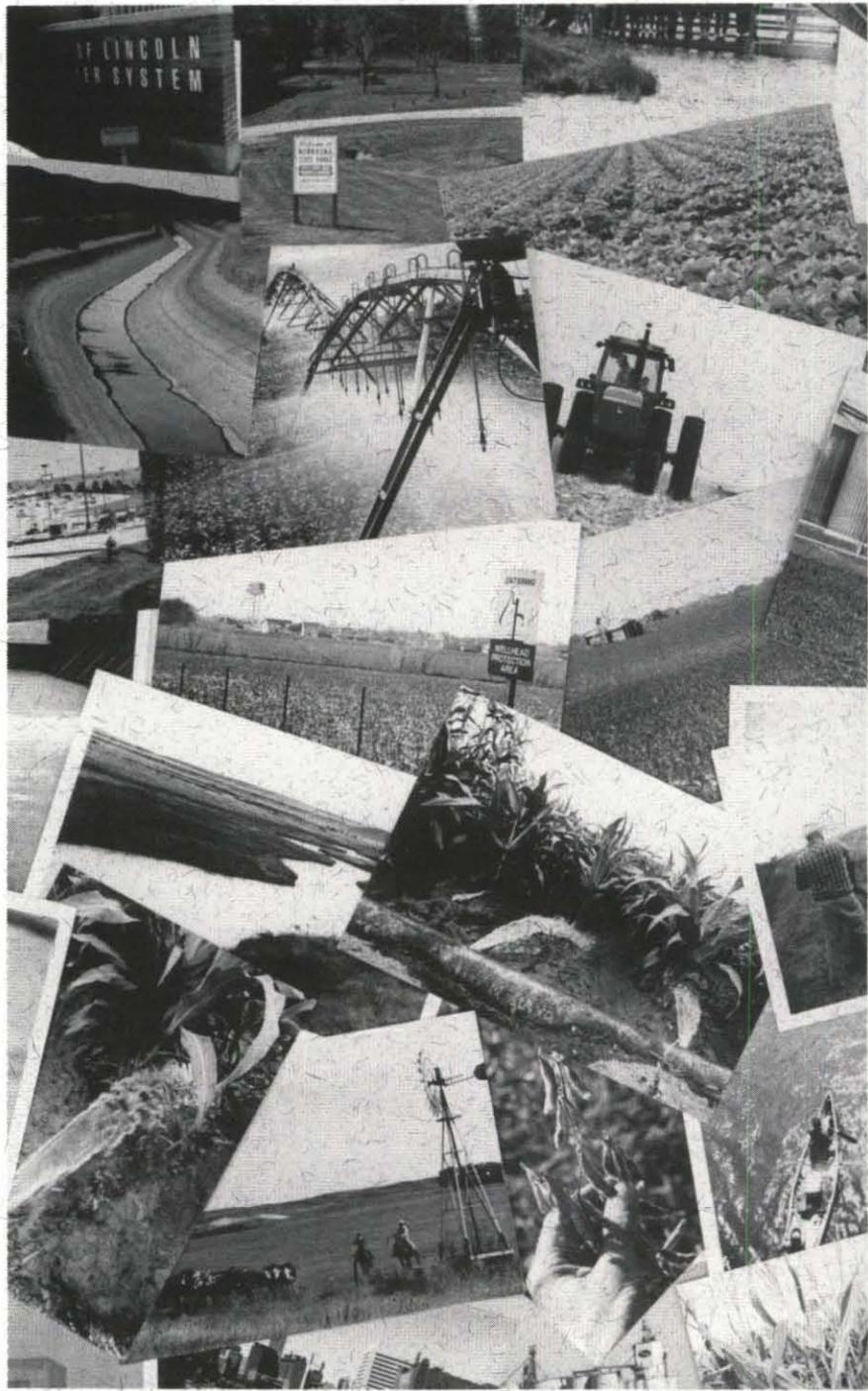


# ESTIMATED WATER USE IN NEBRASKA, 1995



Prepared by  
Nebraska Natural Resources Commission  
State Water Planning and Review Process  
in Cooperation with the  
U.S. Geological Survey  
April 1998



# **ESTIMATED WATER USE IN NEBRASKA 1995**

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**April 1998**

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#### **Natural Resources Commission**

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Director of Natural Resources

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**DEDICATION**

This report is dedicated to Jerry Wallin who retired from the Natural Resources Commission on May 31, 1997 after over 27 years of service. As Head of the Commission's Comprehensive Planning Section Jerry helped coordinate efforts on a variety of reports and provided invaluable work on this volume.

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The Nebraska Natural Resources Commission also makes a variety of natural resources related information available on its homepage at:

**<http://www.nrc.state.ne.us>**

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## GLOSSARY

The terminology used by the U.S. Geological Survey in its series of reports on water use has evolved since 1950. Definitions of terms used in this report follow their usage in the 1990 national report.

**acre-foot** - the volume of water required to cover 1 acre of land to a depth of 1 foot; equal to 43,560 cubic feet or about 326,000 gallons.

**aquifer** - a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

**consumptive use** - that part of water withdrawn that is evaporated, transpired, incorporated into products or crops, consumed by humans or livestock, or otherwise removed from the immediate water environment.

**conveyance loss water** - that is lost in transit from a pipe, canal, conduit, or ditch by leakage or evaporation. Generally, the water is not available for the intended use; however, leakage from an irrigation ditch, for example, may percolate to a ground-water source and be available for further use.

**cooling water** - water used for cooling purposes, such as cooling condensers and nuclear reactors.

**domestic water use** - water for household purposes, such as drinking, food preparation, bathing, washing clothes and dishes, flushing toilets, and watering lawns and gardens.

**evapotranspiration (ET)** - a collective term that includes water discharged to the atmosphere as a result of evaporation from the soil and surface-water bodies and as a result of plant transpiration.

**fossil-fuel power** - electric power generated using fossil fuel (coal, oil, or natural gas).

**gigawatthour (GWh)** - a unit of energy equivalent to one billion watthours.

**ground water** - generally, all subsurface water as distinct from surface water; specifically, that part of the subsurface water in the saturated zone (a zone in which all voids are filled with water).

**hydroelectric power water use** - the use of falling water to drive turbines and generate electric power; usually an instream use.

**hydrologic unit** - a geographic area representing part or all of a surface-drainage basin or distinct hydrologic feature as delineated by the U.S. Geological Survey on State Hydrologic Unit Maps; each hydrologic unit is identified by an eight-digit number, the first four digits of which denote the region and subregion containing the unit.

**instream water use** - water that is used, but not withdrawn, from a ground- or surface-water source for such purposes as hydroelectric power generation, navigation, water-quality improvement, fish propagation, and recreation.

**offstream water use** - water withdrawn or diverted from a surface- or ground-water source for public water supply, industry, irrigation, livestock, thermoelectric power generation, self-supplied domestic use, and other uses.

**per capita use** - the average quantity of water used per person per day, in gallons per day (gal/d) per capita.

**public water supply** - water withdrawn by public water systems and delivered for all uses, such as domestic, commercial, thermoelectric power, industrial, and public water use.

**public water use** - water supplied from a public water system and used for such purposes as firefighting, street washing, and municipal parks and swimming pools.

**saline water** - water that contains more than 1,000 milligrams per liter of dissolved solids.

**self-supplied water** - water withdrawn from a surface- or ground-water source by a user rather than being obtained from a public water supply.

**standard industrial classification (SIC) code** - four-digit codes established by the Office of Management and Budget, used in the classification of establishments by the type of activity in which they are engaged.

**subregion** - geographic area representing a drainage basin or distinct hydrologic feature as delineated by the U.S. Geological Survey on State Hydrologic Unit Maps comprising one or more hydrologic units, and identified by a four-digit number, the first two digits of which identify the region containing the subregion.

**surface water** - an open body of water, such as a stream or a lake.

**water use** - (1) in a restrictive sense, the term refers to water that is actually used for a specific purpose, such as for domestic use, irrigation, or industrial processing. In this report, the quantity of water use for a specific category is the combination of self-supplied withdrawals and public-supply deliveries. (2) More broadly, water use pertains to humans' interaction with and influence on the hydrologic cycle, and includes elements such as water withdrawal, delivery, consumptive use, wastewater release, reclaimed wastewater, return flow, and instream use.

**watthour (Wh)** - an electrical energy unit of measure equal to one watt of power supplied to, or taken from, an electrical circuit steadily for one hour.

## CONVERSION FACTORS

MULTIPLY	BY	TO OBTAIN
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### Area

acre	43,560 4,047 0.001562	square feet square meters square mile
square mile (mi <sup>2</sup> )	2.590	square kilometers

### Volume

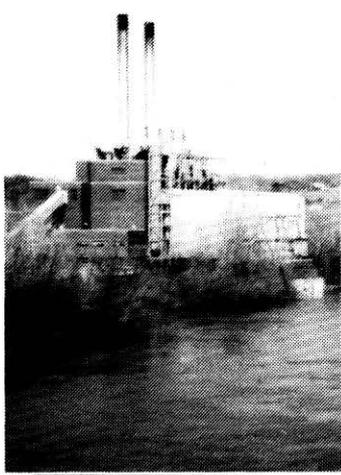
acre-foot (acre-ft)	1,233	cubic meters
inch per acre (in/acre)	2.540	meter per acres
cubic feet (ft <sup>3</sup> )	0.02832	cubic meter
gallon (gal)	3.785	liters

### Flow

million gallons per day (Mgal/d)	1.121 0.001547 0.6944	thousand acre-feet per year thousand cubic feet per second thousand gallons per minute
thousand acre-feet per year (acre-ft/yr)	0.8921 0.001380 0.6195 0.003377	million gallons per day thousand cubic feet per second thousand gallons per minute million cubic meters per day

## ABSTRACT

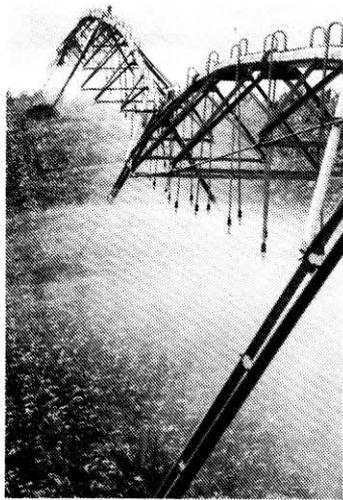
Nebraska water use in 1995 was estimated by Federal and State agencies as part of the U.S. Geological Survey's National Water Use Information Program, which publishes national water-use data every five years. Detailed data from individual water users and public water suppliers were aggregated and merged with less-detailed estimates of all types of uses to produce county- or hydrologic unit-level estimates. Total estimated water use in Nebraska was about 28,295,800 acre-feet, which is an average use rate of 25,241.59 million gallons per day. Surface water provided 19,040.61 million gallons per day, 75.4 percent of total water use. Ground water provided 6,200.98 million gallons per day, 24.6 percent of the total.



The largest use of water, 17,354.26 million gallons per day, was for power generation. More than 99.9 percent (17,349.83 million gallons per day) of this use was from surface water. It accounted for 91.1 percent of the total surface water used. Surface water was withdrawn by public water systems for domestic, industrial, and commercial uses. It also was withdrawn for self-supplied industrial, mining, and power generation uses. Streamflow was increased in some places by municipal wastewater treatment discharges and irrigation return flow, but some surface water was lost to evaporation from reservoirs.

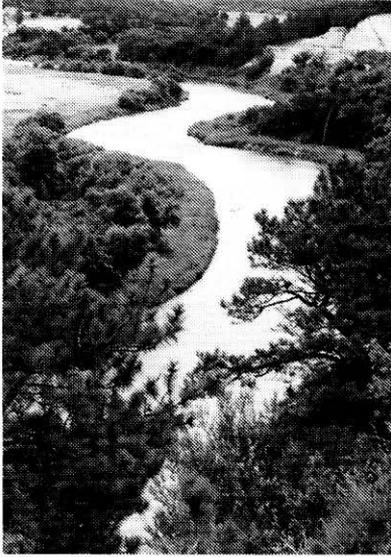
*The largest use of water, 17,354.26 million gallons per day, was for power generation.*

Irrigation was the largest use of ground water, 5,776.60 million gallons per day. It accounted for 93.1 percent of the total ground water used. Ground water provided 81.3 percent of the water withdrawn for public water supplies, 232.25 million gallons per day, and all of the self-supplied domestic use, 41.85 million gallons per day. Only 4.7 million gallons per day of saline ground water, 0.1 percent of ground-water withdrawals, were used, all for mining. Tables and choropleth maps show statewide distributions of water use by type, county, and subregion.



*Irrigation was the largest use of ground water, 5,776.60 million gallons per day.*

## Chapter One



### INTRODUCTION TO NEBRASKA AND THE WATER USE STUDY

Vast quantities of surface and ground water 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. Ground water is used for irrigation, water supply for humans and animals, and commercial and industrial uses. In some cases ground water contributes flow to surface water, as either a deliberate or unintended result of the original use. In several places, ground water is pumped to maintain water levels in lakes and wetlands. Groundwater applied to fields for irrigation may infiltrate into aquifers and be discharged into rivers. Also, some ground water used for public water supply is returned to streams via wastewater treatment plant discharge.

Since 1950, demand for water for domestic, industrial, agricultural, recreational, and fish and wildlife uses has increased dramatically. Competition for available water supplies has produced conflicts over the use of surface and ground water between users within the State, and between adjacent states. Careful management of the State's water resources is required to balance competing needs for available water. To make informed management decisions, accurate and comprehensive water-use data are needed at both the State and National levels. The Natural Resources Commission (NRC), the State's water resources planning agency, is cooperating with the U.S. Geological Survey (USGS) to develop water-use data needed for planning and management.

The purpose of the USGS's National Water-Use Information Program is to establish and maintain a water-use database in each state that is responsive to the needs of water managers at the State and National levels. The system provides for the collection, storage, manipulation, and dissemination of water-use data from government agencies, industrial and commercial establishments, public utility systems, agricultural and irrigation entities, and domestic developments. The system includes data on water withdrawals and returns by aquifer, county, and hydrologic unit. Estimates are used where water-use measurements are not available.

The USGS has published reports on estimated use of water in the United States at 5-year intervals since 1950, and has cooperated in the publication of reports on water use in Nebraska since 1965. The NRC has cooperated with the USGS to collect and compile this information for 1990 and 1995.

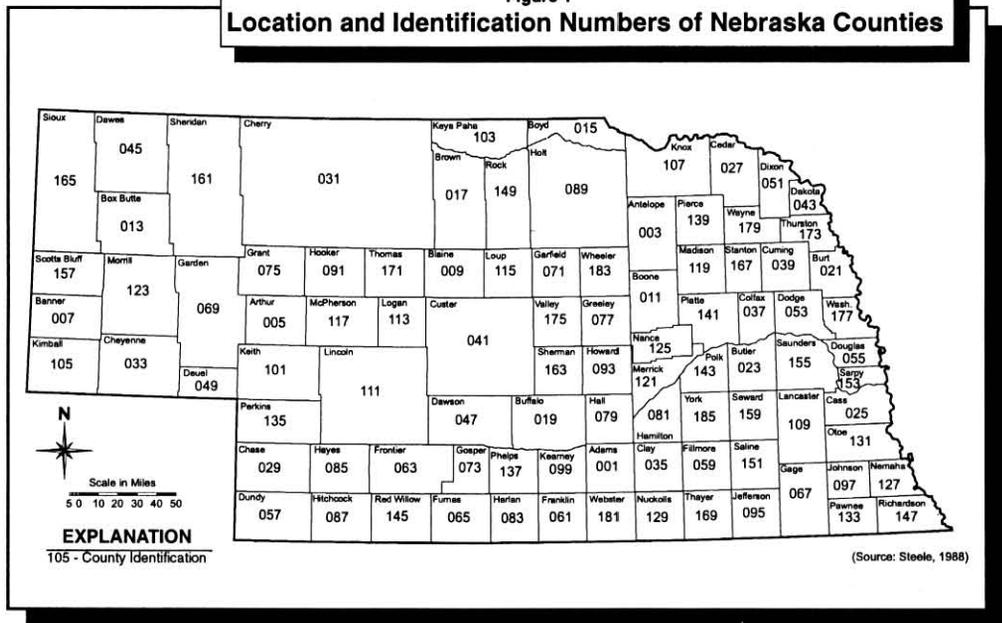
## SCOPE OF THE REPORT

This report presents estimates of water use in Nebraska for 1995 as compiled for the USGS National Water-Use Information Program. Estimates for 13 categories of use are given for Nebraska counties, and water-resources subregions and cataloging units in tables at the end of the report. These units are identified by unique hydrologic unit codes (HUC) that are 4 and 8 digits long, respectively. Although the term HUC can be used to refer to any of the 2- and 8-digit hydrologic units, to remain consistent with the terminology used in the 1985 and 1990 reports, the term is used in the text to mean the 8-digit hydrologic cataloging unit specifically. Associated data such as power generated and the number of acres irrigated, also are given. Data on use of water by aquifer are available from the USGS.

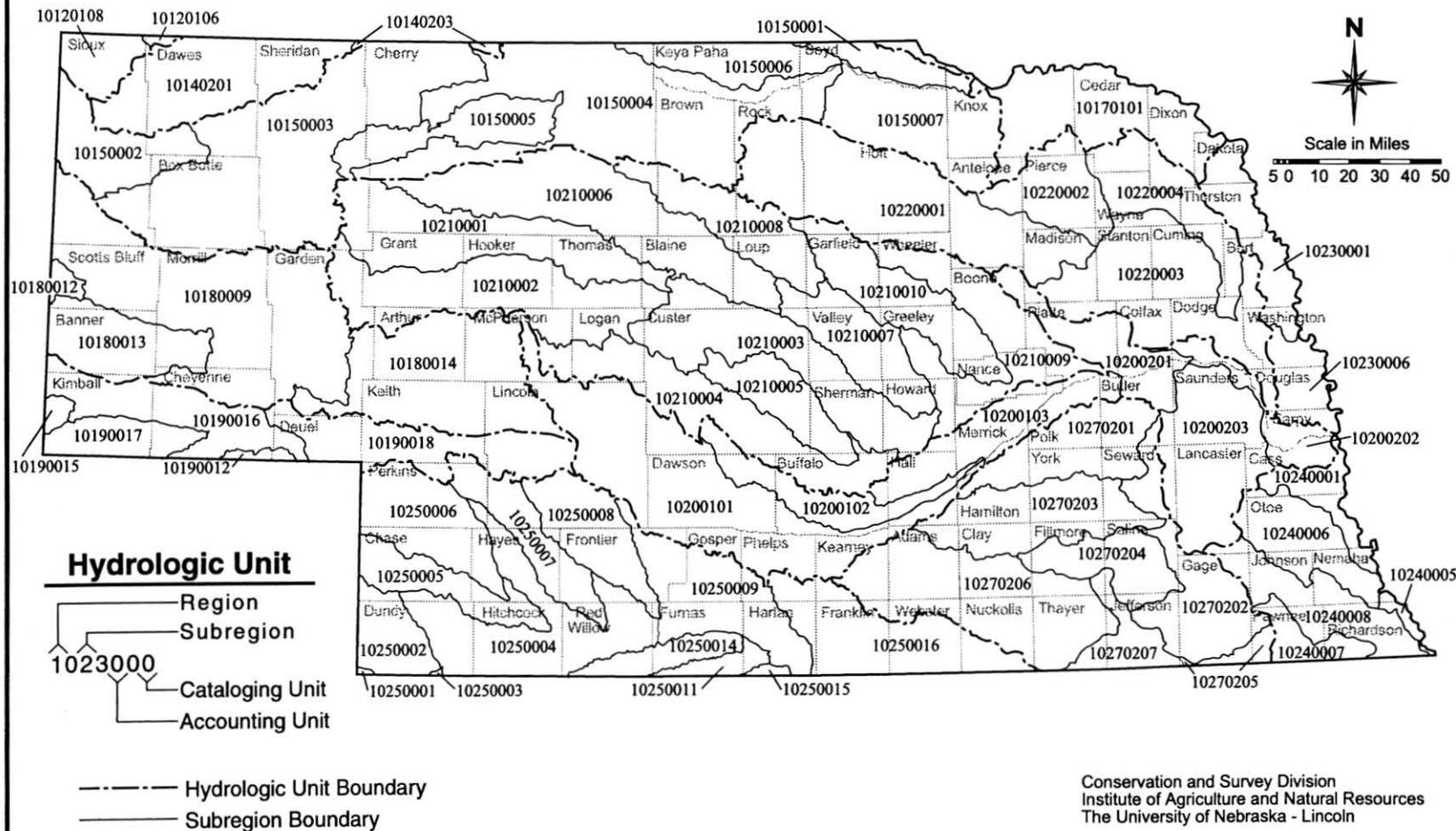
County locations and identification numbers are shown in figure 1; hydrologic unit and subregion boundaries are shown in figure 2; and Nebraska river basins, which are generally the equivalent of the subregions, are shown in figure 3.

Site-specific data from individual industries and public water suppliers have been aggregated with less-detailed estimates to produce water-use estimates at the county or HUC level. Variability in the data and methods of estimation produced less accurate estimates of some types of uses, but results are presented as reported in the U.S. Geological Survey's Aggregate Water-Use Data System.

**Figure 1**  
**Location and Identification Numbers of Nebraska Counties**

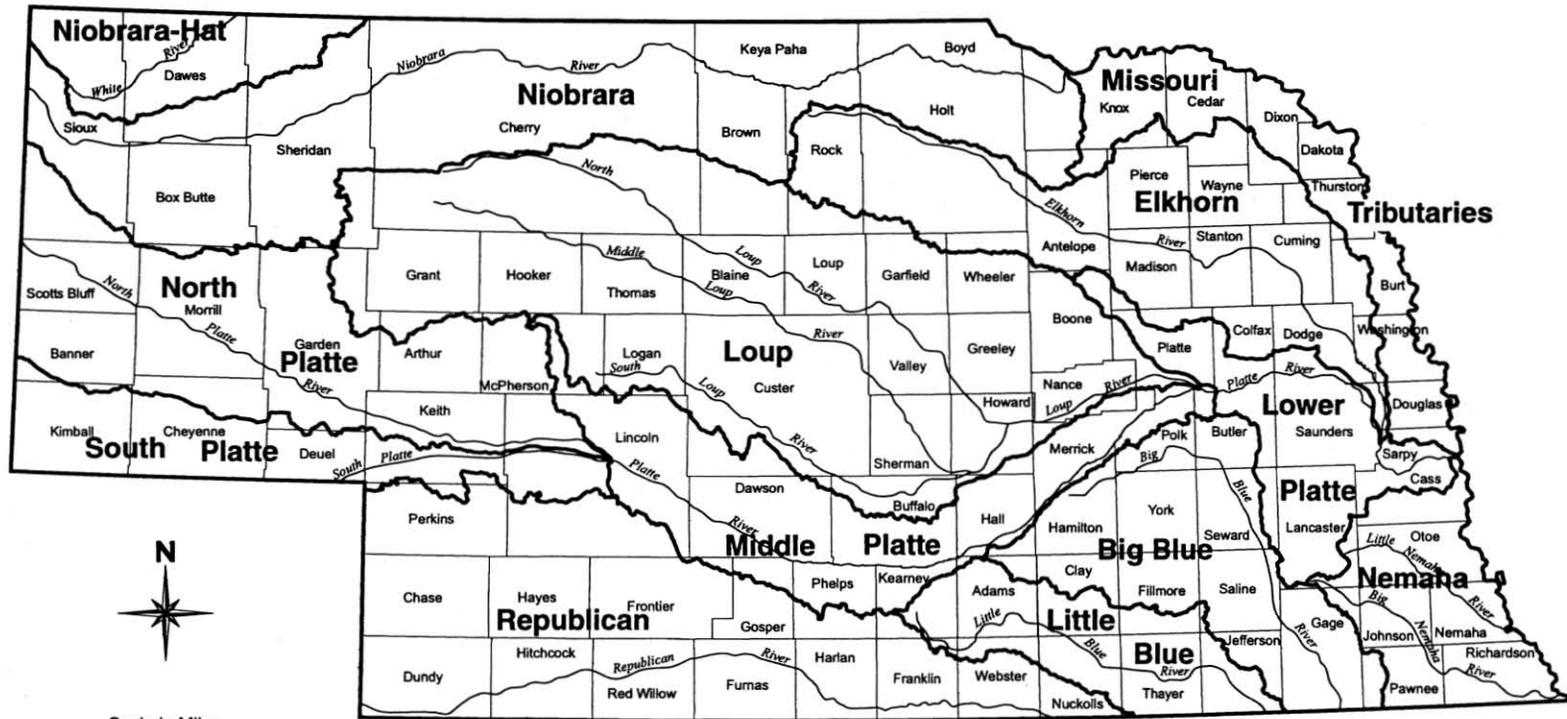


**Figure 2**  
**Hydrologic Units and Subregions of Nebraska**



Estimated Water Use in Nebraska, 1995

Figure 3  
Nebraska River Basins



Environmental Quality (DEQ), and Water Resources (DWR), Nebraska Oil and Gas Conservation Commission, Nebraska Game and Parks Commission, University of Nebraska-Lincoln Conservation and Survey Division, Central Nebraska Public Power and Irrigation District, Nebraska Public Power District, Omaha Public Power District, Metropolitan Utilities District (MUD), and the City of Lincoln Water System.

We especially wish to express our gratitude to the personnel of the Nebraska Health and Human Services System (HHS), Department of Regulation and Licensure (formerly the Nebraska Department of Health) for their assistance and advice on public water supplies.

### NEBRASKA RESOURCES

Nebraska covers an area of 77,227 square miles. There are 93 counties and all or part of 68 HUCs in the state. The population, climate, and land use vary greatly between counties and HUCs.

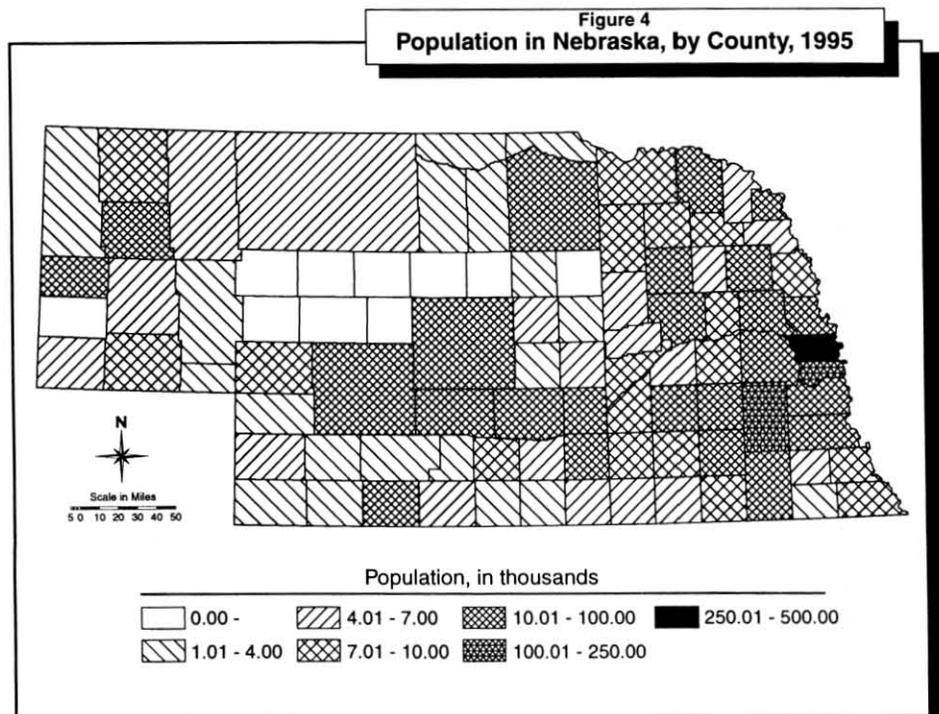
#### Population

The Nebraska population in the 1990 census was 1,578,385 [16]. The State population in 1995, estimated by the Bureau of the Census, was 1,637,112 (U.S. Department of Commerce, Bureau of the Census, 1995, Federal State Cooperative Program for Population Estimates, @ <http://www.census.gov/population/www/coop/fscpe.html>). Population ranges in Nebraska, for 1995 are shown by county in figure 4 and subregion in figure 5.

The 1990 census indicated that most people lived in urban areas with populations over 2,500, but the majority of the cities and villages

*66% of the state population lives in urban areas, with 48.5% of those in three metropolitan areas in eastern Nebraska.*

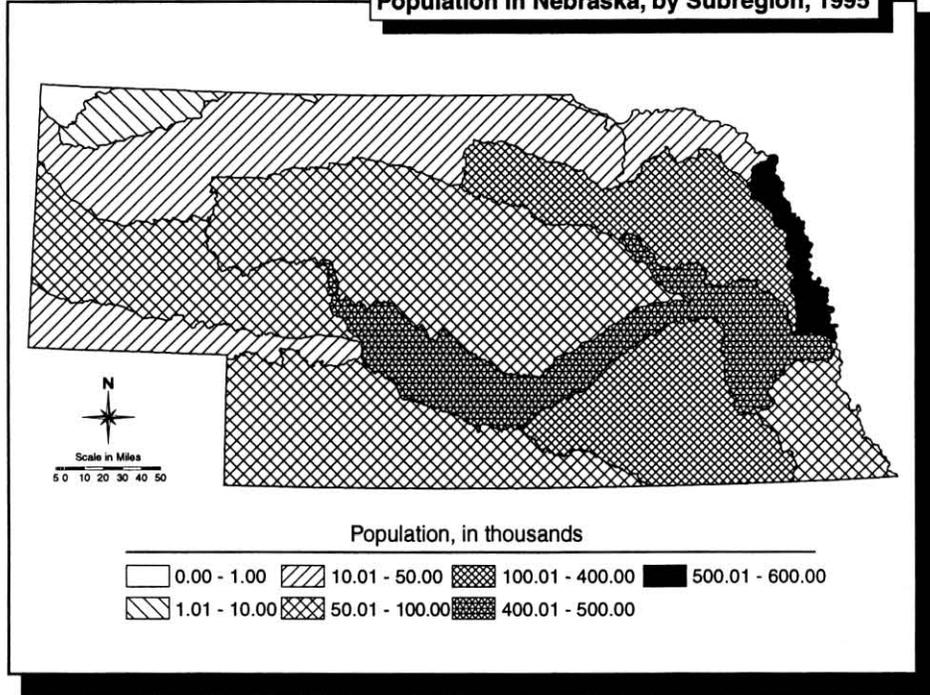
had populations under 1,000. The population living in urban areas was 1,043,984, which was 66 percent of the State population. Three Metropolitan Statistical Areas (MSAs) located in eastern Nebraska had a combined population of 766,017, which



was 48.5 percent of the state's population [16].

In 1995 there were 535 incorporated cities and villages in Nebraska [12]. Of the 535 municipalities, 420 or 78% had a population less than 1,000, and 84 had less than 100 people.

**Figure 5**  
**Population in Nebraska, by Subregion, 1995**



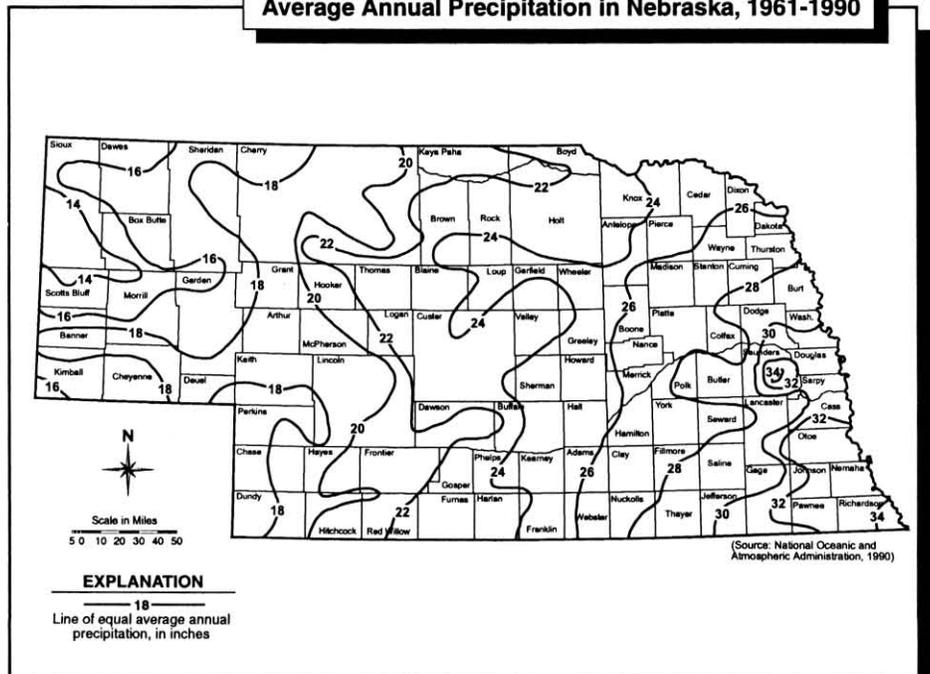
**Climate**

The climate varies across Nebraska from east to west, and departures from average climatic values vary significantly from year to year. The length of the growing season and precipitation patterns, and the departure from average significantly influence the choice of crops grown and the amount of water used for irrigation and other purposes. The growing season decreases from approximately 170 days in the southeast to 120 days in the extreme northwest.

Average annual precipitation (1961-90), which ranges from about 34 inches in the southeast to about 14 inches in the western Panhandle, is shown in figure 6.

