0	0	0.4	1.9	5.4	11.2	12.8	14.5	20.9	25.2	6.6
	16	0.2	0.3	0.1	0.1	0.1	0	0	0.1	0.2	2.0	4.5	11.4	11.1	16.0	24.7	25.7	4.6
	19	0.3	0.5	0	0	0.1	0.1	0	0.1	0.6	2.5	5.4	11.3	12.5	14.8	24.2	23.5	5.3
A U G	07	16.7	1.8	0.7	1.0	1.4	4.9	10.4	13.9	6.2	6.7	5.2	8.7	4.5	4.5	3.4	7.0	3.2
	13	0.3	2.8	0.6	0.8	0.1	0.3	0.1	0.2	0.5	2.6	6.9	12.9	12.7	14.2	14.5	23.3	8.2
	16	0	0.3	0	0.1	0.1	0.1	0.1	0.1	0.5	3.2	6.4	11.5	13.4	14.3	24.0	23.3	3.8
	19	1.3	0.5	0.1	0	0.1	0.5	0.3	0.7	1.3	3.8	8.7	13.7	13.6	12.8	19.6	19.7	4.5
S E P	07	16.2	0.7	0.8	1.5	3.3	9.2	15.8	17.8	8.4	6.1	4.7	4.9	2.8	2.4	2.1	1.9	1.6
	13	0.9	5.7	3.3	4.9	2.8	1.3	0.5	0.4	1.3	4.8	8.3	14.5	10.8	7.9	7.9	16.3	9.4
	16	0.9	1.6	1.3	2.1	1.3	1.3	0.4	0.5	1.0	4.2	8.7	14.1	10.7	8.9	17.5	20.9	5.0
	19	5.8	1.6	1.2	1.2	1.0	1.4	1.9	2.7	2.8	7.9	11.5	13.8	9.6	8.8	11.6	13.4	5.1
O C T	07	14.8	0.6	0.4	2.1	6.4	12.0	16.8	17.6	6.6	6.1	5.2	4.1	2.5	1.7	1.2	1.1	1.1
	13	2.9	6.5	4.8	7.4	6.0	3.7	1.9	1.2	1.9	6.0	12.4	12.3	8.1	4.8	4.5	9.2	6.9
	16	3.0	2.5	1.7	3.2	5.0	4.3	1.6	1.5	2.8	8.7	11.8	13.3	7.4	7.6	9.8	12.3	3.9
	19	13.2	1.2	1.7	3.0	2.5	4.3	7.3	11.4	8.4	10.3	8.5	8.1	4.5	4.2	4.2	5.1	2.6
N O V	07	11.0	0.6	0.9	2.8	8.1	16.1	16.0	12.9	5.7	6.6	6.0	4.4	1.9	2.9	2.2	1.3	0.2
	13	4.2	3.9	4.9	8.9	9.3	10.5	5.3	3.7	4.9	10.1	8.7	6.9	4.7	4.2	3.9	3.4	2.1
	19	10.5	0.7	0.8	3.1	7.7	12.3	13.8	11.5	7.6	8.3	7.5	4.7	4.2	3.2	2.2	1.4	0.9
D E C	07	10.3	0.5	0.8	3.6	11.3	16.5	16.5	8.6	4.6	6.9	5.8	4.5	3.4	3.5	2.6	0.7	0.2
	13	5.8	2.8	2.6	7.9	14.6	12.8	8.2	4.7	3.9	7.7	7.4	5.9	4.0	4.2	3.7	2.2	1.3
	19	9.8	0.4	0.9	3.2	9.2	15.6	14.1	10.6	6.3	7.6	6.1	5.5	3.5	3.7	2.5	0.7	0.9

¹Data based on hourly observations 1949to 1995. Values may not equal 100% due to rounding.

Frequency¹ of Astoria Wind SPEED, based on Time of Day

How to use this table: In May, at 0700 (7 am), if wind is from South (S), the average speed is 6 kt (7 mph).
At 1300 (1 pm) in November, if the wind is from the South (S), the average speed is 12 kt (14 mph).

Month & Local Time		Astoria's Wind Speed (in knots) [wind speed in mph = 1.15 x speed in knots]															
		N 349° to 11°	NNE 11° to 34°	NE 34° to 56°	ENE 56° to 79°	E 79° to 101°	ESE 101° to 124°	SE 124° to 146°	SSE 146° to 169°	S 169° to 191°	SSW 191° to 214°	SW 214° to 236°	WSW 236° to 259°	W 259° to 281°	WNW 281° to 304°	NW 304° to 326°	NNW 326° to 349°
J A N	07	4	6	7	7	7	6	6	9	15	14	12	10	9	10	9	11
	13	5	6	7	8	9	9	7	12	14	15	12	12	10	10	9	6
	19	5	8	7	8	7	7	5	7	12	13	12	10	8	10	10	5
F E B	07	5	5	8	7	6	5	6	7	12	13	11	10	9	8	10	9
	13	5	7	8	9	9	10	11	10	13	14	12	11	10	10	8	6
	19	5	6	8	7	7	6	6	7	11	12	10	8	8	8	7	10
M A R	07	5	8	6	6	5	5	5	7	12	11	10	8	9	10	10	8
	13	7	8	9	11	9	10	10	11	13	13	12	11	11	12	10	7
	19	6	9	9	8	6	6	5	7	9	10	8	6	7	9	9	9
A P R	07	4	6	5	5	5	5	5	6	8	9	9	9	7	8	9	9
	13	7	9	10	13	9	11	11	11	12	12	12	10	11	11	11	9
	16	10	8	12	11	9	10	9	12	11	12	11	10	9	11	13	11
	19	8	9	7	8	6	5	6	8	9	9	7	7	6	8	10	12
M A Y	07	5	4	5	5	4	5	5	5	6	7	7	7	7	7	8	8
	13	7	9	11	11	7	7	9	12	12	12	11	10	9	11	12	10
	16	6	7	8	15	9	8	10	13	12	11	11	10	10	12	13	12
	19	8	8	7	9	5	5	6	7	8	8	8	7	7	8	10	12
J U N	07	6	4	5	5	4	4	5	5	6	6	7	6	6	7	8	8
	13	7	14	10	9	8	6	8	11	11	11	10	10	10	11	12	11
	16	7	14	9	6	4	0	8	10	11	11	10	9	10	11	13	14
	19	9	4	9	8	4	6	6	8	8	8	8	7	7	9	11	12
J U L	07	6	8	6	5	4	4	4	5	6	6	5	5	6	6	8	8
	13	7	10	16	14	9	0	0	9	11	11	10	9	9	11	12	11
	16	5	11	12	11	0	0	8	13	9	10	10	9	9	12	14	13
	19	12	0	0	10	3	0	5	11	7	8	7	6	7	10	12	12
A U G	07	6	4	5	5	4	4	4	5	5	6	6	5	5	7	8	9
	13	7	9	10	10	6	6	5	11	11	11	10	9	8	11	11	10
	16	9	0	9	9	8	5	8	11	10	11	10	9	9	12	13	13
	19	8	8	0	10	4	5	6	7	7	7	6	6	6	9	12	12
S E P	07	5	6	8	7	5	5	4	5	6	8	6	6	5	8	8	8
	13	6	9	11	11	8	7	9	10	11	11	10	9	7	10	10	8
	16	7	9	10	9	7	10	10	8	11	11	10	8	8	11	12	11
	19	6	10	10	8	5	4	5	6	7	7	6	5	6	7	10	10
O C T	07	7	7	8	6	5	5	5	7	8	10	9	8	6	8	9	7
	13	6	7	9	9	8	8	8	11	12	12	10	8	7	9	9	7
	16	5	8	9	9	7	9	7	9	10	10	9	8	7	9	9	9
	19	7	10	9	9	5	5	5	7	7	9	7	6	6	7	9	9
N O V	07	7	8	7	7	6	5	6	7	13	14	12	9	7	12	13	8
	13	5	6	7	8	8	9	8	11	12	14	11	9	10	11	9	7
	19	6	7	9	7	6	5	5	8	12	13	12	9	9	11	11	7
D E C	07	5	6	9	7	7	6	6	8	12	14	11	10	10	11	13	6
	13	5	5	8	8	8	9	8	10	14	14	13	10	10	11	9	8
	19	4	6	8	8	7	6	6	8	12	13	11	10	10	10	11	8

