

LAND AND CLIMATE¹⁰

Size

Nebraska measures 459 miles (740 kilometers) across at its widest point, following a diagonal from southeast to northwest. Nebraska's total area, including land and water, is 77,358 square miles (200,358 square kilometers) — almost 20 percent larger than New England. The state's land area alone is 76,878 square miles (199,113 square kilometers). Nebraska ranks 16th among the states in land and water area and 15th in land area alone.

Elevation

Nebraska's elevation rises gradually from southeast to northwest in a series of rolling plateaus. The lowest point, 840 feet (256 meters) above sea level, is in southeastern Richardson County at the Missouri River. The highest point, 5,424 feet (1,654 meters) above sea level, is in southwestern Kimball County. Nebraska's average elevation is 2,600 feet (793 meters).

Geographic Regions

Nebraska has two major geographic regions — the Dissected Till Plains and the Great Plains. The Great Plains can be divided into smaller areas, among them the Loess Plains, the Loess Hills, the Sandhills and the High Plains.

The Dissected Till Plains formed when Ice Age glaciers left behind a rich soil-forming material, called till, over the eastern fifth of the state. Windblown dust (loess) later settled on the till, and over the years, streams dissected the region, forming a rolling terrain. Along the Missouri River, the terrain includes bluffs and river-deposited lowlands. This combination makes the Dissected Till Plains well-suited for farming.

The Great Plains stretch west across the rest of the state. The largest of its subregions is the nearly 20,000 square miles of sand hills north of the North Platte and Platte rivers that stretch to South Dakota. The Sandhills, the largest stabilized sand dune area in North America, were formed by wind whipping sand into hills and ridges interspersed with valleys that contain streams, lakes and wetlands. Grasses have stabilized the dunes. The abundant water and grasslands make this area ideal for raising cattle.

The Loess Plains consist of windblown silt (loess) that covers about 7,948 square miles of relatively flat, intensively farmed land in south-central Nebraska interspersed with lakes and wetlands. This region is sometimes called the "Rainwater Basin" or "Rain-basin." The Loess Hills lie north of the Platte River and south and east of the Sandhills. Here, windblown silt has formed rolling hills where farms and ranches predominate.

The High Plains lies northwest, southwest and due west of the Sandhills. In its 12,000 square miles are the scenic Wildcat Hills and Pine Ridge areas in the southern

¹⁰Information for this section compiled from the following sources: Conservation and Survey Division, University of Nebraska-Lincoln; Nebraska Department of Natural Resources; Nebraska Game and Parks Commission; Natural Resources Conservation Service, U.S. Department of Agriculture; Nebraska State Climate Office, High Plains Climate Center; National Oceanic and Atmospheric Association, U.S. Department of Commerce; *Statistical Abstract of the United States*, Bureau of the Census, U.S. Department of Commerce; *The Nebraska Databook*, Nebraska Department of Economic Development.

and northern Panhandle, respectively. A small area of the Badlands, which are mostly in South Dakota, extends into Nebraska. This unusual landscape in the northwestern part of the state has been carved by erosion and is characterized by steep, mostly bare hills of siltstone and sandstone and by mushroom-like cap rocks on more narrow pedestals. These rocks are especially distinctive in Toadstool Park.



Toadstool Park in Northwest Nebraska's Badlands

Mineral Resources

Petroleum and natural gas fields lie in the Panhandle and southwestern and southeastern parts of Nebraska.¹¹ Sand and gravel deposits are found along the Platte and Republican rivers, their tributaries and elsewhere. These deposits are mined largely for construction purposes. Limestone quarries lie near the Missouri River in the southeast. Other minerals produced in Nebraska include sandstone; clay, usually for brick or tile; shale; and uranium, which is mined as a slurry in one location in northwestern Nebraska.

Water and Soil Conservation

Nebraskans have long realized that using soil and water resources wisely is important, particularly because of the state's agricultural economy. Irrigation ditches were constructed in Nebraska as early as 1856. However, Nebraska's extensive irrigation system stems from the droughts of the 1890s and 1930s.

Initially, Nebraska received all its irrigation water from streams and rivers. These

¹¹ For details on Nebraska oil and gas production, see Page 669.

waterways continue to supply water for Nebraska's cropland today. The Platte, Loup and Republican rivers are especially important.

Since 1940, irrigation from wells has increased dramatically. As of June 2021, the state had more than 107,000 registered irrigation wells. According to the most recent agricultural statistics report in 2018, there were 7.6 million acres of irrigated land in Nebraska.¹²

During the drought of the 1930s, the federal government created extensive soil conservation programs. By 1950, all of Nebraska's farm and ranch land was included in soil conservation districts. Local watershed groups were organized by 1954 legislation.

Today, Nebraska is divided into 23 natural resources districts (NRDs).¹³ These governmental units have local responsibility for soil and water conservation and protection. The state has given NRDs a variety of regulatory tools to deal with contamination, groundwater shortages and user conflicts that occur.



Cattle Grazing near a Center-Pivot Irrigation System

Rivers and Lakes

Nebraska is the only state that lies entirely within the drainage area of the Missouri River, which flows along Nebraska's northern and eastern borders for about 450 miles. Its major tributary in Nebraska is the Platte River, which flows across the state from west to east.

The Platte River begins where the North and South Platte rivers meet near the city of North Platte. The Platte, which is too shallow for navigation, was described as "a mile wide and an inch deep" by early explorers and pioneers crossing Nebraska. Today, the river is used for irrigation, municipal water supply, recreation and hydroelectric

¹² Source: Nebraska Natural Resources Districts and the USDA Nebraska Agricultural Statistics Service, NASS. For more irrigation statistics, see Pages 465-466.

¹³ For more information on NRDs, see Pages 863-865.

power production.

The Platte's main tributaries are the Loup and Elkhorn rivers, which originate in the Sandhills and flow southeast across north-central Nebraska. The Niobrara River drains northern Nebraska; the Republican, Big Blue, Little Blue and Nemaha rivers drain southern and southeastern Nebraska, respectively.