Weather is also highly variable during the year. For example, nearly two-thirds of the annual precipitation usually occurs

**Figure 6**  
**Average Annual Precipitation in Nebraska, 1961-1990**

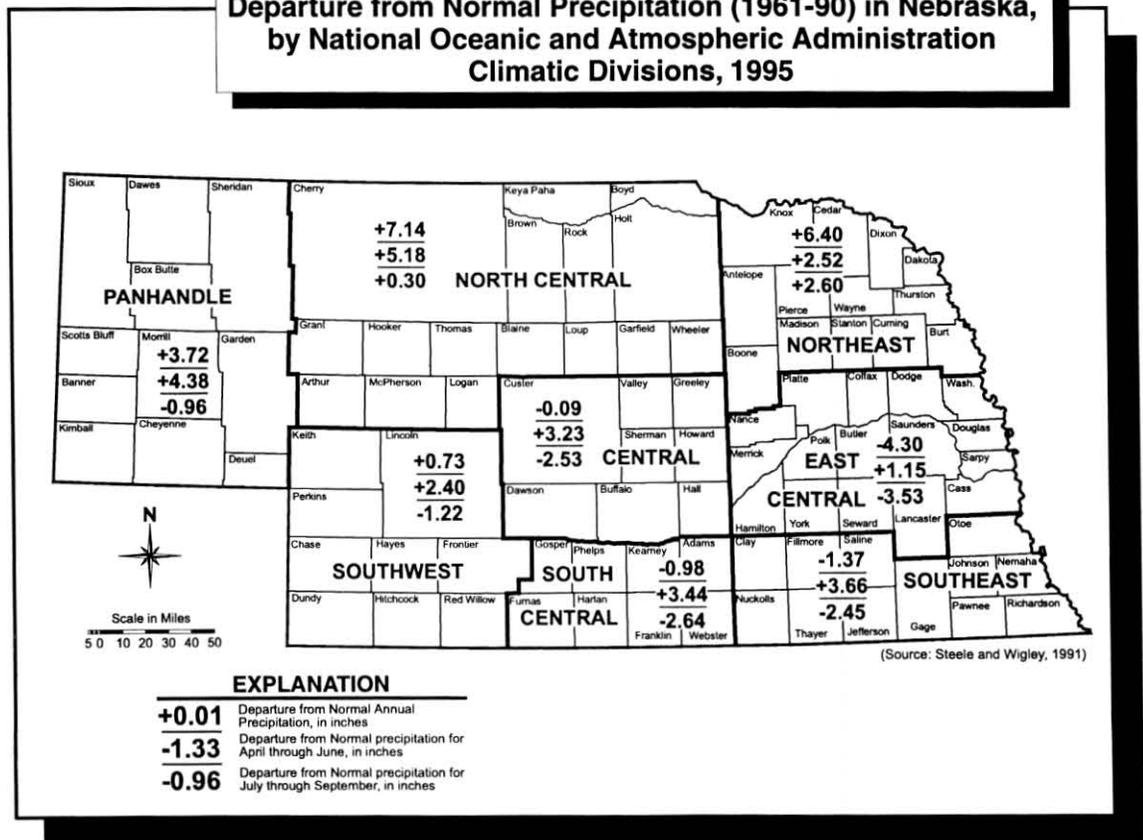


during the growing season (from April through September), with thunderstorms providing significant amounts of precipitation. Such storms vary greatly in intensity, total rainfall, and areal coverage,



creating significant disparities between regions. Based on the climate differences in the state, the National Oceanic and Atmospheric Administration divides Nebraska into eight divisions [7]. The departure from normal precipitation for the 1995 growing season and calendar year in the eight climatic divisions is shown in figure 7. Above average precipitation for April through June 1995 for all eight divisions, and below average precipitation in six of the eight divisions from July through September affected irrigation, domestic, and other water uses [8].

**Figure 7**  
**Departure from Normal Precipitation (1961-90) in Nebraska,**  
**by National Oceanic and Atmospheric Administration**  
**Climatic Divisions, 1995**



**EXPLANATION**

- +0.01** Departure from Normal Annual Precipitation, in inches
- 1.33** Departure from Normal precipitation for April through June, in inches
- 0.96** Departure from Normal precipitation for July through September, in inches

## WATER AND LAND RESOURCES

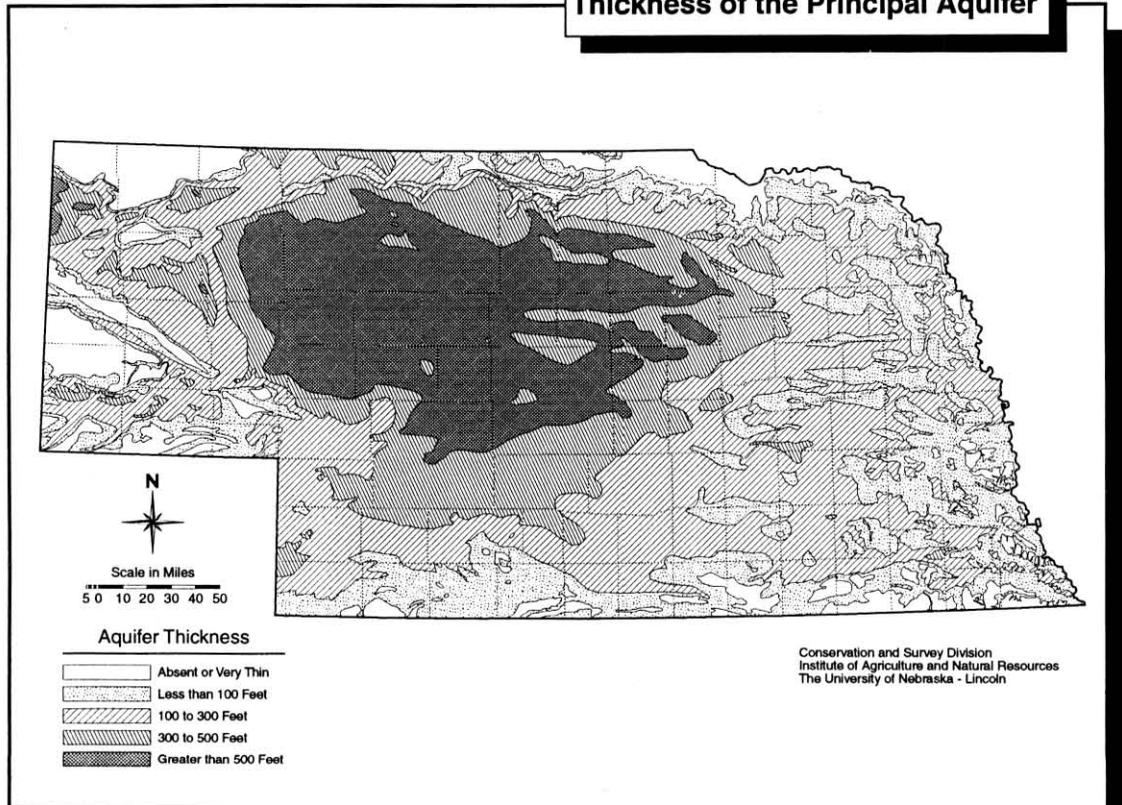
Major surface-water sources include the Niobrara, Platte, Loup, Elkhorn, Missouri, Nemaha, Republican, Big Blue, and Little Blue Rivers (figure 3). Ground-water supplies are mostly derived from the High Plains aquifer, which underlies most of the State and is comprised principally of the Ogallala Formation and aquifers of Quaternary age. The thickness of the principal aquifer is shown in figure 8.

According to the 1992 Census of Agriculture [17], the amount of land in farms was 44,393,129 acres, which was 89.8 percent of the total area in Nebraska. About half (22,402,132 acres) of the land in farms was cropland. About 6,039,000 acres of cropland and pasture were irrigated in 1982. This number declined to 5,682,000 acres irrigated in 1987, then rose again to 6,312,000 in 1992. It was estimated that the growth in the amount of irrigated cropland and pasture continued into 1995, when irrigated land had further increased to more than 7,448,700 acres (National Agricultural Statistics Service, Internet homepage @ <http://usda.mannlib.cornell.edu/cgi-usda/agency.cgi?nass> and Nebraska Agricultural Census Internet homepage @ <http://govinfo.kerr.orst.edu/cgi-bin/ag-state?Nebraska>).

*The amount of land in farms, 44,393,129 acres, was 89.8 percent of the total area in Nebraska.*



**Figure 8**  
**Thickness of the Principal Aquifer**



# Chapter Two



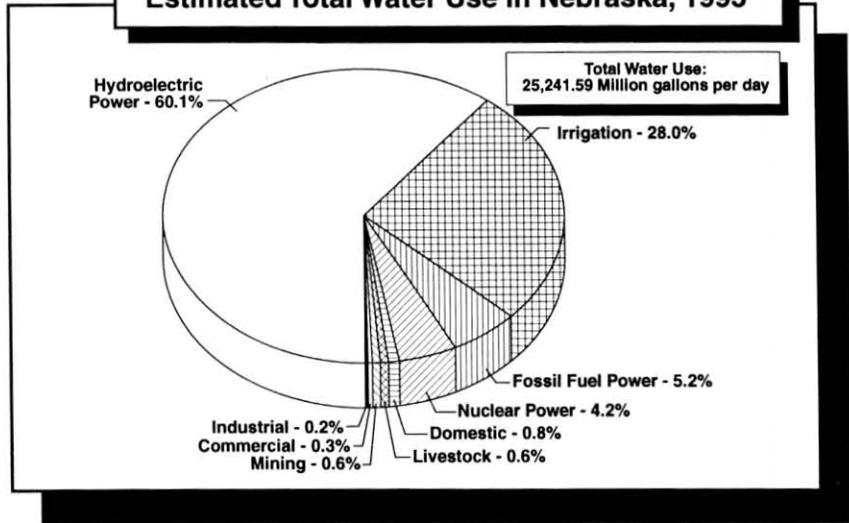
## ESTIMATED WATER USE IN NEBRASKA, 1995

The estimated volume of water used in Nebraska during 1995 was 28,295,800 acre-feet, a rate of 25,241.59 million gallons per day (Mgal/d), if averaged over the entire year. The per capita use rate was 15,418.30 gallons per day for the population of 1,637,112. The largest use of water in 1995, 17,354.26 Mgal/d (Table 20 and abstract), was for power generation. Of the total water used, 180.93 Mgal/d were released to streams by public wastewater treatment facilities.

Total water use for 1995 given in this report includes 245.45 Mgal/d lost by evaporation from large reservoirs. Reservoir evaporation was not reported as part of total water use in 1985 and 1990. Estimated water use by category during 1995, as shown in figure 9, excludes reservoir evaporation, so it may be compared with previous reports.

Total surface water use of 19,040.61 Mgal/d was 75.4 percent of total water use in the State. Estimated use of surface water, excluding reservoir evaporation, of 18,795.16 Mgal/d accounted for 74.5 percent of the total water use.

**Figure 9**  
**Estimated Total Water Use in Nebraska, 1995**



Hydroelectric power generation alone used 15,001.23 Mgal/d, 79.8 percent of non-evaporation use. Electric power generation of all types used 17,349.83 Mgal/d, 92.3 percent. Irrigation was the second largest use of

surface water, withdrawing 1,219.78 Mgal/d, only about 6.5 percent. No saline surface water was used in Nebraska in 1995. Estimated surface-water use by category is shown without reservoir evapora-

tion losses in figure 10, so it can be compared with 1985 and 1990 graphs.

Estimated ground-water use of 6,200.98 Mgal/d accounted for the remaining 24.6 percent of total water use in Nebraska during 1995. Only 4.70 Mgal/d of the ground water used was saline water. Estimated irrigation use of 5,776.60 Mgal/d was 93.1 percent of the total ground water used in 1995. The second largest

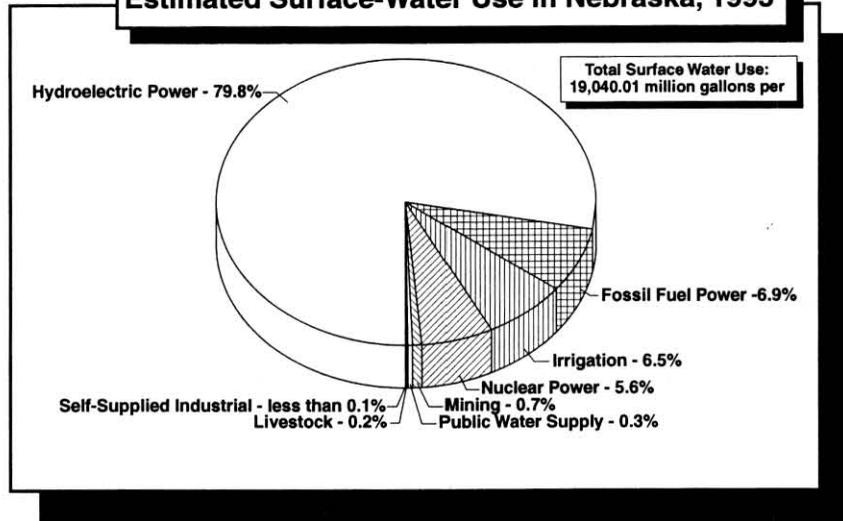
use of ground water, public water supplies, was 232.25 Mgal/d, which was less than 4 percent of total ground water use. In contrast with surface-water, ground-water use for fossil fuel power generation was only 4.4 Mgal/d, less than 0.1 percent of all ground-water use. Estimated ground-water use by category is shown in figure 11.

Excluding use of surface water for power production and reservoir evaporation, which are largely non-consumptive, estimated total water use in Nebraska in 1995 was 7,646.31 Mgal/d, or 8,571,500 acre-feet. Ground water accounted for 81.1 percent of this total, and surface water accounted for 18.9 percent.

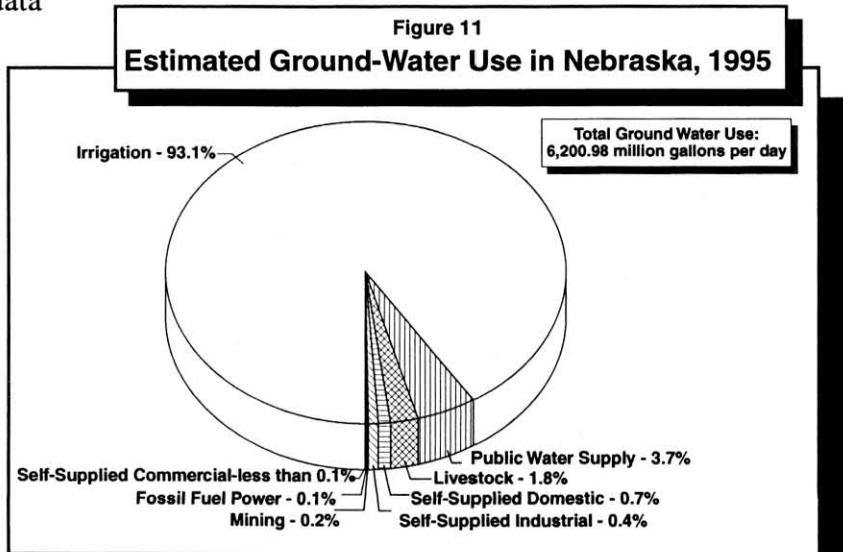
**PUBLIC WATER SUPPLY**

The Nebraska HHS uses the same definition for public water supply (PWS) systems as the Federal Safe Drinking Water Act. In 1995, Nebraska's public water supply systems included: municipalities, manufactured home courts, sanitary improvement districts, rural water districts, subdivisions, Indian reservation systems, and the Metropolitan Utilities District. Withdrawals and deliveries were estimated for a total of 556 PWSs for which adequate data were available in 1995. This was only a portion of the total number of public water systems, but the remaining non-community systems were limited in the type and/or extent of service provided. Water withdrawn by PWSs was delivered to customers, used by the system for internal uses, or lost in

**Figure 10**  
**Estimated Surface-Water Use in Nebraska, 1995**

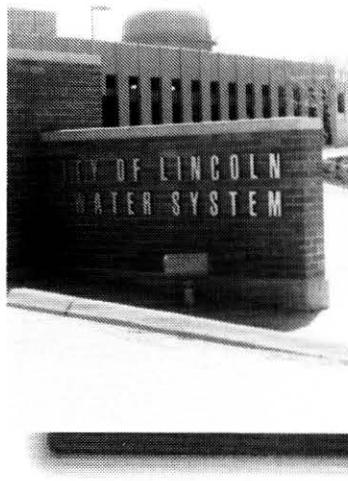


**Figure 11**  
**Estimated Ground-Water Use in Nebraska, 1995**



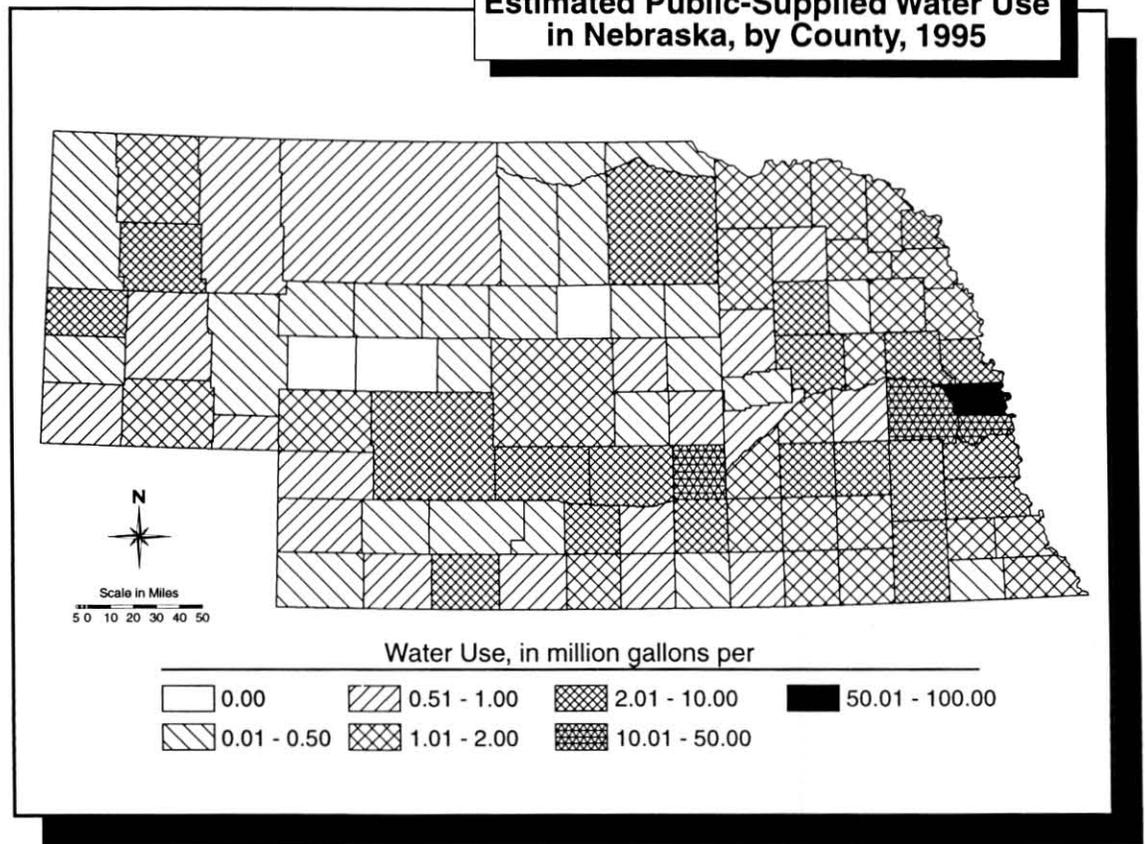
transmission. Deliveries of water for domestic, industrial, commercial, and public water uses, and thermoelectric power generation were provided by these systems. Some delivered water to other PWSs as well as individual users. Many systems, or their supply and transmission

lines, cross county and HUC boundaries, so withdrawal and delivery data do not always balance within units. For example, Lincoln's main well field is located outside Lancaster County, so deliveries in Lancaster County greatly exceed withdrawals.



Estimated water withdrawals by PWSs, 285.73 Mgal/d, were 1.1 percent of total water use during 1995. Ground water provided 81.3 percent (232.25 Mgal/d), and surface water provided the remaining 18.7 percent of public-supplied water withdrawals (53.48 Mgal/d). Of water withdrawn by public-supply systems, 54.4 percent was delivered to domestic users. The remaining 45.6 percent (130.32 Mgal/d) was used for industrial, commercial, thermoelectric, and other public water uses, or lost in transmission.

**Figure 12**  
**Estimated Public-Supplied Water Use**  
**in Nebraska, by County, 1995**



Ranges of PWS withdrawals are shown by county in figure 12 and by subregion in figure 13. Withdrawals of surface and ground water

for public-supplied water use are given by county in table 1, and by HUC and subregion in table 2, at the end of this report.

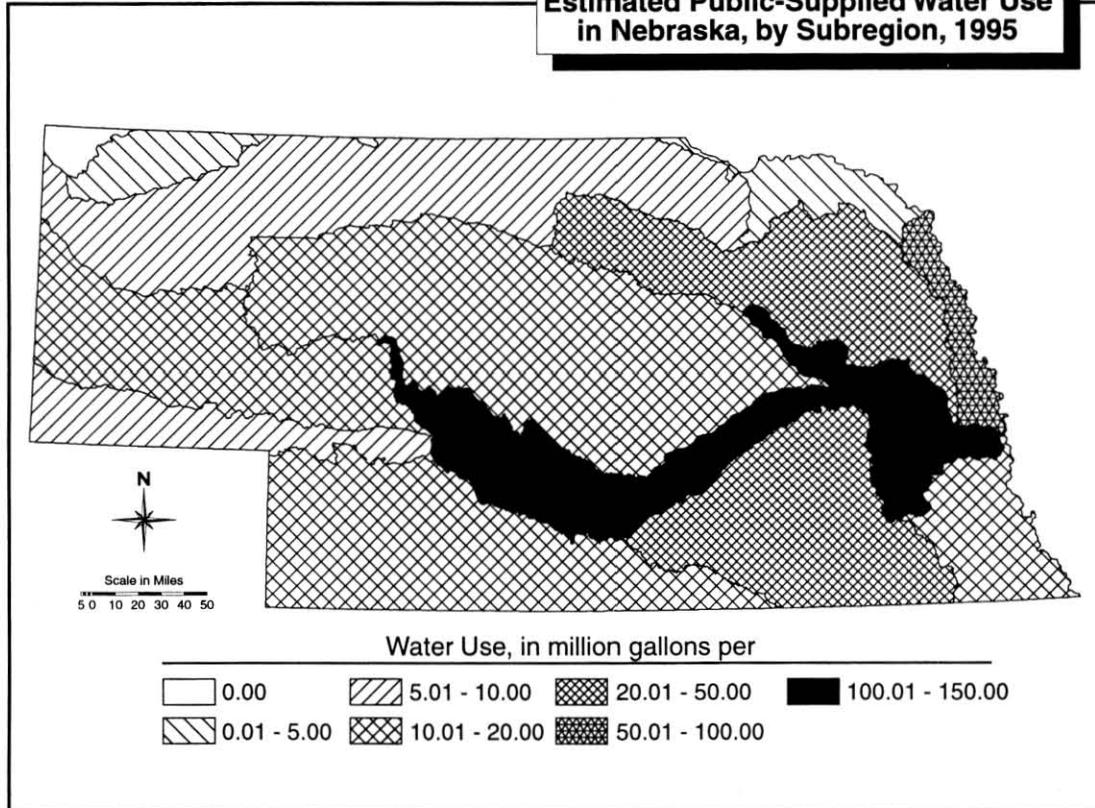
Data were requested from 556 (including Lincoln and MUD) public water suppliers in 1996. Responses were

received from 349, including detailed data supplied by the MUD and City of Lincoln Water System and 296 were used as reported in calculations of county and HUC totals. Data also were used to calculate average per capita withdrawal rates in three different zones across the State delineated by HHS [3].

Estimates of withdrawals by PWSs that did not respond to the survey were based on these averages and the 1995 population served. Responses also were used to calculate statewide average percentages of withdrawals used for total domestic, industrial, and commercial (DIC) delivery and system losses.

Location and sources of withdrawal were identified using data bases maintained by the HHS and DWR and other agencies. Where necessary, locational data were converted to latitude and longitude, and all locational and identification sources were entered into geographical information systems (GIS) software to locate them by county and HUC. If withdrawal data were not identified by source, estimated withdrawal was apportioned equally to the PWSs wells and intakes from other PWSs.

**Figure 13**  
**Estimated Public-Supplied Water Use in Nebraska, by Subregion, 1995**



**DOMESTIC WATER USE**

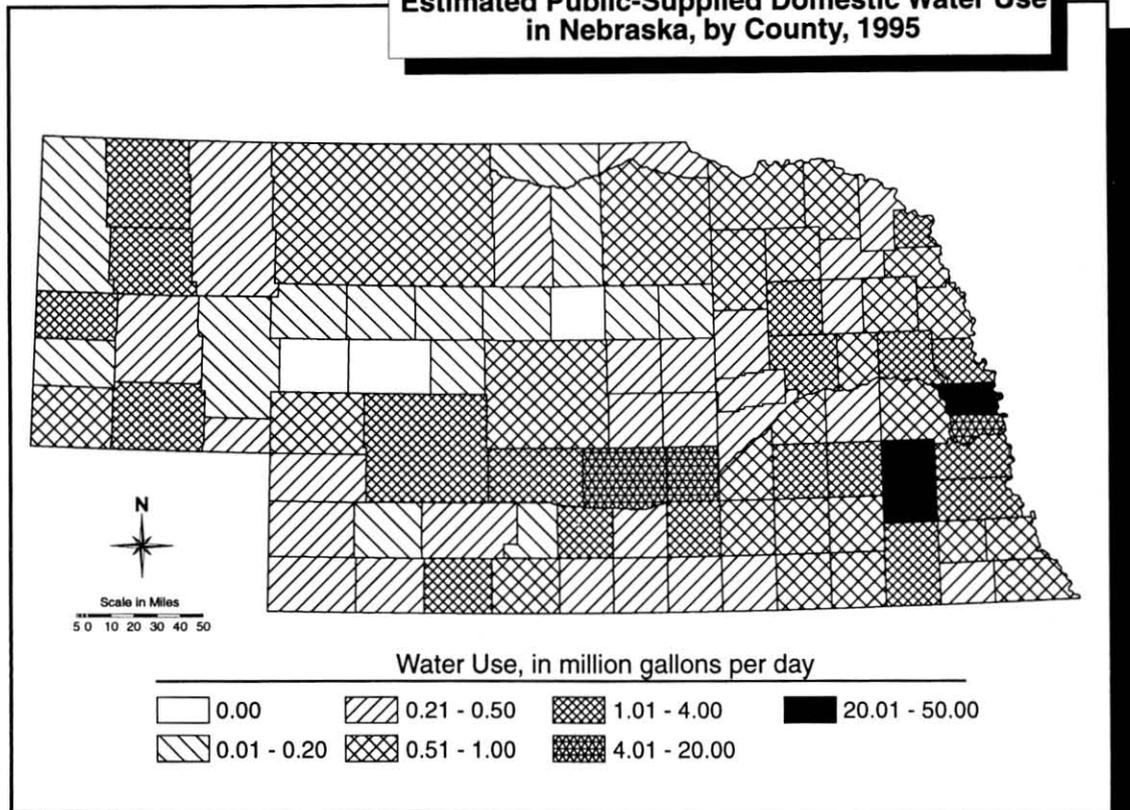
Domestic use includes watering lawns and gardens, as well as general household uses. Estimated domestic water use in 1995 was 197.25 Mgal/d, a statewide average of 120 gal/d per capita. Estimates of total domestic water use by county and by HUC and subregion during 1995 are given in tables 3 and 4, respectively. County domestic use ranged from 0.07 Mgal/d in Arthur County to 50.74 Mgal/d in Douglas County. Subregion domestic water use ranged from 0.05 Mgal/d in subregion 1012 to 63.31 Mgal/d in 1023. Domestic water supplies were provided by deliveries from public water systems or by self-supplied withdrawals.

**Public-Supplied Domestic Water Use**

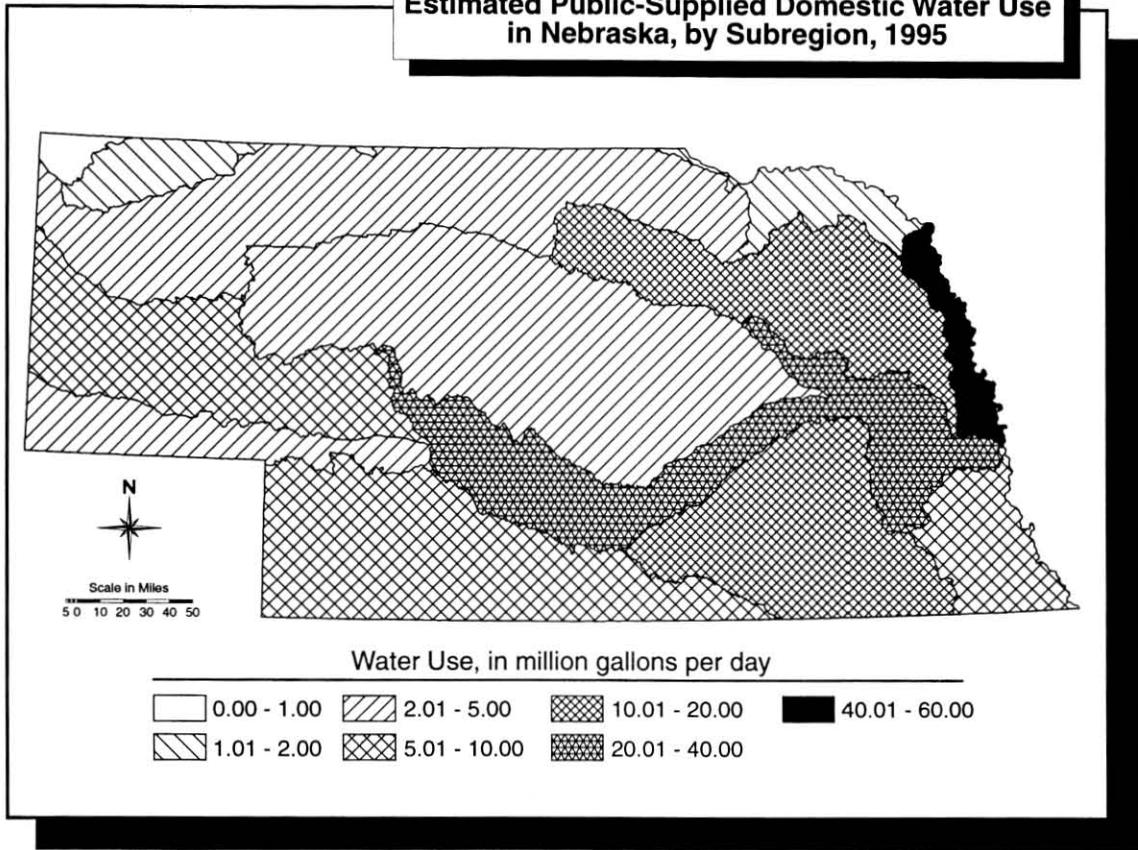
Public-supplied domestic water use in 1995 ranged from none in Arthur, Loup, and McPherson Counties, which had no municipal systems or rural water districts, to 44.41 Mgal/d in Douglas County (table 5). Douglas County was one of three areas in the Omaha MSA. The MUD served most of the population of that area. Domestic use in subregions ranged from slightly less than 0.01 Mgal/d in subregion 1012 in the northwestern corner of the state, to 58.14 Mgal/d in subregion 1023, which includes the most of the Omaha, Nebraska-Iowa MSA (table 6). Public-supplied domestic water use by county is shown

in figure 14 and by subregion in figure 15.

