

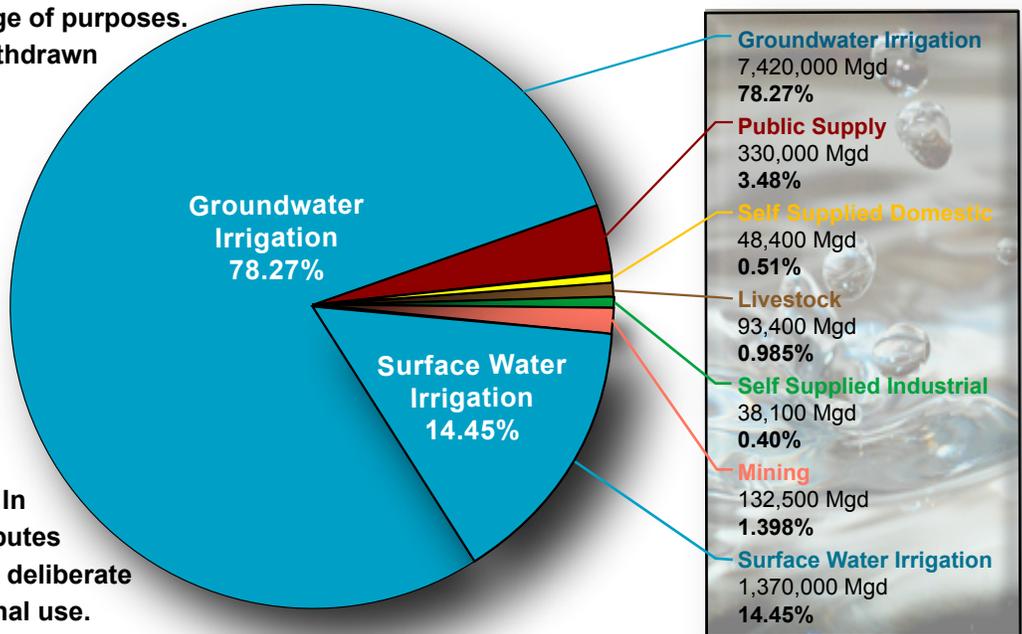


Nebraska

Estimated Total Water Withdrawals

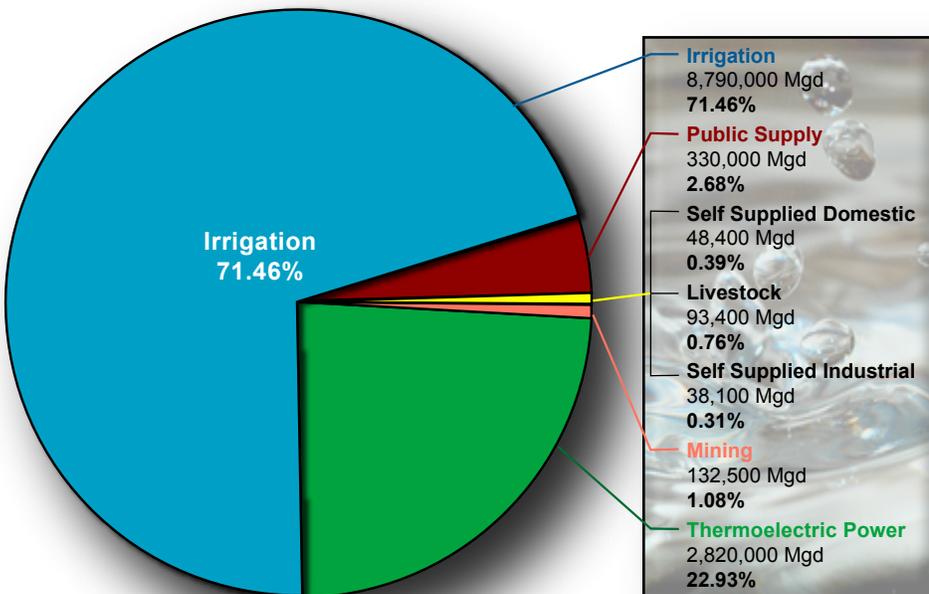
by water use category for the year 2000

Vast quantities of surface and groundwater are used in Nebraska for a wide range of purposes. Surface water is diverted and withdrawn from streams and reservoirs for offstream uses, including hydroelectric power generation and irrigation. It is also used in streams, reservoirs, and lakes for hydroelectric power generation, fish and wildlife uses, livestock watering, and recreation. Groundwater is used for irrigation, water supply for humans and animals, and commercial and industrial uses. In some cases groundwater contributes flow to surface water, as either a deliberate or unintended result of the original use. Groundwater applied to fields for irrigation may infiltrate into aquifers or be discharged into rivers. Groundwater applied to fields for irrigation may infiltrate into aquifers or be discharged into rivers. Also, some groundwater used for public water supply is returned to streams via wastewater treatment plant discharge.



Mgd=Million gallons a day

The pie chart above represents total water use omitting water used for hydroelectric power, nuclear power, and fossil fuel power. Most of this amount was released back into the streams and rivers it was removed from for power generation and cooling purposes.



The pie chart at the left represents total water use including water used for nuclear power, and fossil fuel power but not hydroelectric power.