Nebraska has about 2,500 small lakes, both natural and man-made. Hundreds of natural and artificially enhanced shallow lakes dot the landscape of the Sandhills. Lake McConaughy, the state's largest reservoir (about 55 square miles), was formed by the construction of the Kingsley Dam on the North Platte River. Other large man-made reservoirs include Jeffrey, Maloney and Sutherland reservoirs in the Middle Platte River Basin; Swanson, Enders, Strunk, Hugh Butler and Harlan County reservoirs in the Republican River Basin; Calamus, Davis Creek and Sherman reservoirs in the Loup River Basin; Lewis and Clark, Pigeon-Jones and Beaver Lake on the Missouri River system; Box Butte, Whitney and Merritt reservoirs in the Niobrara River Basin; Branched Oak, Pawnee and Lake Wanahoo in the Lower Platte River Basin; and Willow Creek Reservoir in the Elkhorn River Basin.

One of Nebraska's greatest water resources lies not above, but below ground. The state's vast underground water supply, accumulated over thousands of years, is about 1.9 billion acre-feet, enough to cover the state with an estimated 34 feet of water. This water supply — much of it part of the Ogallala Aquifer — is used extensively for irrigation.



Niobrara River near Valentine

Climate

An old expression about weather in Nebraska is that if you don't like it now, wait five minutes and it will change.

Nebraskans often experience extremes in temperature and frequent changes in the weather. Tornadoes, thunderstorms, blizzards and hailstorms are part of hot summers and severely cold winters. Temperature and rainfall vary greatly from year to year. The spring and fall seasons usually are pleasant. The temperature gradually drops from south-eastern to northwestern Nebraska, except in the coldest part of the year.



Thunderstorm Building Over the Plains

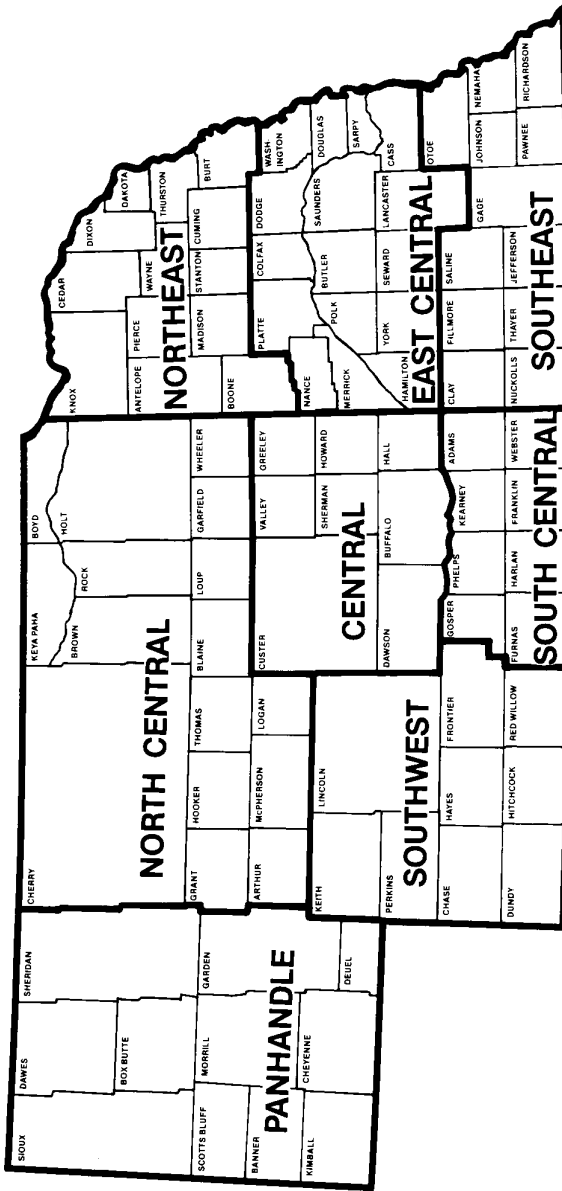
The highest temperature ever recorded in Nebraska, 118 degrees Fahrenheit (48 degrees Celsius), was on July 15, 1934, at Geneva; on July 17, 1936, at Hartington; and on July 24, 1936, at Minden. The lowest temperature on record, minus 47 F (minus 44 C), was at Camp Clarke near Northport on Feb. 12, 1899, and at Oshkosh on Dec. 22, 1989.

Like the temperature, precipitation and humidity decrease gradually from east to west across Nebraska. The unpredictable nature of rain results in drought some years and flooding in others.

The state's growing season length ranges from 175 days in extreme southeastern Nebraska to 135 days in the extreme northwest. Killing frosts usually occur from about Oct. 15 to April 25 in the southeast and about Sept. 20 to May 20 in the northwest.

Prevailing winds blow across Nebraska from the northwest between October and April, and from the south and southeast during other times. Average wind velocity is about 10 miles (16 kilometers) per hour. Tornadoes are not uncommon in the spring and summer. According to the National Climatic Data Center, Nebraska averaged 57 tornado touch downs each year between 1991 and 2010. The Storm Prediction Center, which analyzed data from 1980 to 2009, calculates the Nebraska average at 51 tornadoes per year.

Nebraska Climatic Divisions¹⁴



¹⁴Source: National Oceanic and Atmospheric Administration, U.S. Department of Commerce.

