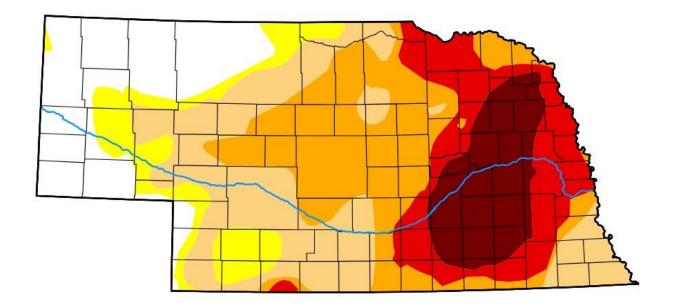
U.S. Drought Monitor

Current Maps Data Summary About Conditions & Outlooks Ag in Drought En Español NADM



Map released: Thurs. July 6, 2023

Data valid: July 4, 2023 at 8 a.m. EDT

Intensity

None

D0 (Abnormally Dry)

D1 (Moderate Drought)

D2 (Severe Drought)

D3 (Extreme Drought)

D4 (Exceptional Drought)

No Data

Authors

United States and Puerto Rico Author(s):

Curtis Riganti, National Drought Mitigation Center

Pacific Islands and Virgin Islands Author(s):

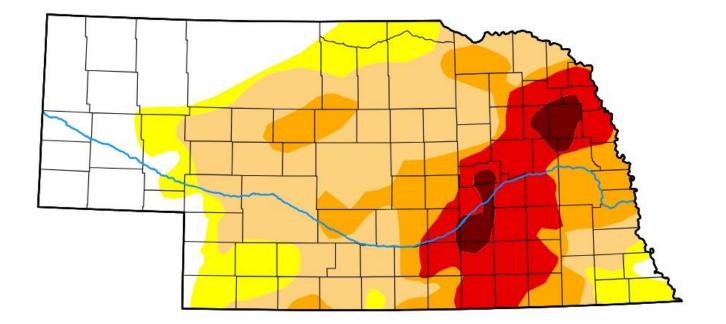
Denise Gutzmer, National Drought Mitigation Center

U.S. Drought Monitor

Current Maps Data Summary About Conditions & Outlooks Ag in Drought En Español NADM

The drought has improved in our area on the surface.

However, the aquifer has not recovered yet.



Map released: Thurs. August 3, 2023

Data valid: August 1, 2023 at 8 a.m. EDT

Intensity

- None
- **D0** (Abnormally Dry)
- D1 (Moderate Drought)
- D2 (Severe Drought)
- D3 (Extreme Drought)
- D4 (Exceptional Drought)
- No Data

Authors

United States and Puerto Rico Author(s):

Brian Fuchs, National Drought Mitigation Center

Pacific Islands and Virgin Islands Author(s):

Richard Heim, NOAA/NCEI

Monthly and Annual Precipitation Totals (in inches) 1887 thru Last Month

August 2022 to end of June 2023 only 7.37 inches

Still 14.86 inches below normal

10.14 inches June/July

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	YEAR
2023	1.32	1.29	0.63	0.59	0.51	4.53	5.61	٠.					14.48
2022	0.28	0.03	1.96	3.05	5.27	3.73	2.57	0.55	0.97	0.61	0.26	0.64	19.92
2021	1.53	0.79	5.23	1.74	2.55	4.46	1.73	3.41	0.64	4.04	0.49	0.25	26.86
2020	1.29	0.13	1.67	0.88	5.09	3.15	5.73	1.27	1.62	0.40	1.20	1.20	23.63
2019	0.75	1.59	2.65	1.13	7.29	4.38	4.08	2.79	3.40	4.69	0.79	2.57	36.11
2018	0.41	0.74	2.71	0.67	2.23	8.83	1.35	4.35	7.13	2.71	1.19	3.32	35.64
2021	1.55	0.79	5.25	1./4	2.55	4.46	1./5	5.41	U.64	4.04	0.49	U.25	Z EMAIL US

2023 14.48 inches so far
Normal is 29.34 inches
Need 14.86 to get too normal
2nd driest year in recorded history

1936 Worst drought in recorded history for Lincoln at 14.09 inches, which was 87 years ago. We have beat that record so far by just 0.39 inches in 2023.

1890 14.81 inches, we need 0.33 inches to be the 3rd driest year in recorded history, that was 133 years ago.

The drought we are in now, is a rare event historically, also occurring 87 and 133 years ago.