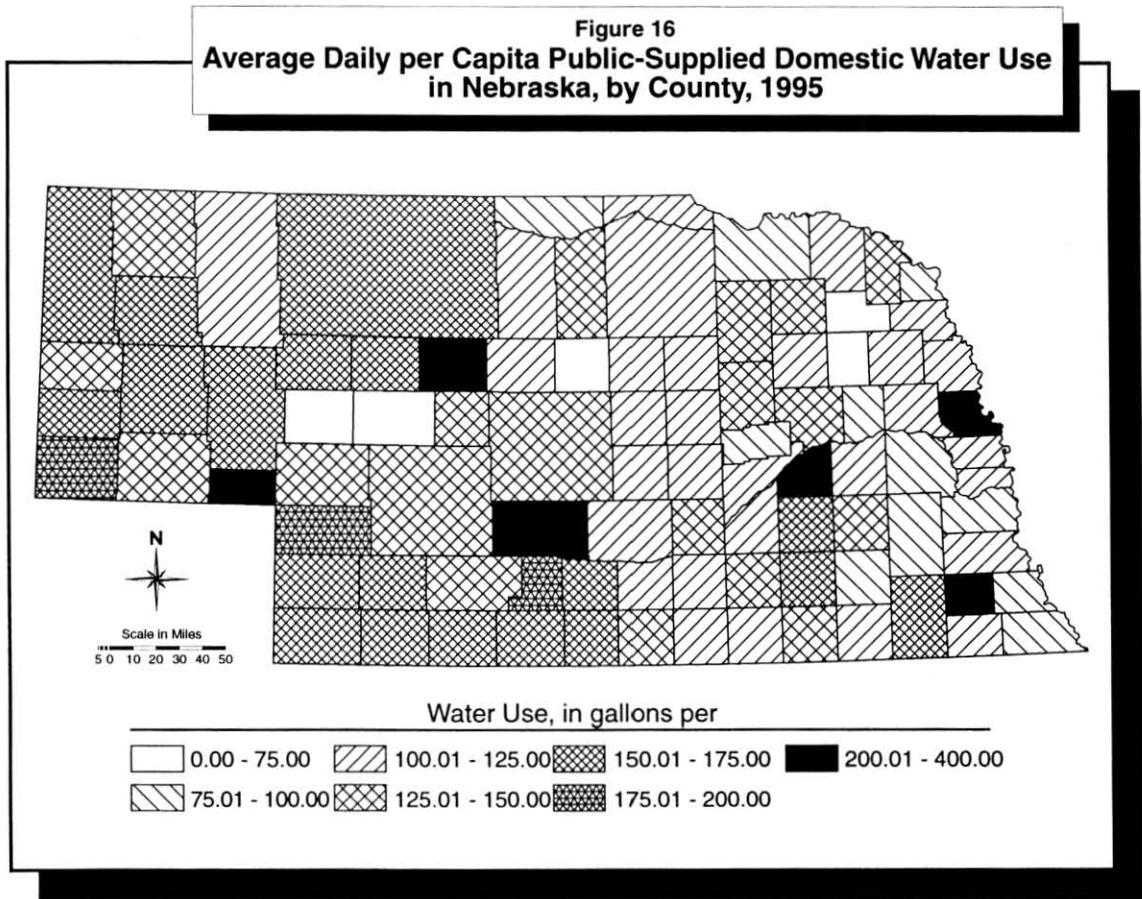
**Figure 14**  
**Estimated Public-Supplied Domestic Water Use in Nebraska, by County, 1995**



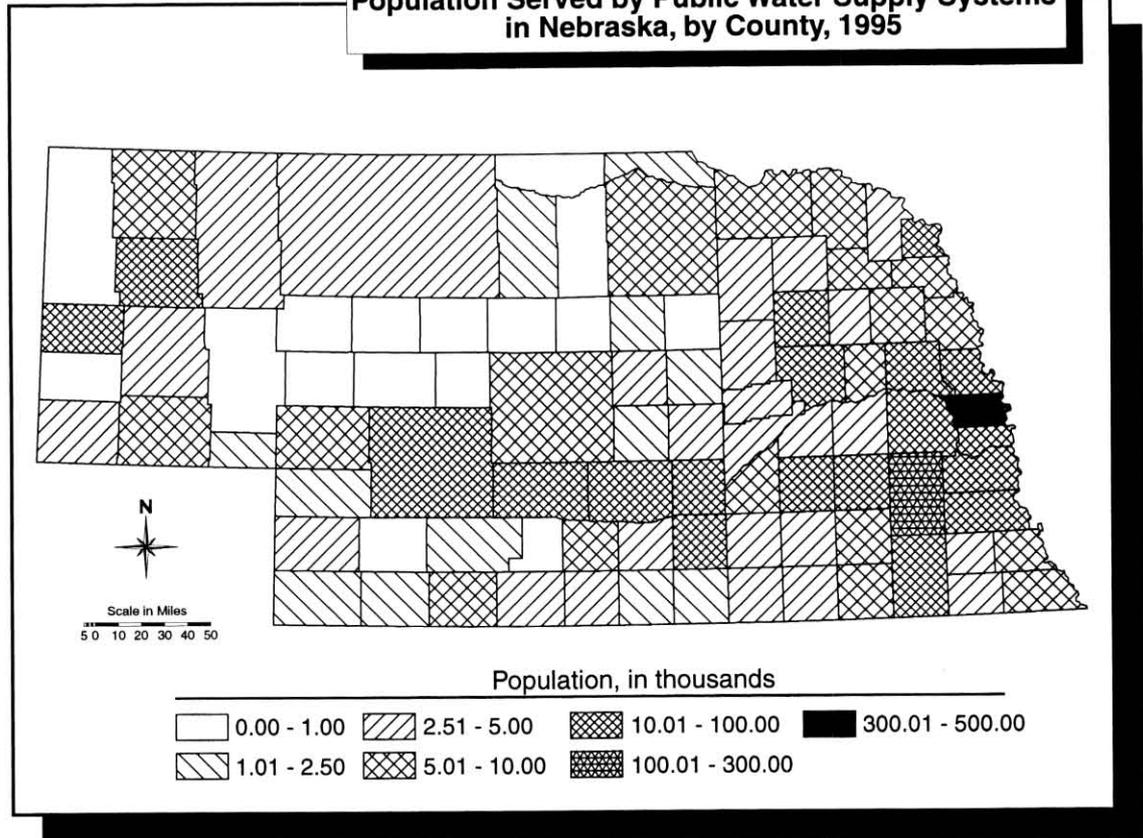
**Figure 15**  
**Estimated Public-Supplied Domestic Water Use**  
**in Nebraska, by Subregion, 1995**



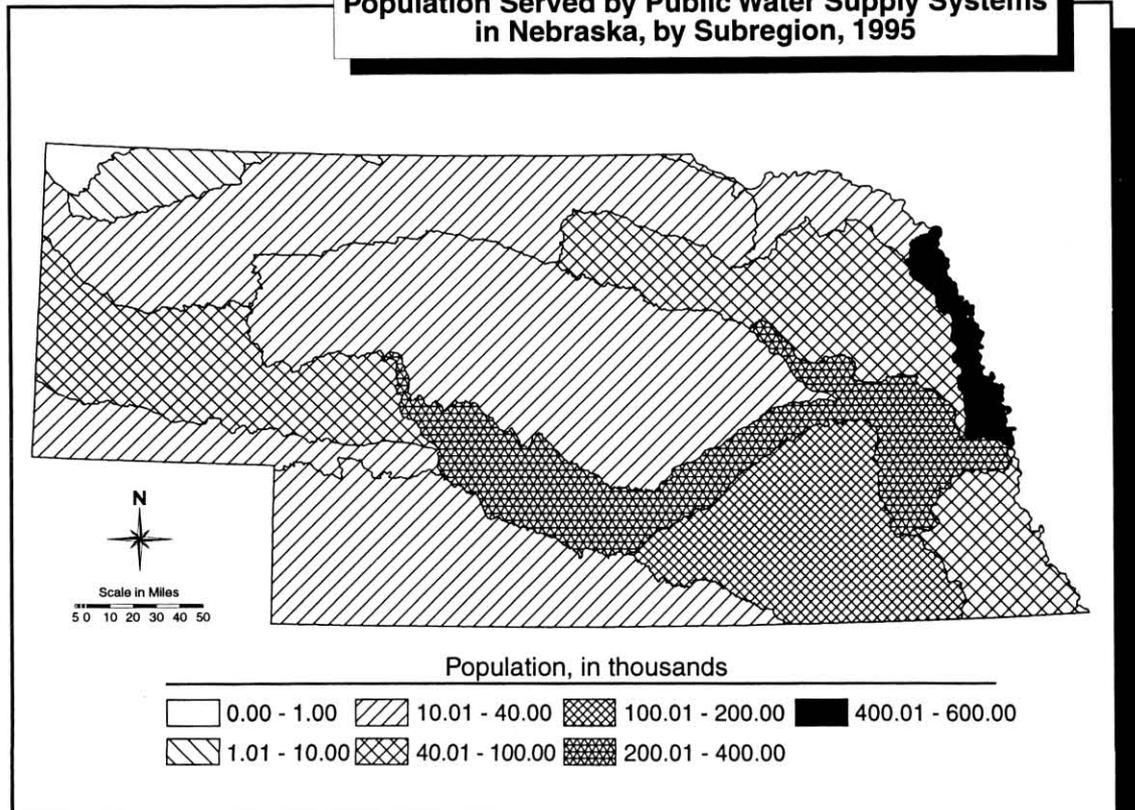
**Figure 16**  
**Average Daily per Capita Public-Supplied Domestic Water Use**  
**in Nebraska, by County, 1995**



**Figure 17**  
**Population Served by Public Water Supply Systems**  
**in Nebraska, by County, 1995**



**Figure 18**  
**Population Served by Public Water Supply Systems**  
**in Nebraska, by Subregion, 1995**



The average public-supplied domestic water use was 120 gal/d per capita in 1995. The average daily per capita public-supplied domestic water use by county is shown in figure 16. A pattern of increasing per capita use from east to west across the State, as annual precipitation decreases, is apparent in figure 16. The range in population served by public water systems is shown by county (fig. 17) and subregion (fig. 18).

Public water supplier survey responses reporting domestic delivery and detailed data supplied by the MUD and City of Lincoln Water System were used as reported in calculations of county and HUC totals. They also were used to calculate average per capita delivery rates in the three HHS zones. Estimates of domestic deliveries by public water suppliers that did not provide delivery data were based on these averages and the 1995 population.

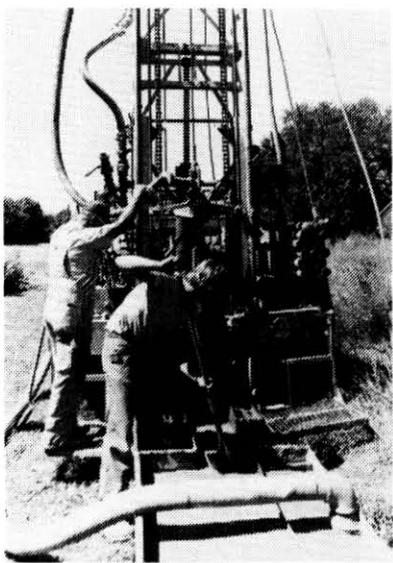
Where municipalities or rural water districts crossed county or HUC boundaries, it was assumed that the population was uniformly distributed and water use was proportioned by area. In the area served by the MUD, HUCs divided only rural areas, not cities, so the rural population for each county was used in proportion to the area of the HUC in the county.

*A pattern of increasing per capita use from east to west across the State, as annual precipitation decreases, is apparent.*

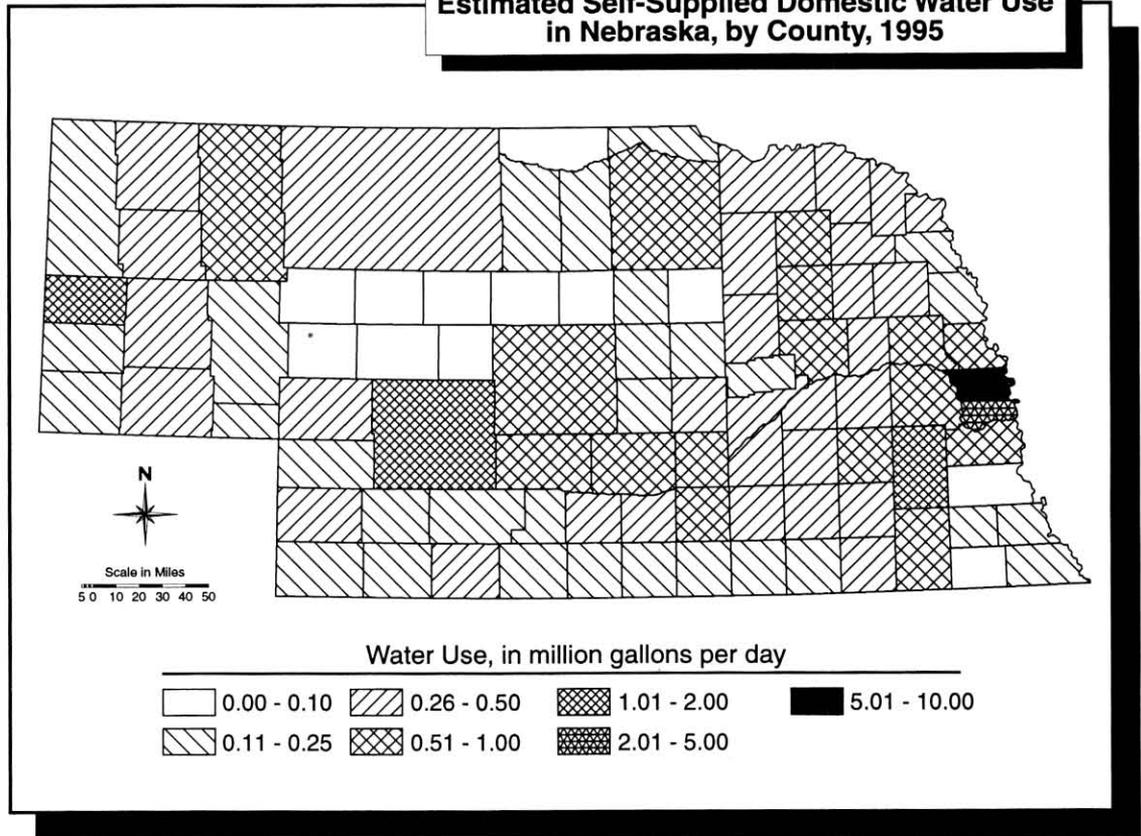
### Self-Supplied Domestic Water Use

Self-supplied domestic water use in Nebraska during 1995 was estimated using the public-supplied domestic water use rates for the three HHS zones and the population in each county not supplied by PWSs. All self-supplied domestic water use was assumed to be ground water.

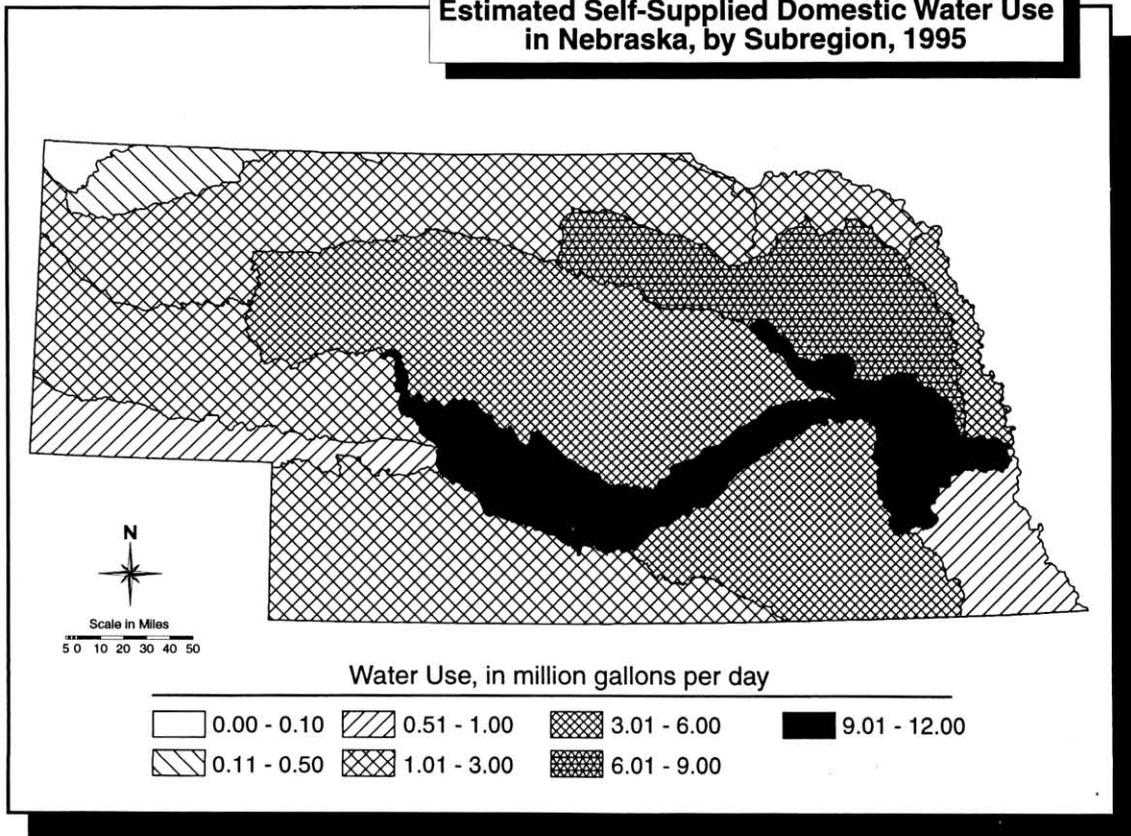
Self-supplied domestic water use by county ranged from less than 0.01 Mgal/d in Pawnee County to 6.34 Mgal/d in Douglas County (table 7 and fig. 19). Cities and villages serve most of the population of Pawnee County. A rural water district that delivers to several villages as well as rural customers provides water to the remaining residents in the county. Self-supplied domestic use for Nebraska subregions ranged from 0.05 Mgal/d in subregion 1012, in the White River-Hat Creek Basin, to 10.13 Mgal/d in subregion 1020 along the Platte River (table 8 and fig. 20).



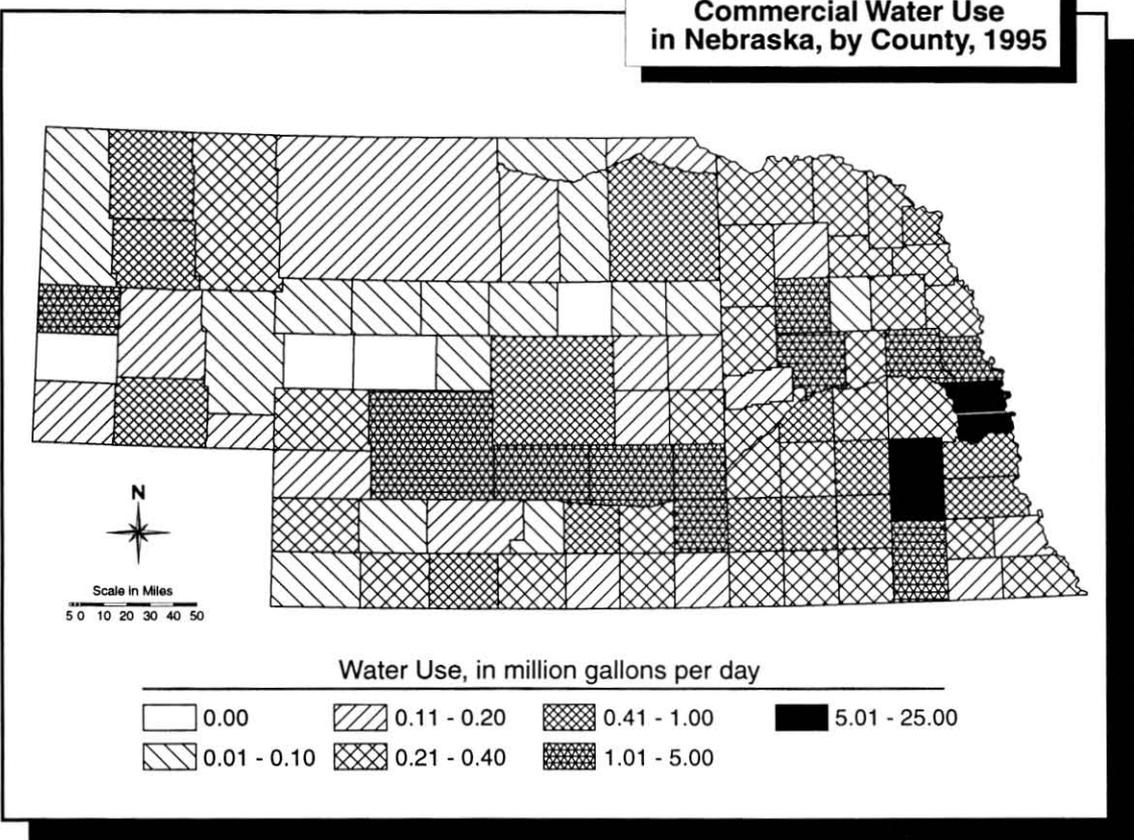
**Figure 19**  
**Estimated Self-Supplied Domestic Water Use**  
**in Nebraska, by County, 1995**



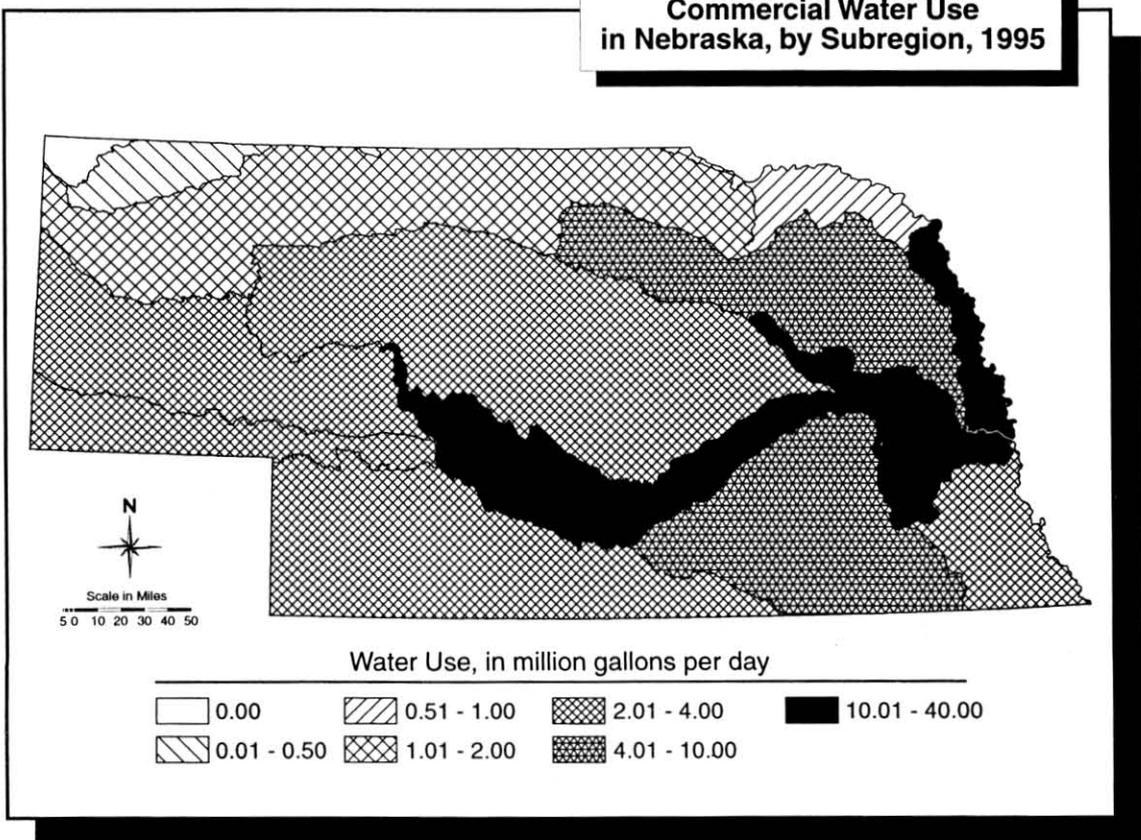
**Figure 20**  
**Estimated Self-Supplied Domestic Water Use**  
**in Nebraska, by Subregion, 1995**



**Figure 21  
Commercial Water Use  
in Nebraska, by County, 1995**



**Figure 22  
Commercial Water Use  
in Nebraska, by Subregion, 1995**



## COMMERCIAL WATER USE

The commercial water use category includes water withdrawn or delivered for use by facilities such as restaurants, lodging places, office buildings, wholesale and retail businesses, and governmental facilities. Water use in Nebraska for this category was estimated to be 78.98 Mgal/d during 1995 (table 9). It was estimated that only 0.39 Mgal/d (0.5 percent) of commercial use was self-supplied, all from ground water. The balance was attributed to deliveries from public supplies. Estimated commercial water use is given by county in table 9 and by HUC and subregion in table 10. The range of commercial water use by county is shown in figure 21 and by subregion in figure 22.



Commercial deliveries were estimated using the reported or estimated withdrawal by the PWS, the statewide average rate of total DIC delivery, the reported or calculated domestic delivery, and the calculated statewide average percentage of commercial delivery. Self-supplied commercial water use was calculated as 0.5 percent of the total commercial use in the county as in 1985 [15]. County commercial use was apportioned to HUCs by the percentage of the area of the county in each HUC.

## INDUSTRIAL WATER USE

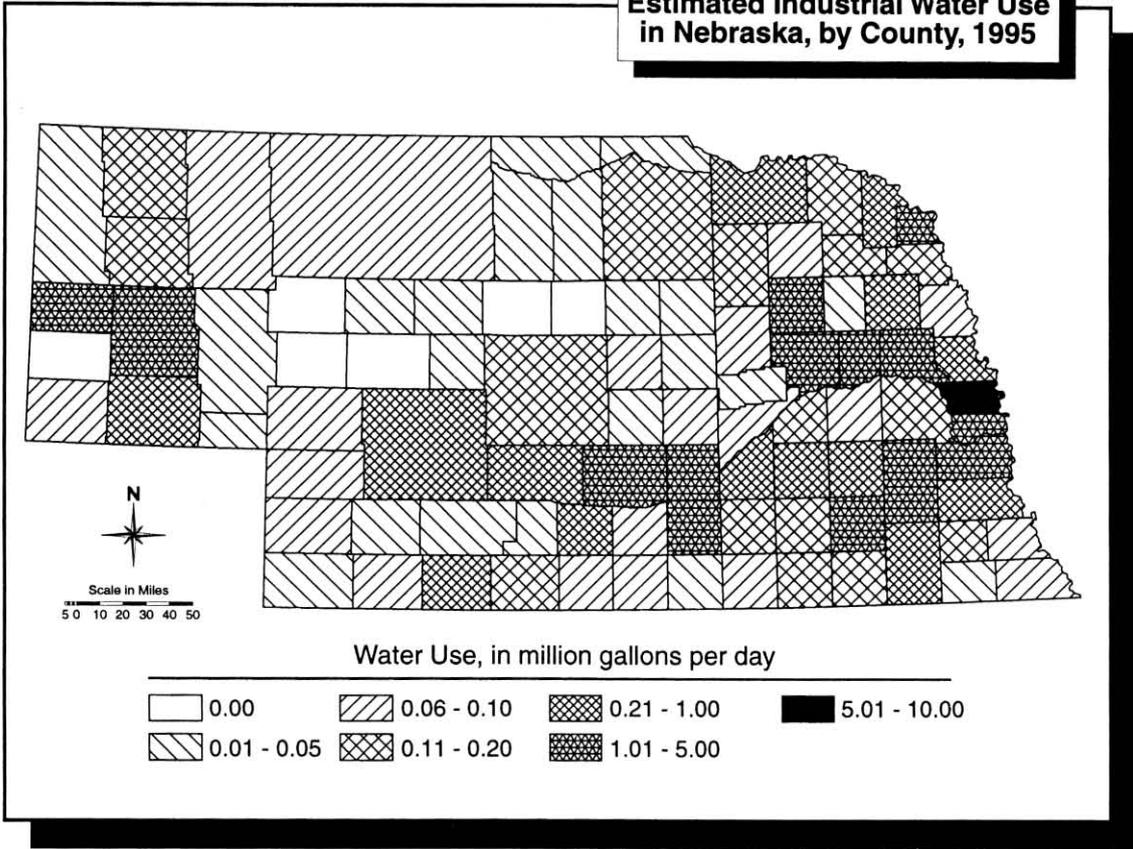
Estimates of public-supplied industrial water use were based on municipalities' delivery data from the survey of PWSs and MUD. Industrial delivery was calculated from the reported or estimated withdrawal, the statewide average rate of total DIC delivery, the reported or calculated domestic delivery, and the calculated statewide average percentage of industrial delivery. Deliveries were apportioned to HUCs by the percentage of area of the PWS in each HUC.



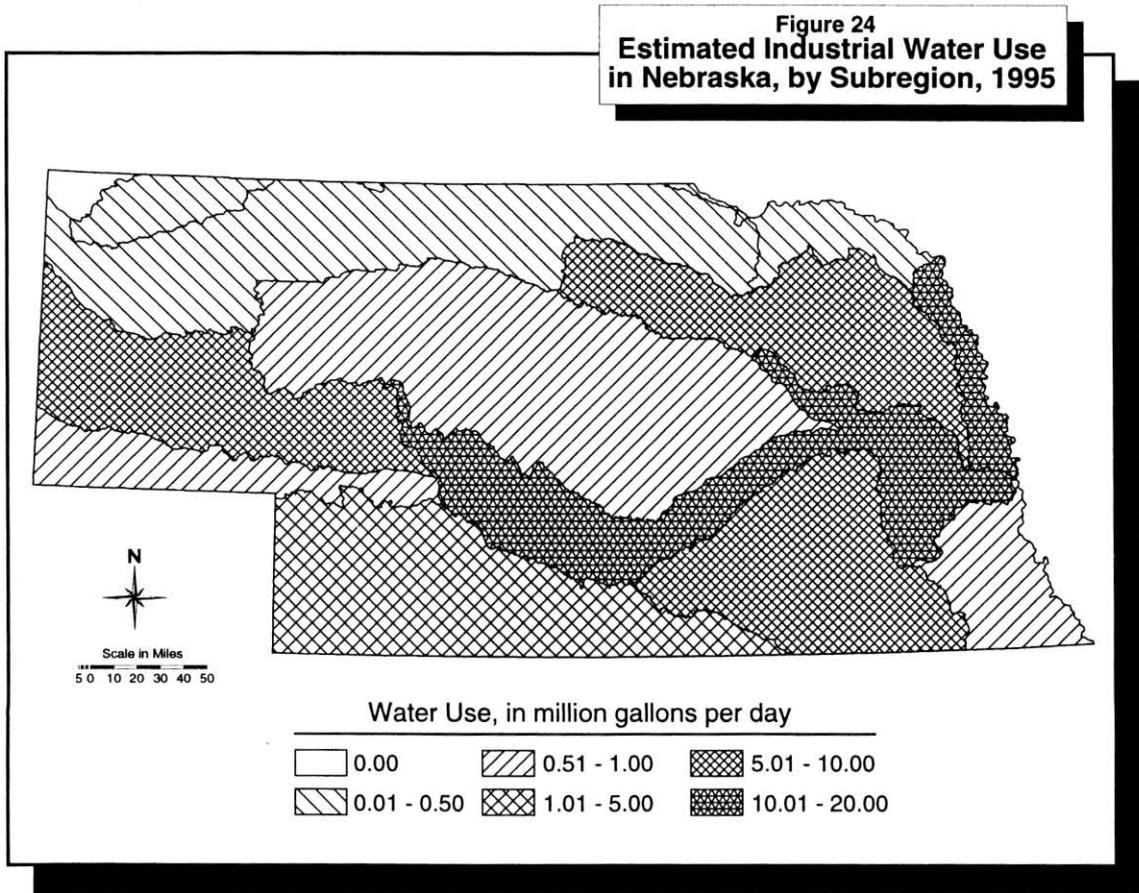
Industrial water use in Nebraska during 1995 was estimated to be 56.61 Mgal/d. Water used by industries is supplied by PWSs deliveries, as well as self-supplied withdrawals.

Public-supplied deliveries of 26.20 Mgal/d accounted for 46.3 percent of the water used by industries, and self-supplied withdraw-

**Figure 23**  
**Estimated Industrial Water Use**  
**in Nebraska, by County, 1995**

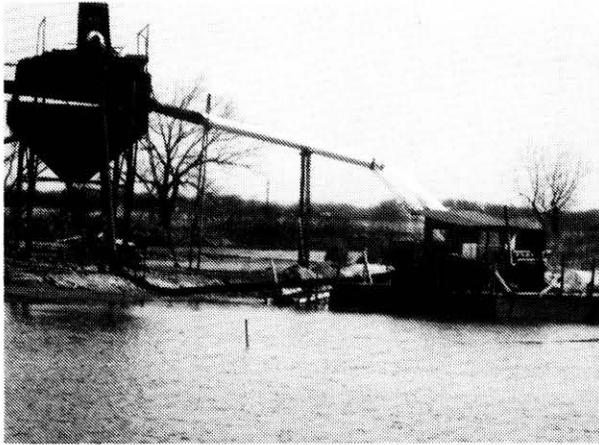


**Figure 24**  
**Estimated Industrial Water Use**  
**in Nebraska, by Subregion, 1995**



als of 30.41 Mgal/d accounted for 53.7 percent of industrial use (tables 9 and 10). The range of industrial water use is shown by county in figure 23 and by subregion in figure 24.

Industrial facilities were located and categorized by number of employees and Standard Industrial Classification (SIC) codes using the Nebraska Directory of Manufacturers (Nebraska Department of Economic Development, 1996, computer database) and the Manufacturer's News commercial database (Manufacturer's News, Inc., 1995, "Online Directory on Diskette"). Water-use information for some of the largest industries was available from a survey conducted by the Nebraska Natural Resources Commission. Water use for the remaining industries was estimated by using average water-use statistics derived from the NRC survey and several other data sources [3,5,15]. Water use was estimated based on SIC code and number of employees.



*The largest users in Nebraska of water for mining were sand and gravel operations.*

### MINING WATER USE

In Nebraska, water use for mining includes water withdrawn for the extraction of petroleum, well operations for dewatering, normal operations in quarrying, mining clay, sand, and gravel, and other preparations customarily done at the mine site or as part of a mining activity. It does not include the processing of raw materials, such as refining petroleum.

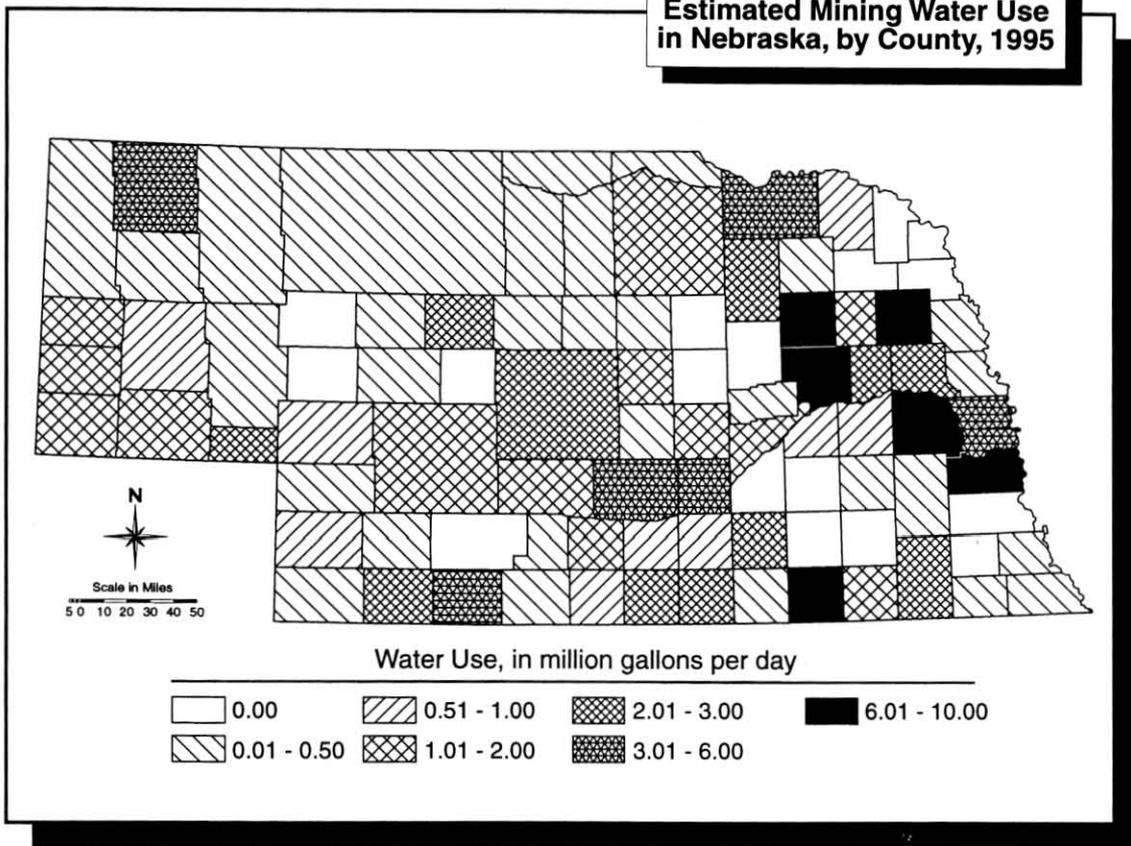
The largest users in Nebraska of water for mining were sand and

gravel operations. The estimated water use for mining operations during 1995 was 145.22 Mgal/d. Of that, 134.39 Mgal/d (92.5%) was supplied by surface water for gravel washing and a few limestone quarrying operations. It was estimated that 10.83 Mgal/d (7.5%) was supplied by ground water for injection to deep geologic formations for secondary recovery of oil and solution mining of uranium. Of the water used for secondary recovery, 4.70 Mgal/d was saline ground water. All water withdrawn for mining is self-supplied.