Climate of Nebraska*

Normal Temperature, 1991-2020

Month	Pan-handle	North Central	North-east	Central	East Central	South-west	South Central	South-east
January.....	24.0	21.5	19.6	22.3	22.0	25.1	24.7	23.8
February.....	29.5	27.3	25.7	28.1	27.9	29.0	30.5	29.8
March.....	36.5	36.1	36.5	37.5	38.6	39.1	39.8	40.5
April.....	45.3	46.7	48.7	48.4	50.6	45.2	50.5	51.6
May.....	55.5	57.6	60.2	59.1	61.5	58.7	60.6	62.0
June.....	65.7	67.5	70.1	69.2	71.7	69.2	71.1	72.1
July.....	72.1	73.3	74.6	74.2	76.0	74.9	76.3	76.7
August.....	70.3	71.4	72.3	72.1	73.6	73.0	74.0	74.5
September.....	60.2	61.4	63.1	62.7	64.7	63.2	64.7	65.7
October.....	47.8	50.3	50.9	50.6	52.7	51.1	52.6	53.8
November.....	34.1	33.7	34.8	35.1	37.1	36.6	37.3	38.8
December.....	26.0	24.3	23.2	25.2	25.6	27.8	27.6	27.6
Annual.....	47.3	47.5	48.3	48.7	50.2	49.9	50.8	51.4

Average Humidity, Wind and Weather¹⁵

Station	Relative Humidity (Percent)	Mean Wind Velocity (MPH)	Prevailing Wind Direction	Sunshine (Percent of Possible)	Number of Days Cloudy/Not ¹⁶	Annual Number of Days with Measurable Precipitation ¹⁷
Grand Island.....	68	11.1	S	-	140/225	88.7
Lincoln.....	70	9.8	S	62	150/215	95.2
Norfolk.....	69	10.6	NW	-	145/220	96.1
North Platte.....	66	9.2	NW	67	141/224	87.4
Omaha.....	70	10.0	S	60	149/216	101.2
Scottsbluff.....	61	9.8	NW	-	137/228	87.2
Valentine.....	63	9.9	NW	66	137/228	87.9

Normal Precipitation (1991-2020)

Month	Pan-handle	North Central	North-east	Central	East Central	South-west	South Central	South-east
January.....	.40	.45	.54	.51	.67	.47	.46	.73
February.....	.44	.58	.70	.61	.71	.52	.56	.81
March.....	1.08	1.47	2.01	1.86	2.24	1.34	1.92	2.38
April.....	1.85	2.32	2.81	2.56	2.94	1.97	2.25	2.90
May.....	3.10	3.64	4.05	3.89	4.51	3.30	4.07	4.42
June.....	2.67	3.40	4.01	3.78	4.05	3.18	3.42	3.85
July.....	2.39	3.32	3.41	3.42	3.60	3.03	3.70	4.30
August.....	1.70	2.46	3.01	2.80	3.35	2.44	3.07	3.49
September.....	1.43	2.06	2.42	2.14	2.86	1.40	2.11	3.20
October.....	1.07	1.52	1.91	1.51	2.12	1.25	1.47	2.22
November.....	.64	1.04	1.51	1.27	1.68	.86	1.27	1.80
December.....	.41	.48	.68	.57	.85	.43	.53	.93
Annual.....	17.18	22.74	27.06	24.92	29.58	20.19	24.85	31.03

*Source: Nebraska State Climate Office, the High Plains Climate Center and the National Oceanic and Atmospheric Administration.

¹⁵ Data source: The National Center for Environmental Information's 2021 Local Climatological Data Annual Summaries with Cooperative Data: Sub-section "Normals, Means, and Extremes, Climatological Data Annual Summaries."

¹⁶ The designation "not cloudy" is a combination of days that are clear and those that are partly cloudy.

¹⁷ Measurable precipitation is defined as liquid equivalent moisture of 0.01 inches or greater.

Climate of Nebraska (Cont'd.)