June 2023	July 2023	August 2023
Total Gallons	Total Gallons	
Per Day	Per Day	
1,516,452	720,802	Total Gallons
965,107	587,400	
1,019,780	468,462	Per Day
1,071,399	821,700	
1,199,295	736,642	665,000
1,047,527	585,800	
1,158,978	774,069	517,231
1,246,400	593,300	
1,264,894	475,538	
1,156,600	464,200	621,600
	609,270	3,
838,474	648,700	
705,800	692,306	735,842
940,699	649,100	755,642
1,166,200	587,474	

1,199,563

1,273,000

1,091,434

812,300

1,039,338

1,234,400

1,601,813

1,263,300

1,397,802

1,337,800

933,601

1,143,400

1,253,869

1,305,900

1,145,887

869,800 720,802 603,300

462,927

643,400

579,819

578,100

694,370

699,800

713,382

600,400

754,122

938,800

901,139

1,035,800

848,554

698,900 590,573

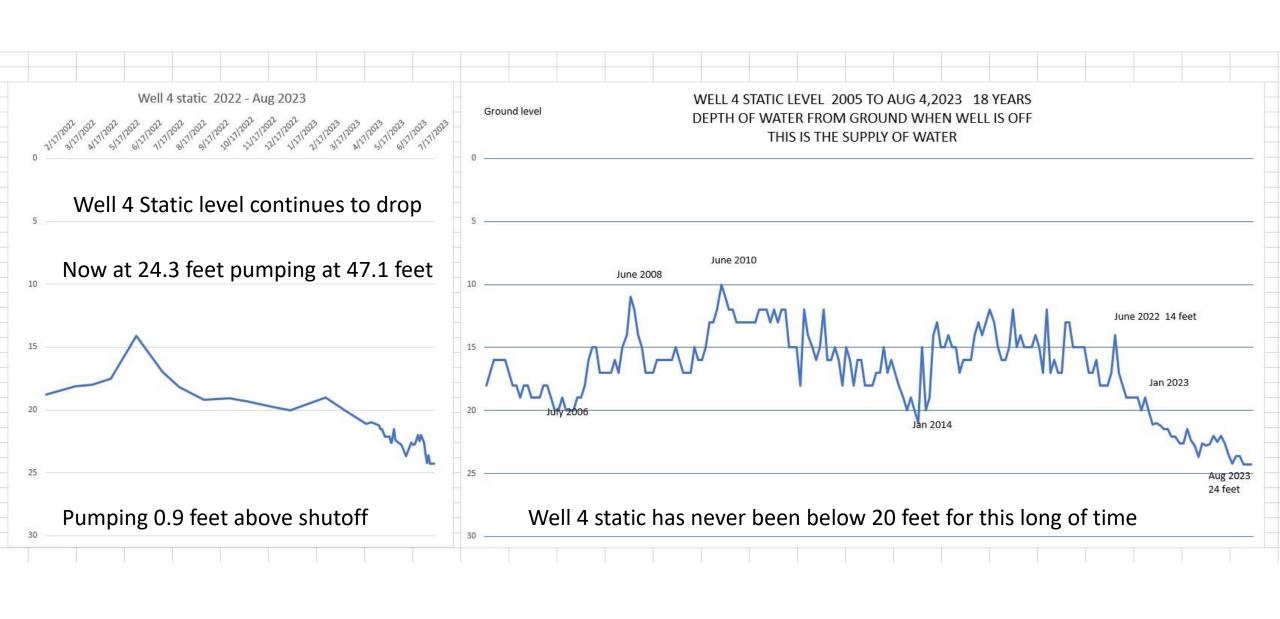
665,000

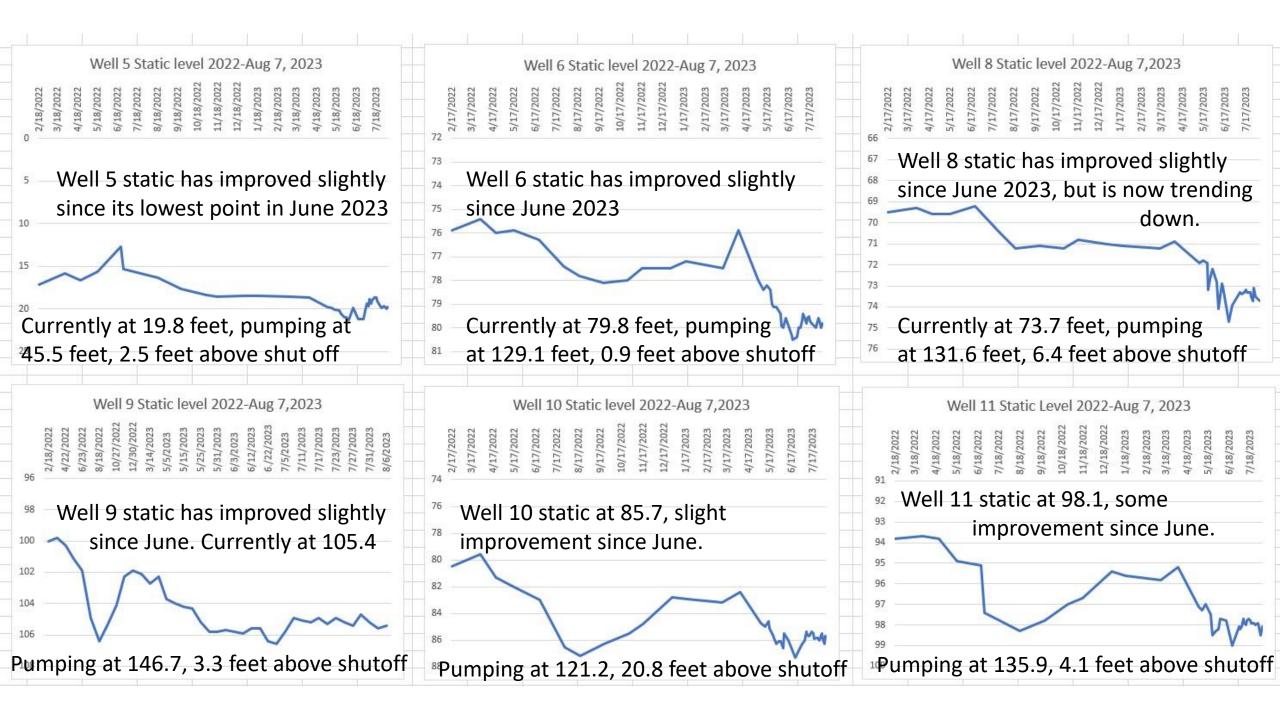
2023

June 2023 average daily gallons used 1,113,000
Peak day June 20,2023 with 1.6 million gallons
Total gallons was 33 million.

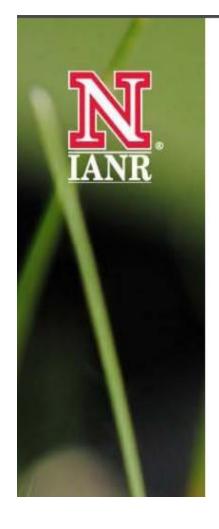
July 2023 average daily gallons used 667,818 Peak day July 27,2023 with 1.03 million gallons Total gallons was 20 million.

June Average to July Average Demand dropped by





How much should you water your lawn?? 1. Every Day??? 2. What ever the sprinkler company left it on??? 1 inch per week?? 4. I have no idea; I just know it turns on once in awhile??



Turf Fact Sheet | turf.unl.edu

Irrigating home lawns