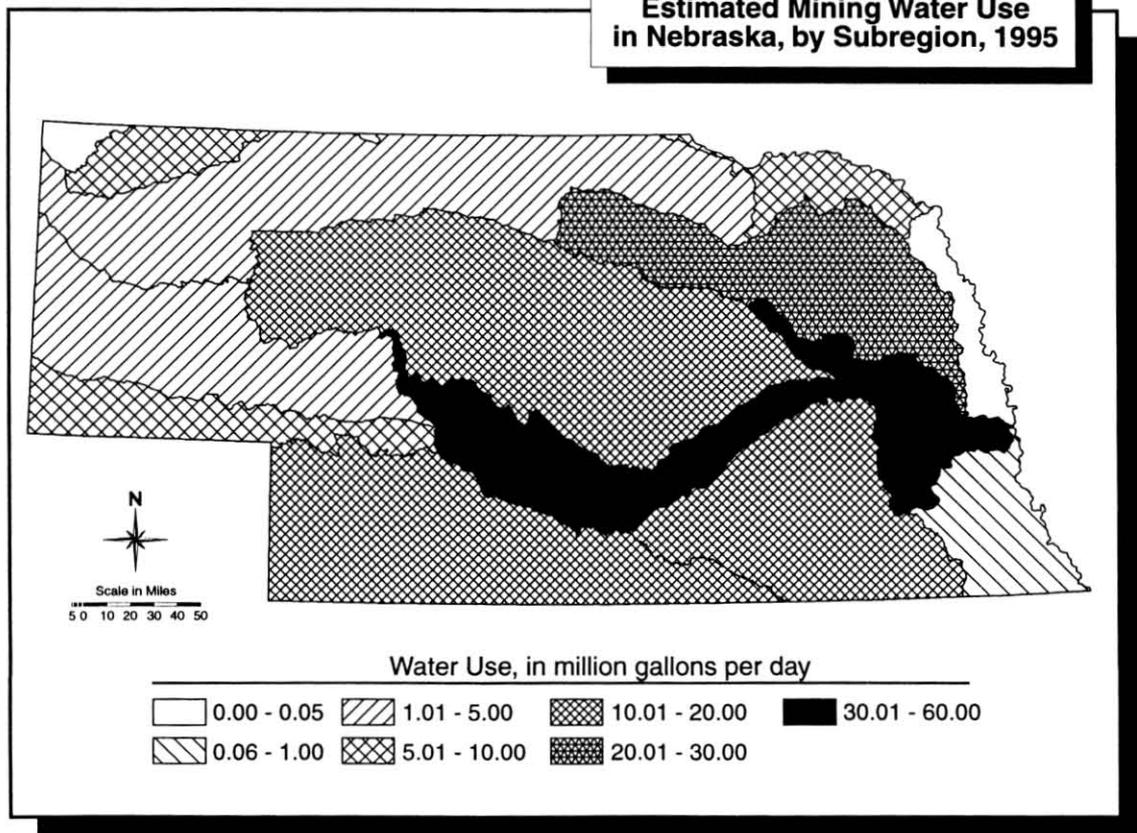
Ranges in water use for mining operations in Nebraska during 1995 is shown, by county, in figure 25 and by subregion in figure 26. Estimates of water use for mining operations by county and by HUC and subregion are given in tables 9 and 10, respectively.

Data from the "Directory of Quarries, Pits, and Mines" were used to identify all active mining operations in the state [1]. It was estimated that 75 percent of the sand and gravel operations used

**Figure 25**  
**Estimated Mining Water Use**  
**in Nebraska, by County, 1995**

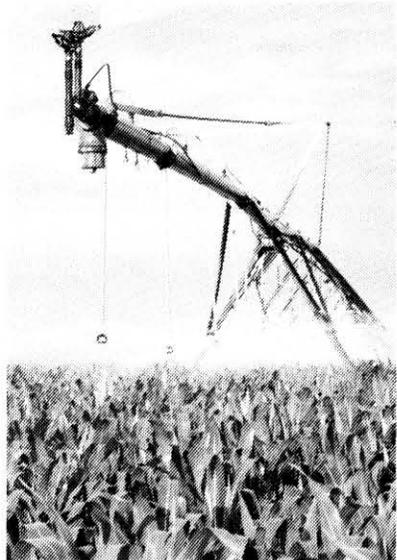


**Figure 26**  
**Estimated Mining Water Use**  
**in Nebraska, by Subregion, 1995**



surface water and not ground water based on information from the Conservation and Survey Division (Ray Burchett, Conservation and Survey Division, oral commun., 1996). A Geographic Information System (GIS) was used to select 75 percent of all operations closest to streams. Water use was estimated with a regression equation based on production of sand and gravel and withdrawals estimated by owners/operators in telephone surveys in 1991 and 1996. It was assumed there was no consumptive use of water for sand and gravel mining. Water use for quarry and other mining operations also was estimated with a regression equation based on production and estimated withdrawals obtained in 1991 and 1996. Unless site specific information was available for 1995, the proportion of surface and ground water used was estimated with percentages developed by Steele [15]. It was assumed consumptive use for non-sand and gravel operations was 100 percent. Production water used in these operations is for dust control and is consumed.

Oil and gas production data, including project location, amount of oil and water produced, amount of make-up and reinjection water, and the water withdrawal zones were provided by the Nebraska Oil and Gas Conservation Commission (William Sydow, Nebraska Oil and Gas Conservation Commission, written commun., 1996). Water produced and make-up water were defined as ground-water withdrawals. The make-up water, or the difference between the amount of water reinjected and the amount produced, was assumed to be the consumptive use. If the make-up water was fresh water, consumption was 100 percent, because it was reinjected into a saline environment. Saline make-up water was not considered consumed because it was reinjected into saline ground water.

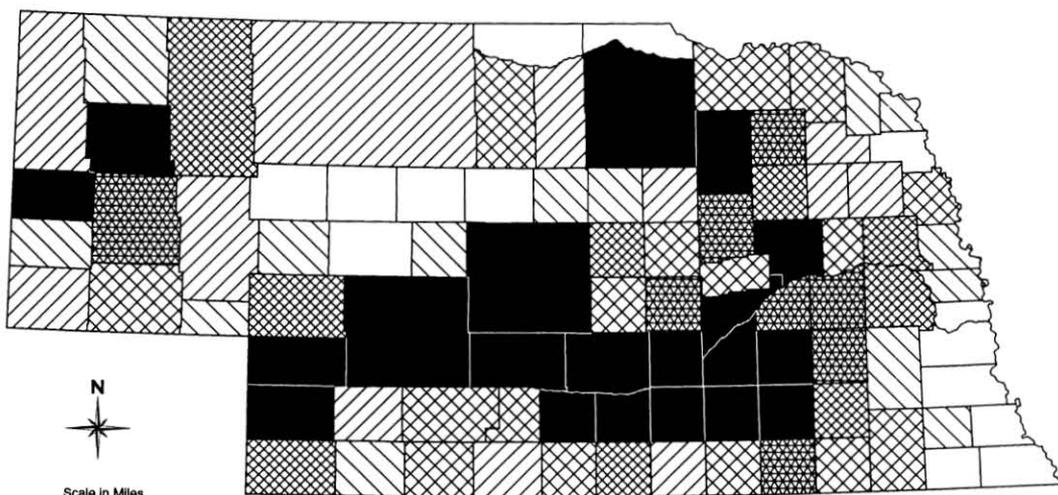


#### **IRRIGATION WATER USE**

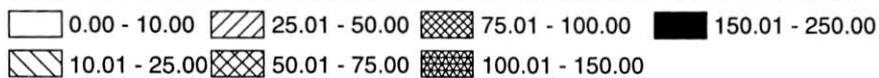
Irrigation is the controlled application of water to crops to supply moisture requirements not satisfied by precipitation. In Nebraska, the amount of land irrigated and water applied vary each year.

The amount of land irrigated in 1995 was estimated to be 7,448,700 acres, with an average seasonal water application rate of almost 13 in/acre. The number of irrigated acres by county ranged from 1,300 acres in Richardson County to 247,600 acres in Hamilton County (table 11). Every county in Nebraska had irrigated land in 1995. The number of irrigated acres by subregion ranged from 6,300 acres in subregion 1012 in the White River-Hat Creek Basin to 1,612,200 acres in subregion 1020 in the Middle and Lower Platte River Basin (table 12). Irrigated acres are shown by county in figure 27 and by subregion in figure 28.

**Figure 27**  
**Estimated Irrigated Acres**  
**in Nebraska, by County, 1995**



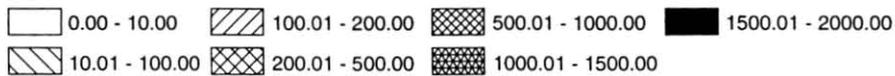
Acres, in thousands



**Figure 28**  
**Estimated Irrigated Acres**  
**in Nebraska, by Subregion, 1995**

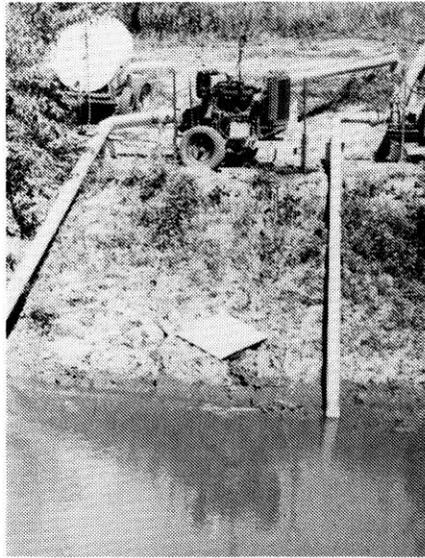


Acres, in thousands



Irrigated crops included corn for grain and silage, popcorn, sorghum, soybeans, wheat, oats, barley, rye, proso millet, sugar beets, sunflowers, dry edible beans, alfalfa and other hay, and pasture. The National Agricultural Statistics Service (NASS) reported 5,450,700 acres of irrigated corn, making it the principal irrigated crop grown and harvested in Nebraska during 1995 (NASS, Internet homepage @ <http://www.usda.gov/nass/>). This was 73.2 percent of the total irrigated acres in the state and was more than five times greater than irrigated soybean acres. Soybeans were the second largest irrigated crop, with 963,700 acres.

Water used during the 3 to 4 month irrigation season in 1995 was estimated to be 7,842,900 acre-feet, which equals 6,996.38 Mgal/d if averaged over an entire year. Water use ranged from 0.80 Mgal/d (900 acre-ft) in Richardson County to 293.01 Mgal/d



(328,500 acre-ft) in Dawson County. Water used for irrigation by HUC ranged from <0.01 Mgal/d in HUC 10120106 to 788.31 Mgal/d (883,700 acre-ft) in HUC 10200101. Estimated water use for irrigation by county is given in table 11 and by HUC and subregion in table 12. Ranges in water use for irrigation are shown by county in figure 29 and by subregion in figure 30.

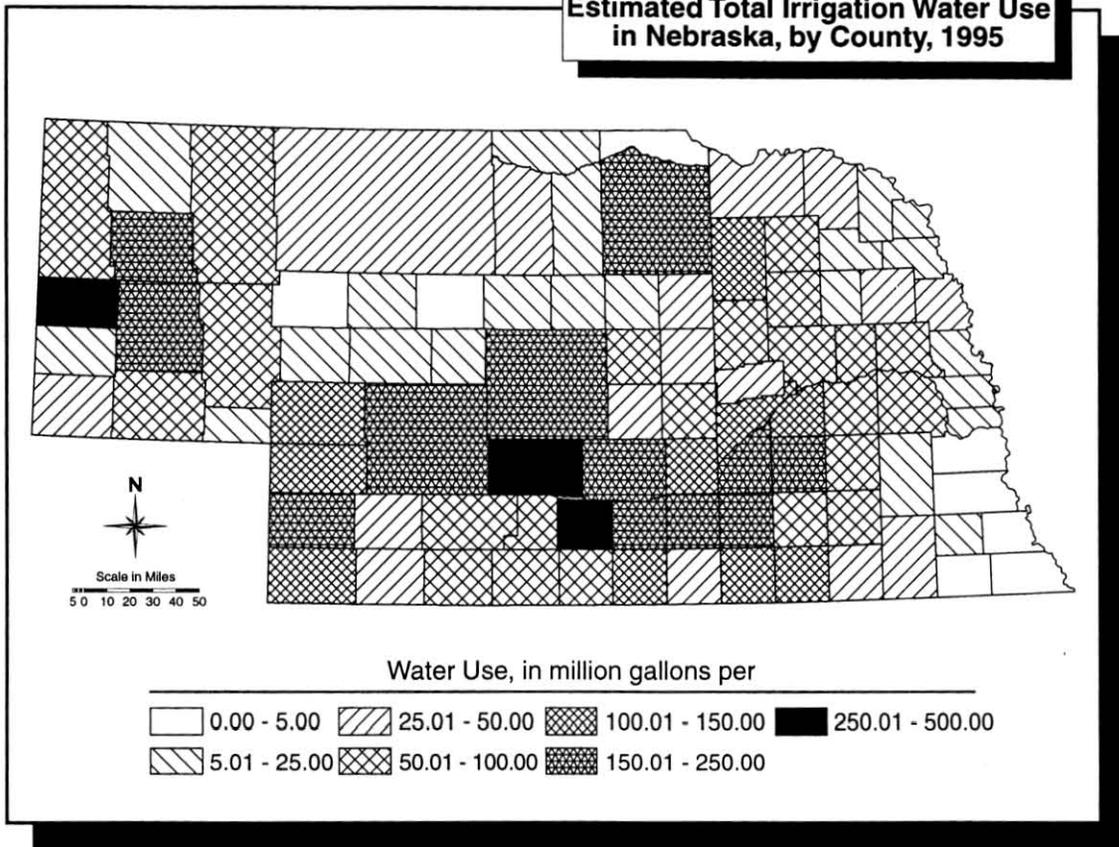
The estimated amount of acres irrigated was about 589,000 acres greater in 1995 than in 1990, and nearly equal to the 1985 estimate. The estimated application rate was also greater than in 1990, so the volume of water used is substantially greater in 1995 than in 1990. The irrigation

water use in 1995 was only about 300,000 acre-feet less than in 1985.

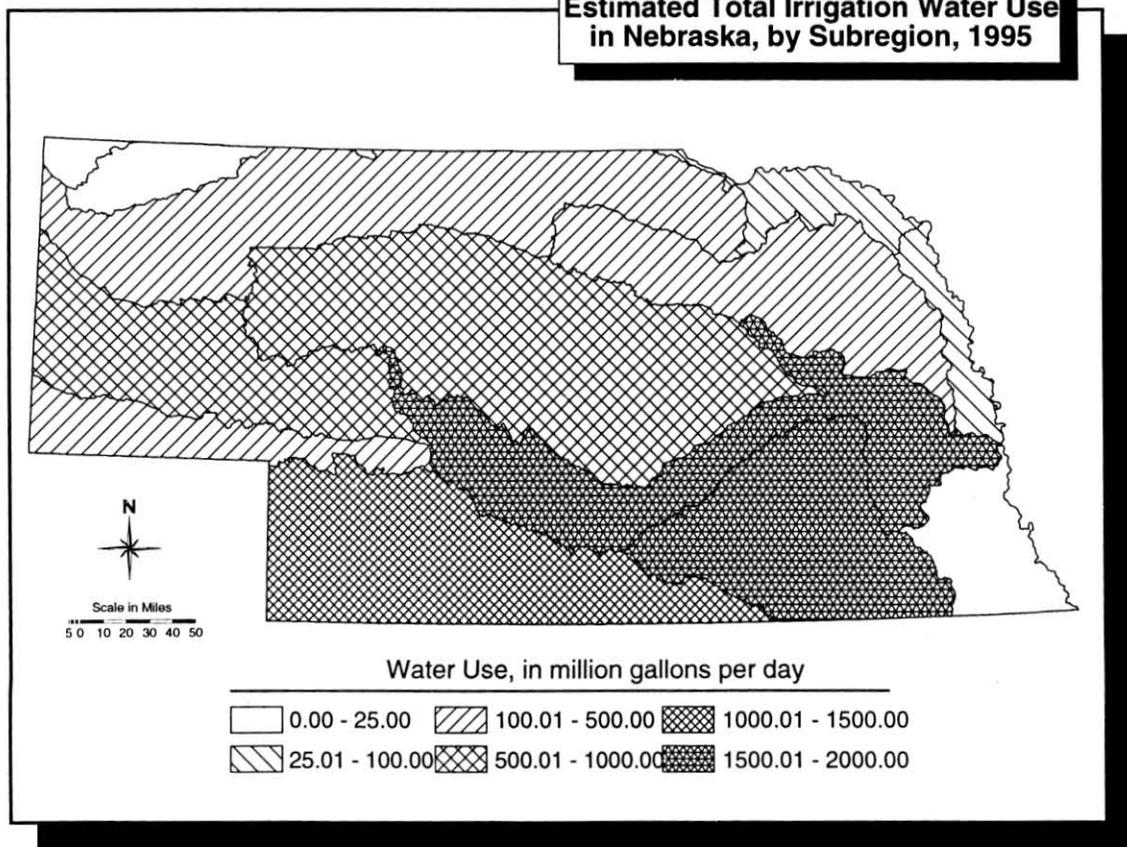
Surface-water withdrawals provided 1,219.78 Mgal/d, or 17.4 percent, of the total irrigation water use. Surface-water use ranged from none in Arthur, Grant, McPherson, and Perkins Counties to 244.07 Mgal/d (273,600 acre-feet) in Scotts Bluff County (table 13). It ranged from none in HUCs 10120106, 10190012, 10190017, 10210002, and 10250003 to 388.73 Mgal/d (435,800 acre-feet) in HUC 10180009 in the North Platte River Basin (table 14). Surface-water use is shown in figure 31 by county and is shown in figure 32 by subregion.

Withdrawals from ground water provided 5,776.60 Mgal/d for irrigation, 82.6 percent of all water used for that purpose. Ground-water use ranged from about 0.11 Mgal/d (100 acre-feet) in Pawnee County to 225.06 Mgal/d (252,300 acre-feet) in York County (table 15). It ranged from none in HUCs 10120106 and

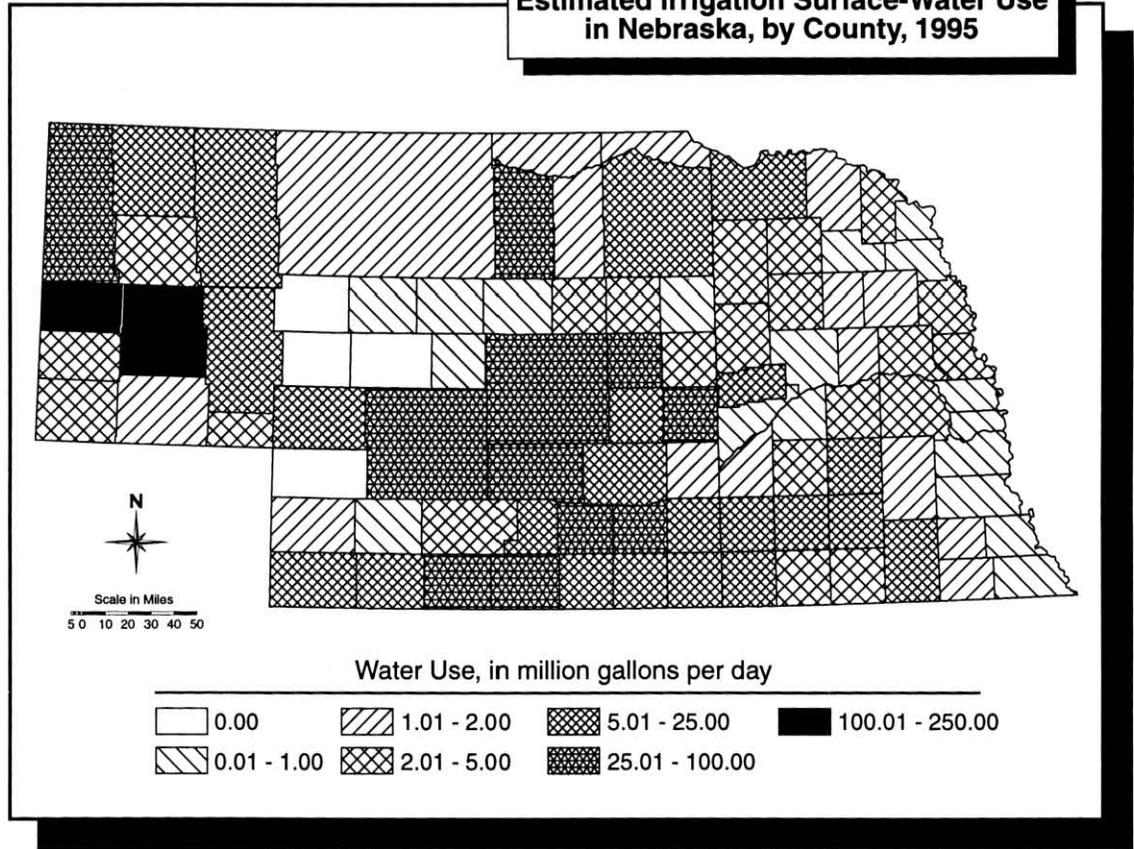
**Figure 29**  
**Estimated Total Irrigation Water Use**  
**in Nebraska, by County, 1995**



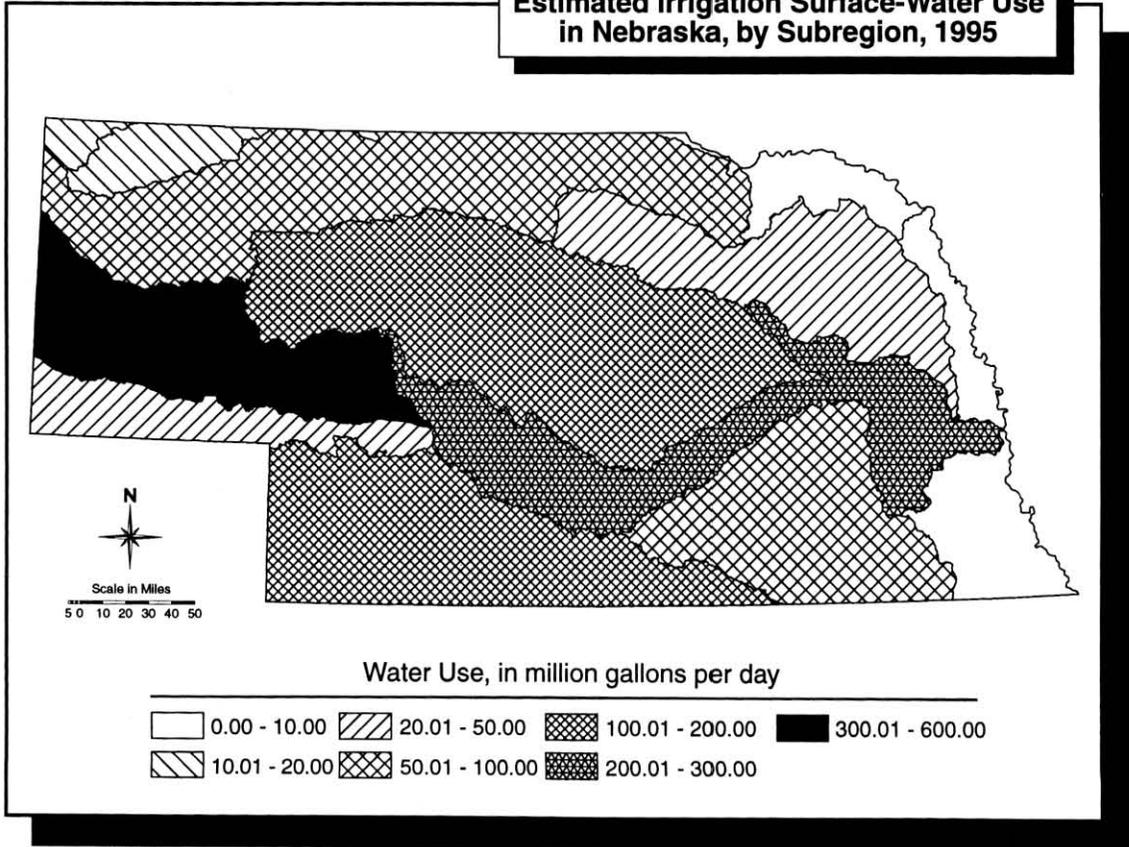
**Figure 30**  
**Estimated Total Irrigation Water Use**  
**in Nebraska, by Subregion, 1995**



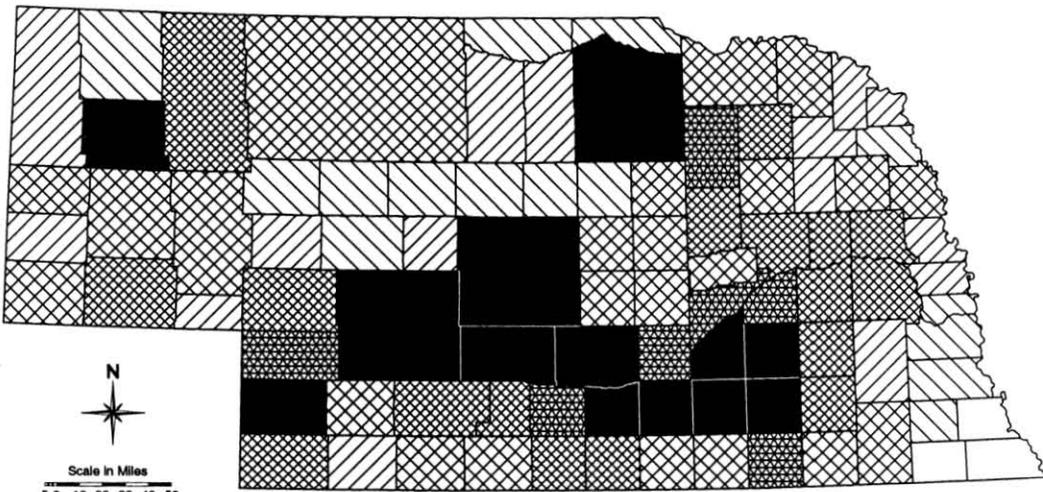
**Figure 31**  
**Estimated Irrigation Surface-Water Use**  
**in Nebraska, by County, 1995**



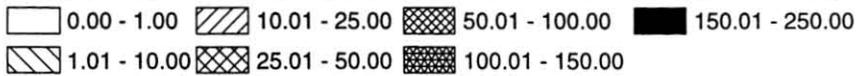
**Figure 32**  
**Estimated Irrigation Surface-Water Use**  
**in Nebraska, by Subregion, 1995**



**Figure 33**  
**Estimated Irrigation Ground-Water Use**  
**in Nebraska, by County, 1995**



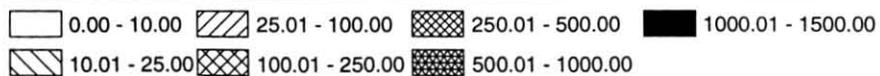
Water Use, in million gallons per day



**Figure 34**  
**Estimated Irrigation Ground-Water Use**  
**in Nebraska, by Subregion, 1995**



Water Use, in million gallons per day



10270205 to 569.22 Mgal/d (638,100 acre-feet) in HUC 10200101 in the Middle Platte River Basin (table 16). Ground-water use for irrigation is shown by county in figure 33 and by subregion in figure 34.

Total irrigation water use was estimated with data and computer programs from many sources. The estimated acres of irrigated crops were obtained from the NASS national data base for 1995 or the 1992 Census of Agriculture data (Nebraska Agriculture Census Internet homepage

@ <http://govinfo.kerr.orst.edu/cgi-bin/ag-state?Nebraska>).

Crops were grouped into four categories based on the amount of water consumed during growth: (1) high water requirement crops, including corn, sugar beets, and popcorn; (2) low water requirement crops, including dry beans, sorghum, soybeans, and sunflowers; (3)

hay, including alfalfa; and (4) small grains, including wheat, barley, oats, proso millet, and rye. Crop water requirements for the four categories were calculated using potential evapotranspiration (PET) and precipitation data for 34 daily weather stations across the state obtained from the High Plains Climate Center (University of Nebraska-Lincoln, High Plains Climate Center, precipitation and crop PET on-line data bases). Representative crops and planting dates at all stations were selected from this data and weekly crop reports [9]. Crop irrigation requirement (CIR) was calculated for the four categories of crops at all stations using daily data with a limit on effective precipitation because of infiltration capacity. To account for unusual soil moisture conditions, the irrigation demand (IrD) was calculated from the CIR and then adjusted with actual pumpage data (Upper



Republican Natural Resources District, 1996, crop acreage and ground water computer data base). The spring of 1995 was extremely cold and wet, so planting was late and high soil moisture further delayed the start of irrigation.

The percentages of each county irrigated from surface- and ground-water sources, surface-water irrigated land supplied by major irrigation districts, and land in each county irrigated by surface (flood) application and sprinkler methods were estimated with data from the DWR, Natural Resources Conservation Service (1992 national resources inventory computer data base), and Missouri Basin States Association [6]. These percentages and total crop acres were used to calculate the number of acres irrigated from surface- and ground-water sources by each application method.

County IrD for each crop category was calculated from the crop IrD, the percentages, and the efficiency of each method given in Steele [15]. Surface-water withdrawal was calculated as the sum of estimated private withdrawals and diversions to irrigation districts reported by DWR [10]. Private withdrawals were calculated by summing the surface water IrD in each crop category and multiplying by the private irrigated percentage. Ground water withdrawal was assumed to be equal to the ground water IrD.

Consumptive use for each county was calculated as the consumptive use by sprinkler applications plus the consumptive use for surface application methods. Sprinkler application consumptive use was assumed to be equal to the IrD. Consumptive use for surface application methods was calculated as the CIR plus the non-beneficial use of water losses because of the inefficiency of the method. Non-beneficial use was calculated as 15 percent of the efficiency losses, because it was assumed that the rest of surface-applied water returns to ground water or streams eventually [6]. County consumptive use of surface water was allocated to HUCs by the percentage of water rights, and ground water was allocated to HUCs by the percentage of irrigation wells in the HUC determined by the GIS.

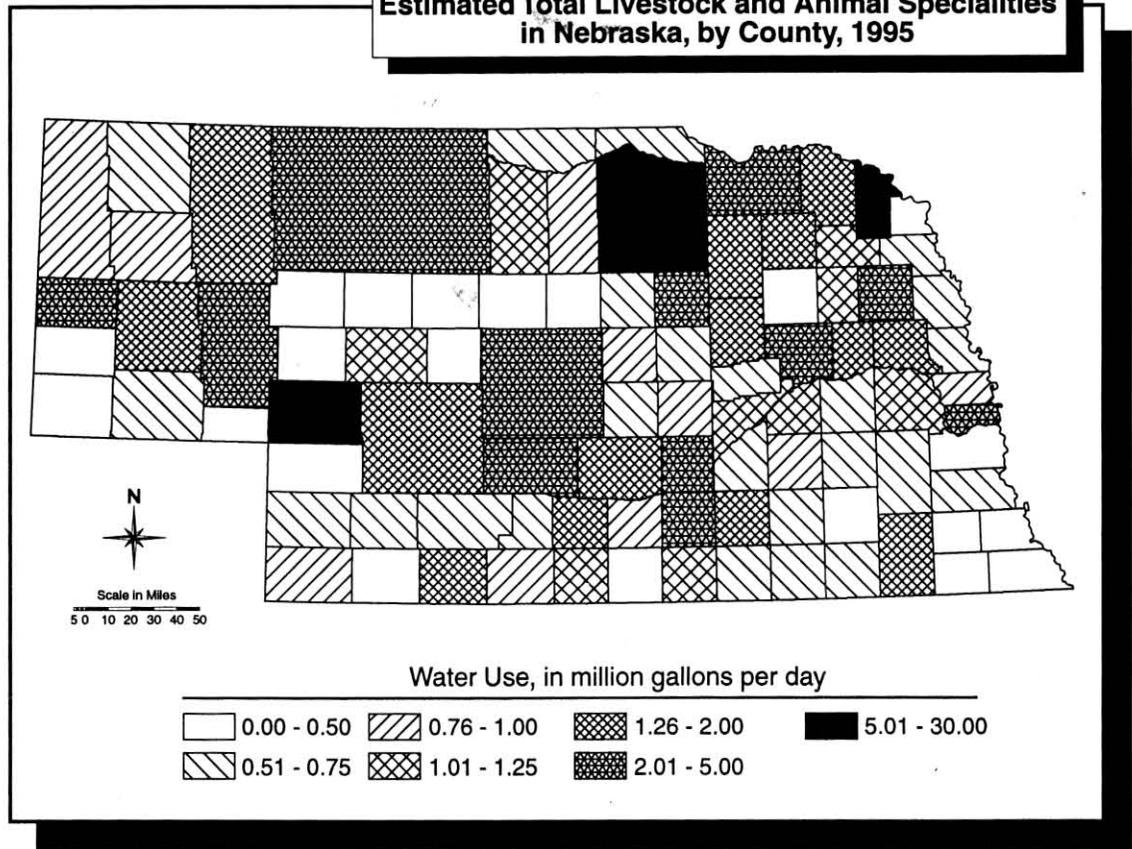
Conveyance loss from canals was calculated from diversions reported by DWR adjusted for losses in Wyoming, Colorado, and Kansas, concurrent use for power and recreation, and reservoir losses. Conveyance loss was equal to the adjusted diversion minus district demand. Losses were allocated to counties and HUCs in proportion to the length of canal in them. The consumptive use and conveyance loss may occur in a different county or state than the diversion.