Handout prepared and published by the
Nebraska
Department of Natural Resources

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Source:
US Geological Survey, Circular 1268,
Estimated Use of Water in the United States in 2000

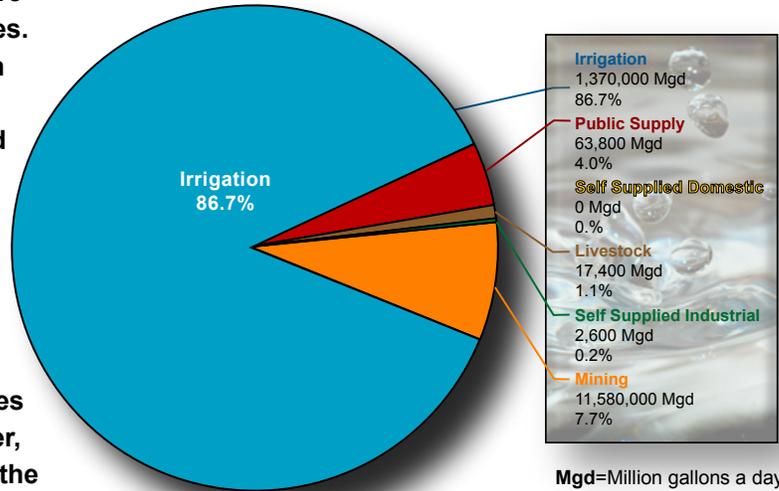


Nebraska

Estimated Total Surface Water Withdrawals

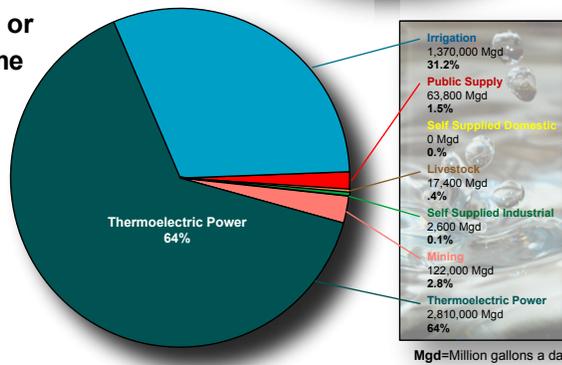
by water use category for the year 2000

Vast quantities of surface and groundwater are used in Nebraska for a wide range of purposes. Surface water is diverted and withdrawn from streams and reservoirs for offstream uses, including hydroelectric power generation and irrigation. It is also used in streams, reservoirs, and lakes for hydroelectric power generation, fish and wildlife uses, livestock watering, and recreation. Groundwater is used for irrigation, water supply for humans and animals, and commercial and industrial uses. In some cases groundwater contributes flow to surface water, as either a deliberate or unintended result of the original use. Groundwater applied to fields for irrigation may infiltrate into aquifers or be discharged into rivers. Also, some groundwater used for public water supply is returned to streams via wastewater treatment plant discharge.



Mgd=Million gallons a day

The pie chart above represents surface water withdrawals by water use category-2000 without thermoelectric or hydroelectric power.



Mgd=Million gallons a day

The pie chart to the left represents surface water withdrawals by water use category-2000 with thermoelectric but not hydroelectric power.

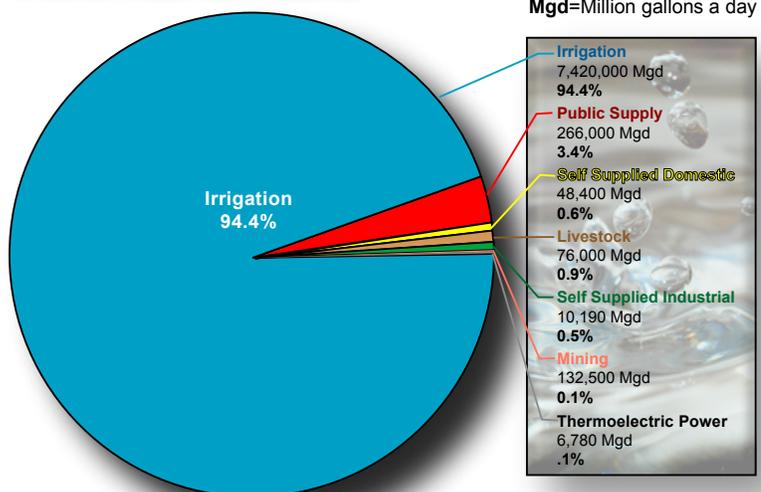


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Estimated Total Groundwater Withdrawals

by water use category for the year 2000

WATER EQUIVALENTS TABLE		
1 Cubic foot.....	7.48 gallons.....	62.4 lbs. of water
1 Acre-foot.....	43,560 cubic feet.....	325,851 gallons
<i>An acre-foot of water covers 1 acre of land 1 foot deep</i>		
1 cubic foot per second (cfs).....	448.8 gallons per minute	
1 cfs.....	646,272 gallons per day	
For 24 hours.....	1.984 acre-feet	
For 30 days.....	59.5 acre-feet	
For 1 year.....	724 acre-feet	
1 million gallons.....	3.07 acre-feet	
1 million gallons per day (mgd).....	1,121 acre feet per year	
1,000 gallons per minute (gpm).....	2.23 cfs	
1,000 gpm.....	4.42 acre-feet per day	
\$.10 per 1,000 gallons.....	\$32.59 per acre-foot	
<i>An acre-foot supplies a family of 5 for 1 year</i>		
<i>An acre-foot irrigates 1/2 acre of corn in most areas of Nebraska</i>		



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Source:
 US Geological Survey, Circular 1268,
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