¹Data based on hourly observations between 1948 and 1995.

Frequency of Astoria's Wind DIRECTION¹, based on Weather Conditions

Using this chart: Each direction totals ~100%. Within that direction are the frequencies (%) of weather (- indicates less than 1%).

Example: In January, when wind is from the south (S), it rains 28% of the time, but has no weather occurring 62% of time.

		Calm	VRB	N 349° to 11°	NNE 11° to 34°	NE 34° to 56°	ENE 56° to 79°	E 79° to 101°	ESE 101° - 124°	SE 124° - 146°	SSE 146° - 169°	S 169° - 191°	SSW 191° - 214°	SW 214° - 236°	WSW 236° - 259°	W 259° - 281°	WNW 281° - 304°	NW 304° - 326°	NNW 326° - 349°
J A N U A R Y	RA	32	44	9	13	13	13	16	15	14	17	28	26	23	19	14	12	15	31
	RW	4	6	3	5	4	3	3	4	5	3	4	7	8	8	8	12	10	10
	DZ	5	3	3	6	2	3	2	2	2	2	2	4	3	4	5	2	1	3
	FZRA	0	0	0	0	0	0.5	0.4	0.4	0.4	0.1	0.1	0	0	0	0	0	0	0
	SN	2	0.3	1	0	2	4	3	2	2	2	1	1	1	2	1	3	2	2
	TS	0	0.3	0	0	0	0	0.1	0	0.1	0	0.1	0.1	0.1	0.2	0.2	0.2	0.5	0
	FG	26	22	13	20	12	10	11	9	10	8	14	17	18	17	12	10	6	14
	MIFG	4	-	0	1	0	-	1	1	2	1	-	-	-	-	-	-	0	1
	None	48	44	78	70	77	75	72	73	73	73	62	58	61	61	67	68	72	54
F E B R U A R Y	RA	24	42	7	4	6	15	13	14	15	16	27	29	19	17	10	12	11	30
	RW	6	10	4	2	3	2	4	5	6	6	6	8	7	7	11	11	8	7
	DZ	5	2	3	3	2	1	2	1	1	1	1	3	5	2	2	3	1	2
	FZRA	0	0	0	0	0	0.3	0.1	0	0.2	0	0.3	0	0	0	0	0	0	0
	SN	0.4	0.3	0	0	1	1	1	1	1	1	-	1	-	1	1	1	1	1
	TS	0	0.3	0	0	0	0	0.1	0	0.1	0	0	0.1	0	0.1	0	0	0	0.2
	FG	23	20	9	9	5	7	9	7	8	8	12	15	18	11	10	9	7	11
	MIFG	5	0	2	-	1	-	1	2	2	1	-	1	-	1	1	1	1	-
	None	55	45	81	85	86	78	76	74	72	73	62	57	64	69	72	69	75	58
M A R C H	RA	21	35	3	5	7	10	14	17	17	17	28	24	16	11	10	14	11	25
	RW	6	13	2	3	4	3	3	5	6	8	10	12	11	10	10	10	8	8
	DZ	2	2	1	1	1	2	2	1	1	1	2	3	3	2	2	2	1	-
	SN	0.5	0.5	0	-	-	1	2	-	-	-	-	-	1	1	1	1	1	0
	TS	0	0	0	0	0	0	0	0.1	0	0	0	0.2	0.1	0	0.1	0	0	0
	FG	14	14	5	6	6	8	7	8	6	6	12	13	13	8	8	8	5	9
	MIFG	1	0	0	0	-	1	1	1	2	2	-	-	-	1	-	-	-	0
	None	65	50	91	87	85	83	74	71	72	70	57	58	64	73	72	71	76	65
	None	65	50	91	87	85	83	74	71	72	70	57	58	64	73	72	71	76	65
A P R I L	RA	19	36	5	4	6	8	11	16	11	17	26	27	13	12	8	8	6	14
	RW	5	10	2	3	3	2	5	4	6	7	6	8	9	8	8	10	6	6
	DZ	3	1	1	1	-	2	2	1	1	-	2	3	2	1	2	1	1	1
	TS	0	0	0	0	0	0	0	0	0.2	0	0	0.2	0.1	0	0.1	0	0	0.5
	FG	13	13	3	7	7	5	9	5	7	5	11	17	10	9	7	4	4	6
	MIFG	2	0	-	0	0	-	2	4	5	1	-	-	-	-	-	-	-	-
	None	67	53	90	87	86	85	77	73	73	73	64	59	72	75	78	79	85	77
M A Y	RA	12	24	2	5	5	8	9	11	10	12	14	14	8	6	4	4	4	9
	RW	5	7	2	2	2	2	3	4	5	5	11	10	7	6	5	8	4	5
	DZ	2	4	1	1	1	0	3	1	2	2	2	3	4	2	2	3	1	2
	TS	0	0	0	0	0	0	0	0.2	0	0.2	0	0.1	0.3	0	0.1	0.1	0	0
	FG	10	14	3	1	4	4	4	4	5	6	6	8	7	5	3	3	3	5
	MIFG	2	0	0	0	0	0	-	2	3	1	-	-	0	1	-	-	-	0
	None	75	65	94	93	89	89	82	80	78	79	71	71	79	83	87	85	90	83
J U N E	RA	13	18	2	1	8	3	15	13	7	12	18	17	9	9	4	4	3	6
	RW	3	5	2	3	1	0	2	5	6	6	9	12	9	6	5	4	3	3
	DZ	5	4	3	0	1	1	2	3	1	3	3	5	7	4	4	3	2	4
	TS	0	0	0	0	0.6	0	0	0	0	0	0.2	0.2	0.2	0	0	0	0	0
	FG	12	9	3	4	4	3	9	8	4	6	13	11	11	8	5	5	3	6
	MIFG	1	0.4	0	0	0	0	3	4	4	3	0	0	-	-	-	-	-	0
	None	73	70	92	93	88	95	74	74	80	74	67	63	71	78	85	87	90	87

Example: In December, best threat of freezing rain occurs with a south (S) wind (freezing rain/drizzle occurs 0.5% of time when wind is southerly. In fact, the threat of freezing rain is only when winds are east to south to southwest.