Snowfall, 1958-2021¹⁸

Year	Pan-handle	North Central	North-east Central	East Central	South-west	South Central	South-east
1958-59	53.7	41.5	30.9	35.3	28.3	44.0	29.2
1959-60	36.4	52.5	61.0	47.0	59.9	50.1	62.0
1960-61	45.8	40.0	27.5	26.1	17.2	35.1	20.6
1961-62	29.5	34.0	49.7	39.4	42.6	21.5	35.8
1962-63	37.0	31.1	23.2	29.5	33.4	27.1	22.3
1963-64	28.4	24.5	23.3	29.1	22.3	25.2	18.0
1964-65	27.3	23.0	37.5	28.3	48.5	26.3	35.7
1965-66	38.7	25.1	16.8	15.3	11.4	23.9	9.0
1966-67	29.3	21.4	16.4	26.5	22.1	19.0	21.4
1967-68	44.6	20.3	9.0	12.3	9.0	15.3	12.7
1968-69	29.8	42.6	53.0	44.6	44.9	26.7	38.3
1969-70	59.1	51.5	33.9	30.1	22.8	43.4	27.2
1970-71	48.3	43.8	26.1	30.8	38.0	41.1	24.9
1971-72	22.6	21.1	22.7	11.7	17.8	9.7	9.9
1972-73	58.0	38.0	33.0	30.7	36.0	32.6	22.6
1973-74	50.7	35.8	24.5	39.9	36.9	37.1	37.6
1974-75	42.6	36.6	41.0	29.8	45.6	23.3	26.4
1975-76	58.4	43.4	30.5	36.1	25.0	38.6	30.7
1976-77	34.0	40.5	16.7	21.9	19.3	26.5	15.2
1977-78	42.8	39.2	38.1	39.6	38.5	30.1	25.7
1978-79	60.0	49.1	44.0	35.0	40.0	30.0	25.0
1979-80	68.3	52.4	25.8	43.5	28.0	64.4	41.6
1980-81	19.5	14.3	13.2	13.0	12.6	20.3	13.5
1981-82	23.8	41.4	40.8	33.8	30.6	18.0	22.6
1982-83	50.2	39.7	48.6	31.2	32.6	33.2	31.5
1983-84	45.3	56.6	64.7	61.4	49.2	49.0	53.8
1984-85	24.6	21.6	17.5	22.4	21.3	26.6	27.4
1985-86	63.4	50.5	32.3	24.5	21.8	42.6	23.4
1986-87	44.5	33.9	15.4	26.7	19.2	35.3	23.8
1987-88	54.3	56.9	26.1	32.0	18.7	31.7	21.7
1988-89	27.5	22.4	21.7	20.5	19.2	20.4	15.2
1989-90	41.7	26.5	20.8	26.0	20.2	21.4	17.7
1990-91	36.2	38.9	37.0	27.4	29.0	27.3	13.5
1991-92	26.3	28.6	31.1	30.8	26.6	28.7	22.8
1992-93	63.8	46.7	43.6	42.0	39.4	50.1	48.1
1993-94	40.8	39.1	37.4	35.7	22.8	40.8	40.6
1994-95	57.2	48.1	29.6	26.9	21.9	35.0	19.4
1995-96	40.1	39.0	24.2	22.1	26.2	22.8	19.2
1996-97	33.1	35.1	39.5	29.6	30.5	22.9	23.2
1997-98	31.4	31.7	28.8	25.3	36.5	19.6	31.6
1998-99	27.4	33.0	38.1	24.4	31.2	16.9	16.4
1999-2000	26.5	11.7	12.9	13.5	11.5	16.8	17.1
2000-01	41.7	49.5	38.7	47.1	37.1	30.0	41.1
2001-02	27.5	24.5	24.6	19.4	24.0	16.2	18.4
2002-03	27.8	33.4	35.1	32.0	30.4	24.5	20.6
2003-04	29.8	23.7	34.3	19.9	32.1	18.0	21.4
2004-05	31.6	15.0	12.9	21.4	21.5	11.9	17.6
2005-06	36.0	42.4	36.9	34.7	27.9	17.8	23.5
2006-07	29.7	33.6	31.0	20.7	25.6	29.8	19.2
2007-08	36.7	39.5	48.1	27.4	28.0	17.6	18.3
2008-09	37.0	41.1	36.7	27.3	25.8	18.2	13.5
2009-10	54.5	35.9	45.2	40.4	47.2	36.7	26.9
2010-11	39.4	46.9	41.9	37.3	34.0	27.8	27.8
2011-12	20.2	15.0	18.7	18.2	21.3	14.9	15.8
2012-13	53.4	35.4	34.4	25.2	30.7	33.5	28.9
2013-14	53.6	30.2	22.3	20.0	17.1	26.8	26.9
2014-15	43.3	26.1	20.5	21.9	20.0	16.6	11.2
2015-16	53.4	34.1	48.1	29.1	24.9	28.9	24.7
2016-17	40.3	44.0	35.7	22.6	10.2	13.5	10.5
2017-18	45.0	43.7	43.7	36.1	23.0	34.4	21.3
2018-19	51.5	46.3	43.7	38.9	23.0	36.6	21.1
2019-20	46.8	44.1	33.3	35.8	24.4	27.1	26.3
2020-21	50.6	41.2	37.9	40.0	38.7	31.6	31.3

¹⁸ Snowfall totals start on July 1 and end June 30 of the next year. Snowfall statistics from years 1889-90 to 1957-58 are listed in the 1960 *Nebraska Blue Book*.

Climate of Nebraska (Cont'd.)