#### **LIVESTOCK AND ANIMAL SPECIALTIES WATER USE**

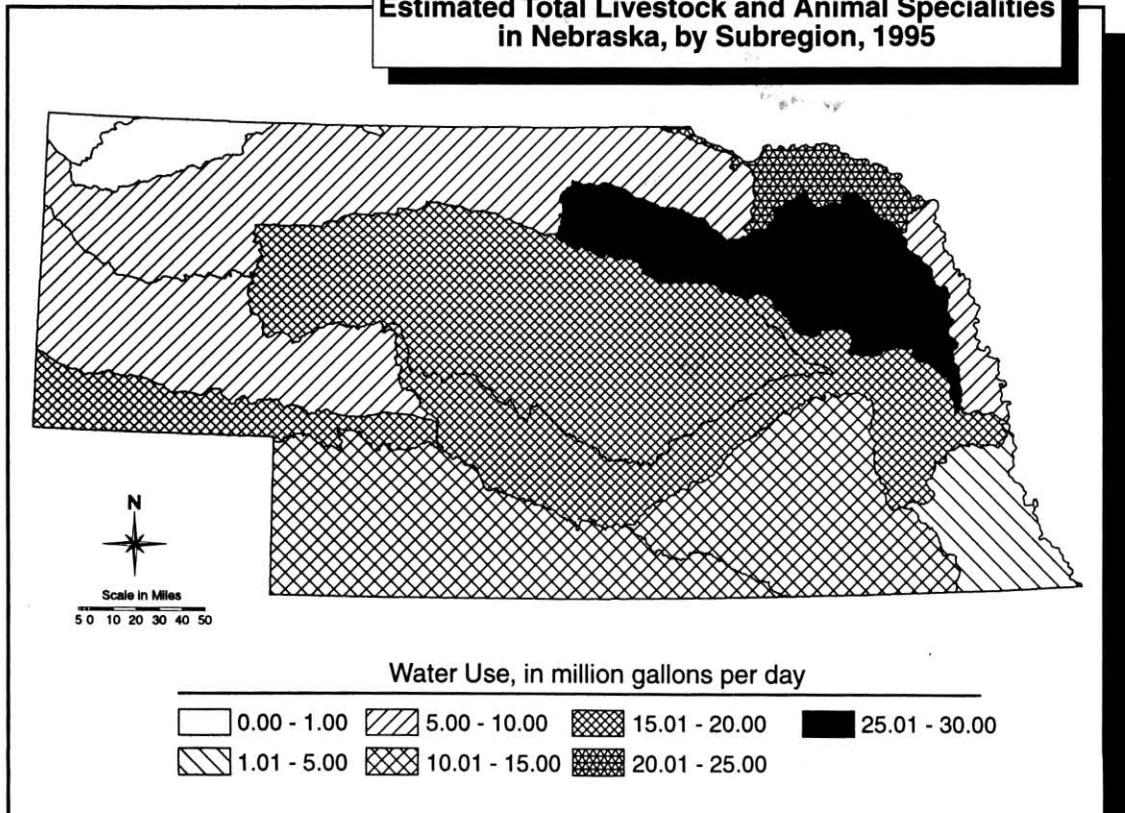
Livestock water use is defined as livestock watering, including feed lots and dairy operations, evaporation from stock ponds, and other on-farm needs. Livestock water as used here includes use for cattle, sheep, goats, hogs, and poultry. Animal specialties include water use associated with fish farms and the production of fur-bearing animals, and water use by other animals, such as horses, ponies, burros, donkeys, and mules.

The livestock and animal-specialty categories accounted for 141.90 Mgal/d, or less than 0.6 percent of the total water use in the State. Surface water supplied 33.26 Mgal/d (23.4 percent) of the livestock water used and ground water supplied 108.64 Mgal/d (76.6 percent). The range of water use by county is shown in figure 35 and by subregion in figure 36. Estimates of livestock and animal specialties water use by county and by HUC and subregion are given in tables 17 and 18, respectively.

**Figure 35**  
**Estimated Total Livestock and Animal Specialities**  
**in Nebraska, by County, 1995**



**Figure 36**  
**Estimated Total Livestock and Animal Specialities**  
**in Nebraska, by Subregion, 1995**



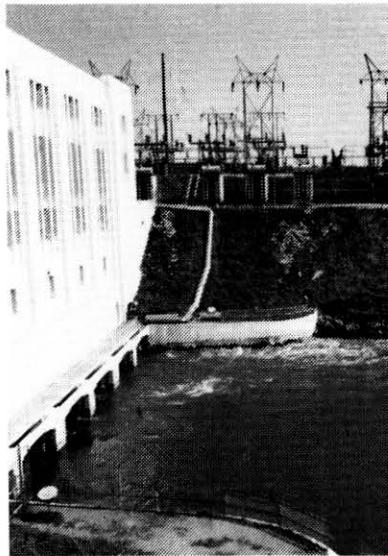
Estimates of the number of cattle and hogs in each county in 1995 were obtained from a national data base (NASS Internet homepage @ <http://usda.mannlib.cornell.edu/cgi-usda/agency.cgi?nass>). Numbers of other livestock, including horses and other specialty livestock, were estimated using data from the 1992 Census of Agriculture (U.S. Department of Agriculture, Nebraska Agriculture Census Internet homepage @ <http://govinfo.kerr.orst.edu/cgi-bin/ag-state?Nebraska>). Water use was estimated by multiplying the number of animals in each class by the number of gallons per day per head used by that class as listed in table 19. Total livestock and animal specialties water use by county was determined by summing the water used by each animal class. Using data from the 1971 Report on the Framework Study for Nebraska's State Water Plan it was assumed that surface water supplied 19 percent and ground water supplied 81 percent of water use for this category in each county. Water use by HUC was estimated by assuming uniform livestock and animal specialties distribution in rural areas of each county. The rural area percentage of each HUC was multiplied by the total livestock and animal specialties water use in each county, and then the portions of each HUC were summed.

A list of private aquaculturists (fish farms) obtained from the Nebraska Game and Parks Commission identified sites by county. Water use was estimated by owners/operators in telephone surveys in 1991 and 1996.

## **POWER GENERATION WATER USE**

Estimated 1995 water use for power generation was 17,354.26 Mgal/d or 68.8 percent of the total water used for all purposes; more than 99.9 percent was from surface water (tables 20 and 21). Power generation was 24,450.56 gigawatthours (Department of Energy, electronic commun., 1996). Water use for this category was divided into three types of power generation: hydroelectric, fossil fuel, and nuclear. Data obtained from public power districts indicated that no water for hydroelectric power generation was used consumptively, and less than one percent of the cooling water used for fossil-fuel and nuclear-power generation was used consumptively.

Hydroelectric-power generation is supplied entirely by surface water. The 15,001.23 Mgal/d of water used produced 1,041.54 gigawatthours of power (table 22). This was 86.4 percent of the water used for



power generation and only 4.3 percent of the power produced. As in 1990, one-half the water used and one-half the power produced at Gavins Point Dam on the Missouri River was included in Nebraska totals. The other half of the water used and power produced at that location was reported by South Dakota.

Fossil-fuel power generation used 1,296.97 Mgal/d of water and produced 16,285.75 gigawatthours. This was only 7.5 percent of the water, but 66.6 percent of the power produced (tables 20 and 23). All except 4.43 Mgal/d was supplied by surface water; public water systems supplied 0.01 Mgal/d of the ground water used. Ground water was used at small powerplants that were brought on-line to meet peak power demands.

Water use data were used as reported to estimate use by county and HUC, and with generation data to develop regression equations for estimating use at sites where no reports were available. Data on power generation in 1995 were available for all power plants. The USGS 1990 data files were used to determine if surface or ground water was used.

Nuclear-power generation at the two plants in Nebraska used 1,056.06 Mgal/d and produced 7,123.27 gigawatthours of electricity. This was 6.1 percent of the water used for power generation and 29.1 percent of the power produced.

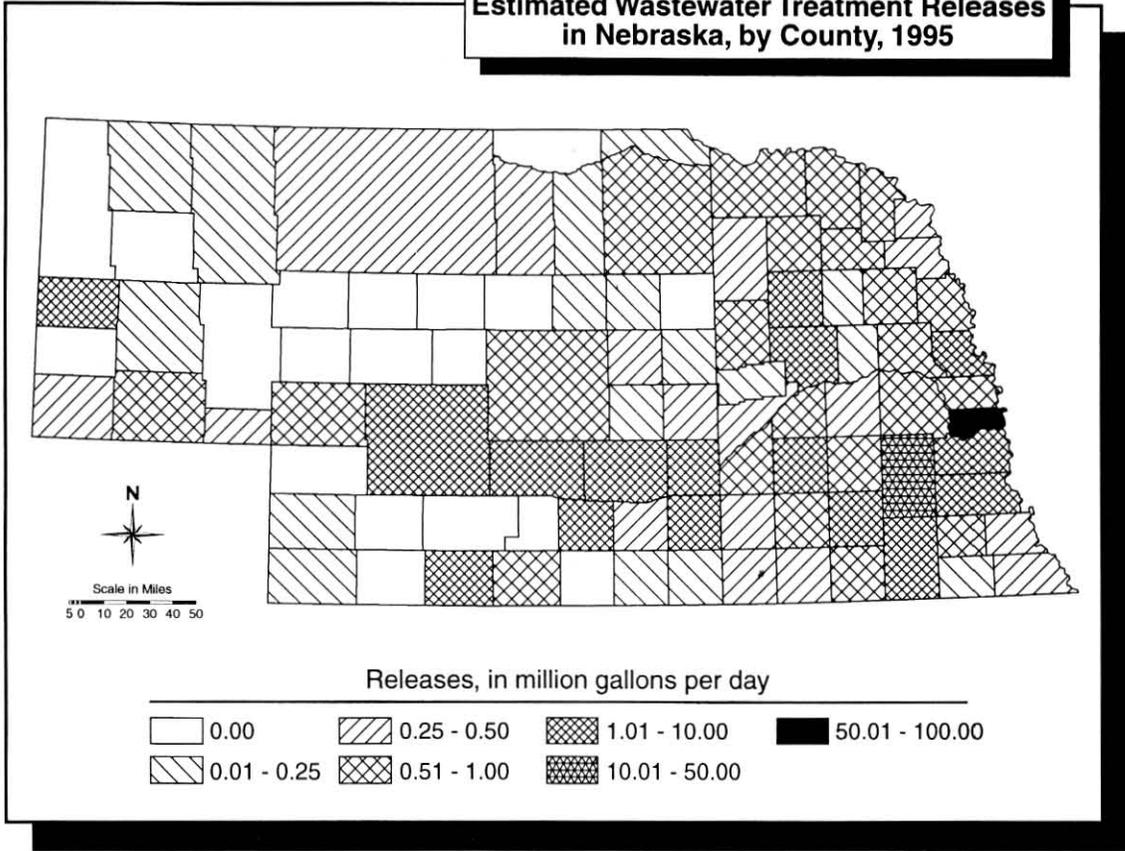
#### **WASTEWATER TREATMENT RELEASES**



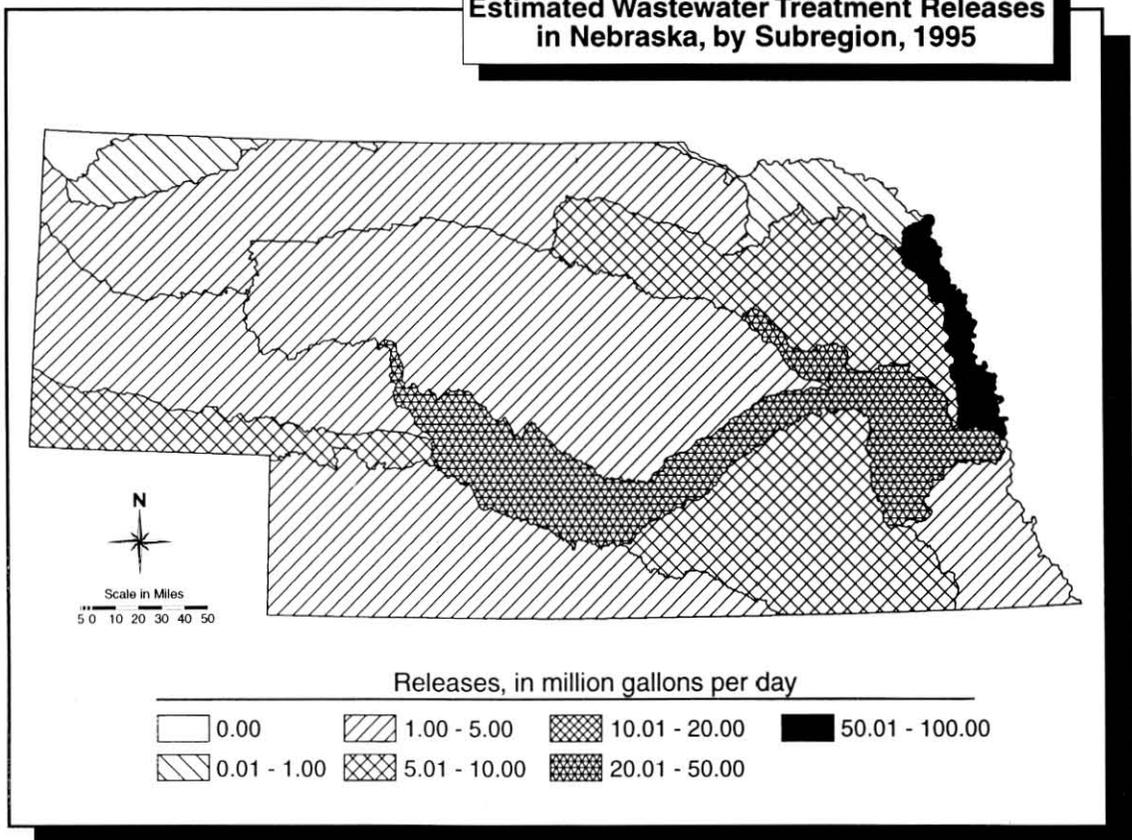
This use category includes water returned to the hydrologic system by publicly-owned wastewater treatment facilities. Estimated wastewater return flows were 180.93 Mgal/d in 1995 (tables 24 and 25). It was estimated that 1.00 Mgal/d of wastewater treated by publicly-owned facilities was reclaimed for irrigation of crops and pasture. The range of estimated wastewater treatment releases by county is shown in figure 37 and by subregion in figure 38.

The U.S. Environmental Protection Agency's STORET data base was used to identify publicly owned wastewater treatment facilities that discharge to surface water and their discharge (Nebraska Natural Resources Commission Data Bank: Surface and Groundwater Quality data base at <http://nrcont2.nrc.state>).

**Figure 37**  
**Estimated Wastewater Treatment Releases**  
**in Nebraska, by County, 1995**



**Figure 38**  
**Estimated Wastewater Treatment Releases**  
**in Nebraska, by Subregion, 1995**



ne.us/cgi-win/tabular.exe). It also was used to identify self-supplied industries with discharge permits. The facilities that reclaim a portion of their discharge, were determined from a personal computer data base developed by the University of Nebraska-Lincoln [4].

Estimated discharge by county and HUC from publicly-owned facilities was calculated using reported discharges in the STORET file, or as two-thirds of total DIC deliveries plus self-supplied industries' discharge. Reclaimed wastewater was all used for irrigation, which usually occurs during a 4 month season, so the amount actually reclaimed was estimated as 25 percent of the facilities discharges for municipalities that reclaim wastewater (Susan K. Hoppel, Department of Environmental Quality, oral commun., 1996)

### **RESERVOIR EVAPORATION**

Reservoir evaporation is a consumptive use associated with the storage of water for many uses, including irrigation, power generation, flood control, recreation, and fish and wildlife. Estimates in this report include only water lost by evaporation from reservoirs that have a

normal storage capacity equal to or greater than 5,000 acre-ft. Normal capacity is defined as the total volume of water in a reservoir below the conservation pool level, including dead storage but not

flood control or surcharge storage.

Total evaporation from reservoirs was estimated to be 275,130 acre-ft (245.45 Mgal/d). Reservoir evaporation is shown by hydrologic subregion in table 26.

In 1995, 26 reservoirs met the capacity requirement. Evaporation was reported by agencies maintaining individual reservoirs, or was estimated for reservoirs for which only surface-area data was available [13]. Evaporation rates were estimated from National Oceanographic and Atmospheric Administration pan evaporation data and coefficients [2].



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**Table 1**  
**Estimated Public-Supplied Water Withdrawals in Nebraska, by County, 1995**

County Number	County Name	Ground-Water (Mgal/d) <sup>1</sup>	Surface-Water (Mgal/d) <sup>1</sup>	Total (Mgal/d) <sup>1</sup>	County Number	County Name	Ground-Water (Mgal/d) <sup>1</sup>	Surface-Water (Mgal/d) <sup>1</sup>	Total (Mgal/d) <sup>1</sup>
001	Adams	6.70	0.00	6.70	101	Keith	1.50	0.00	1.50
003	Antelope	1.05	0.00	1.05	103	Keya Paha	0.05	0.00	0.05
005	Arthur	0.00	0.00	0.00	105	Kimball	0.89	0.00	0.89
007	Banner	0.05	0.00	0.05	107	Knox	1.61	0.29	1.90
009	Blaine	0.03	0.00	0.03	109	Lancaster	2.02	0.00	2.02
011	Boone	0.88	0.00	0.88	111	Lincoln	7.00	0.00	7.00
013	Box Butte	2.85	0.00	2.85	113	Logan	0.08	0.00	0.08
015	Boyd	0.16	0.00	0.16	115	Loup	0.00	0.00	0.00
017	Brown	0.48	0.00	0.48	117	McPherson	0.00	0.00	0.00
019	Buffalo	6.58	0.00	6.58	119	Madison	5.92	0.00	5.92
021	Burt	1.30	0.00	1.30	121	Merrick	0.85	0.00	0.85
023	Butler	0.89	0.00	0.89	123	Morrill	0.78	0.00	0.78
025	Cass	2.54	0.03	2.56	125	Nance	0.46	0.00	0.46
027	Cedar	1.14	0.00	1.14	127	Nemaha	1.12	0.00	1.12
029	Chase	0.79	0.00	0.79	129	Nuckolls	0.87	0.00	0.87
031	Cherry	0.92	0.00	0.92	131	Otoe	2.86	0.00	2.86
033	Cheyenne	1.94	0.00	1.94	133	Pawnee	0.27	0.00	0.27
035	Clay	1.47	0.00	1.47	135	Perkins	0.63	0.00	0.63
037	Colfax	1.22	0.00	1.22	137	Phelps	2.30	0.00	2.30
039	Cuming	1.90	0.00	1.90	139	Pierce	0.88	0.00	0.88
041	Custer	1.87	0.00	1.87	141	Platte	5.49	0.00	5.49
043	Dakota	2.67	0.00	2.67	143	Polk	1.45	0.00	1.45
045	Dawes	1.71	0.00	1.71	145	Red Willow	2.75	0.00	2.75
047	Dawson	7.64	0.00	7.64	147	Richardson	1.08	0.00	1.08
049	Deuel	0.55	0.00	0.55	149	Rock	0.23	0.00	0.23
051	Dixon	1.12	0.00	1.12	151	Saline	1.80	0.00	1.80
053	Dodge	4.34	0.00	4.34	153	Sarpy	46.27	0.00	46.27
055	Douglas	4.86	49.08	53.94	155	Saunders	35.95	0.00	35.95
057	Dundy	0.38	0.00	0.38	157	Scotts Bluff	7.35	0.00	7.35
059	Fillmore	1.36	0.00	1.36	159	Seward	2.24	0.00	2.24
061	Franklin	0.69	0.00	0.69	161	Sheridan	0.81	0.00	0.81
063	Frontier	0.47	0.00	0.47	163	Sherman	0.40	0.00	0.40
065	Furnas	0.99	0.00	0.99	165	Sioux	0.08	0.20	0.28
067	Gage	4.99	0.00	4.99	167	Stanton	0.41	0.00	0.41
069	Garden	0.28	0.00	0.28	169	Thayer	1.05	0.00	1.05
071	Garfield	0.30	0.00	0.30	171	Thomas	0.14	0.00	0.14
073	Gosper	0.27	0.00	0.27	173	Thurston	1.17	0.00	1.17
075	Grant	0.06	0.00	0.06	175	Valley	0.71	0.00	0.71
077	Greeley	0.43	0.00	0.43	177	Washington	0.29	3.88	4.18
079	Hall	11.05	0.00	11.05	179	Wayne	1.01	0.00	1.01
081	Hamilton	1.13	0.00	1.13	181	Webster	0.44	0.00	0.44
083	Harlan	1.02	0.00	1.02	183	Wheeler	0.06	0.00	0.06
085	Hayes	0.07	0.00	0.07	185	York	2.26	0.00	2.26
087	Hitchcock	0.73	0.00	0.73					
089	Holt	2.30	0.00	2.30	<b>Total</b>		<b>232.25</b>	<b>53.48</b>	<b>285.73</b>
091	Hooker	0.14	0.00	0.14					
093	Howard	0.69	0.00	0.69					
095	Jefferson	1.29	0.00	1.29					
097	Johnson	1.59	0.00	1.59					
099	Kearney	0.85	0.00	0.85					

<sup>1</sup>Million gallons per day

**Table 2**  
**Estimated Public-Supplied Water Withdrawals in Nebraska,**  
**by Hydrologic Unit and Subregion, 1995**

Hydrologic Unit Number	Ground-Water (Mgal/d) <sup>2</sup>	Surface-Water (Mgal/d) <sup>2</sup>	Total (Mgal/d) <sup>2</sup>	Hydrologic Unit Number	Ground-Water (Mgal/d) <sup>2</sup>	Surface-Water (Mgal/d) <sup>2</sup>	Total (Mgal/d) <sup>2</sup>
<b>White River - Hat Creek Basin</b>				<b>Elkhorn River Basin</b>			
10120106	0.00	0.00	0.00	10220001	6.03	0.00	6.03
10120108	0.00	0.00	0.00	10220002	3.16	0.00	3.16
Subregion 1012 <sup>1</sup>	0.00	0.00	0.00	10220003	8.26	0.00	8.26
10140201	0.11	0.20	0.31	10220004	3.37	0.00	3.37
10140203	0.00	0.00	0.00	Subregion 1022	20.83	0.00	20.83
Subregion 1014	0.11	0.20	0.31	<b>Missouri Tributaries River Basin (lower part)</b>			
<b>Niobrara River Basin</b>				10230001	3.98	3.88	7.86
10150001	0.04	0.00	0.04	10230006	2.52	49.08	51.60
10150002	0.08	0.00	0.08	Subregion 1023	6.50	52.96	59.46
10150003	5.30	0.00	5.30	<b>Nemaha River Basin</b>			
10150004	1.36	0.00	1.36	10240001	3.61	0.03	3.63
10150005	0.00	0.00	0.00	10240005	0.83	0.00	0.83
10150006	0.07	0.00	0.07	10240006	2.86	0.00	2.86
10150007	1.72	0.00	1.72	10240007	0.00	0.00	0.00
Subregion 1015	8.57	0.00	8.57	10240008	1.92	0.00	1.92
<b>Missouri River Tributaries (upper part)</b>				Subregion 1024	9.23	0.03	9.26
10170101	1.93	0.29	2.22	<b>Republican River Basin</b>			
Subregion 1017	1.93	0.29	2.22	10250001	0.00	0.00	0.00
<b>North Platte River Basin</b>				10250002	0.28	0.00	0.28
10180009	8.50	0.00	8.50	10250003	0.00	0.00	0.00
10180012	0.06	0.00	0.06	10250004	3.70	0.00	3.70
10180013	0.05	0.00	0.05	10250005	1.05	0.00	1.05
10180014	2.91	0.00	2.91	10250006	0.59	0.00	0.59
Subregion 1018	11.52	0.00	11.52	10250007	0.19	0.00	0.19
<b>South Platte River Basin</b>				10250008	0.30	0.00	0.30
10190012	0.00	0.00	0.00	10250009	1.39	0.00	1.39
10190015	0.03	0.00	0.03	10250011	0.05	0.00	0.05
10190016	3.07	0.00	3.07	10250014	0.34	0.00	0.34
10190017	0.00	0.00	0.00	10250015	0.00	0.00	0.00
10190018	5.40	0.00	5.40	10250016	3.34	0.00	3.34
Subregion 1019	8.50	0.00	8.50	Subregion 1025	11.23	0.00	11.23
<b>Middle Platte River Basin</b>				<b>Big Blue River Basin</b>			
10200101	20.14	0.00	20.14	10270201	3.33	0.00	3.33
10200102	5.27	0.00	5.27	10270202	8.06	0.00	8.06
10200103	2.15	0.00	2.15	10270203	7.98	0.00	7.98
<b>Lower Platte River Basin</b>				10270204	1.19	0.00	1.19
10200201	2.09	0.00	2.09	10270205	0.01	0.00	0.01
10200202	82.86	0.00	82.86	<b>Little Blue River Basin</b>			
10200203	3.50	0.00	3.50	10270206	5.52	0.00	5.52
Subregion 1020	116.00	0.00	116.00	10270207	1.27	0.00	1.27
<b>Lower Platte River Basin</b>				Subregion 1027	27.37	0.00	27.37
10210001	0.34	0.00	0.34	<b>Total<sup>1</sup></b>			
10210002	0.03	0.00	0.03		232.25	53.48	285.73
10210003	1.31	0.00	1.31				
10210004	0.54	0.00	0.54				
10210005	1.63	0.00	1.63				
10210006	0.00	0.00	0.00				
10210007	1.05	0.00	1.05				
10210008	0.00	0.00	0.00				
10210009	4.94	0.00	4.94				
10210010	0.62	0.00	0.62				
Subregion 1021	10.46	0.00	10.46				

<sup>1</sup>Figures may not add to totals due to independent rounding.  
<sup>2</sup>Million gallons per day

**Table 3**  
**Estimated Total Domestic Water Use in Nebraska, by County, 1995**

County Number	County Name	Population Served <sup>1</sup>	Total Use (Mgal/d) <sup>5</sup>	Per Capita Use <sup>2</sup> (gal/d) <sup>6</sup>	Annual Volume <sup>3</sup> (acre-ft)	County Number	County Name	Population Served <sup>1</sup>	Total Use (Mgal/d) <sup>5</sup>	Per Capita Use <sup>2</sup> (gal/d) <sup>6</sup>	Annual Volume <sup>3</sup> (acre-ft)
001	Adams	29,700	3.60	121	4,030	101	Keith	8,600	1.29	150	1,450
003	Antelope	7,500	0.96	127	1,070	103	Keya Paha	1,000	0.12	113	130
005	Arthur	400	0.07	160	80	105	Kimball	4,100	0.71	171	800
007	Banner	800	0.14	160	150	107	Knox	9,400	1.04	111	1,170
009	Blaine	700	0.08	118	90	109	Lancaster	228,600	22.97	100	25,750
011	Boone	6,500	0.81	124	910	111	Lincoln	33,500	4.84	145	5,430
013	Box Butte	13,000	2.04	157	2,290	113	Logan	900	0.13	155	150
015	Boyd	2,800	0.33	121	370	115	Loup	700	0.08	120	90
017	Brown	3,700	0.41	114	460	117	McPherson	500	0.09	160	100
019	Buffalo	39,500	4.84	122	5,420	119	Madison	34,300	3.88	113	4,350
021	Burt	8,000	0.86	107	960	121	Merrick	8,200	0.90	110	1,010
023	Butler	8,600	0.91	106	1,020	123	Morrill	5,300	0.86	160	960
025	Cass	22,900	2.16	94	2,430	125	Nance	4,200	0.43	101	480
027	Cedar	10,100	1.19	119	1,340	127	Nemaha	8,000	0.73	91	820
029	Chase	4,300	0.68	159	760	129	Nuckolls	5,600	0.68	123	770
031	Cherry	6,400	1.01	158	1,130	131	Otoe	14,300	1.72	120	1,930
033	Cheyenne	9,600	1.37	143	1,540	133	Pawnee	3,300	0.36	108	400
035	Clay	7,100	1.00	140	1,120	135	Perkins	3,300	0.56	172	630
037	Colfax	10,100	1.04	103	1,170	137	Phelps	10,000	1.47	147	1,640
039	Cuming	10,100	1.21	119	1,360	139	Pierce	7,900	1.03	131	1,160
041	Custer	12,300	1.52	124	1,700	141	Platte	30,700	3.99	130	4,470
043	Dakota	18,200	1.79	98	2,000	143	Polk	5,700	1.03	182	1,150
045	Dawes	9,100	1.43	157	1,610	145	Red Willow	11,400	1.69	148	1,890
047	Dawson	22,700	4.55	201	5,100	147	Richardson	9,700	0.81	84	910
049	Deuel	2,100	0.43	202	480	149	Rock	1,900	0.24	128	270
051	Dixon	6,300	0.85	135	950	151	Saline	12,900	1.29	100	1,450
053	Dodge	34,700	3.78	109	4,240	153	Sarpy	111,800	12.81	115	14,360
055	Douglas	434,100	50.74	117	56,880	155	Saunders	19,000	1.81	95	2,030
057	Dundy	2,400	0.40	163	450	157	Scotts Bluff	37,200	5.42	146	6,070
059	Fillmore	7,000	0.97	139	1,080	159	Seward	16,300	1.97	121	2,210
061	Franklin	3,700	0.51	138	570	161	Sheridan	6,700	0.93	138	1,040
063	Frontier	3,200	0.41	130	460	163	Sherman	3,600	0.42	118	480
065	Furnas	5,700	0.83	148	940	165	Sioux	1,600	0.26	160	290
067	Gage	22,800	3.26	143	3,650	167	Stanton	6,200	0.53	86	600
069	Garden	2,200	0.35	158	400	169	Thayer	6,400	0.80	125	890
071	Garfield	2,100	0.25	120	280	171	Thomas	800	0.17	202	190
073	Gosper	2,200	0.30	141	340	173	Thurston	7,200	0.79	109	880
075	Grant	800	0.12	160	140	175	Valley	4,900	0.60	123	680
077	Greeley	3,000	0.36	121	400	177	Washington	17,800	3.08	174	3,450
079	Hall	51,200	6.43	126	7,210	179	Wayne	9,600	0.82	85	910
081	Hamilton	9,300	1.04	112	1,170	181	Webster	4,100	0.48	117	540
083	Harlan	3,700	0.54	147	610	183	Wheeler	1,000	0.11	120	130
085	Hayes	1,100	0.15	134	170	185	York	14,600	2.24	153	2,510
087	Hitchcock	3,400	0.52	152	580						
089	Holt	12,400	1.45	117	1,620						
091	Hooker	700	0.12	160	130						
093	Howard	6,300	0.76	119	850						
095	Jefferson	8,400	0.90	107	1,010						
097	Johnson	4,600	0.82	179	920						
099	Kearney	6,600	0.76	115	850						
<b>Total<sup>4</sup></b>								1,637,100	197.25	120	221,120

<sup>1</sup>Population rounded to the nearest 100.

<sup>2</sup>Average use, in Mgal/d, divided by population served and multiplied by 10<sup>6</sup>.

<sup>3</sup>Rounded to the nearest 10 acre-feet.

<sup>4</sup>Figures may not add to totals due to independent rounding.