		Calm	VRB	N 349° to 11°	NNE 11° to 34°	NE 34° to 56°	ENE 56° to 79°	E 79° to 101°	ESE 101° - 124°	SE 124° - 146°	SSE 146° - 169°	S 169° - 191°	SSW 191° - 214°	SW 214° - 236°	WSW 236° - 259°	W 259° - 281°	WNW 281° - 304°	NW 304° - 326°	NNW 326° - 349°
J U L Y	RA	7	10	0	2	0	6	9	5	3	7	10	12	5	3	2	1	1	2
	RW	3	6	1	2	0	2	3	1	3	4	7	8	4	4	3	1	1	2
	DZ	6	8	4	0	0	0	0	0	2	3	5	10	9	5	6	5	3	4
	TS	0.1	0.5	0	0	0	0	0	0	0.3	0.6	0	0.1	0	0.1	0.1	0	0	0.2
	FG	14	16	2	1	3	6	8	4	4	4	10	17	13	8	8	4	2	3
	MIFG	1	0	0	0	0	2	2	3	5	1	1	0	0	1	0	0	0	0
	None	77	70	94	95	97	90	84	89	84	83	72	65	77	84	85	90	95	91
A U G U S T	RA	5	7	0	0	0	5	11	9	4	5	6	9	4	3	3	2	1	3
	RW	3	4	1	0	2	0	3	4	4	3	7	5	4	3	2	1	1	1
	DZ	5	8	0	0	0	1	1	2	1	2	5	9	8	6	5	4	3	4
	TS	0.1	0	0.3	0	0	0	0	0	0	0.2	0.2	0	0.1	0	0.1	0	0.1	0
	FG	21	16	1	2	4	5	7	11	9	6	16	16	17	13	12	10	4	6
	MIFG	2	0	0	0	0	0	1	5	6	4	1	0	0	1	0	0	0	0
	None	70	73	97	98	94	91	79	74	78	82	72	70	75	81	83	86	92	90
S E P T E M B E R	RA	7	13	1	0	1	4	5	7	4	6	14	13	6	3	2	3	2	5
	RW	2	4	1	1	1	2	1	3	3	3	5	6	4	3	2	2	2	4
	DZ	3	3	1	0	0	0	1	1	1	1	3	1	3	2	2	2	2	3
	TS	0.3	0.4	0.5	0	0	0.3	0.2	0	0.2	0.2	0.2	0.2	0.1	0.1	0	0	0.1	0.1
	FG	18	18	3	3	3	4	6	9	7	10	13	12	16	13	12	9	7	8
	MIFG	4	1	0	0	0	0	1	3	8	4	1	1	1	1	1	0	1	0
	None	70	70	94	95	95	92	88	82	79	79	70	73	75	80	84	86	87	82
O C T O B E R	RA	13	30	1	1	3	5	7	11	9	10	17	22	13	5	5	6	7	16
	RW	4	8	2	1	1	2	2	3	5	5	8	8	6	4	5	5	4	5
	DZ	5	6	1	0	0	1	1	1	1	1	2	2	2	2	1	1	1	2
	TS	0	0	0	0	0	0	0	0	0.4	0.2	0.2	0.1	0.2	0.3	0.4	0.2	0	0
	FG	18	22	5	6	3	5	9	10	9	13	14	20	18	15	13	16	11	14
	MIFG	5	0	1	0	1	1	1	2	6	4	1	1	2	3	1	1	0	0
	None	64	53	90	91	94	89	84	77	74	71	65	58	67	73	76	72	80	70
N O V E M B E R	RA	23	42	9	9	7	10	12	17	13	17	23	28	21	15	16	16	20	33
	RW	5	5	3	5	1	2	3	3	4	6	7	7	7	7	6	11	9	9
	DZ	3	0	1	0	2	1	2	1	1	2	2	2	3	1	1	1	2	0
	FZRA	0	0	0	0	0	0	0.1	0.1	0.1	0	0	0	0	0	0	0	0	0
	SN	0	0	0	0	-	1	-	1	1	-	-	-	-	-	-	1	1	-
	TS	0.3	0.2	0.6	0	0	0	0.1	0.1	0	0	0.1	0.5	0.1	0	0.3	0.1	0	0.4
	FG	24	18	7	11	10	9	9	9	8	9	13	17	18	14	12	9	8	12
	MIFG	5	0	0	1	1	1	1	2	2	2	1	1	1	1	1	0	0	0
	None	54	51	83	82	84	81	78	73	75	70	63	57	62	67	69	66	66	56
D E C E M B E R	RA	25	44	12	14	13	11	13	15	15	18	23	29	24	16	14	15	20	29
	RW	4	10	4	6	5	2	2	2	4	4	5	5	6	8	11	12	11	11
	DZ	4	2	9	4	3	3	3	3	2	2	2	3	4	2	1	1	1	3
	FZRA	0	0	0	0	0	0	0.2	0.4	0.2	0.3	0.5	0.2	0.1	0.1	0.2	0	0	0
	SN	0.2	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	2
	TS	0.1	0.6	0	0	0	0	0	0	0.1	0	0.1	0	0.2	0.2	0.5	0.3	0	0.3
	FG	26	22	20	19	16	11	11	11	10	11	14	20	18	12	10	10	10	16
	MIFG	6	0	1	0	1	1	2	2	3	2	1	1	0	1	1	0	0	0
	None	54	43	69	71	73	79	76	74	70	69	63	58	60	68	67	66	64	54

¹VRB is variable (less than 3 mph). A - is near zero. Based on 1948-1995 observational data.

Numbers total may not equal 100%, as not all weather was included (such as blowing snow, hail, dust, smoke and haze).