Annual and Seasonal Precipitation, 1899-2021¹⁹

Year	Panhandle		North Central		Northeast		Central	
	Annual	Crop Season	Annual	Crop Season	Annual	Crop Season	Annual	Crop Season
1899.....	14.19	9.69	15.17	12.03	23.48	18.61	21.53	17.59
1900.....	14.37	12.19	18.39	15.61	31.62	25.52	23.62	19.34
1901.....	17.52	12.78	21.75	16.91	27.99	21.38	26.23	19.72
1902.....	19.08	13.98	23.13	18.03	29.75	24.05	32.50	26.20
1903.....	15.14	12.69	21.09	17.72	34.57	28.45	29.64	25.05
1904.....	14.24	12.42	20.67	17.20	26.27	20.63	27.45	22.62
1905.....	23.70	20.24	27.01	21.55	34.98	27.16	35.24	29.92
1906.....	20.79	15.17	25.56	18.60	32.50	24.15	29.56	21.38
1907.....	15.25	12.58	19.15	16.25	22.23	18.94	18.41	15.63
1908.....	18.67	13.76	23.63	18.88	29.80	23.67	25.80	21.22
1909.....	20.71	14.75	23.92	17.15	31.79	22.17	21.74	15.69
1910.....	12.48	10.03	15.65	12.77	18.95	15.70	19.30	16.30
1911.....	14.37	10.42	21.64	14.44	23.88	15.56	23.53	17.20
1912.....	20.89	15.68	19.94	15.03	23.83	16.93	18.09	12.29
1913.....	16.88	12.32	19.63	14.81	25.36	19.09	21.99	15.58
1914.....	13.01	10.64	19.58	15.69	25.04	20.70	19.65	16.15
1915.....	28.38	22.01	34.89	27.09	36.99	28.65	35.46	28.28
1916.....	15.31	11.80	17.32	14.12	22.66	17.64	19.05	15.58
1917.....	15.25	12.13	20.81	17.17	25.44	20.73	21.93	18.34
1918.....	20.87	16.53	21.24	15.63	25.74	16.99	22.88	15.08
1919.....	15.72	10.44	22.33	15.10	29.47	19.84	25.83	18.00
1920.....	18.65	15.24	26.04	21.31	32.92	24.82	26.50	20.31
1921.....	15.45	11.09	20.47	16.06	23.72	19.62	21.77	18.74
1922.....	18.12	13.65	20.53	15.24	24.06	17.40	19.68	15.30
1923.....	24.11	18.82	26.56	22.40	33.68	29.39	29.62	25.83
1924.....	14.77	8.93	18.30	12.68	27.61	21.25	21.67	16.46
1925.....	17.87	13.05	18.73	15.03	21.16	16.29	20.59	16.13
1926.....	17.75	12.91	18.52	14.77	24.13	19.00	19.89	16.33
1927.....	21.74	16.87	22.82	18.10	27.50	22.01	22.00	17.34
1928.....	17.90	13.66	18.48	13.55	20.93	12.90	21.38	14.59
1929.....	19.61	14.31	23.01	17.01	26.25	19.65	20.87	15.30
1930.....	21.66	16.75	23.67	16.97	24.85	18.95	30.68	22.76
1931.....	12.06	7.60	15.93	10.66	20.86	13.01	18.37	11.55
1932.....	14.13	11.06	19.50	15.78	24.52	18.73	22.58	17.93
1933.....	17.43	14.94	19.07	15.68	20.61	14.66	21.78	17.73
1934.....	11.41	8.63	13.93	10.48	19.32	13.86	13.07	8.80
1935.....	17.51	15.05	20.77	17.79	23.36	18.69	24.34	21.12
1936.....	11.48	7.86	14.32	9.90	16.12	10.72	14.23	11.05
1937.....	12.86	8.93	16.28	12.46	22.12	15.97	20.59	15.86
1938.....	19.80	16.32	21.28	17.99	25.05	20.51	20.67	17.82
1939.....	12.47	8.23	17.57	12.91	17.44	13.09	16.17	12.86
1940.....	12.66	8.65	15.26	9.75	24.29	15.64	15.92	9.77
1941.....	20.06	15.44	22.39	17.18	25.43	19.56	23.96	19.28
1942.....	22.88	17.99	23.37	19.31	23.83	18.27	26.66	22.42
1943.....	14.05	10.92	17.09	13.79	19.33	14.94	17.05	14.88
1944.....	19.36	13.52	25.58	19.13	33.50	27.18	26.69	20.47
1945.....	18.61	15.26	20.24	17.22	25.80	21.09	22.97	20.35
1946.....	17.21	12.71	24.42	15.41	27.23	17.12	26.82	15.77
1947.....	20.10	15.92	20.71	16.35	25.42	18.06	24.34	19.33
1948.....	16.49	12.42	19.36	15.46	25.13	17.70	21.69	16.64
1949.....	17.56	13.35	24.39	16.26	26.71	19.33	24.76	18.44
1950.....	15.19	13.01	22.07	18.21	25.92	20.36	24.17	20.28
1951.....	19.82	16.79	29.53	24.65	35.13	27.29	28.40	23.95
1952.....	14.22	10.46	15.88	11.74	23.79	18.86	16.34	12.33
1953.....	16.35	12.19	21.18	14.84	25.62	18.41	20.41	14.23
1954.....	14.48	11.12	18.87	15.01	24.93	18.44	17.71	14.36
1955.....	17.84	14.38	16.11	12.80	17.59	14.14	16.35	13.45
1956.....	13.20	10.57	15.17	11.47	17.36	13.81	15.67	12.34
1957.....	21.30	17.91	25.55	20.66	29.33	22.22	29.22	23.59
1958.....	17.49	14.13	21.14	17.97	22.83	18.74	23.69	19.64
1959.....	15.99	11.94	19.62	14.43	29.85	20.89	23.53	16.84

¹⁹ Rainfall totals start Jan. 1 and end Dec. 31. Annual rainfall statistics from 1850 to 1898 are listed in the 1960 *Nebraska Blue Book*. Seasonal means crop season, which is from April 1 to Sept. 30.

Climate of Nebraska (Cont'd.)

Annual and Seasonal Precipitation, 1899-2021 (Cont'd.)