<sup>5</sup>Million gallons per day

<sup>6</sup>Gallons per day

**Table 4**  
**Estimated Total Domestic Water Use in Nebraska, by Hydrologic Unit and Subregion, 1995**

Hydrologic Unit Number	Population Served <sup>1</sup>	Total Use (Mgal/d) <sup>5</sup>	Per Capita Use <sup>2</sup> (gal/d) <sup>6</sup>	Annual Volume (acre-ft) <sup>3</sup>	Hydrologic Unit Number	Population Served <sup>1</sup>	Total Use (Mgal/d) <sup>5</sup>	Per Capita Use <sup>2</sup> (gal/d) <sup>6</sup>	Annual Volume (acre-ft) <sup>3</sup>
<b>White River - Hat Creek Basin</b>					<b>Elkhorn River Basin</b>				
10120106	< 50	0.01	160	10	10220001	31,500	3.70	118	4,150
10120108	300	0.05	160	50	10220002	25,800	2.88	112	3,230
Subregion 1012 <sup>4</sup>	300	0.05	---	60	10220003	80,400	8.80	109	9,860
10140201	9,100	1.42	157	1,590	10220004	23,100	2.34	102	2,630
10140203	< 50	< 0.01	160	< 5	Subregion 1022	160,800	17.73	---	19,870
Subregion 1014	9,100	1.42	---	1,590	<b>Missouri Tributaries River Basin (lower part)</b>				
<b>Niobrara River Basin</b>					10230001	33,200	4.63	140	5,190
10150001	2,300	0.28	119	310	10230006	500,200	58.68	117	65,780
10150002	1,200	0.18	160	210	Subregion 1023	533,400	63.31	---	70,980
10150003	19,700	2.97	151	3,330	<b>Nemaha River Basin</b>				
10150004	8,200	1.12	136	1,260	10240001	21,500	2.26	105	2,530
10150005	500	0.08	160	90	10240005	2,300	0.19	82	210
10150006	1,100	0.13	114	140	10240006	15,600	1.53	98	1,720
10150007	4,800	0.63	131	710	10240007	2,900	0.31	107	350
Subregion 1015	38,000	5.41	---	6,060	10240008	16,100	1.86	115	2,080
<b>Missouri Tributaries River Basin (upper part)</b>					Subregion 1024	58,400	6.15	---	6,890
10170101	20,100	2.40	120	2,690	<b>Republican River Basin</b>				
Subregion 1017	20,100	2.40	---	2,690	10250001	< 50	0.01	176	10
<b>North Platte River Basin</b>					10250002	1,800	0.30	164	340
10180009	42,600	6.29	148	7,050	10250003	< 50	< 0.01	160	< 5
10180012	1,900	0.30	160	340	10250004	15,200	2.26	148	2,530
10180013	2,000	0.33	160	370	10250005	4,500	0.73	164	820
10180014	14,500	2.08	143	2,330	10250006	3,500	0.60	169	670
Subregion 1018	61,100	8.99	---	10,080	10250007	2,100	0.35	165	390
<b>South Platte River Basin</b>					10250008	3,800	0.54	141	600
10190012	200	0.03	160	30	10250009	7,700	1.12	145	1,260
10190015	200	0.04	160	40	10250011	700	0.08	120	90
10190016	12,300	1.95	158	2,180	10250014	2,200	0.31	144	350
10190017	900	0.14	160	150	10250015	100	0.01	120	10
10190018	23,100	3.33	144	3,730	10250016	16,700	2.19	131	2,460
Subregion 1019	36,700	5.48	---	6,140	Subregion 1025	58,400	8.51	---	9,540
<b>Middle Platte River Basin</b>					<b>Big Blue River Basin</b>				
10200101	50,700	8.25	163	9,250	10270201	20,900	2.72	130	3,050
10200102	41,100	5.11	124	5,730	10270202	41,900	5.26	126	5,900
10200103	40,000	4.89	122	5,480	10270203	37,300	5.08	136	5,700
<b>Lower Platte River Basin</b>					10270204	8,800	1.06	120	1,180
10200201	23,000	2.80	122	3,140	10270205	1,000	0.11	107	120
10200202	37,600	3.93	105	4,410	<b>Little Blue River Basin</b>				
10200203	248,600	24.96	100	27,980	10270206	34,900	4.31	124	4,830
Subregion 1020	441,200	49.95	---	56,000	10270207	7,300	0.81	111	910
<b>Loup River Basin</b>					Subregion 1027	152,000	19.35	---	21,690
10210001	2,300	0.40	173	450	<b>Total<sup>4</sup></b>				
10210002	1,400	0.23	156	250		1,637,100	197.25	120	221,120
10210003	10,400	1.29	125	1,450					
10210004	7,400	0.96	130	1,080					
10210005	7,800	0.93	119	1,040					
10210006	1,500	0.22	141	240					
10210007	7,600	0.91	121	1,020					
10210008	1,100	0.13	122	150					
10210009	23,500	2.89	123	3,240					
10210010	4,700	0.55	117	620					
Subregion 1021	67,700	8.52	---	9,550					

<sup>1</sup>Population rounded to the nearest 100.  
<sup>2</sup>Average use, in Mgal/d, divided by population served and multiplied by 10<sup>6</sup>.  
<sup>3</sup>Rounded to the nearest 10 acre-feet.  
<sup>4</sup>Figures may not add to totals due to independent rounding.  
<sup>5</sup>Million gallons per day  
<sup>6</sup>Gallons per day

**Table 5**  
**Estimated Public-Supplied Domestic Water Use in Nebraska, by County, 1995**

County Number	County Name	Estimated Population Served <sup>1</sup>	Total Use (Mgal/d) <sup>5</sup>	Per Capita Use <sup>2</sup> (gal/d) <sup>6</sup>	Annual Volume <sup>3</sup> (acre-ft)	County Number	County Name	Estimated Population Served <sup>1</sup>	Total Use (Mgal/d) <sup>5</sup>	Per Capita Use <sup>2</sup> (gal/d) <sup>6</sup>	Annual Volume <sup>3</sup> (acre-ft)
001	Adams	25,400	3.08	121	3,460	101	Keith	6,000	0.87	145	970
003	Antelope	4,000	0.54	134	610	103	Keya Paha	300	0.03	94	30
005	Arthur	0	0.00	---	0	105	Kimball	2,900	0.51	176	570
007	Banner	100	0.02	160	20	107	Knox	6,900	0.64	94	720
009	Blaine	100	0.01	110	20	109	Lancaster	212,300	21.18	100	23,740
011	Boone	3,500	0.45	128	500	111	Lincoln	25,700	3.61	140	4,040
013	Box Butte	10,500	1.64	156	1,840	113	Logan	300	0.04	146	50
015	Boyd	1,900	0.23	121	250	115	Loup	0	0.00	---	0
017	Brown	2,200	0.24	109	270	117	McPherson	0	0.00	---	0
019	Buffalo	32,600	4.00	123	4,490	119	Madison	27,700	3.08	111	3,450
021	Burt	6,000	0.64	107	720	121	Merrick	4,300	0.44	102	490
023	Butler	4,400	0.45	103	510	123	Morrill	2,900	0.46	160	510
025	Cass	17,500	1.57	90	1,760	125	Nance	2,700	0.24	89	270
027	Cedar	6,000	0.70	118	790	127	Nemaha	6,800	0.59	87	660
029	Chase	2,600	0.40	158	450	129	Nuckolls	3,600	0.44	124	500
031	Cherry	3,400	0.53	156	590	131	Otoe	13,500	1.63	121	1,830
033	Cheyenne	7,200	1.00	138	1,120	133	Pawnee	3,300	0.36	108	400
035	Clay	5,000	0.74	149	830	135	Perkins	1,800	0.33	182	370
037	Colfax	6,300	0.62	98	690	137	Phelps	7,200	1.13	157	1,270
039	Cuming	7,400	0.91	123	1,020	139	Pierce	3,700	0.53	144	590
041	Custer	7,200	0.91	126	1,020	141	Platte	22,900	3.14	137	3,520
043	Dakota	14,500	1.38	95	1,550	143	Polk	3,000	0.74	245	830
045	Dawes	8,000	1.09	136	1,220	145	Red Willow	9,000	1.40	155	1,570
047	Dawson	17,400	3.91	225	4,380	147	Richardson	8,400	0.67	80	750
049	Deuel	1,400	0.31	224	350	149	Rock	800	0.11	138	130
051	Dixon	3,300	0.49	148	550	151	Saline	9,300	0.89	96	1,000
053	Dodge	28,400	3.09	109	3,460	153	Sarpy	88,400	10.24	116	11,480
055	Douglas	376,500	44.41	118	49,780	155	Saunders	10,400	0.86	83	960
057	Dundy	1,400	0.23	166	250	157	Scotts Bluff	27,300	3.84	141	4,300
059	Fillmore	4,500	0.69	155	780	159	Seward	10,500	1.34	127	1,500
061	Franklin	2,300	0.35	148	390	161	Sheridan	3,600	0.42	119	480
063	Frontier	1,600	0.23	140	260	163	Sherman	1,700	0.20	117	230
065	Furnas	4,000	0.63	159	710	165	Sioux	300	0.05	160	50
067	Gage	16,500	2.55	155	2,860	167	Stanton	3,600	0.25	69	280
069	Garden	900	0.14	156	160	169	Thayer	4,400	0.58	131	650
071	Garfield	1,200	0.15	120	160	171	Thomas	200	0.07	310	80
073	Gosper	800	0.14	176	160	173	Thurston	5,300	0.58	109	650
075	Grant	200	0.03	160	40	175	Valley	3,100	0.38	124	430
077	Greeley	1,700	0.21	122	240	177	Washington	10,400	2.27	219	2,550
079	Hall	44,600	5.64	126	6,320	179	Wayne	6,700	0.47	70	530
081	Hamilton	5,500	0.58	106	650	181	Webster	2,500	0.28	115	320
083	Harlan	2,600	0.41	158	460	183	Wheeler	200	0.03	120	30
085	Hayes	300	0.05	174	60	185	York	10,500	1.79	170	2,010
087	Hitchcock	2,000	0.35	174	390						
089	Holt	6,800	0.78	114	870						
091	Hooker	500	0.08	160	90						
093	Howard	3,000	0.35	119	390						
095	Jefferson	6,000	0.64	106	720						
097	Johnson	3,200	0.67	209	750						
099	Kearney	4,000	0.44	111	490						
						<b>Total<sup>4</sup></b>		<b>1,290,700</b>	<b>155.41</b>	<b>120</b>	<b>174,210</b>

<sup>1</sup>Population rounded to the nearest 100  
<sup>2</sup>Average use, in Mgal/d, divided by population served and multiplied by 10<sup>6</sup>.  
<sup>3</sup>Rounded to the nearest 10 acre-feet.  
<sup>4</sup>Figures may not add to totals due to independent rounding.  
<sup>5</sup>Million gallons per day  
<sup>6</sup>Gallons per day

**Table 6**  
**Estimated Public-Supplied Domestic Water Use in Nebraska, by Hydrologic Unit and Subregion, 1995**

Hydrologic Unit Number	Estimated Population Served <sup>1</sup>	Total Use <sup>5</sup> (Mgal/d)	Per Capita Use <sup>2</sup> (gal/d)	Annual Volume <sup>3</sup> (acre-ft)	Hydrologic Unit Number	Estimated Population Served <sup>1</sup>	Total Use <sup>5</sup> (Mgal/d)	Per Capita Use <sup>2</sup> (gal/d)	Annual Volume <sup>3</sup> (acre-ft)
<b>White River - Hat Creek Basin</b>					<b>Elkhorn River Basin</b>				
10120106	< 50	< 0.01	160	< 5	10220001	21,900	2.55	116	2,850
10120108	0	0.00	---	0	10220002	20,200	2.21	109	2,480
Subregion 1012 <sup>4</sup>	< 50	< 0.01	---	< 5	10220003	41,100	4.45	108	4,980
10140201	8,000	1.09	136	1,220	10220004	16,200	1.54	95	1,720
10140203	0	0.00	---	0	Subregion 1022	99,400	10.74	---	12,000
Subregion 1014	8,000	1.09	---	1,220	<b>Missouri Tributaries River Basin (lower part)</b>				
<b>Niobrara River Basin</b>					10230001	27,700	4.03	145	4,520
10150001	1,800	0.21	119	240	10230006	458,600	54.11	118	60,660
10150002	300	0.05	160	50	Subregion 1023	486,400	58.14	---	65,180
10150003	14,200	2.09	147	2,350	<b>Nemaha River Basin</b>				
10150004	5,500	0.75	137	840	10240001	20,800	2.18	105	2,440
10150005	0	0.00	---	0	10240005	1,700	0.12	72	130
10150006	400	0.04	101	40	10240006	13,500	1.29	96	1,450
10150007	1,500	0.24	155	270	10240007	2,900	0.31	107	340
Subregion 1015	23,700	3.37	---	3,780	10240008	12,600	1.47	117	1,640
<b>Missouri Tributaries River Basin (upper part)</b>					Subregion 1024	51,300	5.37	---	6,020
10170101	11,000	1.25	113	1,400	<b>Republican River Basin</b>				
Subregion 1017	11,000	1.25	---	1,400	10250001	< 50	0.01	184	10
<b>North Platte River Basin</b>					10250002	1,100	0.18	166	210
10180009	31,100	4.44	143	4,980	10250003	0	0.00	---	0
10180012	500	0.07	160	80	10250004	11,500	1.78	155	2,000
10180013	100	0.02	160	20	10250005	3,100	0.54	171	600
10180014	11,100	1.53	138	1,720	10250006	1,700	0.30	184	340
Subregion 1018	42,800	6.07	---	6,800	10250007	400	0.10	251	120
<b>South Platte River Basin</b>					10250008	1,600	0.22	134	250
10190012	0	0.00	---	0	10250009	4,500	0.73	163	820
10190015	100	0.02	160	20	10250011	200	0.02	120	20
10190016	10,400	1.64	157	1,840	10250014	1,000	0.17	171	190
10190017	0	0.00	---	0	10250015	0	0.00	---	0
10190018	20,100	2.84	141	3,190	10250016	12,200	1.65	136	1,850
Subregion 1019	30,600	4.50	---	5,050	Subregion 1025	37,400	5.72	---	6,410
<b>Middle Platte River Basin</b>					<b>Big Blue River Basin</b>				
10200101	36,700	6.43	175	7,210	10270201	13,000	1.83	141	2,050
10200102	36,100	4.51	125	5,050	10270202	32,500	4.24	130	4,750
10200103	30,600	3.78	124	4,240	10270203	28,400	4.07	143	4,560
<b>Lower Platte River Basin</b>					10270204	4,800	0.61	128	680
10200201	15,400	1.95	127	2,190	10270205	400	0.05	103	50
10200202	12,500	1.17	94	1,310	<b>Little Blue River Basin</b>				
10200203	221,500	21.98	99	24,640	10270206	24,700	3.12	126	3,500
Subregion 1020	352,700	39.82	---	44,640	10270207	5,600	0.63	111	700
<b>Loup River Basin</b>					Subregion 1027	109,500	14.53	---	16,290
10210001	1,000	0.19	192	220	<b>Total<sup>4</sup></b>				
10210002	100	0.01	110	10		1,290,700	155.41	120	174,210
10210003	5,500	0.71	129	790					
10210004	2,500	0.35	142	390					
10210005	6,000	0.71	118	800					
10210006	0	0.00	---	0					
10210007	4,500	0.54	121	610					
10210008	0	0.00	---	0					
10210009	16,300	2.06	126	2,310					
10210010	2,000	0.22	113	250					
Subregion 1021	37,800	4.80	---	5,380					

<sup>1</sup>Population rounded to the nearest 100.  
<sup>2</sup>Total use, in Mgal/d, divided by population served and multiplied by 10<sup>6</sup>.  
<sup>3</sup>Rounded to the nearest 10 acre-feet.  
<sup>4</sup>Figures may not add to totals due to independent rounding.  
<sup>5</sup>Million gallons per day  
<sup>6</sup>Gallons per day

**Table 7**  
**Estimated Self-Supplied Domestic Water Use in Nebraska, by County, 1995**

County Number	County Name	Self-Supplied Population <sup>1</sup>	Total Use (Mgal/d) <sup>5</sup>	Per Capita Use <sup>2</sup> (gal/d) <sup>6</sup>	Annual Volume (acre-ft) <sup>3</sup>	County Number	County Name	Self-Supplied Population <sup>1</sup>	Total Use (Mgal/d) <sup>5</sup>	Per Capita Use <sup>2</sup> (gal/d) <sup>6</sup>	Annual Volume (acre-ft) <sup>3</sup>
001	Adams	4,300	0.52	120	580	101	Keith	2,700	0.42	160	480
003	Antelope	3,500	0.42	120	470	103	Keya Paha	700	0.09	120	100
005	Arthur	400	0.07	160	80	105	Kimball	1,300	0.20	160	230
007	Banner	700	0.12	160	130	107	Knox	2,500	0.40	157	450
009	Blaine	500	0.06	120	70	109	Lancaster	16,300	1.79	110	2,010
011	Boone	3,000	0.36	120	410	111	Lincoln	7,700	1.24	160	1,390
013	Box Butte	2,500	0.40	160	440	113	Logan	600	0.09	160	100
015	Boyd	900	0.11	120	120	115	Loup	700	0.08	120	90
017	Brown	1,400	0.17	120	190	117	McPherson	500	0.09	160	100
019	Buffalo	7,000	0.83	120	940	119	Madison	6,700	0.80	120	900
021	Burt	2,000	0.22	110	240	121	Merrick	3,900	0.46	120	520
023	Butler	4,200	0.46	110	520	123	Morrill	2,500	0.40	160	450
025	Cass	5,400	0.59	110	670	125	Nance	1,600	0.19	120	210
027	Cedar	4,100	0.49	120	550	127	Nemaha	1,300	0.14	110	160
029	Chase	1,700	0.28	160	310	129	Nuckolls	2,000	0.24	120	270
031	Cherry	3,000	0.48	160	530	131	Otoe	800	0.09	110	100
033	Cheyenne	2,300	0.37	160	420	133	Pawnee	< 50	0.00	---	---
035	Clay	2,200	0.26	120	290	135	Perkins	1,500	0.23	160	260
037	Colfax	3,900	0.42	110	480	137	Phelps	2,800	0.33	120	370
039	Cuming	2,800	0.30	110	340	139	Pierce	4,200	0.50	120	560
041	Custer	5,000	0.60	120	670	141	Platte	7,800	0.85	110	960
043	Dakota	3,700	0.41	110	450	143	Polk	2,600	0.29	110	330
045	Dawes	1,100	0.34	312	380	145	Red Willow	2,400	0.29	120	320
047	Dawson	5,300	0.64	120	720	147	Richardson	1,300	0.14	110	160
049	Deuel	700	0.12	160	130	149	Rock	1,000	0.13	120	140
051	Dixon	3,000	0.36	120	400	151	Saline	3,600	0.40	110	450
053	Dodge	6,300	0.69	110	780	153	Sarpy	23,400	2.57	110	2,880
055	Douglas	57,600	6.34	110	7,100	155	Saunders	8,600	0.95	110	1,070
057	Dundy	1,100	0.17	160	190	157	Scotts Bluff	9,900	1.58	160	1,770
059	Fillmore	2,500	0.27	110	310	159	Seward	5,800	0.64	110	710
061	Franklin	1,400	0.17	120	190	161	Sheridan	3,200	0.50	160	570
063	Frontier	1,500	0.18	120	210	163	Sherman	1,900	0.22	120	250
065	Furnas	1,700	0.20	120	230	165	Sioux	1,300	0.21	160	240
067	Gage	6,400	0.70	110	790	167	Stanton	2,600	0.29	110	320
069	Garden	1,300	0.21	160	240	169	Thayer	2,000	0.22	110	250
071	Garfield	900	0.10	120	110	171	Thomas	600	0.10	160	110
073	Gosper	1,300	0.16	120	180	173	Thurston	1,900	0.21	110	230
075	Grant	600	0.09	160	100	175	Valley	1,800	0.22	120	250
077	Greeley	1,200	0.15	120	160	177	Washington	7,400	0.81	110	910
079	Hall	6,600	0.79	120	890	179	Wayne	2,900	0.34	120	390
081	Hamilton	3,800	0.46	120	510	181	Webster	1,600	0.20	120	220
083	Harlan	1,100	0.13	120	150	183	Wheeler	700	0.08	120	100
085	Hayes	800	0.10	120	110	185	York	4,100	0.45	110	510
087	Hitchcock	1,400	0.17	120	190						
089	Holt	5,600	0.67	120	750						
091	Hooker	200	0.04	160	40						
093	Howard	3,400	0.41	120	460						
095	Jefferson	2,400	0.26	110	300						
097	Johnson	1,400	0.15	110	170						
099	Kearney	2,700	0.32	120	360						
						<b>Total<sup>4</sup></b>		<b>346,400</b>	<b>41.85</b>	<b>120</b>	<b>46,910</b>

<sup>1</sup>Population rounded to the nearest 100.  
<sup>2</sup>Total use, in Mgal/d, divided by population served and multiplied by 10<sup>6</sup>.  
<sup>3</sup>Rounded to the nearest 10 acre-feet.  
<sup>4</sup>Figures may not add to totals due to independent rounding.  
<sup>5</sup>Million gallons per day  
<sup>6</sup>Gallons per day

**Table 8**  
**Estimated Self-Supplied Domestic Water Use in Nebraska, by Hydrologic Unit and Subregion, 1995**

Hydrologic Unit Number	Self-Supplied Population <sup>1</sup>	Total Use (Mgal/d) <sup>5</sup>	Per Capita Use <sup>2</sup> (gal/d) <sup>6</sup>	Annual Volume (acre-ft) <sup>3</sup>	Hydrologic Unit Number	Self-Supplied Population <sup>1</sup>	Total Use (Mgal/d) <sup>5</sup>	Per Capita Use <sup>2</sup> (gal/d) <sup>6</sup>	Annual Volume (acre-ft) <sup>3</sup>
<b>White River - Hat Creek Basin</b>					<b>Elkhorn River Basin</b>				
10120106	< 50	0.01	160	10	10220001	9,600	1.16	120	1,300
10120108	300	0.05	160	50	10220002	5,600	0.67	120	750
Subregion 1012 <sup>4</sup>	300	0.05	---	60	10220003	39,300	4.35	111	4,880
10140201	1,000	0.33	323	370	10220004	6,900	0.80	117	900
10140203	< 50	< 0.01	160	< 5	Subregion 1022	61,400	6.98	---	7,830
Subregion 1014	1,000	0.33	---	370	<b>Missouri Tributaries River Basin (lower part)</b>				
<b>Niobrara River Basin</b>					10230001	5,400	0.60	110	670
10150001	600	0.07	120	70	10230006	41,600	4.57	110	5,130
10150002	900	0.14	160	160	Subregion 1023	47,000	5.17	---	5,800
10150003	5,500	0.88	160	990	<b>Nemaha River Basin</b>				
10150004	2,800	0.38	136	420	10240001	700	0.08	110	90
10150005	500	0.08	160	90	10240005	600	0.07	110	80
10150006	700	0.09	121	100	10240006	2,200	0.24	110	270
10150007	3,300	0.40	120	450	10240007	100	0.01	110	10
Subregion 1015	14,300	2.03	---	2,280	10240008	3,600	0.39	110	440
<b>Missouri Tributaries River Basin (upper part)</b>					Subregion 1024	7,100	0.78	---	870
10170101	9,000	1.15	127	1,290	<b>Republican River Basin</b>				
Subregion 1017	9,000	1.15	---	1,290	10250001	< 50	< 0.01	160	< 5
<b>North Platte River Basin</b>					10250002	700	0.12	160	130
10180009	11,500	1.84	160	2,070	10250003	< 50	< 0.01	160	< 5
10180012	1,400	0.23	160	250	10250004	3,800	0.48	127	530
10180013	1,900	0.31	160	350	10250005	1,300	0.20	147	220
10180014	3,400	0.54	160	610	10250006	1,900	0.29	156	330
Subregion 1018	18,300	2.92	---	3,270	10250007	1,700	0.24	144	270
<b>South Platte River Basin</b>					10250008	2,100	0.31	146	350
10190012	200	0.03	160	30	10250009	3,200	0.39	121	440
10190015	100	0.02	160	20	10250011	500	0.06	120	70
10190016	1,900	0.30	160	340	10250014	1,200	0.14	120	160
10190017	900	0.14	160	150	10250015	100	0.01	120	120
10190018	3,000	0.49	160	550	10250016	4,500	0.54	120	600
Subregion 1019	6,100	0.97	---	1,090	Subregion 1025	21,100	2.79	---	3,130
<b>Middle Platte River Basin</b>					<b>Big Blue River Basin</b>				
10200101	14,100	1.82	129	2,040	10270201	8,000	0.89	112	1,000
10200102	5,000	0.60	120	680	10270202	9,400	1.03	110	1,150
10200103	9,400	1.11	118	1,240	10270203	8,800	1.01	115	1,140
<b>Lower Platte River Basin</b>					10270204	4,100	0.45	110	500
10200201	7,700	0.85	111	950	10270205	500	0.06	110	70
10200202	25,100	2.76	110	3,100	<b>Little Blue River Basin</b>				
10200203	27,100	2.98	110	3,340	10270206	10,100	1.19	118	1,330
Subregion 1020	88,400	10.13	---	11,360	10270207	1,700	0.18	110	200
<b>Loup River Basin</b>					Subregion 1027	42,500	4.81	---	5,400
10210001	1,300	0.20	159	230	<b>Total<sup>4</sup></b>				
10210002	1,400	0.22	158	250		346,400	41.85	120	46,910
10210003	4,900	0.59	120	660					
10210004	4,900	0.61	124	680					
10210005	1,800	0.22	120	240					
10210006	1,500	0.22	141	240					
10210007	3,100	0.37	120	410					
10210008	1,100	0.13	122	150					
10210009	7,100	0.83	117	930					
10210010	2,800	0.33	120	370					
Subregion 1021	29,900	3.72	---	4,170					

<sup>1</sup>Population rounded to the nearest 100.  
<sup>2</sup>Total use, in Mgal/d, divided by population served and multiplied by 10<sup>6</sup>.  
<sup>3</sup>Rounded to the nearest 10 acre-feet.  
<sup>4</sup>Figures may not add to totals due to independent rounding.  
<sup>5</sup>Million gallons per day  
<sup>6</sup>Gallons per day

**Table 9**  
**Estimated Commercial, Industrial, and Mining Water Use in Nebraska, by County, 1995**

County Number	County Name	Commercial		Industrial		Mining	County Number	County Name	Commercial		Industrial		Mining
		Self-Supplied <sup>1</sup> (Mgal/d)	Public-Supplied (Mgal/d)	Self-Supplied (Mgal/d)	Public-Supplied (Mgal/d)	Self-Supplied (Mgal/d)			Self-Supplied <sup>1</sup> (Mgal/d)	Public-Supplied (Mgal/d)	Self-Supplied (Mgal/d)	Public-Supplied (Mgal/d)	Self-Supplied (Mgal/d)
001	Adams	0.01	1.76	1.34	0.59	0.96	101	Keith	0.00	0.31	0.00	0.10	0.88
003	Antelope	0.00	0.32	0.00	0.11	2.43	103	Keya Paha	0.00	0.02	0.00	0.01	0.07
005	Arthur	0.00	0.00	0.00	0.00	0.00	105	Kimball	0.00	0.20	0.00	0.07	1.70
007	Banner	0.00	0.00	0.00	0.00	1.34	107	Knox	0.00	0.33	0.13	0.11	3.71
009	Blaine	0.00	0.01	0.00	0.00	0.04	109	Lancaster	0.04	7.35	0.24	2.45	0.29
011	Boone	0.00	0.27	0.00	0.09	0.00	111	Lincoln	0.01	2.13	0.01	0.71	1.87
013	Box Butte	0.00	0.60	0.00	0.20	0.09	113	Logan	0.00	0.03	0.00	0.01	0.00
015	Boyd	0.00	0.10	0.00	0.03	0.38	115	Loup	0.00	0.00	0.00	0.00	0.26
017	Brown	0.00	0.15	0.01	0.05	0.12	117	McPherson	0.00	0.00	0.00	0.00	0.01
019	Buffalo	0.01	1.24	0.94	0.41	5.77	119	Madison	0.01	1.85	2.81	0.62	7.21
021	Burt	0.00	0.31	0.00	0.10	0.03	121	Merrick	0.00	0.26	0.00	0.09	1.64
023	Butler	0.00	0.27	0.00	0.09	0.83	123	Morrill	0.00	0.16	1.99	0.05	0.99
025	Cass	0.00	0.64	1.00	0.21	9.77	125	Nance	0.00	0.14	0.00	0.05	0.47
027	Cedar	0.00	0.33	0.08	0.11	0.82	127	Nemaha	0.00	0.19	0.00	0.06	0.35
029	Chase	0.00	0.25	0.00	0.08	0.89	129	Nuckolls	0.00	0.27	0.00	0.09	0.26
031	Cherry	0.00	0.19	0.00	0.06	0.04	131	Otoe	0.00	0.75	0.00	0.25	0.00
033	Cheyenne	0.00	0.59	0.02	0.20	1.76	133	Pawnee	0.00	0.10	0.00	0.03	0.05
035	Clay	0.00	0.45	0.00	0.15	2.64	135	Perkins	0.00	0.18	0.00	0.06	0.48
037	Colfax	0.00	0.37	1.75	0.12	2.09	137	Phelps	0.00	0.63	0.00	0.21	1.94
039	Cuming	0.00	0.35	0.81	0.12	8.66	139	Pierce	0.00	0.20	0.00	0.07	0.31
041	Custer	0.00	0.54	0.01	0.18	2.93	141	Platte	0.01	1.13	4.47	0.38	6.86
043	Dakota	0.00	0.75	3.02	0.25	0.00	143	Polk	0.00	0.45	0.00	0.15	0.85
045	Dawes	0.00	0.41	0.00	0.14	5.67	145	Red Willow	0.00	0.85	0.44	0.28	4.69
047	Dawson	0.01	2.37	0.14	0.79	1.52	147	Richardson	0.00	0.21	0.00	0.07	0.08
049	Deuel	0.00	0.12	0.00	0.04	2.58	149	Rock	0.00	0.07	0.00	0.02	0.03
051	Dixon	0.00	0.29	0.20	0.10	0.00	151	Saline	0.00	0.50	1.86	0.17	0.00
053	Dodge	0.01	1.71	1.16	0.57	2.14	153	Sarpy	0.03	5.66	1.53	1.89	5.23
055	Douglas	0.12	24.67	0.74	8.22	4.65	155	Saunders	0.00	0.37	0.05	0.12	9.98
057	Dundy	0.00	0.08	0.00	0.03	0.20	157	Scotts Bluff	0.01	2.18	2.52	0.73	1.20
059	Fillmore	0.00	0.42	0.00	0.14	0.00	159	Seward	0.00	0.49	0.05	0.16	0.07
061	Franklin	0.00	0.21	0.00	0.07	2.78	161	Sheridan	0.00	0.23	0.00	0.08	0.02
063	Frontier	0.00	0.14	0.00	0.05	0.00	163	Sherman	0.00	0.12	0.00	0.04	0.02
065	Furnas	0.00	0.38	0.00	0.13	0.49	165	Sioux	0.00	0.02	0.00	0.01	0.03
067	Gage	0.01	1.54	0.01	0.51	2.69	167	Stanton	0.00	0.10	0.00	0.03	1.74
069	Garden	0.00	0.09	0.00	0.03	0.03	169	Thayer	0.00	0.29	0.02	0.10	6.01
071	Garfield	0.00	0.08	0.00	0.03	0.18	171	Thomas	0.00	0.04	0.00	0.01	2.90
073	Gosper	0.00	0.08	0.00	0.03	0.01	173	Thurston	0.00	0.32	0.00	0.11	0.00
075	Grant	0.00	0.01	0.00	0.00	0.00	175	Valley	0.00	0.18	0.00	0.06	1.07
077	Greeley	0.00	0.13	0.00	0.04	0.00	177	Washington	0.01	1.33	0.01	0.44	0.02
079	Hall	0.02	3.45	2.27	1.15	5.75	179	Wayne	0.00	0.37	0.00	0.12	0.00
081	Hamilton	0.00	0.34	0.16	0.11	0.00	181	Webster	0.00	0.14	0.00	0.05	2.06
083	Harlan	0.00	0.19	0.03	0.06	0.55	183	Wheeler	0.00	0.02	0.00	0.01	0.00
085	Hayes	0.00	0.03	0.00	0.01	0.07	185	York	0.00	0.31	0.54	0.10	0.00
087	Hitchcock	0.00	0.21	0.00	0.07	2.93							
089	Holt	0.00	0.46	0.00	0.15	1.91	<b>Total</b>		0.39	78.59	30.41	26.20	145.22
091	Hooker	0.00	0.03	0.00	0.01	0.02							
093	Howard	0.00	0.21	0.00	0.07	1.24							
095	Jefferson	0.00	0.34	0.03	0.11	1.92							
097	Johnson	0.00	0.36	0.00	0.12	0.00							
099	Kearney	0.00	0.26	0.00	0.09	0.95							

<sup>1</sup>Million gallons per day

**Table 10**  
**Estimated Commercial, Industrial, and Mining Water Use in Nebraska,**  
**by Hydrologic Unit and Subregion, 1995**

Hydrologic Unit Number	Commercial		Industrial		Mining	Hydrologic Unit Number	Commercial		Industrial		Mining
	Self-Supplied <sup>1</sup> (Mgal/d)	Public-Supplied (Mgal/d)	Self-Supplied (Mgal/d)	Public-Supplied (Mgal/d)	Self-Supplied (Mgal/d)		Self-Supplied <sup>1</sup> (Mgal/d)	Public-Supplied (Mgal/d)	Self-Supplied (Mgal/d)	Public-Supplied (Mgal/d)	Self-Supplied (Mgal/d)
<b>White River - Hat Creek Basin</b>						<b>Elkhorn River Basin</b>					
10120106	0.00	0.00	0.00	0.00	0.00	10220001	0.01	1.52	1.40	0.51	8.96
10120108	0.00	0.00	0.00	0.00	0.03	10220002	0.01	1.15	0.34	0.38	0.31
Subregion 1012	0.00	0.00	0.00	0.00	0.03	10220003	0.01	2.24	1.84	0.75	11.43
10140201	0.00	0.41	0.00	0.14	5.62	10220004	0.00	0.95	0.20	0.32	0.00
10140203	0.00	0.00	0.00	0.00	0.00	Subregion 1022	0.03	5.86	3.78	1.95	20.70
Subregion 1014	0.00	0.41	0.00	0.14	5.62	<b>Missouri Tributaries River Basin (lower part)</b>					
<b>Niobrara River Basin</b>						10230001	0.01	2.33	3.02	0.78	0.03
10150001	0.00	0.10	0.00	0.03	0.00	10230006	0.15	30.16	1.86	10.05	0.02
10150002	0.00	0.02	0.00	0.01	0.06	Subregion 1023	0.16	32.49	4.89	10.83	0.05
10150003	0.00	0.84	0.01	0.28	0.12	<b>Nemaha River Basin</b>					
10150004	0.00	0.33	0.01	0.11	0.18	10240001	0.01	1.06	0.00	0.35	0.22
10150005	0.00	0.00	0.00	0.00	0.00	10240005	0.00	0.05	0.00	0.02	0.00
10150006	0.00	0.02	0.00	0.01	0.32	10240006	0.00	0.42	0.00	0.14	0.00
10150007	0.00	0.11	0.00	0.04	0.75	10240007	0.00	0.08	0.00	0.03	0.02
Subregion 1015	0.01	1.42	0.01	0.47	1.43	10240008	0.00	0.63	0.00	0.21	0.47
<b>Missouri Tributaries River Basin (upper part)</b>						Subregion 1024	0.01	2.24	0.00	0.75	0.71
10170101	0.00	0.61	0.22	0.20	6.50	<b>Republican River Basin</b>					
Subregion 1017	0.00	0.61	0.22	0.20	6.50	10250001	0.00	0.00	0.00	0.00	0.00
<b>North Platte River Basin</b>						10250002	0.00	0.06	0.00	0.02	0.08
10180009	0.01	2.44	4.52	0.81	2.28	10250003	0.00	0.00	0.00	0.00	0.03
10180012	0.00	0.03	0.00	0.01	0.00	10250004	0.01	1.07	0.44	0.36	6.79
10180013	0.00	0.00	0.00	0.00	1.41	10250005	0.00	0.33	0.00	0.11	1.23
10180014	0.00	0.93	0.01	0.31	0.97	10250006	0.00	0.18	0.00	0.06	0.97
Subregion 1018	0.02	3.39	4.52	1.13	4.66	10250007	0.00	0.06	0.00	0.02	0.00
<b>South Platte River Basin</b>						10250008	0.00	0.13	0.00	0.04	0.00
10190012	0.00	0.00	0.00	0.00	0.22	10250009	0.00	0.38	0.03	0.13	0.54
10190015	0.00	0.01	0.00	0.00	0.06	10250011	0.00	0.01	0.00	0.00	0.00
10190016	0.00	0.83	0.01	0.28	3.06	10250014	0.00	0.11	0.00	0.04	0.03
10190017	0.00	0.00	0.00	0.00	0.46	10250015	0.00	0.00	0.00	0.00	0.00
10190018	0.01	1.45	0.00	0.48	3.21	10250016	0.00	0.94	0.00	0.31	5.69
Subregion 1019	0.01	2.29	0.01	0.76	7.01	Subregion 1025	0.02	3.27	0.47	1.09	15.36
<b>Middle Platte River Basin</b>						<b>Big Blue River Basin</b>					
10200101	0.02	3.28	0.49	1.09	9.83	10270201	0.01	1.00	0.16	0.33	0.00
10200102	0.01	2.16	2.74	0.72	6.79	10270202	0.01	2.26	1.92	0.75	2.76
10200103	0.01	2.23	0.06	0.74	2.76	10270203	0.01	1.68	1.66	0.56	0.00
<b>Lower Platte River Basin</b>						10270204	0.00	0.36	0.00	0.12	0.00
10200201	0.00	0.86	6.21	0.29	5.12	10270205	0.00	0.01	0.00	0.00	0.00
10200202	0.00	0.51	2.54	0.17	27.40	<b>Little Blue River Basin</b>					
10200203	0.04	7.74	0.30	2.58	3.37	10270206	0.01	1.77	0.25	0.59	9.63
Subregion 1020	0.08	16.78	12.34	5.59	55.27	10270207	0.00	0.33	0.03	0.11	1.92
<b>Loup River Basin</b>						Subregion 1027	0.04	7.40	4.01	2.47	14.31
10210001	0.00	0.09	0.00	0.03	2.92	<b>Total</b>					
10210002	0.00	0.00	0.00	0.00	0.01	0.39	78.59	30.41	26.20	145.22	
10210003	0.00	0.43	0.00	0.14	1.11						
10210004	0.00	0.21	0.00	0.07	1.83						
10210005	0.00	0.41	0.07	0.14	0.00						
10210006	0.00	0.00	0.00	0.00	0.04						
10210007	0.00	0.27	0.00	0.09	2.66						
10210008	0.00	0.00	0.00	0.00	0.11						
10210009	0.00	0.89	0.02	0.30	4.42						
10210010	0.00	0.13	0.00	0.04	0.47						
Subregion 1021	0.01	2.43	0.08	0.81	13.57						