Fog Data at Astoria 1953 through 2021

Days per Month and Consecutive Days with Dense Fog (Dense Fog defined as that which reduces horizontal visibility to 1/4 of mile or less)

Month	Number of Days per Month ¹					Consecutive Days ^{1,4}	
	Normal ²	Most	Year	Least	Year	Most	Dates
January	4	12	2015	0	1995 ³	4	2015 (28-31 Jan) ³
February	3	9	2008	0	2007 ³	5	1995 (3-7 Feb) ³
March	3	9	1992	0	1971 ³	4	1993 (23-26 Mar)
April	2	7	1985	0	2013 ³	2	2015 (17-18 Apr) ³
May	1	6	1966	0	2012 ³	2	2015 (8-9 May) ³
June	1	4	1982 ³	0	2014 ³	2	2004 (19-20 Jun) ³
July	2	7	2003	0	2014 ³	4	2009 (24-27 Jul) ³
August	4	8	1967	0	1994 ³	4	2006 (25-28 Aug) ³
September	6	15	1974	1	1991	5	2011 (6-10 Sep)
October	6	16	1974	1	2012	8	1974 (12-19 Oct)
November	4	15	2004	0	1988 ³	6	1980 (19-24 Nov)
December	3	12	1962 ³	0	2010 ³	7	1962 (17-23 Dec)
Annual	40	61	2011	26	2006	8	1974 (12-19 Oct)

¹Normal is from 1981-2010 data

²Annual total may not equal sum of months due to rounding of monthly values.

³Last year of multiple occurrences listed.

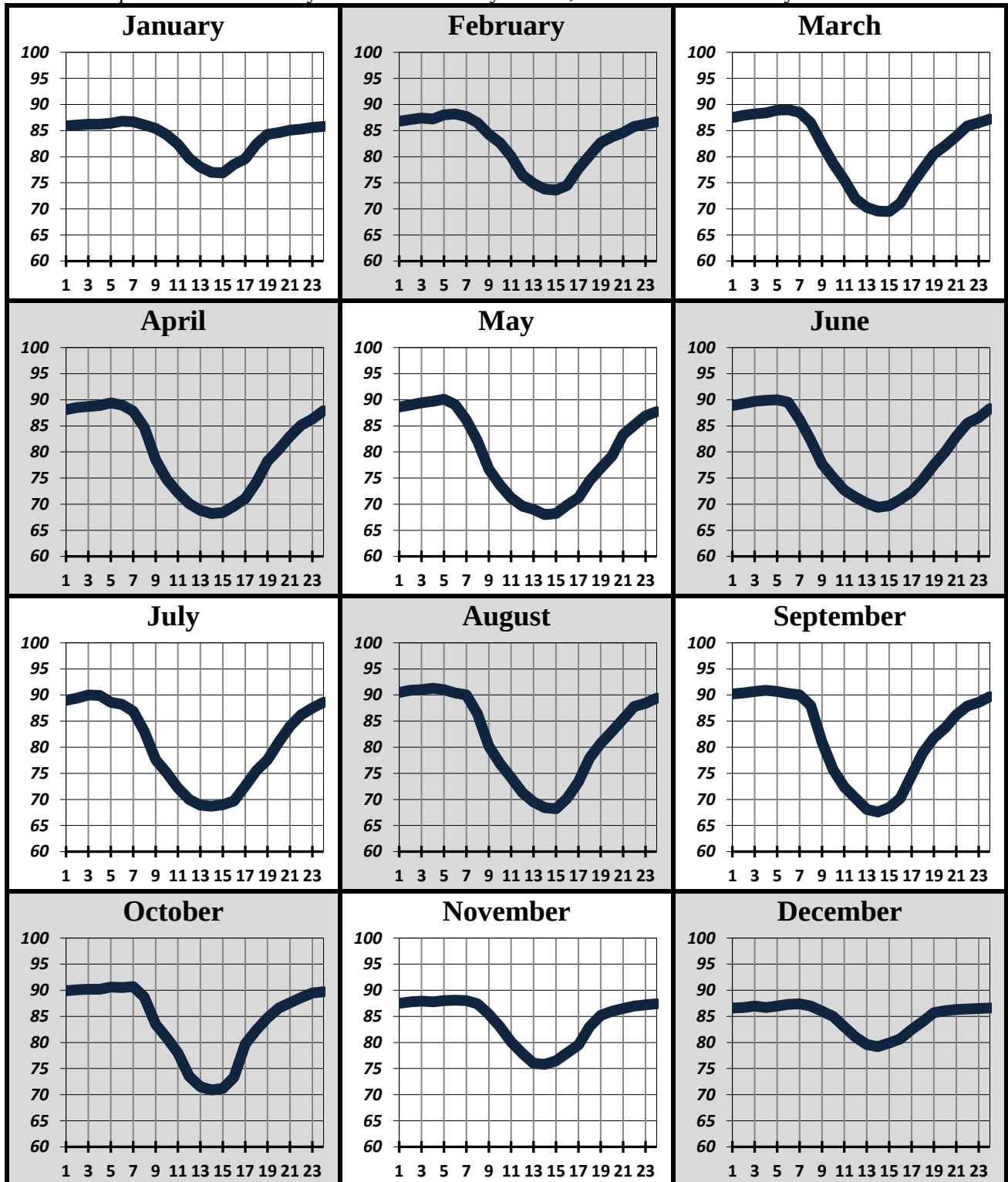
Most Consecutive Days⁴ with Dense Fog

8 days	1974	12 th – 19 th October
7 days	1962	17 th – 23 rd December
6 days	2013	14 th – 19 th December
6 days	1988	5 th – 10 th October
6 days	1980	19 th – 24 th November
5 days	2015	28 th January – 1 February
5 days	2011	6 th – 10 th September
5 days	1995	3 rd – 7 th February
5 days	1993	28 th September – 2 nd October
5 days	1978	19 th – 23 rd February
5 days	1959	3 rd – 7 th December
5 days	1956	5 th – 9 th February
3-4 days common occurrence during late summer through winter		

⁴Fog only needs to occur on the day, and may not necessarily last the entire day.

ASTORIA: Normal Hourly Humidity (%) Curves, by Month¹

Example: normal humidity at 10 am in January is 85%, while same time in July it is 70-75%.



¹Time is local standard time.

Observed Weather Type Frequency¹

Astoria's hourly observations (1948-1995, pre-ASOS data) were categorized into groups of time. For example, at 10 am in January, snow was observed 2.3% of time, with rain 32% of the time, and fog 21% of the time. Overall, at 10 am in January, there was an obstruction to visibility 21% of the time.