Year	Panhandle		North Central		Northeast		Central	
	Annual	Crop Season	Annual	Crop Season	Annual	Crop Season	Annual	Crop Season
1960.....	13.85	10.05	21.44	16.94	29.71	23.54	24.39	18.60
1961.....	17.01	13.86	18.98	15.42	23.67	17.91	23.10	18.68
1962.....	19.59	16.51	27.34	23.56	28.86	22.86	29.02	23.94
1963.....	17.02	13.22	20.98	17.20	23.25	19.65	20.39	17.09
1964.....	11.60	9.82	18.74	16.30	26.74	23.11	21.09	17.57
1965.....	21.48	18.15	24.18	21.06	31.49	27.51	32.12	27.39
1966.....	16.36	13.20	19.10	15.98	23.42	18.57	19.50	15.63
1967.....	19.46	16.77	18.88	16.38	22.97	20.06	21.99	19.37
1968.....	17.37	14.69	20.83	16.78	25.52	16.93	23.80	18.09
1969.....	15.70	11.28	17.70	12.35	25.70	17.56	24.06	16.42
1970.....	14.45	11.15	17.65	13.82	24.37	17.20	19.24	15.50
1971.....	18.48	14.93	22.84	16.36	26.33	16.93	24.67	16.45
1972.....	17.45	14.43	21.41	17.28	30.19	24.17	22.63	17.79
1973.....	20.92	14.84	25.72	18.60	30.94	19.98	31.38	22.13
1974.....	11.74	8.83	14.69	12.08	18.01	14.58	16.70	12.93
1975.....	13.84	10.26	17.54	12.79	25.52	18.31	22.71	17.33
1976.....	13.66	11.16	16.60	13.67	16.86	12.88	19.97	16.63
1977.....	18.73	14.71	29.91	22.24	32.81	23.52	33.57	25.42
1978.....	18.85	14.84	21.03	17.10	23.55	19.15	23.08	18.36
1979.....	18.47	13.47	24.44	17.47	31.31	19.53	25.90	17.25
1980.....	13.53	9.37	15.71	11.02	17.62	13.66	15.62	10.64
1981.....	17.49	14.15	22.82	16.85	24.09	16.66	27.05	20.42
1982.....	20.96	16.60	24.48	16.66	34.73	21.89	26.77	17.97
1983.....	18.13	13.07	25.86	19.12	30.57	18.85	24.96	17.08
1984.....	15.35	11.84	22.86	16.54	35.79	24.67	29.18	19.71
1985.....	14.81	11.13	19.66	15.84	27.18	22.66	26.73	22.82
1986.....	20.34	15.77	26.55	21.47	31.89	24.21	25.19	19.58
1987.....	17.74	12.68	23.16	14.54	26.74	16.63	27.98	16.95
1988.....	16.13	13.86	22.79	19.63	21.50	18.23	21.29	18.90
1989.....	11.73	9.50	12.79	10.22	17.25	13.59	19.90	17.21
1990.....	17.00	12.24	20.37	15.09	25.75	19.07	22.21	15.53
1991.....	16.48	13.65	21.52	16.61	25.71	17.78	22.29	15.61
1992.....	17.46	12.77	23.41	16.91	33.55	22.16	25.20	16.77
1993.....	21.64	15.64	28.57	22.68	35.61	29.48	34.85	28.98
1994.....	14.47	8.92	21.40	16.43	27.42	21.88	24.05	18.18
1995.....	19.87	16.31	28.05	21.70	32.03	24.13	24.83	20.01
1996.....	18.36	15.30	22.48	18.72	28.02	21.54	26.15	22.11
1997.....	18.20	14.78	21.68	17.44	22.24	17.26	22.86	17.23
1998.....	20.09	13.02	26.15	18.38	32.58	22.17	24.60	17.02
1999.....	18.30	16.90	20.41	18.06	25.90	22.59	24.42	21.65
2000.....	17.24	11.59	19.51	13.43	22.90	15.15	20.38	13.19
2001.....	16.09	12.90	23.69	19.02	30.98	23.41	23.82	18.37
2002.....	10.66	8.34	13.56	10.14	20.98	15.71	15.30	11.10
2003.....	16.14	12.25	17.41	13.67	24.79	19.88	20.73	16.95
2004.....	16.24	12.38	21.47	16.80	27.86	20.34	25.49	19.15
2005.....	19.88	16.17	23.95	19.40	28.64	21.89	22.63	16.29
2006.....	13.51	9.77	19.07	13.96	27.08	18.95	23.02	16.03
2007.....	15.27	10.75	26.42	18.59	37.12	24.39	33.39	24.53
2008.....	17.08	14.11	26.38	20.04	31.68	22.02	34.51	25.56
2009.....	22.88	17.78	26.60	19.61	26.73	17.55	26.81	19.59
2010.....	19.77	15.91	26.83	22.11	32.11	26.85	29.31	24.93
2011.....	21.02	16.91	26.68	20.81	26.01	21.01	26.22	19.36
2012.....	8.33	5.93	12.02	8.76	15.89	10.94	12.18	8.87
2013.....	18.63	13.81	23.83	18.24	27.84	20.29	24.47	19.35
2014.....	21.03	16.68	21.45	17.50	29.70	25.62	24.78	21.02
2015.....	24.20	19.53	26.23	20.84	30.50	23.45	25.12	18.88
2016.....	17.53	13.15	25.54	20.37	31.36	23.63	25.79	21.40
2017.....	18.08	12.63	25.71	19.08	30.02	21.22	28.15	20.34
2018.....	19.74	15.82	31.92	23.74	34.54	24.70	30.58	21.62
2019.....	22.98	18.06	34.92	26.95	32.49	21.99	37.88	28.71
2020.....	10.96	7.80	21.18	16.01	20.53	13.32	20.19	14.70
2021.....	14.03	8.85	22.38	15.06	25.99	15.77	24.22	14.96

Climate of Nebraska (Cont'd.)

Annual and Seasonal Precipitation, 1899-2021 (Cont'd.)