<sup>1</sup>Million gallons per day

**Table 11**  
**Estimated Total Irrigated Area and Irrigation Water Use in Nebraska, by County, 1995**

County Number	County Name	Irrigated Area <sup>1</sup> (1,000 ac)	Average Seasonal Application (inch/acre)	Water Use Rate (Mgal/d) <sup>4</sup>	Water Use <sup>2</sup> (1,000 ac-ft)	County Number	County Name	Irrigated Area <sup>1</sup> (1,000 ac)	Average Seasonal Application (inch/acre)	Water Use Rate (Mgal/d) <sup>4</sup>	Water Use <sup>2</sup> (1,000 ac-ft)
001	Adams	186.4	12.8	176.71	198.1	101	Keith	86.0	17.7	113.03	126.7
003	Antelope	195.9	8.6	124.65	139.7	103	Keya Paha	9.9	11.4	8.38	9.4
005	Arthur	10.9	21.8	17.65	19.8	105	Kimball	36.3	13.2	35.69	40.0
007	Banner	21.0	15.8	24.75	27.7	107	Knox	50.0	11.6	43.12	48.3
009	Blaine	6.4	18.2	8.60	9.6	109	Lancaster	15.0	12.4	13.85	15.5
011	Boone	142.3	8.0	85.02	95.3	111	Lincoln	198.0	16.9	249.50	279.7
013	Box Butte	166.5	13.5	166.91	187.1	113	Logan	15.2	17.1	19.37	21.7
015	Boyd	4.7	9.0	3.15	3.5	115	Loup	12.6	13.0	12.18	13.7
017	Brown	50.3	12.3	45.85	51.4	117	McPherson	5.4	19.0	7.66	8.6
019	Buffalo	212.3	11.0	173.23	194.2	119	Madison	87.7	7.9	51.61	57.9
021	Burt	55.3	10.7	44.01	49.3	121	Merrick	165.2	9.9	121.25	135.9
023	Butler	106.6	12.3	97.81	109.6	123	Morrill	139.4	17.4	180.04	201.8
025	Cass	2.3	10.9	1.83	2.1	125	Nance	59.6	9.5	41.97	47.0
027	Cedar	63.9	10.2	48.41	54.3	127	Nemaha	3.2	7.7	1.84	2.1
029	Chase	185.7	12.9	177.42	198.9	129	Nuckolls	54.9	14.1	57.37	64.3
031	Cherry	29.8	15.1	33.51	37.6	131	Otoe	1.6	11.2	1.33	1.5
033	Cheyenne	60.8	13.6	61.59	69.0	133	Pawnee	2.8	8.0	1.67	1.9
035	Clay	189.8	13.6	192.39	215.7	135	Perkins	150.4	12.5	139.52	156.4
037	Colfax	65.2	11.0	53.18	59.6	137	Phelps	233.5	16.6	288.69	323.6
039	Cuming	36.5	10.5	28.43	31.9	139	Pierce	110.0	9.2	75.41	84.5
041	Custer	194.9	14.4	208.35	233.6	141	Platte	169.1	7.7	96.64	108.3
043	Dakota	18.7	10.4	14.37	16.1	143	Polk	140.0	10.8	112.55	126.2
045	Dawes	10.5	26.0	20.36	22.8	145	Red Willow	54.4	15.4	62.50	70.1
047	Dawson	237.2	16.6	293.01	328.5	147	Richardson	1.3	8.3	0.80	0.9
049	Deuel	17.9	17.2	22.82	25.6	149	Rock	35.9	9.3	24.83	27.8
051	Dixon	16.6	10.1	12.42	13.9	151	Saline	84.3	9.9	61.79	69.3
053	Dodge	97.1	12.5	90.36	101.3	153	Sarpy	6.5	11.5	5.56	6.2
055	Douglas	13.0	11.6	11.19	12.5	155	Saunders	80.3	12.6	75.13	84.2
057	Dundy	97.2	14.3	103.27	115.8	157	Scotts Bluff	216.1	17.7	283.99	318.3
059	Fillmore	193.3	11.2	160.73	180.2	159	Seward	115.9	11.1	95.68	107.3
061	Franklin	83.1	16.6	102.29	114.7	161	Sheridan	75.6	15.3	85.92	96.3
063	Frontier	56.2	17.9	74.99	84.1	163	Sherman	66.3	9.6	47.46	53.2
065	Furnas	48.3	17.3	62.07	69.6	165	Sioux	37.3	22.0	61.09	68.5
067	Gage	54.7	8.0	32.34	36.3	167	Stanton	26.5	9.5	18.76	21.0
069	Garden	35.1	20.4	53.19	59.6	169	Thayer	124.4	11.2	103.58	116.1
071	Garfield	15.7	9.9	11.58	13.0	171	Thomas	2.6	21.4	4.16	4.7
073	Gosper	71.4	16.9	89.51	100.3	173	Thurston	6.4	11.8	5.64	6.3
075	Grant	1.8	23.3	3.18	3.6	175	Valley	83.4	10.2	63.33	71.0
077	Greeley	71.7	8.8	46.79	52.5	177	Washington	17.9	12.2	16.16	18.1
079	Hall	208.1	9.5	146.82	164.6	179	Wayne	26.5	9.4	18.53	20.8
081	Hamilton	247.6	12.1	222.51	249.4	181	Webster	44.6	14.5	48.13	54.0
083	Harlan	70.8	17.5	92.14	103.3	183	Wheeler	48.0	7.9	28.16	31.6
085	Hayes	35.6	15.6	41.41	46.4	185	York	236.7	13.0	227.88	255.5
087	Hitchcock	24.8	13.6	25.02	28.1						
089	Holt	230.7	9.2	157.02	176.0						
091	Hooker	3.3	23.2	5.64	6.3						
093	Howard	103.6	9.9	76.21	85.4						
095	Jefferson	58.8	8.5	37.11	41.6						
097	Johnson	10.1	8.4	6.32	7.1						
099	Kearney	191.9	13.8	196.49	220.3						
						<b>Total<sup>3</sup></b>		<b>7,448.7</b>	<b>12.6</b>	<b>6,996.38</b>	<b>7,842.9</b>

<sup>1</sup>Area in thousands of acres; rounded to the nearest 100.  
<sup>2</sup>Volume in thousands of acre-feet; rounded to the nearest 100.  
<sup>3</sup>Figures may not add to totals due to independent rounding.  
<sup>4</sup>Million gallons per day

**Table 12**  
**Estimated Total Irrigated Area and Irrigation Water Use in Nebraska,**  
**by Hydrologic Unit and Subregion, 1995**

Hydrologic Unit Number	Irrigated Area <sup>1</sup> (1,000 ac)	Average Seasonal Application (inch/acre)	Water Use Rate <sup>4</sup> (Mgal/d)	Water Use <sup>2</sup> (1,000 ac-ft)	Hydrologic Unit Number	Irrigated Area <sup>1</sup> (1,000 ac)	Average Seasonal Application (inch/acre)	Water Use Rate <sup>4</sup> (Mgal/d)	Water Use <sup>2</sup> (1,000 ac-ft)
<b>White River - Hat Creek Basin</b>					<b>Elkhorn River Basin</b>				
10120106	0.0	0.0	0.00	0.0	10220001	291.3	8.6	186.44	209.0
10120108	6.3	22.9	10.65	11.9	10220002	154.6	9.1	104.60	117.3
Subregion 1012 <sup>3</sup>	6.3		10.65	11.9	10220003	173.3	10.5	135.40	151.8
10140201	10.3	23.9	18.21	20.4	10220004	81.5	10.3	62.21	69.7
10140203	0.3	15.5	0.39	0.4	Subregion 1022	700.7		488.65	547.8
Subregion 1014	10.6		18.60	20.9	<b>Missouri Tributaries River Basin (lower part)</b>				
<b>Niobrara River Basin</b>					10230001	66.6	10.7	53.12	59.6
10150001	1.7	9.8	1.26	1.4	10230006	4.9	11.6	4.27	4.8
10150002	7.6	19.8	11.11	12.5	Subregion 1023	71.6		57.39	64.3
10150003	244.4	14.1	257.07	288.2	<b>Nemaha River Basin</b>				
10150004	87.3	12.1	78.63	88.1	10240001	1.5	10.9	1.23	1.4
10150005	1.6	15.1	1.82	2.0	10240005	0.8	8.2	0.51	0.6
10150006	10.4	11.2	8.63	9.7	10240006	6.0	8.7	3.89	4.4
10150007	178.9	9.4	125.33	140.5	10240007	0.9	8.1	0.52	0.6
Subregion 1015	531.8		483.85	542.4	10240008	15.4	8.6	9.87	11.1
<b>Missouri Tributaries River Basin (upper part)</b>					Subregion 1024	24.6		16.02	18.0
10170101	90.7	10.1	68.18	76.4	<b>Republican River Basin</b>				
Subregion 1017	90.7		68.18	76.4	10250001	1.5	16.4	1.77	2.0
<b>North Platte River Basin</b>					10250002	79.5	14.1	83.58	93.7
10180009	395.2	18.0	529.78	593.9	10250003	0.3	13.7	0.28	0.3
10180012	6.7	17.7	8.81	9.9	10250004	119.0	14.6	128.94	144.5
10180013	35.3	15.7	41.17	46.1	10250005	140.1	13.1	136.06	152.5
10180014	83.9	19.4	120.90	135.5	10250006	165.8	12.8	157.36	176.4
Subregion 1018	521.1		700.67	785.4	10250007	63.0	14.7	68.85	77.2
<b>South Platte River Basin</b>					10250008	47.3	16.7	58.82	65.9
10190012	2.0	13.1	1.92	2.2	10250009	148.4	17.1	188.41	211.2
10190015	3.3	13.0	3.17	3.6	10250011	14.2	18.2	19.17	21.5
10190016	74.1	13.6	75.15	84.2	10250014	14.5	16.7	17.99	20.2
10190017	13.6	14.1	14.34	16.1	10250015	2.8	17.1	3.56	4.0
10190018	133.5	16.9	167.85	188.2	10250016	224.3	15.7	261.04	292.6
Subregion 1019	226.5		262.43	294.2	Subregion 1025	1,020.7		1,125.83	1,262.1
<b>Middle Platte River Basin</b>					<b>Big Blue River Basin</b>				
10200101	681.7	15.6	788.31	883.7	10270201	372.6	12.0	332.39	372.6
10200102	199.3	11.2	165.39	185.4	10270202	139.6	9.2	95.81	107.4
10200103	404.8	9.9	298.65	334.8	10270203	527.3	12.3	483.66	542.2
<b>Lower Platte River Basin</b>					10270204	145.8	10.6	115.09	129.0
10200201	173.2	9.7	125.04	140.2	10270205	1.3	8.7	0.81	0.9
10200202	69.0	12.4	63.37	71.0	<b>Little Blue River Basin</b>				
10200203	84.2	12.5	78.41	87.9	10270206	527.7	12.7	499.12	559.5
Subregion 1020	1,612.2		1,519.17	1,703.0	10270207	29.9	9.6	21.48	24.1
<b>Loup River Basin</b>					Subregion 1027	1744.2		1,548.35	1,735.7
10210001	5.5	19.6	8.00	9.0	<b>Total<sup>3</sup></b>				
10210002	8.5	20.5	12.93	14.5		7,448.7	12.6	6,996.38	7,842.9
10210003	165.0	11.8	145.35	162.9					
10210004	107.7	12.6	101.27	113.5					
10210005	87.1	12.8	82.61	92.6					
10210006	19.2	15.3	21.76	24.4					
10210007	137.7	10.0	102.63	115.0					
10210008	11.7	10.5	9.14	10.2					
10210009	244.9	8.4	152.12	170.5					
10210010	100.6	8.4	63.06	70.7					
Subregion 1021	887.9		698.87	783.4					

<sup>1</sup>Area in thousands of acres; rounded to the nearest 100.  
<sup>2</sup>Volume in thousands of acre-feet; rounded to the nearest 100.  
<sup>3</sup>Figures may not add to totals due to independent rounding.  
<sup>4</sup>Million gallons per day

**Table 13**  
**Estimated Surface-Water Irrigated Area and Water Use in Nebraska, by County, 1995**

County Name	Land with Water Rights <sup>1</sup> (1,000 ac)	Irrigated Area <sup>1</sup> (1,000 ac)	Average Seasonal Application (inch/acre)	Water Use Rate (Mgal/d) <sup>4</sup>	Water Use <sup>2</sup> (1,000 ac-ft)	County Name	Land with Water Rights <sup>1</sup> (1,000 ac)	Irrigated Area <sup>1</sup> (1,000 ac)	Average Seasonal Application (inch/acre)	Water Use Rate (Mgal/d) <sup>4</sup>	Water Use <sup>2</sup> (1,000 ac-ft)
Adams	8.2	5.1	14.2	5.38	6.0	Keith	15.9	12.3	20.8	19.06	21.4
Antelope	3.8	2.8	10.0	2.11	2.4	Keya Paha	7.4	1.6	11.4	1.37	1.5
Arthur	0.0	0.0	0.0	0.00	0.0	Kimball	1.8	1.7	17.2	2.23	2.5
Banner	3.0	2.2	17.9	2.91	3.3	Knox	9.7	9.1	12.8	8.68	9.7
Blaine	0.7	0.5	19.8	0.68	0.8	Lancaster	7.9	1.5	13.8	1.55	1.7
Boone	6.5	3.7	9.8	2.70	3.0	Lincoln	43.9	37.7	20.8	58.34	65.4
Box Butte	5.9	3.1	17.3	4.05	4.5	Logan	0.4	0.1	17.9	0.13	0.1
Boyd	7.8	2.0	9.0	1.31	1.5	Loup	4.8	4.3	14.8	4.70	5.3
Brown	37.1	31.5	13.3	31.08	34.8	McPherson	0.0	0.0	0.0	0.00	0.0
Buffalo	10.5	5.7	12.2	5.16	5.8	Madison	4.6	2.9	9.4	2.04	2.3
Burt	5.2	3.9	11.9	3.43	3.8	Merrick	0.8	0.4	11.2	0.35	0.4
Butler	4.6	2.5	11.7	2.21	2.5	Morrill	142.1	99.5	18.6	137.44	154.1
Cass	10.0	0.6	9.4	0.42	0.5	Nance	29.0	17.1	10.6	13.47	15.1
Cedar	4.5	2.2	10.2	1.70	1.9	Nemaha	6.8	1.6	7.9	0.92	1.0
Chase	1.7	0.9	17.1	1.09	1.2	Nuckolls	15.9	11.5	14.5	12.33	13.8
Cherry	14.1	1.6	15.0	1.73	1.9	Otoe	8.2	0.4	9.8	0.30	0.3
Cheyenne	2.5	1.3	17.8	1.66	1.9	Pawnee	3.4	2.6	8.2	1.56	1.7
Clay	15.3	7.6	11.8	6.68	7.5	Perkins	0.0	0.0	0.0	0.00	0.0
Colfax	2.8	1.7	12.3	1.53	1.7	Phelps	79.6	68.5	17.6	89.67	100.5
Cuming	4.4	1.8	12.6	1.71	1.9	Pierce	4.1	3.3	11.7	2.85	3.2
Custer	28.0	23.6	16.6	29.16	32.7	Platte	2.1	1.1	9.3	0.74	0.8
Dakota	0.3	0.3	11.8	0.28	0.3	Polk	0.3	0.2	12.6	0.18	0.2
Dawes	24.9	7.0	27.9	14.50	16.3	Red Willow	29.9	26.8	13.6	27.16	30.4
Dawson	83.8	56.1	17.0	70.88	79.5	Richardson	10.8	0.5	9.9	0.40	0.4
Deuel	3.0	2.1	18.2	2.91	3.3	Rock	2.9	2.4	11.0	1.93	2.2
Dixon	3.0	2.7	10.4	2.05	2.3	Saline	12.3	7.1	11.3	6.00	6.7
Dodge	7.9	4.4	13.4	4.35	4.9	Sarpy	0.2	0.1	13.5	0.05	0.1
Douglas	1.0	0.3	13.3	0.31	0.4	Saunders	10.3	4.3	13.4	4.31	4.8
Dundy	5.5	5.0	19.0	7.02	7.9	Scotts Bluff	246.8	182.9	17.9	244.07	273.6
Fillmore	11.0	5.7	12.9	5.48	6.1	Seward	18.2	12.4	12.8	11.76	13.2
Franklin	15.8	13.3	18.1	17.90	20.1	Sheridan	15.4	13.6	13.0	13.15	14.7
Frontier	3.2	1.9	19.1	2.70	3.0	Sherman	16.6	15.3	11.2	12.71	14.3
Furnas	14.7	18.3	18.5	25.21	28.3	Sioux	48.7	29.1	22.9	49.62	55.6
Gage	21.1	10.5	8.7	6.82	7.6	Stanton	2.1	1.7	10.1	1.31	1.5
Garden	11.9	10.1	24.6	18.52	20.8	Thayer	6.2	3.5	13.0	3.36	3.8
Garfield	6.0	4.5	10.7	3.62	4.1	Thomas	0.4	0.2	21.4	0.24	0.3
Gosper	15.5	13.4	17.9	17.78	19.9	Thurston	1.1	1.0	11.1	0.85	1.0
Grant	0.0	0.0	0.0	0.00	0.0	Valley	46.9	42.5	11.3	35.83	40.2
Greeley	7.9	6.3	10.3	4.79	5.4	Washington	6.7	5.1	11.0	4.17	4.7
Hall	3.0	1.4	10.4	1.05	1.2	Wayne	1.6	1.5	8.9	0.98	1.1
Hamilton	3.7	2.0	13.3	1.98	2.2	Webster	10.7	9.4	16.6	11.58	13.0
Harlan	7.8	9.9	18.9	13.93	15.6	Wheeler	0.4	0.1	8.8	0.06	0.1
Hayes	2.2	0.6	19.3	0.90	1.0	York	4.9	2.6	14.4	2.82	3.2
Hitchcock	16.4	14.9	10.7	11.80	13.2	<b>Total<sup>3</sup></b>	<b>1,456.6</b>	<b>1,035.3</b>	<b>15.8</b>	<b>1,219.78</b>	<b>1,367.4</b>
Holt	14.5	6.1	12.3	5.55	6.2						
Hooker	0.3	0.2	31.6	0.36	0.4						
Howard	63.5	54.6	10.6	42.80	48.0						
Jefferson	11.6	6.7	9.4	4.71	5.3						
Johnson	4.8	1.4	9.8	1.04	1.2						
Kearney	34.1	30.7	14.7	33.53	37.6						

<sup>1</sup>Area in thousands of acres; rounded to the nearest 100.  
<sup>2</sup>Volume in thousands of acre-feet; rounded to the nearest 100.  
<sup>3</sup>Figures may not add to totals due to independent rounding.  
<sup>4</sup>Million gallons per day

**Table 14**  
**Estimated Surface-Water Irrigated Area and Water Use in Nebraska,**  
**by Hydrologic Unit and Subregion, 1995**

Hydrologic Unit Number	Land with Water Rights <sup>1</sup> (1,000 ac)	Irrigated Area <sup>1</sup> (1,000 ac)	Average Seasonal Application (inch/acre)	Water Use Rate <sup>4</sup> (Mgal/d)	Water Use <sup>2</sup> (1,000 ac-ft)	Hydrologic Unit Number	Land with Water Rights <sup>1</sup> (1,000 ac)	Irrigated Area <sup>1</sup> (1,000 ac)	Average Seasonal Application (inch/acre)	Water Use Rate <sup>4</sup> (Mgal/d)	Water Use <sup>2</sup> (1,000 ac-ft)
<b>White River - Hat Creek Basin</b>						<b>Elkhorn River Basin</b>					
10120106	0.0	0.0	0.0	0.00	0.0	10220001	7.0	4.3	6.4	3.30	3.7
10120108	10.3	6.2	13.7	10.56	11.8	10220002	4.4	3.5	9.1	3.01	3.4
Subregion 1012	10.3	6.2		10.56	11.8	10220003	22.4	13.9	7.2	11.99	13.4
						10220004	7.5	5.2	7.7	4.30	4.8
10140201	23.8	7.8	8.6	15.00	16.8	Subregion 1022	41.3	26.8		22.60	25.3
10140203	0.1	0.0	1.6	0.01	0.0	<b>Missouri Tributaries River Basin (lower part)</b>					
Subregion 1014	23.9	7.8		15.01	16.8	10230001	3.6	2.8	8.8	2.36	2.6
<b>Niobrara River Basin</b>						10230006	1.3	0.8	7.2	0.69	0.8
10150001	3.2	0.9	2.9	0.68	0.8	Subregion 1023	4.9	3.6		3.05	3.4
10150002	7.0	3.9	12.1	6.30	7.1	<b>Nemaha River Basin</b>					
10150003	23.1	15.6	9.4	15.65	17.5	10240001	9.0	0.5	0.5	0.36	0.4
10150004	52.7	36.1	9.0	33.55	37.6	10240005	0.6	0.1	1.2	0.05	0.1
10150005	3.5	0.4	1.6	0.43	0.5	10240006	11.2	1.5	1.1	0.94	1.1
10150006	5.6	1.2	2.5	1.02	1.1	10240007	4.2	0.6	1.2	0.37	0.4
10150007	19.9	12.1	7.6	11.22	12.6	10240008	16.4	4.2	2.3	2.83	3.2
Subregion 1015	115.0	70.3		68.85	77.2	Subregion 1024	41.3	6.9		4.55	5.1
<b>Missouri Tributaries River Basin (upper part)</b>						<b>Republican River Basin</b>					
10170101	9.6	6.9	7.9	5.65	6.3	10250001	0.8	0.7	17.2	0.96	1.1
Subregion 1017	9.6	6.9		5.65	6.3	10250002	3.7	3.4	17.2	4.71	5.3
<b>North Platte River Basin</b>						10250003	0.0	0.0	0.0	0.00	0.0
10180009	413.2	298.8	13.5	388.73	435.8	10250004	40.4	36.7	11.7	33.02	37.0
10180012	10.1	6.1	11.0	7.66	8.6	10250005	7.1	5.4	9.2	4.66	5.2
10180013	9.6	6.5	12.5	8.78	9.8	10250006	0.6	0.3	7.8	0.33	0.4
10180014	41.3	35.1	17.9	51.74	58.0	10250007	1.3	1.6	18.8	1.80	2.0
Subregion 1018	474.2	346.6		456.92	512.2	10250008	3.6	2.3	12.0	3.25	3.6
<b>South Platte River Basin</b>						10250009	14.7	22.7	28.8	29.86	33.5
10190012	0.0	0.0	0.0	0.00	0.0	10250011	4.6	3.1	12.7	4.37	4.9
10190015	0.2	0.2	16.7	0.30	0.3	10250014	2.5	1.7	12.9	2.42	2.7
10190016	4.8	3.4	12.2	4.38	4.9	10250015	0.3	0.2	14.7	0.34	0.4
10190017	0.0	0.0	0.0	0.00	0.0	10250016	38.8	31.9	13.9	38.56	43.2
10190018	17.5	14.2	16.7	20.35	22.8	Subregion 1025	118.6	110.2		124.28	139.3
Subregion 1019	22.5	17.8		25.03	28.1	<b>Big Blue River Basin</b>					
<b>Middle Platte River Basin</b>						10270201	10.4	6.5	8.2	6.32	7.1
10200101	222.5	174.0	13.2	205.40	230.3	10270202	36.6	20.5	5.7	15.47	17.3
10200102	1.7	0.9	6.1	0.78	0.9	10270203	25.5	13.9	6.9	13.01	14.6
10200103	2.1	1.1	5.8	0.90	1.0	10270204	12.7	7.0	6.5	6.15	6.9
<b>Lower Platte River Basin</b>						10270205	2.4	1.3	4.5	0.81	0.9
10200201	4.6	2.6	6.5	2.23	2.5	<b>Little Blue River Basin</b>					
10200202	3.4	0.5	1.7	0.42	0.5	10270206	28.9	17.4	8.1	17.42	19.5
10200203	20.0	7.0	4.6	6.88	7.7	10270207	4.7	2.7	5.8	2.02	2.3
Subregion 1020	254.3	186.1		216.61	242.8	Subregion 1027	121.2	69.4		61.21	68.6
<b>Loup River Basin</b>						<b>Total<sup>3</sup></b>					
10210001	0.7	0.3	12.2	0.61	0.7		1,456.6	1,035.3	15.8	1,219.78	1,367.4
10210002	0.0	0.0	0.0	0.00	0.0						
10210003	86.4	74.0	10.6	64.23	72.0						
10210004	6.1	3.6	8.5	3.88	4.4						
10210005	5.4	4.1	10.1	4.07	4.6						
10210006	4.4	4.3	15.1	4.81	5.4						
10210007	75.4	66.0	9.7	51.04	57.2						
10210008	0.6	0.5	10.5	0.46	0.5						
10210009	30.8	18.6	6.3	14.11	15.8						
10210010	7.7	4.3	5.7	3.27	3.7						
Subregion 1021	217.6	175.6		146.47	164.2						

<sup>1</sup>Area in thousands of acres; rounded to the nearest 100.  
<sup>2</sup>Volume in thousands of acre-feet; rounded to the nearest 100.  
<sup>3</sup>Figures may not add to totals due to independent rounding.  
<sup>4</sup>Million gallons per day

**Table 15**  
**Estimated Ground-Water Irrigated Area and Water Use in Nebraska, by County, 1995**

County Name	No. of Registered Wells	Irrigated Area <sup>1</sup>		Average Seasonal Application (inch/acre)	Water Use Rate (Mgal/d) <sup>4</sup>	Water Use <sup>2</sup> (1,000 ac-ft)	County Name	No. of Registered Wells	Irrigated Area <sup>1</sup>		Average Seasonal Application (inch/acre)	Water Use Rate (Mgal/d) <sup>4</sup>	Water Use <sup>2</sup> (1,000 ac-ft)
		Spray	Flood						Spray	Flood			
Adams	1943	67.5	113.8	12.7	171.33	192.1	Keith	961	46.2	27.5	17.2	93.97	105.3
Antelope	1602	185.7	7.4	8.5	122.54	137.4	Keya Paha	168	8.3	0.0	11.4	7.01	7.9
Arthur	88	10.9	0.0	21.8	17.65	19.8	Kimball	308	30.2	4.4	13.0	33.46	37.5
Banner	288	16.8	2.0	15.6	21.85	24.5	Lincoln	368	39.0	1.9	11.3	34.44	38.6
Blaine	106	5.6	0.3	18.1	7.92	8.9	Lancaster	269	5.5	8.0	12.3	12.31	13.8
Boone	1219	102.1	36.5	8.0	82.33	92.3	Logan	1790	132.0	28.3	16.0	191.16	214.3
Box Butte	1047	132.7	30.7	13.4	162.86	182.6	Loup	166	13.9	1.2	17.1	19.23	21.6
Boyd	53	2.7	0.1	9.1	1.84	2.1	McPherson	110	7.1	1.2	12.1	7.48	8.4
Brown	449	18.1	0.7	10.5	14.77	16.6	Madison	102	5.4	0.0	19.0	7.66	8.6
Buffalo	3215	84.1	122.6	10.9	168.08	188.4	Merrick	724	70.8	14.0	7.9	49.57	55.6
Burt	432	29.6	21.8	10.6	40.58	45.5	Morrill	4240	74.4	90.4	9.9	120.90	135.5
Butler	1095	45.6	58.5	12.4	95.59	107.2	Nance	714	35.6	4.3	14.4	42.60	47.8
Cass	38	0.7	1.0	11.5	1.41	1.6	Nemaha	817	24.4	18.0	9.0	28.50	31.9
Cedar	540	53.1	8.6	10.2	46.70	52.4	Nuckolls	40	0.9	0.7	7.5	0.91	1.0
Chase	1424	165.7	19.1	12.8	176.33	197.7	Otoe	619	11.5	31.9	14.0	45.04	50.5
Cherry	401	27.6	0.7	15.1	31.78	35.6	Pawnee	40	0.5	0.7	11.7	1.04	1.2
Cheyenne	495	51.7	7.9	13.5	59.93	67.2	Perkins	2	0.2	0.0	6.4	0.11	0.1
Clay	2006	71.5	110.6	13.7	185.71	208.2	Pierce	923	139.0	11.4	12.5	139.52	156.4
Colfax	832	24.7	38.9	10.9	51.65	57.9	Platte	1841	48.2	116.8	16.2	199.02	223.1
Cuming	351	30.3	4.3	10.4	26.72	30.0	Polk	945	100.6	6.1	9.1	72.56	81.3
Custer	1769	108.0	63.3	14.1	179.20	200.9	Red Willow	1531	107.8	60.2	7.7	95.90	107.5
Dakota	104	12.9	5.4	10.3	14.09	15.8	Richardson	1587	70.9	69.0	10.8	112.36	126.0
Dawes	75	3.2	0.3	22.1	5.86	6.6	Rock	878	8.3	19.3	17.2	35.34	39.6
Dawson	3271	22.1	158.9	16.5	222.13	249.0	Sarpy	16	0.8	0.0	7.2	0.41	0.5
Deuel	290	3.8	11.9	17.0	19.91	22.3	Seward	635	33.5	0.0	9.2	22.90	25.7
Dixon	137	11.3	2.7	10.0	10.37	11.6	Sheridan	971	38.8	38.4	9.7	55.78	62.5
Dodge	1376	40.5	52.3	12.5	86.00	96.4	Sherman	106	3.4	3.0	11.5	5.51	6.2
Douglas	267	11.4	1.3	11.5	10.88	12.2	Sioux	725	46.1	29.9	12.5	70.82	79.4
Dundy	1013	87.3	4.9	14.0	96.26	107.9	Stanton	603	11.8	21.4	16.2	39.92	44.7
Fillmore	1823	123.5	64.1	11.1	155.25	174.0	Thayer	1184	54.7	48.8	10.9	83.92	94.1
Franklin	945	25.9	43.9	16.3	84.39	94.6	Thomas	562	47.7	14.3	15.8	72.76	81.6
Frontier	658	12.6	41.7	17.9	72.28	81.0	Thurston	533	37.0	14.0	9.2	34.75	39.0
Furnas	680	12.5	17.4	16.6	36.86	41.3	Valley	257	6.5	1.6	18.9	11.47	12.9
Gage	503	29.1	15.0	7.8	25.51	28.6	Washington	306	12.7	12.0	9.5	17.45	19.6
Garden	326	21.8	3.2	18.7	34.67	38.9	Wayne	1255	72.0	48.9	11.2	100.21	112.3
Garfield	200	8.0	3.1	9.6	7.96	8.9	Webster	35	2.5	0.0	21.4	3.92	4.4
Gosper	612	15.0	43.0	16.6	71.73	80.4	Wheeler	89	2.9	2.5	12.0	4.79	5.4
Grant	23	1.8	0.0	23.3	3.18	3.6	York	508	30.2	10.7	9.1	27.51	30.8
Greeley	633	48.4	17.0	8.6	42.00	47.1	York	105	4.7	8.1	12.7	11.99	13.4
Hall	3546	67.5	139.2	9.5	145.77	163.4	York	192	21.5	3.6	9.4	17.55	19.7
Hamilton	2806	106.1	139.5	12.1	220.52	247.2	Webster	512	23.4	11.8	13.9	36.55	41.0
Harlan	926	20.6	40.3	17.3	78.20	87.7	Wheeler	528	47.9	0.0	7.9	28.10	31.5
Hayes	359	24.6	10.4	15.6	40.52	45.4	York	2738	88.2	145.9	12.9	225.06	252.3
Hitchcock	499	3.2	6.7	17.9	13.23	14.8	<b>Total<sup>3</sup></b>	<b>77,268</b>	<b>3,844.2</b>	<b>2,570.3</b>	<b>12.1</b>	<b>5,776.60</b>	<b>6,475.6</b>
Holt	2442	211.2	13.4	9.1	151.48	169.8							
Hooker	33	3.1	0.0	22.8	5.28	5.9							
Howard	847	25.4	23.7	9.2	33.41	37.5							
Jefferson	559	39.6	12.4	8.4	32.41	36.3							
Johnson	130	5.0	3.6	8.2	5.27	5.9							
Kearney	1789	45.2	116.0	13.6	162.96	182.7							

<sup>1</sup>Area in thousands of acres; rounded to the nearest 100.  
<sup>2</sup>Volume in thousands of acre-feet; rounded to the nearest 100.  
<sup>3</sup>Figures may not add to totals due to independent rounding.  
<sup>4</sup>Million gallons per day

**Table 16**  
**Estimated Ground-Water Irrigated Area and Water Use in Nebraska,**  
**by Hydrologic Unit and Subregion, 1995**