FG	Fog	RA	Rain and/or Drizzle
SN	Snow and/or Sleet	TS	Thunderstorms
VO	Any obstruction to visibility, including rain, fog, snow, smoke, and blowing snow		

Hour	VO	FG	RA	SN	TS	VO	FG	RA	SN	TS	VO	FG	RA	SN	TS
	January					February					March				
1 am	19	19	32	1.4	0.1	16	16	27	0.6	0	11	11	25	0.5	0.1
4 am	19	19	33	1.5	0	17	17	31	0.7	0	16	16	28	0.5	0
7 am	19	18	31	2.3	0.1	19	19	32	0.8	0.1	16	6	27	0.8	0
10 am	21	21	32	2.3	0.1	17	17	29	0.7	0.1	10	10	26	0.6	0
1 pm	19	19	31	2.1	0	14	13	28	0.5	0	7	7	25	0.4	0.1
4 pm	18	18	33	1.8	0.1	14	14	30	0.6	0.1	9	9	26	0.4	0
7 pm	18	18	32	1.9	0.1	13	13	28	0.4	0.1	9	9	24	0.3	.01
10 pm	18	18	30	1.4	0.1	15	14	28	0.7	0	9	9	26	0.2	0
	April					May					June				
1 am	9	10	22	0	0.2	7	7	17	0	0	9	9	16	0	0.2
4 am	13	13	25	0.1	0	11	11	20	0	0	13	13	19	0	0.1
7 am	15	15	25	0.1	0	11	11	19	0	0	13	13	18	0	0.1
10 am	7	7	21	0	0.1	5	5	17	0	0	5	5	16	0	0
1 pm	5	5	20	0.1	0.1	4	4	14	0	0	3	3	11	0	0
4 pm	5	5	18	0	0.1	4	4	13	0	0	5	5	13	0	0
7 pm	8	7	19	0	0.2	5	5	13	0	0.3	5	5	13	0	0.1
10 pm	7	7	20	0	0	4	4	15	0	0	7	7	13	0	0
	July					August					September				
1 am	10	10	13	0	0.1	16	16	12	0	0.1	18	18	10	0	0
4 am	15	15	16	0	0.1	22	22	14	0	0	22	22	13	0	0.3
7 am	16	16	17	0	0	22	23	15	0	0.1	24	24	11	0	0.1
10 am	4	4	10	0	0.2	8	8	10	0	0.1	10	10	9	0	0.1
1 pm	2	2	6	0	0.1	3	3	7	0	0.1	5	4	10	0	0.1
4 pm	2	2	6	0	0.1	4	4	7	0	0.1	6	6	8	0	0
7 pm	4	4	7	0	0	7	7	8	0	0	8	8	11	0	0.2
10 pm	7	7	10	0	0	10	10	9	0	0	12	11	11	0	0.1
	October					November					December				
1 am	21	21	18	0	0.1	16	16	27	0.2	0.1	17	18	29	0.6	0
4 am	24	24	18	0	0.3	17	17	28	0.2	0.2	17	17	30	0.7	0
7 am	27	27	19	0	0.1	20	20	26	0.4	0.1	18	18	30	1.1	0.1
10 am	15	14	17	0	0.1	17	17	25	0.3	0.1	19	19	31	1.1	0.1
1 pm	9	9	16	0	0.1	12	12	29	0.2	0.1	16	16	31	1.0	0.2
4 pm	10	9	17	0	0.1	13	12	27	0.3	0.1	17	17	33	1.4	0.1
7 pm	12	11	17	0	0.1	13	12	27	0.4	0.2	18	18	31	1.1	0.3
10 pm	15	14	16	0.1	0.4	15	15	28	0.2	0.2	17	17	30	1.1	0.3

¹Total percentages may not add to 100% due to rounding.

Also, not all weather listed, such as smoke and freezing rain, hail, blowing snow and blowing dust.

Sky Condition (Sunrise to Sunset) Data at Astoria Airport

Average², Least (-) and Most (+) Number of Days per Month
 Period of Record: 1953-May 2015. Averages based on 1961-1990 data

	Clear Skies (clouds covering 0-20% of sky)					Partly Cloudy Skies (clouds cover 30-70% of sky)				
	Avg	-	Year	+	Year	Avg	-	Year	+	Year
JAN	3	0	1986 ¹	12	2015	4	1	1983 ¹	11	1985
FEB	3	0	1978 ¹	12	1968	3	0	1987	8	2015
MAR	3	0	2011 ¹	9	2015 ¹	5	0	1961	14	2015
APR	3	0	1969 ¹	13	2015	6	2	1969 ¹	14	2015
MAY	3	0	1967 ¹	10	2014	8	2	1962	13	1979 ¹
JUN	3	0	1971 ¹	10	1961	7	2	1999	15	1985
JUL	6	2	1989 ¹	13	1988	10	4	2004	16	1960
AUG	6	0	1980	14	1996 ¹	10	5	2013 ¹	15	2014
SEP	8	1	1978	15	1998 ¹	8	3	1971	13	2003
OCT	5	0	1990 ¹	12	1974	7	3	1992 ¹	11	2014 ¹
NOV	3	0	1988 ¹	11	2014	5	1	1996 ¹	9	1967
DEC	3	0	1974 ¹	8	2014 ¹	4	1	1991 ¹	9	1978 ¹
Clear Days					Partly Cloudy Days					
Year ³	50	35	1980	94	2014	77	61	1971	108	1985

	Cloudy Skies (clouds cover 80-100% of sky)					Entire Year (January to December)		
	Avg	-	Year	+	Year	Cloudiest		
						Rank	Year	Cloudy Days
JAN	24	12	2015	30	1967			
FEB	22	12	2015	27	1984 ¹	1	1958	257 days
MAR	23	9	2015	30	1961	2	1990	256
APR	21	3	2015	28	1969	3	1971	252
MAY	20	12	2001	29	1962	4	1963	252
JUN	19	12	1985 ¹	25	1959	5	1988	251
JUL	15	6	1984	22	1993	6	1959	251
AUG	15	7	1958 ¹	24	1954	7	1960	250
SEP	15	7	2003	22	1986	8	1984	249
OCT	19	9	1974	26	1984	9	1961	249
NOV	22	14	2014	27	1965	10	1983	247
DEC	24	17	1985	29	1991	11	1980	247
Cloudy Days								
Year ³	239	168	2014	257	1958			

¹Multiple occurrences with the same number, with the year of most recent occurrence listed.

²Averages are rounded to nearest whole number.

³Annual Averages is calculated using the entire year of data, and is not the same as adding the totals from each month.

Astoria's Cloud Cover Frequency

Astoria's hourly observations (1948-1995 data) were categorized into groups of coverage and time. Cloud cover coverage is either clear, scattered or broken clouds, or overcast. For example, at 10 am in January, 5.2% of the time it was clear, but 72.9% of the time, skies were overcast.