Year	East Central		Southwest		South Central		Southeast	
	Annual	Crop Season	Annual	Crop Season	Annual	Crop Season	Annual	Crop Season
1899.....	26.87	21.30	15.69	11.32	20.57	16.25	28.16	20.12
1900.....	34.22	28.11	16.22	13.64	21.68	17.06	33.46	27.57
1901.....	25.33	18.91	20.33	15.81	22.39	16.73	23.73	16.82
1902.....	37.14	29.88	23.46	18.56	33.22	26.88	41.98	33.73
1903.....	37.81	31.81	18.39	14.93	31.85	26.23	37.02	30.34
1904.....	26.77	22.54	21.48	18.46	24.14	18.45	30.03	24.85
1905.....	37.11	29.34	29.65	24.18	34.21	28.91	35.18	27.15
1906.....	32.34	24.17	21.74	14.76	25.04	17.41	27.61	20.32
1907.....	26.82	22.63	16.91	14.85	17.27	14.19	28.74	22.42
1908.....	35.81	28.92	21.23	15.70	26.40	20.83	38.45	32.23
1909.....	34.09	22.72	19.56	13.17	23.36	15.18	34.80	21.46
1910.....	22.96	19.30	12.42	11.34	17.38	14.99	22.72	19.71
1911.....	24.04	16.40	18.77	13.79	23.80	19.72	27.54	19.31
1912.....	25.81	16.65	22.16	16.67	21.29	14.41	24.33	15.88
1913.....	28.59	19.36	17.12	11.83	19.05	12.51	26.44	16.37
1914.....	28.54	21.72	17.18	13.99	18.04	14.84	26.53	19.64
1915.....	40.46	31.41	35.41	29.87	37.95	32.16	42.55	32.19
1916.....	22.11	16.93	16.29	13.31	20.69	16.95	26.12	20.61
1917.....	24.73	21.66	17.98	15.10	19.21	16.22	23.98	21.02
1918.....	23.56	14.07	21.78	15.33	22.81	15.20	27.95	17.62
1919.....	32.04	22.07	21.48	14.41	28.81	20.49	33.21	23.82
1920.....	28.51	20.48	20.53	16.35	23.39	17.53	26.43	19.23
1921.....	26.26	22.53	16.00	12.77	19.09	16.93	23.85	20.81
1922.....	24.36	16.77	16.44	13.21	18.32	14.21	25.61	17.06
1923.....	30.77	26.48	28.33	22.85	28.77	24.62	28.50	24.51
1924.....	28.15	22.14	17.03	10.85	19.75	13.90	23.39	16.45
1925.....	24.83	19.21	18.83	15.21	20.57	17.30	29.53	23.81
1926.....	26.87	19.91	17.01	13.61	19.32	14.82	26.90	19.09
1927.....	25.05	20.29	21.48	16.76	23.67	19.24	29.22	23.26
1928.....	25.88	16.49	24.54	19.35	25.05	16.19	30.00	19.84
1929.....	24.90	17.41	19.30	15.04	17.97	12.64	30.09	20.73
1930.....	26.58	21.02	28.29	20.52	28.77	21.06	26.07	19.96
1931.....	28.57	18.66	15.75	10.06	21.77	13.77	31.43	20.77
1932.....	27.76	21.22	17.97	15.38	19.31	14.63	25.73	19.42
1933.....	22.13	16.35	20.47	17.88	21.11	17.50	22.64	17.27
1934.....	16.56	9.92	13.55	10.46	13.64	9.24	17.77	10.87
1935.....	27.11	21.46	20.72	18.33	22.71	19.56	30.76	24.18
1936.....	15.11	11.00	14.13	11.80	13.30	11.49	17.95	14.05
1937.....	21.65	15.99	16.88	12.74	18.52	14.04	21.32	15.23
1938.....	26.66	22.36	19.14	16.72	20.37	17.72	29.38	24.35
1939.....	18.35	13.86	14.34	10.49	16.89	13.61	21.60	15.77
1940.....	22.05	13.63	16.10	10.63	16.72	10.22	23.30	14.42
1941.....	28.13	19.84	23.49	19.22	28.44	23.06	35.13	24.12
1942.....	25.96	20.13	25.90	21.58	29.44	24.78	30.32	23.59
1943.....	21.60	17.94	13.74	11.37	17.72	15.98	24.88	21.01
1944.....	35.39	28.15	22.86	17.00	29.52	22.35	38.26	29.26
1945.....	31.33	26.45	20.62	18.67	21.79	18.83	30.90	25.24
1946.....	28.49	18.60	24.51	15.52	30.11	19.06	28.30	18.19
1947.....	29.22	22.73	20.21	16.56	22.12	16.94	28.44	22.17
1948.....	28.78	19.71	17.74	13.75	20.01	14.43	29.00	18.63
1949.....	29.34	22.23	23.88	16.76	27.39	21.31	35.45	27.86
1950.....	26.44	20.85	18.88	16.39	23.19	19.55	31.43	25.63
1951.....	36.13	27.68	27.81	24.50	31.12	26.31	44.43	36.06
1952.....	28.50	21.93	14.90	11.17	19.60	15.32	31.27	23.22
1953.....	21.34	14.39	16.71	11.20	21.35	14.07	22.31	14.85
1954.....	25.39	19.79	12.76	10.56	18.17	14.96	30.42	25.02
1955.....	17.97	14.80	15.21	12.52	18.18	15.14	19.62	15.48
1956.....	18.51	14.94	14.78	11.84	14.39	11.61	20.95	16.96
1957.....	33.28	25.20	23.47	19.32	29.24	23.32	32.85	23.77
1958.....	27.39	22.50	22.18	17.68	23.71	17.84	34.13	27.94
1959.....	33.87	25.31	18.83	13.23	23.89	17.42	34.55	24.67
1960.....	30.39	24.02	17.66	11.48	24.91	18.51	32.55	24.58

Climate of Nebraska (Cont'd.)

Annual and Seasonal Precipitation, 1899-2021 (Cont'd.)