Water lost from the soil can be estimated more accurately using an evaporation pan filled with water in a sunny location. The amount of water that evaporates from the pan is similar to that lost from turf due to ET. Usually, the amount of irrigation water applied is 75 to 85 percent of the amount

Table 1 Estimated water requirement of typical home lawns in western and eastern Nebraska during select months (from Rodie et al., 1999)

* Assessment	Water amount		
Month	Western Nebraska	Eastern Nebraska	
April / May	1.0 - 1.25	0.75 - 1.0	_
June	1.25 - 1.5	1.0 - 1.5	Depends on
July	2.0 - 2.25	1.5 - 2.0	the month
August	1.25 - 1.5	1.0 - 1.5	
September / October	1.0 - 1.25	0.75 - 1.0	

- How many gallons of water
- will I use to water my lawn
- 1 inch per week???
- At my house, if I had a sprinkler system and watered 1 inch per week, I would use 2,852 gallons per week, or 11,400 gallons a month just to water my lawn.
- That's 0.62 gallons/per square foot of turf to cover 1" depth.
- My lawn area is
 4600 sq/ft X 0.62= 2,852 gallons



I encourage you to calculate how many inches per week you are watering your lawns.

Take your square feet of turf times 0.62 to determine how much water is needed for 1" per week.

Then compare how much water you are using per month.

We can help you with that figure by taking out your normal domestic use compared to your use in the summer.

For example, wintertime use per month is say 5,000 gallons. Summer use is 35,000 gallons per month.

Summer use 35,000 - winter use 5000 = 30,000 gallons going on your lawn typically.

If you need assistance with figuring your water use, please contact me at Publicworksdirector@citywaverly.com