CLR	clear skies	<i>clear</i>	less than 10% of sky is covered by clouds
SCT	scattered clouds	<i>partly cloudy</i>	10% to 60% of sky is covered by clouds
BKN	broken clouds	<i>mostly cloudy</i>	60% to 90% of sky is covered by clouds
OVC	overcast	<i>cloudy</i>	more than 90% of sky is covered by clouds

LST Hour	CLR	SCT	BKN	OVC	CLR	SCT	BKN	OVC	CLR	SCT	BKN	OVC
	January				February				March			
1 am	15%	11%	10%	64%	16%	12%	12%	60%	16%	15%	11%	59%
4 am	15	10	11	64	15	12	11	63	14	12	13	61
7 am	11	12	14	63	10	11	16	63	6	11	20	63
10 am	7	10	16	67	8	10	16	65	7	11	20	62
1 pm	7	8	16	68	8	11	19	63	6	13	21	60
4 pm	7	10	18	67	7	11	19	63	6	13	23	58
7 pm	11	12	11	65	11	16	15	58	9	17	19	56
10 pm	13	14	11	62	15	14	12	60	17	15	13	56
All Day	11	11	14	65	11	12	15	62	10	13	17	59
	April				May				June			
1 am	15%	14%	15%	56%	16%	13%	13%	58%	14%	15%	13%	60%
4 am	12	13	15	61	9	13	18	60	7	12	15	66
7 am	7	10	20	63	7	10	20	63	5	9	15	71
10 am	7	12	24	58	7	14	25	55	7	13	21	59
1 pm	6	17	24	54	7	20	27	46	10	18	26	46
4 pm	7	18	22	53	9	22	25	45	12	21	25	53
7 pm	8	18	22	52	9	21	23	47	11	20	19	50
10 pm	15	18	16	52	17	17	16	50	13	20	14	54
All Day	9	15	20	56	10	16	21	53	10	16	19	56
	July				August				September			
1 am	20%	11%	9%	59%	20%	13%	11%	57%	28%	16%	10%	45%
4 am	12	10	12	67	13	12	10	65	26	14	13	48
7 am	10	8	13	70	7	10	13	69	15	14	17	54
10 am	14	13	17	56	12	17	16	54	19	19	19	43
1 pm	21	20	22	37	19	22	24	36	21	22	20	37
4 pm	25	23	21	31	23	24	21	32	22	24	19	35
7 pm	22	25	15	38	20	25	18	38	22	24	16	38
10 pm	24	19	10	47	24	20	9	47	32	17	12	39
All Day	18	16	15	51	17	18	15	50	23	19	16	42
	October				November				December			
1 am	22%	16%	11%	50%	14%	12%	15%	59%	12%	14%	11%	63%
4 am	19	16	11	54	14	13	11	62	12	12	11	65
7 am	10	16	18	57	8	12	20	60	9	11	16	64
10 am	12	16	18	54	7	11	19	62	6	9	18	67
1 pm	13	19	20	49	7	12	20	62	6	10	18	66
4 pm	14	19	21	47	7	12	19	61	5	11	19	65
7 pm	18	20	15	47	12	14	13	62	10	13	13	63
10 pm	22	16	13	49	14	14	11	62	13	13	12	62
All Day	16	17	16	51	10	13	16	61	9	12	15	64

ASTORIA: Selected Holiday & Significant Day Weather Statistics (1887-2023)

New Year's Day			Frequency of Max T (total days and percentage)					Frequency Rain	
	Max T		≤ 32	in 30s	in 40s	in 50s	≥ 60	Days	as %
Averages	Min T	36°	3	12	69	51	1	94	69 %
	Rain	0.38"	2 %	9 %	51 %	37 %	1 %	(days w ≥ 0.01")	
warmest Max T	60°		1981			wettest	2.35"	1936	
coolest Max T	29°		1924			driest	0.00"	2022 (last of many)	
coldest morning	14°		1979			snowiest	10.0"	1928	

Valentine's Day			Frequency of Max T (total days and percentage)					Frequency Rain	
	Max T		≤ 32	in 30s	in 40s	in 50s	≥ 60	Days	as %
Averages	Min T	37°	0	4	61	64	6	98	72 %
	Rain	0.30"	0 %	3 %	45 %	48 %	4 %	(days w ≥ 0.01")	
warmest Max T	64°		1934			wettest	1.44"	1960	
coolest Max T	38°		1936			driest	0.00"	2015 (last of many)	
coldest morning	22°		1990			snowiest	1.7"	1980	

April Fool's Day			Frequency of Max T (total days and percentage)					Frequency Rain	
	Max T		≤ 39	in 40s	in 50s	in 60s	≥ 70	Days	as %
Averages	Min T	40°	0	19	98	17	2	89	65 %
	Rain	0.26"	0 %	14 %	72 %	13 %	1 %	(days w ≥ 0.01")	
warmest Max T	75°		1944			wettest	2.37"	1901	
coolest Max T	43°		1936			driest	0.00"	2021 (last of many)	
coldest morning	29°		1953			snowiest	0.9"	1936	

Easter Sunday			Frequency of Max T (total days and percentage)					Frequency Rain	
	Max T		≤ 49	in 50s	in 60s	in 70s	≥ 80	Days	as %
Averages	Min T	41°	14	94	23	5	0	92	68 %
	Rain	0.23"	10 %	69 %	17 %	4 %	0 %	(days w ≥ 0.01")	
warmest Max T	73°		11 Apr 2004 (+1964)			wettest	1.65"	17 Apr 1938	
coolest Max T	45°		4 Apr 1999 (+1913)			driest	0.00"	2021 (last of many)	
coldest morning	32°		1 Apr 1945 (+1921)			snowiest	-	-	

Mother's Day			Frequency of Max T (total days and percentage)					Frequency Rain	
	Max T		≤ 49	in 50s	in 60s	in 70s	≥ 80	Days	as %
Averages	Min T	45°	0	67	54	8	7	62	46 %
	Rain	0.08"	0 %	49 %	40 %	6 %	5 %	(days w ≥ 0.01")	
warmest Max T	93°		14 May 2023			wettest	0.73"	8 May 1983	
coolest Max T	50°		12 May 1968			driest	0.00"	2023 (last of many)	
coldest morning	31°		12 May 1985			snowiest	-	-	

Memorial Day			Frequency of Max T (total days and percentage)					Frequency Rain	
	Max T		≤ 49	in 50s	in 60s	in 70s	≥ 80	Days	as %
Averages	Min T	48°	0	40	83	12	1	70	51 %
	Rain	0.11"	0 %	29 %	61 %	9 %	1 %	(days w ≥ 0.01")	
warmest Max T	82°		30 May 1887			wettest	1.11"	27 May 2013	
coolest Max T	53°		31 May 1971			driest	0.00"	2021 (last of many)	
coldest morning	38°		30 May 1973			snowiest	-	-	

ASTORIA: Selected Holiday & Significant Day Weather Statistics (1887-2023)

Father's Day			Frequency of Max T (total days and percentage)					Frequency Rain	
Averages	Max T	65°	≤ 49	in 50s	in 60s	in 70s	≥ 80	Days	as %
	Min T	51°	0	13	98	23	1	57	42 %
	Rain	0.09"	0 %	10 %	72 %	17 %	1 %	(days w ≥ 0.01")	
warmest Max T	80°	15 Jun 1930				wettest	1.02"	20 Jun 1948	
coolest Max T	57°	21 Jun 1998, 1913				driest	0.00"	2021 (last of many)	
coldest morning	38°	19 Jun 1955				snowiest	-	-	

4 th of July			Frequency of Max T (total days and percentage)					Frequency Rain	
Averages	Max T	67°	≤ 49	in 50s	in 60s	in 70s	≥ 80	Days	as %
	Min T	52°	0	2	102	27	4	43	32 %
	Rain	0.04"	0 %	1 %	75 %	20%	3 %	(days w ≥ 0.01")	
warmest Max T	84°	1975, 1889				wettest	0.58"	1902	
coolest Max T	59°	2006, 1998				driest	0.00"	2023 (last of many)	
coldest morning	45°	2012 (last of many)				snowiest	-	-	