Year	East Central		Southwest		South Central		Southeast	
	Annual	Crop Season	Annual	Crop Season	Annual	Crop Season	Annual	Crop Season
1961	27.72	19.85	19.16	15.91	25.52	20.81	35.40	25.30
1962	27.99	21.11	26.78	23.47	27.10	21.43	29.95	21.12
1963	24.75	20.34	18.78	15.53	21.41	18.16	27.87	23.02
1964	28.44	24.37	15.66	13.19	18.43	15.47	26.67	22.13
1965	38.08	32.00	27.29	23.19	35.50	29.11	36.32	29.50
1966	20.33	16.36	18.78	15.67	18.02	14.39	19.81	16.05
1967	29.11	24.98	19.26	17.70	24.51	22.04	30.29	24.98
1968	30.93	22.08	15.99	13.21	23.44	18.01	31.20	23.32
1969	27.26	19.13	20.57	15.23	29.34	21.83	32.26	23.41
1970	24.60	18.48	14.63	11.43	19.36	16.48	28.18	22.05
1971	27.20	16.74	23.44	17.53	24.40	16.37	27.90	16.41
1972	31.32	23.15	19.08	15.38	24.32	19.05	29.93	20.68
1973	38.74	23.47	24.23	18.19	32.07	21.20	46.06	27.54
1974	19.40	14.32	14.52	11.80	15.22	11.53	18.73	13.03
1975	24.88	17.78	19.07	15.39	24.23	19.01	28.26	20.55
1976	19.14	14.54	15.34	12.62	18.68	15.56	23.15	18.10
1977	35.89	26.92	23.44	18.15	28.12	22.21	36.99	28.67
1978	28.57	23.31	15.39	11.29	21.33	16.92	33.49	27.35
1979	30.26	17.48	22.09	15.66	29.36	20.08	32.37	18.25
1980	22.16	15.82	16.24	11.73	19.49	13.10	23.70	14.44
1981	27.32	19.33	24.91	18.50	29.06	22.43	30.31	21.91
1982	38.29	28.32	22.88	17.68	27.03	19.59	35.66	26.92
1983	31.69	19.21	18.92	12.89	26.28	17.40	30.98	19.39
1984	36.68	24.85	21.10	14.52	24.59	15.33	35.03	24.42
1985	29.05	23.63	18.73	14.95	26.29	21.55	30.59	24.04
1986	37.03	27.29	18.03	14.05	22.95	17.05	38.65	28.69
1987	31.91	21.23	22.50	15.53	29.12	18.07	36.38	24.70
1988	20.27	17.19	20.09	17.83	19.30	17.10	18.34	15.55
1989	22.56	18.83	16.31	14.06	20.11	17.93	24.81	21.24
1990	26.83	19.61	17.22	11.71	22.35	16.32	26.85	18.82
1991	28.10	18.43	21.21	16.01	20.57	14.78	25.14	15.46
1992	32.59	21.71	21.89	15.34	25.55	16.55	36.43	24.27
1993	39.49	32.44	27.30	20.91	38.59	31.28	47.21	38.76
1994	27.53	21.15	19.20	13.43	23.24	16.55	26.22	19.49
1995	25.15	19.33	20.28	16.77	23.44	19.51	29.09	23.52
1996	31.53	25.35	24.64	22.71	32.79	28.39	33.88	26.39
1997	26.94	19.67	18.59	13.77	22.62	14.74	29.31	19.96
1998	33.46	23.52	19.00	13.60	23.16	15.91	33.40	21.68
1999	29.19	25.14	21.50	19.68	24.41	22.51	26.90	23.02
2000	23.23	15.46	17.49	10.16	23.30	14.10	24.75	16.67
2001	28.24	20.96	20.37	16.08	26.17	20.10	37.29	28.51
2002	22.60	16.62	11.41	8.45	15.85	10.50	23.16	15.55
2003	25.00	19.39	16.47	13.55	19.90	16.42	27.48	20.49
2004	27.00	17.77	22.43	17.53	24.67	17.41	27.09	18.57
2005	25.62	18.00	20.69	15.09	23.32	16.50	27.05	19.07
2006	29.29	21.68	18.55	13.63	25.34	17.79	29.27	22.55
2007	38.66	26.71	25.20	20.18	30.86	23.06	38.82	26.44
2008	36.63	26.59	24.68	18.93	32.72	22.55	35.49	26.11
2009	26.65	18.53	25.69	19.50	23.82	17.68	26.74	18.27
2010	31.52	26.32	23.88	19.45	28.80	24.49	32.37	25.73
2011	29.54	23.64	23.65	19.45	28.95	22.26	28.95	22.64
2012	18.50	12.11	10.75	8.27	15.35	10.75	21.94	14.43
2013	29.26	20.36	16.99	13.44	19.97	14.44	30.09	21.93
2014	30.13	25.18	20.98	17.80	25.60	22.26	28.12	22.54
2015	35.71	27.34	23.29	18.66	27.37	21.18	38.22	29.05
2016	33.83	26.92	20.71	17.10	24.40	20.58	29.93	24.03
2017	32.48	23.88	20.45	15.68	25.84	20.35	28.59	19.62
2018	35.86	24.83	25.04	18.03	30.18	20.96	35.23	23.39
2019	36.65	25.11	24.47	19.89	33.04	25.23	42.05	30.99
2020	21.32	14.18	13.45	10.27	18.22	13.92	27.29	21.35
2021	31.62	18.59	19.34	14.14	28.47	18.78	29.18	17.36

Plant and Animal Life

Nebraska's most abundant native vegetation is grass. In eastern Nebraska, tall prairie grasses flourish, especially bluestem. In the west, the dominant types are perennial short grasses, such as grama and buffalo grass.

When settlers first came to Nebraska, only 3 percent of the land was covered with forests. In 1872, Nebraska became the first state to establish Arbor Day, and tree planting has been an important part of Nebraska's conservation efforts ever since.²⁰ Ash, box elder, cottonwood, locust, oak, walnut, elm and willow trees are common to eastern and central Nebraska. In the western part of the state, pine and cedar are prevalent varieties.

Native shrubs include wild plums and chokecherries, found throughout Nebraska. A variety of flowers, such as goldenrod, larkspur, columbine, wild roses and sunflowers, thrive throughout the state.

Before white settlers arrived in Nebraska, buffalo and beaver populations were significant. Today, buffalo are never seen outside game preserves. The beaver population, after being diminished by trappers, has become more plentiful in recent years. Other animals in Nebraska include white-tail and mule deer, elk, bighorn sheep, antelope, bobcats, foxes, coyotes, badgers, squirrels, prairie dogs, muskrats, skunks, raccoons, rabbits and opossums.

Game birds, especially pheasants, grouse, ducks, geese and quail, are plentiful in Nebraska. The state's waters yield a variety of fish, including bass, carp, catfish, crappie, perch, pike, trout and walleye. The Platte River and lakes in the Sandhills serve as "rest stops" for many migratory birds, including the famous Sandhill cranes.

Another migration rest stop of international significance is the Rainwater Basin district in south-central Nebraska. Within this district, the U.S. Fish and Wildlife Service manages more than 23,000 acres of wetlands and adjacent tall-grass prairie to provide habitat for migratory birds and resident wildlife.²¹

ECONOMY²²

Agriculture

Nebraska's economy revolves around its agriculture industry. In 2021, 92 percent of the state's land — 44.8 million acres — was farm and ranch land. Cash receipts from farm marketing contribute more than \$21 billion to Nebraska's economy. Producers have utilized the state's fertile soil, abundant water and technological advances to produce record-high crop yields in recent years.

²⁰ For more information about Arbor Day, see Page 21.

²¹ For more information about the Rainwater Basin Wetland Management District and national wildlife refuges in Nebraska, see Pages 141-144.

²² Information for this section compiled from the following sources: Nebraska Department of Agriculture; Nebraska Department of Economic Development; Nebraska Department of Labor; Bureau of Economic Analysis and Bureau of the Census, U.S. Department of Commerce; Bureau of Business Research, University of Nebraska-Lincoln; *Fortune* magazine.