Labor Day Monday			Frequency of Max T (total days and percentage)					Frequency Rain	
Averages	Max T	69°	≤ 49	in 50s	in 60s	in 70s	≥ 80	Days	as %
	Min T	52°	0	3	74	44	6	38	29 %
	Rain	0.10"	0 %	2 %	57 %	36 %	5 %	(days w ≥ 0.01")	
warmest Max T	91°	4 Sep 2017				wettest	1.83"	3 Sep 1979	
coolest Max T	59°	1964, 1945, 1910				driest	0.00"	2023 (last of many)	
coldest morning	38°	7 Sep 1992				snowiest	-	-	

Halloween			Frequency of Max T (total days and percentage)					Frequency Rain	
Averages	Max T	57°	≤ 39	in 40s	in 50s	in 60s	≥ 70	Days	as %
	Min T	44°	0	7	95	33	1	84	62 %
	Rain	0.34"	0 %	5 %	70 %	24 %	1 %	(days w ≥ 0.01")	
warmest Max T	70°	1954				wettest	3.45"	31 Oct 1994	
coolest Max T	44°	1955				driest	0.00"	2023 (last of many)	
coldest morning	29°	2020, 2006, 2002				snowiest	-	-	

Thanksgiving Day			Frequency of Max T (total days and percentage)					Frequency Rain	
Averages	Max T	52°	≤ 32	in 30s	in 40s	in 50s	≥ 60	Days	as %
	Min T	39°	0	2	38	87	8	89	65 %
	Rain	0.46"	0 %	1 %	28 %	64 %	6 %	(days w ≥ 0.01")	
warmest Max T	68°	28 Nov 1907				wettest	5.00"	24 Nov 1927	
coolest Max T	33°	28 Nov 1985				driest	0.00"	2023 (last of many)	
coldest morning	24°	26 Nov 1896				snowiest	Trace	1975, 1948	

Christmas Day			Frequency of Max T (total days and percentage)					Frequency Rain	
Averages	Max T	48°	≤ 32	in 30s	in 40s	in 50s	≥ 60	Days	as %
	Min T	37°	0	5	72	56	1	101	74 %
	Rain	0.39"	0 %	4 %	54 %	41 %	1 %	(days w ≥ 0.01")	
warmest Max T	63°	1980				wettest	3.30"	1898	
coolest Max T	35°	1990				driest	0.00"	2019 (last of many)	
coldest morning	16°	1924				snowiest	3.2"	1916	

Daily Normals Recap**Tx** is max temperature, **Tn** is minimum temperature, and **P** is precipitation (*in hundredths*)

JAN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Tx	48	49	49	49	49	49	49	49	49	49	49	49	49	49	49	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Tn	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
P	36	37	36	36	36	36	37	36	36	35	35	34	34	34	36	35	36	36	35	34	34	32	33	32	32	32	31	31	30	31	31

FEB	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	--	--	--
Tx	50	50	50	50	50	50	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	52	52	52	52	52			
Tn	38	38	38	38	38	38	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	38	38	38	38				
P	28	27	27	27	28	27	27	27	27	28	27	26	24	25	24	24	25	24	25	24	23	24	24	24	25	26	25	26			

MAR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Tx	52	52	52	52	52	52	52	52	53	53	53	53	53	53	53	53	53	53	53	53	53	53	54	54	54	54	54	54	54	54	54
Tn	38	38	38	38	38	38	38	38	38	39	39	39	39	39	39	39	39	39	39	39	40	40	40	40	40	40	40	40	40	40	40
P	28	27	27	27	26	26	26	26	26	26	25	26	27	26	27	26	26	25	25	25	26	25	26	25	25	24	24	23	23	23	23

APR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	--
Tx	54	54	54	54	55	55	55	55	55	55	55	55	55	56	56	56	56	56	56	56	57	57	57	57	57	57	58	58	58	58	
Tn	40	40	40	40	41	41	41	41	41	41	41	41	41	41	41	41	42	42	42	42	42	42	42	42	43	43	43	43	43	43	
P	23	23	22	22	23	21	21	21	22	21	20	21	20	20	19	20	19	20	19	19	18	18	17	17	17	16	16	16	15	14	

MAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Tx	58	59	59	59	59	59	59	60	60	60	60	60	60	60	61	61	61	61	61	61	61	61	62	62	62	62	62	62	62	62	62
Tn	44	44	44	44	44	45	45	45	45	45	45	46	46	46	46	46	47	47	47	47	47	47	48	48	48	48	48	49	49	49	49
P	14	13	14	13	13	13	12	12	12	11	11	11	11	11	11	11	10	11	9	10	10	10	9	10	10	10	9	10	10	10	9

JUN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	--
Tx	62	63	63	63	63	63	63	63	63	63	63	64	64	64	64	64	64	64	64	65	65	65	65	65	65	65	65	66	66	66	
Tn	49	49	49	49	49	50	50	50	50	50	50	50	50	50	51	51	51	51	51	51	51	51	52	52	52	52	52	52	52	52	
P	10	10	10	9	10	9	9	9	9	9	9	8	8	8	9	7	8	8	7	7	7	7	6	6	6	5	6	5	4	5	

JUL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Tx	66	66	66	66	67	67	67	67	67	67	67	67	67	67	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
Tn	52	53	53	53	53	53	53	53	53	54	54	54	54	54	54	54	54	54	54	54	54	55	55	55	55	55	55	55	55	55	55
P	4	4	3	4	3	4	3	3	4	3	3	2	3	2	3	2	3	2	2	2	3	2	2	2	2	2	3	2	2	2	2

AUG	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Tx	68	68	68	68	68	68	68	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69
Tn	55	55	55	55	55	55	55	55	54	54	54	54	54	54	54	54	54	54	54	54	54	54	53	53	53	53	53	53	53	53	53
P	2	3	2	2	2	3	2	3	3	2	3	3	4	3	4	3	4	4	4	5	4	4	4	4	5	4	5	5	5	6	5

SEP	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	--
Tx	69	69	69	69	69	69	69	69	69	69	69	68	68	68	68	68	68	68	67	67	67	67	66	66	66	66	65	65	65	65	
Tn	53	53	52	52	52	52	52	52	52	52	51	51	51	51	51	51	50	50	50	50	50	49	49	49	49	49	48	48	48	48	
P	6	6	6	7	7	7	6	7	7	7	8	7	8	8	8	9	8	10	9	10	10	10	11	10	12	12	12	12	14	13	

OCT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Tx	65	64	64	64	64	63	63	63	63	62	62	62	61	61	61	61	60	60	60	60	59	59	59	59	58	58	58	58	57	57	57
Tn	48	48	47	47	47	47	47	46	46	46	46	46	45	45	45	45	45	44	44	44	44	44	44	43	43	43	43	43	43	43	42
P	14	15	15	16	16	18	18	18	18	19	19	20	20	20	21	21	23	23	23	24	25	25	26	26	26	27	26	27	28	28	29

NOV	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	--
Tx	57	57	56	56	56	56	56	55	55	55	55	54	54	54	54	54	53	53	53	53	52	52	52	52	52	51	51	51	51	51	
Tn	42	42	42	42	42	42	41	41	41	41	41	41	41	40	40	40	40	40	40	40	39	39	39	39	39	39	39	38	38	38	
P	30	31	31	32	33	33	34	35	35	37	37	37	39	38	38	39	39	40	40	39	38	38	39	38	39	40	39	39	39	39	

DEC	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Tx	50	50	50	50	50	49	49	49	49	49	49	49	49	49	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
Tn	38	38	38	38	38	38	38	38	38	38	38	38	37	37	37	37	37	37	37	37	37	37	37	38	38	38	38	38	38	38	38
P	35	36	36	34	35	36	35	35	34	34	34	33	35	34	33	33	33	33	33	34	34	35	35	36	35	35	35	35	35	34	34

Astoria: Climate Normals (1991-2020), Means & Extremes (1887-2023)

Latitude: 46° 09' 29" N Longitude: 123° 52' 39"

Field Elevation: 9 feet MSL

Barometer: 12 feet MSL

Element	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
MAX: Normal Daily	49.4	50.9	53.0	55.9	60.5	64.0	67.4	68.7	67.6	60.7	53.6	48.7	58.4
Warmest Daily MAX	70	72	80	86	93	101	101	98	95	85	73	64	101
Year of Occurrence	1940	1996	1926	2023	2008	2021	1942	2016	1972	1987	2010	1980	2021, 1942
Coldest Daily MAX	16	19	34	42	46	49	56	56	52	42	27	21	16
Year of Occurrence	1888	1989	1896	1975	1923	1923	1935	1919	1924	1935	1955	1990	1888
MIN: Normal Daily	38.1	37.4	39.0	41.5	46.3	50.6	53.9	53.9	50.5	44.9	40.2	37.6	44.5
Coldest Daily MIN	10	9	22	26	30	37	37	39	33	26	15	6	6
Year of Occurrence	1888	1989	1971	1927	1954	1980	1930	1973	1983	1971	1955	1990	1990, 1972
Warmest Daily MIN	54	54	55	55	65	65	71	70	67	62	58	57	71
Year of Occurrence	1896	1983	1889	1951	1887	1942	1906	1916	1907	2003	1999	1980	1906
MEAN: Normal Daily	43.7	44.2	46.0	48.7	53.4	57.3	60.6	61.3	59.0	52.8	46.9	43.2	51.4
Normal Number of Days with Temperature of :													
Maximum ≥ 80°	0	0	0	0	1	1	1	1	2	0	0	0	6
Maximum ≥ 70°	0	0	0	1	3	4	8	11	9	3	0	0	39
Maximum ≤ 32°	<1	<1	0	0	0	0	0	0	0	0	0	<1	<1
Minimum ≤ 32°	6	7	4	1	0	0	0	0	0	1	4	7	29
Normal Heating Deg. Days	659	584	589	489	361	233	140	122	185	378	543	677	4960
Normal Cooling Deg. Days	0	0	0	<1	2	2	5	7	6	<1	0	0	22
Normal Relative Humidity (%)													
at 4 am LST	86	87	89	89	90	90	90	91	91	90	87	86	89
at 10 am LST	84	82	80	75	75	75	76	77	76	81	83	84	79
at 4 pm LST	77	74	72	70	70	71	70	71	70	73	78	80	73
At 10 pm LST	85	86	87	86	86	85	86	88	88	89	87	86	87
% Possible Sunshine	-	-	-	-	-	-	-	-	-	-	-	-	-
Average Number of Days with:													
Heavy Fog (vis ≤ ¼ mi)	4	3	3	2	1	1	2	4	6	6	4	3	40
Thunderstorms	1	1	1	1	<1	<1	<1	<1	1	1	1	1	8
Clear	3	3	3	3	3	3	6	6	8	5	3	3	50
Partly Cloudy	4	3	5	6	8	7	10	10	8	7	5	4	77
Cloudy	24	22	23	21	20	19	15	15	15	19	22	24	239
Avg Daylight Sky Cover²	8.3	8.1	8.1	8.0	7.7	7.7	6.7	6.7	6.3	7.2	8.1	8.4	7.6
Avg Wind Speed (mph)	8.6	8.2	8.3	8.1	7.9	8.1	8.3	7.5	6.8	7.0	8.1	8.5	8.0
Dominant Wind Dir.	E	E	S	SW	NW	NW	NW	NW	NW	SE	E	E	NW
Max Sustained Wind	55	47	47	52	37	32	29	40	39	45	46	55	55
Direction of Sustained	S	S	S	S	SW	S	S	S	S	S	S	S	S
Year of Occurrence	1971	1979	2016	1962	1975	2003	1988	2015	2013	2016	2012	2007	2007, 1971
Strongest Wind Gust	80	76	80	72	56	54	59	62	60	96	78	106	106
Direction of Gust	S	S	S	S	SW	W	NW	S	S	S	S	S	S
Year of Occurrence	1971	1979	1956	1996	1975	2013	2009	2015	1997	1962	2006	2007	2007
Normal Rainfall (in)	10.59	7.18	7.90	5.80	3.40	2.30	0.83	1.12	2.67	6.74	11.05	10.68	70.26"
Monthly Maximum	27.00	21.89	21.32	13.39	8.52	7.70	7.58	5.22	10.69	17.79	22.54	36.07	114.03"
Year of Occurrence	1851	1961	1859	1893	1895	1931	1916	1968	2013	1950	1937	1933	1933
Monthly Minimum	0.69	0.65	0.93	0.21	0.37	0.06	0.00	0.00	0.00	0.23	1.45	2.67	41.58"
Year of Occurrence	1985	1920	1965	1909	1982	1869	1851	1850	1909	1895	1976	1985	1985
Max Rain in 24 hours	6.98	4.91	4.25	3.40	2.59	2.42	1.98	2.78	3.84	4.17	5.56	4.33	6.98"
Year of Occurrence	1919	1916	1910	1893	2013	1968	1994	2001	2013	1927	1998	1933	1919
Normal days ≥ 0.01" rain	22	19	22	19	16	14	8	8	10	17	21	22	196
Normal days ≥ 1.00" rain	3	2	2	1	0	0	0	0	1	2	3	3	16
Normal Snowfall (in)	2.0	0.4	0.5	0	0	0	0	0	0	0	0.2	1.1	4.2"

¹Most recent occurrence listed.

²Sky Cover in OKTAs, or eighths.

³Period of record 1887-Dec 2023.

Notes...