Hydrologic Unit Number	No. of Registered Wells	Irrigated Area <sup>1</sup>		Average Seasonal Application (inch/acre)	Water Use Rate (Mgal/d) <sup>4</sup>	Water Use <sup>2</sup> (1,000 ac-ft)
		Spray (1,000 ac)	Flood			
<b>White River - Hat Creek Basin</b>						
10120106	0	0.0	0.0	0.0	0.00	0.0
10120108	2	0.1	0.0	18.8	0.09	0.1
Subregion 1012 <sup>3</sup>	2	0.1	0.0		0.09	0.1
10140201	29	1.9	0.5	16.1	2.93	3.3
10140203	3	0.3	0.1	15.5	0.38	0.4
Subregion 1014	32	2.2	0.6		3.31	3.7
<b>Niobrara River Basin</b>						
10150001	13	0.8	0.0	9.9	0.58	0.6
10150002	75	3.1	0.6	17.5	4.80	5.4
10150003	1,711	184.4	44.4	14.2	240.97	270.1
10150004	910	49.6	1.6	11.4	43.19	48.4
10150005	17	1.2	0.1	15.1	1.39	1.6
10150006	176	9.0	0.1	11.2	7.61	8.5
10150007	1,721	157.5	9.2	9.2	114.11	127.9
Subregion 1015	4,623	405.6	55.9		412.64	462.6
<b>Missouri Tributaries River Basin (upper part)</b>						
10170101	729	75.5	8.3	10.0	62.52	70.1
Subregion 1017	729	75.5	8.3		62.52	70.1
<b>North Platte River Basin</b>						
10180009	1,640	67.8	28.6	16.0	114.74	128.6
10180012	10	0.2	0.4	15.2	0.62	0.7
10180013	459	25.2	3.6	15.1	32.24	36.1
10180014	572	40.3	8.5	18.1	65.85	73.8
Subregion 1018	2,681	133.5	41.0		213.46	239.3
<b>South Platte River Basin</b>						
10190012	18	1.6	0.4	13.1	1.92	2.2
10190015	27	2.6	0.4	12.7	2.87	3.2
10190016	655	58.4	12.3	13.5	70.76	79.3
10190017	116	11.9	1.8	14.1	14.34	16.1
10190018	1,469	82.0	37.3	16.5	146.12	163.8
Subregion 1019	2,285	156.5	52.1		236.02	264.6
<b>Middle Platte River Basin</b>						
10200101	7,133	159.0	348.6	15.1	569.22	638.1
10200102	3,194	75.1	123.4	11.2	164.61	184.5
10200103	7,527	178.8	224.9	9.9	297.75	333.8
<b>Lower Platte River Basin</b>						
10200201	1,793	92.6	78.0	9.7	122.81	137.7
10200202	992	32.4	36.1	12.4	62.95	70.6
10200203	867	44.2	33.0	12.5	71.53	80.2
Subregion 1020	21,506	582.2	843.9		1,288.87	1,444.8
<b>Loup River Basin</b>						
10210001	64	4.9	0.3	19.2	7.39	8.3
10210002	103	8.2	0.3	20.5	12.93	14.5
10210003	1,076	58.5	32.4	11.4	77.09	86.4
10210004	1,313	60.3	43.9	12.6	97.38	109.2
10210005	879	53.4	29.5	12.7	78.54	88.0
10210006	228	13.8	1.1	15.2	16.78	18.8
10210007	903	50.9	20.8	9.1	48.49	54.4
10210008	208	10.8	0.4	10.4	8.68	9.7
10210009	2,532	158.7	67.6	8.2	137.71	154.4
10210010	1,041	75.6	20.8	8.3	59.79	67.0
Subregion 1021	8,347	495.3	216.9		544.78	610.7

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**Table 16 (continued)**  
**Estimated Ground-Water Irrigated Area and Water Use in Nebraska,**  
**by Hydrologic Unit and Subregion, 1995**

Hydrologic Unit Number	No. of Registered Wells	Irrigated Area <sup>1</sup>		Average Seasonal Application (inch/acre)	Water Use Rate <sup>4</sup> (Mgal/d)	Annual Volume <sup>2</sup> (1,000 ac-ft)
		Spray (1,000 ac)	Flood			
<b>Elkhorn River Basin</b>						
10220001	2,853	267.0	20.0	8.6	183.14	205.3
10220002	1,314	142.4	8.7	9.0	101.60	113.9
10220003	1,941	99.9	59.6	10.4	123.41	138.3
10220004	699	61.1	15.2	10.2	57.91	64.9
Subregion 1022	6,807	570.4	103.5		466.05	522.4
<b>Missouri Tributaries River Basin (lower part)</b>						
10230001	497	37.3	26.6	10.7	50.76	56.9
10230006	59	2.3	1.8	11.7	3.58	4.0
Subregion 1023	556	39.6	28.3		54.34	60.9
<b>Nemaha River Basin</b>						
10240001	26	0.4	0.6	11.6	0.87	1.0
10240005	18	0.5	0.3	8.2	0.46	0.5
10240006	93	2.5	2.0	8.9	2.95	3.3
10240007	3	0.3	0.0	6.8	0.15	0.2
10240008	171	6.7	4.5	8.5	7.04	7.9
Subregion 1024	311	10.3	7.4		11.47	12.9
<b>Republican River Basin</b>						
10250001	8	0.7	0.0	13.7	0.74	0.8
10250002	797	71.5	4.7	13.9	78.80	88.3
10250003	3	0.3	0.0	13.7	0.28	0.3
10250004	1,560	54.3	28.0	15.3	93.85	105.2
10250005	1,203	117.6	17.2	13.1	131.21	147.1
10250006	1,124	149.3	16.2	12.8	157.03	176.0
10250007	625	47.1	14.2	14.7	66.98	75.1
10250008	531	25.3	19.8	16.6	55.57	62.3
10250009	1,725	37.8	87.9	16.8	156.90	175.9
10250011	196	4.0	7.0	18.1	14.80	16.6
10250014	323	4.9	7.8	16.4	15.58	17.5
10250015	39	0.9	1.7	16.9	3.22	3.6
10250016	2,478	71.5	120.9	15.4	220.96	247.7
Subregion 1025	10,612	585.0	325.5		995.90	1,116.4
<b>Big Blue River Basin</b>						
10270201	4,156	163.4	202.7	12.0	326.07	365.5
10270202	1,363	73.8	45.3	9.1	80.34	90.1
10270203	5,873	222.9	290.5	12.3	470.64	527.6
10270204	1,491	84.6	54.1	10.6	108.93	122.1
10270205	0	0.0	0.0	0.0	0.00	0.0
<b>Little Blue River Basin</b>						
10270206	5,606	224.8	285.4	12.7	481.70	540.0
10270207	288	18.6	8.6	9.6	19.46	21.8
Subregion 1027	18,777	788.1	886.8		1,487.15	1,667.1
<b>Total<sup>3</sup></b>	<b>77,268</b>	<b>3,844.2</b>	<b>2,570.3</b>	<b>12.1</b>	<b>5,776.60</b>	<b>6,475.6</b>

<sup>1</sup>Area in thousands of acres; rounded to the nearest 100.  
<sup>2</sup>Volume in thousands of acre-feet; rounded to the nearest 100.  
<sup>3</sup>Figures may not add to totals due to independent rounding.  
<sup>4</sup>Million gallons per day

**Table 17**  
**Estimated Livestock and Animal Specialties Water Use in Nebraska, by County, 1995**

County Number and Name	Water Use in Mgal/d			Water Use in ac-ft			County Number and Name	Water Use in Mgal/d			Water Use in ac-ft		
	Ground-Water	Surface-Water	Total	Ground-Water	Surface-Water	Total		Ground-Water	Surface-Water	Total	Ground-Water	Surface-Water	Total
001 Adams	1.95	0.22	2.17	2,190	250	2,430	101 Keith	0.66	9.07	9.73	740	10,170	10,910
003 Antelope	1.22	0.25	1.47	1,370	280	1,650	103 Keya Paha	0.43	0.09	0.52	480	100	580
005 Arthur	0.26	0.06	0.32	290	70	360	105 Kimball	0.20	0.05	0.25	220	60	280
007 Banner	0.31	0.07	0.38	350	80	430	107 Knox	1.68	0.36	2.04	1,880	400	2,290
009 Blaine	0.33	0.08	0.41	370	90	460	109 Lancaster	0.42	0.09	0.51	470	100	570
011 Boone	1.11	0.25	1.36	1,240	280	1,520	111 Lincoln	1.53	0.37	1.90	1,720	410	2,130
013 Box Butte	0.67	0.16	0.83	750	180	930	113 Logan	0.29	0.07	0.36	330	80	400
015 Boyd	0.51	0.11	0.62	570	120	700	115 Loup	0.23	0.05	0.28	260	60	310
017 Brown	0.85	0.19	1.04	950	210	1,170	119 Madison	0.27	0.06	0.33	300	70	370
019 Buffalo	1.15	0.29	1.44	1,290	330	1,610	117 McPherson	0.91	0.20	1.11	1,020	220	1,240
021 Burt	0.60	0.14	0.74	670	160	830	121 Merrick	0.89	0.21	1.10	1,000	240	1,230
023 Butler	0.47	0.11	0.58	530	120	650	123 Morrill	1.21	0.28	1.49	1,360	310	1,670
025 Cass	0.32	0.07	0.39	360	80	440	125 Nance	0.55	0.12	0.67	620	130	750
027 Cedar	1.60	0.34	1.94	1,790	380	2,170	127 Nemaha	0.38	0.09	0.47	430	100	530
029 Chase	0.58	0.14	0.72	650	160	810	129 Nuckolls	0.49	0.11	0.60	550	120	670
031 Cherry	2.35	0.55	2.90	2,630	620	3,250	131 Otoe	0.48	0.10	0.58	540	110	650
033 Cheyenne	0.60	0.14	0.74	670	160	830	133 Pawnee	0.34	0.10	0.44	380	110	490
035 Clay	1.23	0.29	1.52	1,380	330	1,700	135 Perkins	0.22	0.05	0.27	250	60	300
037 Colfax	1.28	0.30	1.58	1,430	340	1,770	137 Phelps	1.40	0.33	1.73	1,570	370	1,940
039 Cuming	2.98	0.68	3.66	3,340	760	4,100	139 Pierce	1.09	0.24	1.33	1,220	270	1,490
041 Custer	2.34	0.53	2.87	2,620	590	3,220	141 Platte	2.33	0.32	2.65	2,610	360	2,970
043 Dakota	0.18	0.04	0.22	200	40	250	143 Polk	0.83	0.19	1.02	930	210	1,140
045 Dawes	0.47	0.11	0.58	530	120	650	145 Red Willow	1.22	0.24	1.46	1,370	270	1,640
047 Dawson	2.83	0.59	3.42	3,170	660	3,830	147 Richardson	0.37	0.07	0.44	410	80	490
049 Deuel	0.10	0.02	0.12	110	20	130	149 Rock	0.73	0.17	0.90	820	190	1,010
051 Dixon	23.06	5.41	28.47	25,850	6,060	31,910	151 Saline	0.40	0.09	0.49	450	100	550
053 Dodge	1.27	0.18	1.45	1,420	200	1,630	153 Sarpy	3.57	0.08	3.65	4,000	90	4,090
055 Douglas	0.71	0.05	0.76	800	60	850	155 Saunders	0.87	0.19	1.06	980	210	1,190
057 Dundy	0.67	0.16	0.83	750	180	930	157 Scotts Bluff	3.83	0.35	4.18	4,290	390	4,690
059 Fillmore	0.65	0.15	0.80	730	170	900	159 Seward	0.57	0.12	0.69	640	130	770
061 Franklin	0.40	0.09	0.49	450	100	550	161 Sheridan	1.03	0.24	1.27	1,150	270	1,420
063 Frontier	0.46	0.11	0.57	520	120	640	163 Sherman	0.49	0.11	0.60	550	120	670
065 Furnas	0.79	0.15	0.94	890	170	1,050	165 Sioux	0.70	0.16	0.86	780	180	960
067 Gage	1.34	0.16	1.50	1,500	180	1,680	167 Stanton	0.91	0.21	1.12	1,020	240	1,260
069 Garden	3.20	0.17	3.37	3,590	190	3,780	169 Thayer	0.49	0.11	0.60	550	120	670
071 Garfield	0.45	0.10	0.55	500	110	620	171 Thomas	0.25	0.06	0.31	280	70	350
073 Gosper	0.45	0.11	0.56	500	120	630	173 Thurston	0.50	0.11	0.61	560	120	680
075 Grant	0.32	0.08	0.40	360	90	450	175 Valley	0.78	0.18	0.96	870	200	1,080
077 Greeley	0.55	0.12	0.67	620	130	750	177 Washington	0.60	0.12	0.72	670	130	810
079 Hall	1.83	0.22	2.05	2,050	250	2,300	179 Wayne	0.89	0.19	1.08	1,000	210	1,210
081 Hamilton	0.57	0.13	0.70	640	150	780	181 Webster	0.83	0.19	1.02	930	210	1,140
083 Harlan	1.08	0.11	1.19	1,210	120	1,330	183 Wheeler	1.67	0.38	2.05	1,870	430	2,300
085 Hayes	0.51	0.12	0.63	570	130	710	185 York	0.80	0.18	0.98	900	200	1,100
087 Hitchcock	0.33	0.08	0.41	370	90	460							
089 Holt	2.90	3.17	6.07	3,250	3,550	6,800	<b>Total<sup>2</sup></b>	<b>108.64</b>	<b>33.26</b>	<b>141.90</b>	<b>121,790</b>	<b>37,280</b>	<b>159,070</b>
091 Hooker	0.18	0.04	0.22	200	40	250							
093 Howard	0.76	0.17	0.93	850	190	1,040							
095 Jefferson	0.49	0.10	0.59	550	110	660							
097 Johnson	0.25	0.06	0.31	280	70	350							
099 Kearney	0.80	0.19	0.99	900	210	1,110							

<sup>1</sup>Rounded to the nearest 10 acre-feet.

<sup>2</sup>Figures may not add to totals due to independent rounding.

<sup>3</sup>Million gallons per day

**Table 18**  
**Estimated Livestock and Animal Specialties Water Use in Nebraska,**  
**by Hydrologic Unit and Subregion, 1995**

Hydrologic Unit Number	Water Use in Mgal/d			Water Use in ac-ft			Hydrologic Unit Number	Water Use in Mgal/d			Water Use in ac-ft		
	Ground-Water	Surface-Water	Total	Ground-Water	Surface-Water	Total		Ground-Water	Surface-Water	Total	Ground-Water	Surface-Water	Total
<b>White River - Hat Creek Basin</b>							<b>Elkhorn River Basin</b>						
10120106	0.01	0.00	0.01	10	0	10	10220001	3.49	3.30	6.79	3,910	3,700	7,610
10120108	0.15	0.03	0.18	170	30	200	10220002	1.50	0.33	1.83	1,680	370	2,050
Subregion 1012 <sup>2</sup>	0.16	0.03	0.19	180	30	210	10220003	6.33	1.23	7.56	7,100	1,380	8,470
10140201	0.58	0.13	0.71	650	150	800	10220004	8.61	1.99	10.60	9,650	2,230	11,880
10140203	0.01	0.00	0.01	10	0	10	Subregion 1022	19.93	6.85	26.78	22,340	7,680	30,020
Subregion 1014	0.59	0.13	0.72	660	150	810	<b>Missouri Tributaries River Basin (lower part)</b>						
<b>Niobrara River Basin</b>							10230001	0.94	0.21	1.15	1,050	240	1,290
10150001	0.37	0.08	0.45	410	90	500	10230006	3.78	0.12	3.90	4,240	130	4,370
10150002	0.32	0.07	0.39	360	80	440	Subregion 1023	4.72	0.33	5.05	5,290	370	5,660
10150003	1.86	0.43	2.29	2,090	480	2,570	<b>Nemaha River Basin</b>						
10150004	1.73	0.40	2.13	1,940	450	2,390	10240001	0.26	0.06	0.32	290	70	360
10150005	0.35	0.08	0.43	390	90	480	10240005	0.13	0.03	0.16	150	30	180
10150006	0.40	0.08	0.48	450	90	540	10240006	0.68	0.15	0.83	760	170	930
10150007	1.79	0.39	2.18	2,010	440	2,440	10240007	0.26	0.05	0.31	290	60	350
Subregion 1015	6.82	1.53	8.35	7,650	1,720	9,360	10240008	0.71	0.15	0.86	800	170	960
<b>Missouri Tributaries River Basin (upper part)</b>							Subregion 1024	2.04	0.44	2.48	2,290	490	2,780
10170101	18.84	4.37	23.21	21,120	4,900	26,020	<b>Republican River Basin</b>						
Subregion 1017	18.84	4.37	23.21	21,120	4,900	26,020	10250001	0.01	0.00	0.01	10	0	10
<b>North Platte River Basin</b>							10250002	0.36	0.08	0.44	400	90	490
10180009	3.04	0.71	3.75	3,410	800	4,200	10250003	0.00	0.00	0.00	0	0	0
10180012	0.22	0.05	0.27	250	60	300	10250004	1.79	0.39	2.18	2,010	440	2,440
10180013	0.59	0.14	0.73	660	160	820	10250005	0.44	0.10	0.54	490	110	610
10180014	1.36	0.31	1.67	1,520	350	1,870	10250006	0.49	0.11	0.60	550	120	670
Subregion 1018	5.21	1.21	6.42	5,840	1,360	7,200	10250007	0.53	0.10	0.63	590	110	710
<b>South Platte River Basin</b>							10250008	0.49	0.11	0.60	550	120	670
10190012	0.04	0.01	0.05	40	10	60	10250009	1.99	0.29	2.28	2,230	330	2,560
10190015	0.02	0.00	0.02	20	0	20	10250011	0.20	0.05	0.25	220	60	280
10190016	0.41	0.10	0.51	460	110	570	10250014	0.38	0.09	0.47	430	100	530
10190017	0.18	0.04	0.22	200	40	250	10250015	0.04	0.01	0.05	40	10	60
10190018	5.36	9.06	14.42	6,010	10,160	16,160	10250016	1.73	0.40	2.13	1,940	450	2,390
Subregion 1019	6.01	9.21	15.22	6,740	10,320	17,060	Subregion 1025	8.45	1.73	10.18	9,470	1,940	11,410
<b>Middle Platte River Basin</b>							<b>Big Blue River Basin</b>						
10200101	5.13	1.18	6.31	5,750	1,320	7,070	10270201	1.33	0.31	1.64	1,490	350	1,840
10200102	1.99	0.26	2.25	2,230	290	2,520	10270202	1.67	0.24	1.91	1,870	270	2,140
10200103	1.92	0.44	2.36	2,150	490	2,650	10270203	2.39	0.43	2.82	2,680	480	3,160
<b>Lower Platte River Basin</b>							10270204	0.66	0.15	0.81	740	170	910
10200201	1.62	0.37	1.99	1,820	410	2,230	10270205	0.13	0.06	0.19	150	70	210
10200202	0.58	0.13	0.71	650	150	800	<b>Little Blue River Basin</b>						
10200203	1.31	0.29	1.60	1,470	330	1,790	10270206	3.44	0.68	4.12	3,860	760	4,620
Subregion 1020	12.55	2.67	15.22	14,070	2,990	17,060	10270207	0.40	0.08	0.48	450	90	540
<b>Loup River Basin</b>							Subregion 1027	10.02	1.95	11.97	11,230	2,190	13,420
10210001	0.70	0.16	0.86	780	180	960	<b>Total<sup>2</sup></b>						
10210002	0.88	0.20	1.08	990	220	1,210	108.64	33.26	141.90	121,790	37,280	159,070	
10210003	1.43	0.32	1.75	1,600	360	1,960							
10210004	1.57	0.36	1.93	1,760	400	2,160							
10210005	0.90	0.21	1.11	1,010	240	1,240							
10210006	1.90	0.21	2.11	2,130	240	2,370							
10210007	1.10	0.25	1.35	1,230	280	1,510							
10210008	0.64	0.15	0.79	720	170	890							
10210009	2.46	0.56	3.02	2,760	630	3,390							
10210010	1.72	0.39	2.11	1,930	440	2,370							
Subregion 1021	13.30	2.81	16.11	14,910	3,150	18,060							

<sup>1</sup>Rounded to the nearest 10 acre-feet.

<sup>2</sup>Figures may not add to totals due to independent rounding.

<sup>3</sup>Million gallons per day

**Table 19**  
**Water Use Rates for Various Livestock and**  
**Animal Specialties Classes**

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Livestock Class	Annual Use Rate (gal/d/head) <sup>4</sup>
Beef Cattle and Other Cattle <sup>1</sup>	15.0
Calves Raised <sup>1</sup>	4.0
Milk Cows <sup>1</sup>	30.0
Hogs <sup>1</sup>	4.0
Pigs Raised <sup>1</sup>	1.0
Sheep, Lambs and Goats <sup>1</sup>	2.0
Turkeys <sup>1</sup>	0.12
Horses and Burros <sup>2</sup>	12.0
Chickens <sup>2</sup>	5.0
Chicks <sup>2</sup>	4.0
Ducks and Geese <sup>3</sup>	0.04

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<sup>1</sup>From Steele (1988)

<sup>2</sup>From Van der Leeden and others (1990)

<sup>3</sup>From Snavely (1986)

<sup>4</sup>Gallons per day per head

**Table 20**  
**Power Generation Water Use in Nebraska, by County, 1995**

County Number	County Name	Hydroelectric Surface-Water (Mgal/d) <sup>1</sup>	Fossil Fuel		Surface-Water Self-Supplied (Mgal/d)	Nuclear Surface-Water Self-Supplied (Mgal/d)	Total (Mgal/d) <sup>1</sup>
			Ground-Water Self-Supplied (Mgal/d)	Public-Supplied (Mgal/d)			
001	Adams	0.00	0.74	0.00	0.00	0.00	0.74
015	Boyd	1,396.71	0.00	0.00	0.00	0.00	1,396.71
019	Buffalo	45.48	0.00	0.00	0.00	0.00	45.48
047	Dawson	749.79	0.00	0.00	0.00	0.00	749.79
053	Dodge	0.00	0.59	0.00	0.00	0.00	0.59
055	Douglas	0.00	0.00	0.00	286.13	0.00	286.13
073	Gosper	733.52	0.00	0.00	0.00	0.00	733.52
079	Hall	0.00	0.87	0.00	0.00	0.00	0.87
095	Jefferson	0.00	0.01	0.00	0.00	0.00	0.01
101	Keith	696.30	0.00	0.00	0.00	0.00	696.30
107	Knox	8,555.69	0.00	0.00	0.00	0.00	8,555.69
109	Lancaster	0.00	2.18	0.01	0.00	0.00	2.19
111	Lincoln	1,700.57	0.00	0.00	703.05	0.00	2,403.62
127	Nemaha	0.00	0.00	0.00	0.00	632.95	632.95
131	Otoe	0.00	0.03	0.00	303.36	0.00	303.39
141	Platte	1,123.18	0.00	0.00	0.00	0.00	1,123.18
177	Washington	0.00	0.00	0.00	0.00	423.11	423.11
<b>Total</b>		15,001.23	4.42	0.01	1,292.54	1,056.06	17,354.26

<sup>1</sup>Millions of gallons per day

**Table 21**  
**Power Generation Water Use in Nebraska, by Hydrologic Unit, 1995**

Hydrologic Unit Number	Hydroelectric Surface-Water (Mgal/d) <sup>1</sup>	Fossil Fuel		Surface-Water Self-Supplied (Mgal/d)	Nuclear Surface-Water Self-Supplied (Mgal/d)	Total (Mgal/d) <sup>1</sup>
		Ground-Water Self-Supplied (Mgal/d)	Public-Supplied (Mgal/d)			
10150001	1,396.71	0.00	0.00	0.00	0.00	1,396.71
10170101	8,555.69	0.00	0.00	0.00	0.00	8,555.69
10180014	678.27	0.00	0.00	0.00	0.00	678.27
10190018	696.30	0.00	0.00	703.05	0.00	1,399.35
10200101	2,551.09	0.00	0.00	0.00	0.00	2,551.09
10200102	0.00	0.87	0.00	0.00	0.00	0.87
10210009	1,123.18	0.00	0.00	0.00	0.00	1,123.18
10220003	0.00	0.59	0.00	0.00	0.00	0.59
10230006	0.00	0.00	0.00	286.13	423.11	709.24
10240001	0.00	0.03	0.00	303.36	0.00	303.39
10240005	0.00	0.00	0.00	0.00	632.95	632.95
10270202	0.00	2.17	0.01	0.00	0.00	2.18
10270203	0.00	0.01	0.00	0.00	0.00	0.01
10270206	0.00	0.74	0.00	0.00	0.00	0.74
10270207	0.00	0.01	0.01	0.00	0.00	0.02
<b>Total</b>	15,001.23	4.42	0.01	1,292.54	1,056.06	17,354.26

<sup>1</sup>Millions of gallons per day

**Table 22**  
**Power Generation in Nebraska, by County, 1995**

County Number	County Name	Hydroelectric (GWh) <sup>1</sup>	Fossil Fuel (GWh) <sup>1</sup>	Nuclear (GWh) <sup>1</sup>	Total (GWh) <sup>1</sup>
001	Adams	0.00	415.37	0.00	415.37
015	Boyd	13.35	0.00	0.00	13.35
019	Buffalo	0.01	0.00	0.00	0.01
047	Dawson	97.34	0.00	0.00	97.34
053	Dodge	0.00	325.86	0.00	325.86
055	Douglas	0.00	2,259.57	0.00	2,259.57
073	Gosper	76.76	0.00	0.00	76.76
079	Hall	0.00	484.96	0.00	484.96
095	Jefferson	0.00	6.43	0.00	6.43
101	Keith	98.33	0.00	0.00	98.33
107	Knox	384.52	0.00	0.00	384.52
109	Lancaster	0.00	1,322.52	0.00	1,322.52
111	Lincoln	231.67	8,030.68	0.00	8,262.35
127	Nemaha	0.00	0.00	4,127.69	4,127.69
131	Otoe	0.00	3,440.36	0.00	3,440.36
141	Platte	139.58	0.00	0.00	139.58
177	Washington	0.00	0.00	2,995.58	2,995.58
<b>Total</b>		1,041.54	16,285.75	7,123.27	24,450.56

<sup>1</sup>Gigawatt Hours

**Table 23**  
**Power Generation in Nebraska, by Hydrologic Unit, 1995**

Hydrologic Unit Number	Hydroelectric (GWh) <sup>1</sup>	Fossil Fuel (GWh) <sup>1</sup>	Nuclear (GWh) <sup>1</sup>	Total (GWh) <sup>1</sup>
10150001	13.35	0.00	0.00	13.35
10170101	384.52	0.00	0.00	384.52
10180014	126.36	0.00	0.00	126.36
10190018	98.33	8,030.68	0.00	8,129.01
10200101	279.41	0.00	0.00	279.41
10200102	0.00	484.96	0.00	484.96
10210009	139.58	0.00	0.00	139.58
10220003	0.00	325.86	0.00	325.86
10230006	0.00	2,259.57	3,357.76	5,617.33
10240001	0.00	3440.36	0.00	3,440.36
10240005	0.00	0.00	4,127.69	4,127.69
10270202	0.00	1,312.42	0.00	1,312.42
10270203	0.00	10.10	0.00	10.10
10270206	0.00	415.37	0.00	415.37
10270207	0.00	6.43	0.00	6.43
<b>Total</b>	1,041.54	16,285.75	7,123.27	24,450.56

<sup>1</sup>Gigawatt Hours

**Table 24**  
**Estimated Wastewater Treatment Water Releases in Nebraska, by County, 1995**

County Number	County Name	Number of Systems		Municipal Releases <sup>3</sup> (Mgal/d)	Municipal Releases <sup>1</sup> (acre-ft)	County Number	County Name	Number of Systems		Municipal Releases <sup>3</sup> (Mgal/d)	Municipal Releases <sup>1</sup> (acre-ft)
		Municipal	Other					Municipal	Other		
001	Adams	3	9	3.50	3,920	101	Keith	2	2	0.85	950
003	Antelope	4	1	0.37	410	103	Keya Paha	0	0	0.00	0
005	Arthur	0	0	0.00	0	105	Kimball	1	1	0.40	450
007	Banner	0	2	0.00	0	107	Knox	6	1	0.56	630
009	Blaine	0	0	0.00	0	109	Lancaster	12	33	26.21	29,380
011	Boone	5	0	0.54	610	111	Lincoln	1	8	3.87	4,340
013	Box Butte	1	1	0.00	0	113	Logan	0	0	0.00	0
015	Boyd	2	1	0.14	150	115	Loup	1	0	0.01	20
017	Brown	2	1	0.30	330	117	McPherson	0	0	0.00	0
019	Buffalo	4	9	3.34	3,750	119	Madison	6	13	3.75	4,200
021	Burt	4	1	0.61	690	121	Merrick	5	0	0.49	550
023	Butler	4	1	0.42	470	123	Morrill	2	2	0.18	200
025	Cass	13	6	1.38	1,540	125	Nance	2	0	0.09	100
027	Cedar	5	3	0.60	670	127	Nemaha	3	4	0.33	370
029	Chase	1	0	0.13	150	129	Nuckolls	2	3	0.43	490
031	Cherry	1	2	0.44	500	131	Otoe	7	4	1.47	1,650
033	Cheyenne	2	2	0.99	1,110	133	Pawnee	5	1	0.20	220
035	Clay	4	0	0.35	390	135	Perkins	0	0	0.00	0
037	Colfax	4	3	0.21	230	137	Phelps	1	0	1.02	1,140
039	Cuming	4	2	0.80	900	139	Pierce	4	0	0.55	620
041	Custer	4	4	0.84	940	141	Platte	6	12	3.03	3,400
043	Dakota	3	5	0.27	300	143	Polk	3	0	0.69	770
045	Dawes	1	3	0.16	180	145	Red Willow	2	2	1.54	1,730
047	Dawson	4	9	4.60	5,160	147	Richardson	6	18	0.49	550
049	Deuel	2	2	0.31	350	149	Rock	1	0	0.10	110
051	Dixon	6	1	0.58	650	151	Saline	6	4	1.01	1,140
053	Dodge	9	10	0.56	630	153	Sarpy	6	8	83.98	94,140
055	Douglas	7	30	0.79	890	155	Saunders	9	5	0.81	900
057	Dundy	1	1	0.17	190	157	Scotts Bluff	5	6	4.13	4,630
059	Fillmore	5	0	0.74	830	159	Seward	6	1	0.98	1,100
061	Franklin	1	0	0.07	80	161	Sheridan	3	0	0.23	260
063	Frontier	1	0	0.00	0	163	Sherman	1	0	0.19	210
065	Furnas	6	1	0.83	930	165	Sioux	0	0	0.00	0
067	Gage	8	6	2.98	3,340	167	Stanton	2	0	0.19	220
069	Garden	0	2	0.00	0	169	Thayer	7	0	0.47	530
071	Garfield	1	2	0.17	190	171	Thomas	0	0	0.00	0
073	Gosper	0	0	0.00	0	173	Thurston	4	1	0.28	320
075	Grant	0	0	0.00	0	175	Valley	2	1	0.36	410
077	Greeley	3	0	0.17	190	177	Washington	5	5	2.66	2,980
079	Hall	5	19	6.86	7,690	179	Wayne	2	2	0.52	580
081	Hamilton	3	0	0.59	670	181	Webster	1	0	0.16	180
083	Harlan	2	0	0.00	0	183	Wheeler	0	0	0.00	0
085	Hayes	0	0	0.00	0	185	York	4	2	1.08	1,210
087	Hitchcock	1	1	0.00	0						
089	Holt	4	2	0.85	960	<b>Total<sup>2</sup></b>		<b>290</b>	<b>285</b>	<b>180.93</b>	<b>202,820</b>
091	Hooker	0	0	0.00	0						
093	Howard	2	1	0.33	360						
095	Jefferson	4	3	0.61	690						
097	Johnson	2	0	0.67	750						
099	Kearney	1	0	0.33	370						

<sup>1</sup>Rounded to the nearest 10 acre-feet.

<sup>2</sup>Figures may not add to totals due to independent rounding.

<sup>3</sup>Millions of gallons per day

**Table 25**  
**Estimated Wastewater Treatment Releases in Nebraska, by Hydrologic Unit and Subregion, 1995**

Hydrologic Unit Number	Number of Systems		Municipal Releases (Mgal/d) <sup>3</sup>	Municipal Releases (acre-ft) <sup>1</sup>	Hydrologic Unit Number	Number of Systems		Municipal Releases (Mgal/d) <sup>3</sup>	Municipal Releases (acre-ft) <sup>1</sup>
	Municipal	Other				Municipal	Other		
<b>White River - Hat Creek Basin</b>					<b>Elkhorn River Basin</b>				
10120106	0	0	0.00	0	10220001	12	6	4.70	5,270
10120108	0	0	0.00	0	10220002	5	7	0.60	670
Subregion 1012 <sup>2</sup>	0	0	0.00	0	10220003	21	14	2.27	2,540
10140201	1	3	0.16	180	10220004	12	6	1.65	1,850
10140203	0	0	0.00	0	Subregion 1022	50	33	9.21	10,330
Subregion 1014	1	3	0.16	180	<b>Missouri Tributaries River Basin (lower part)</b>				
<b>Niobrara River Basin</b>					10230001	9	6	3.14	3,520
10150001	2	1	0.14	150	10230006	9	32	84.29	94,490
10150002	0	0	0.00	0	Subregion 1023	18	38	87.43	98,010
10150003	4	1	0.23	260	<b>Nemaha River Basin</b>				
10150004	3	3	0.74	830	10240001	10	6	2.26	2,540
10150005	0	0	0.00	0	10240005	1	3	0.00	0
10150006	0	0	0.00	0	10240006	10	4	0.78	880
10150007	3	2	0.13	150	10240007	2	1	0.14	150
Subregion 1015	12	7	1.24	1,390	10240008	11	18	1.30	1,460
<b>Missouri Tributaries River Basin (upper part)</b>					Subregion 1024	34	32	4.49	5,030
10170101	10	3	0.98	1,100	<b>Republican River Basin</b>				
Subregion 1017	10	3	0.98	1,100	10250001	0	0	0.00	0
<b>North Platte River Basin</b>					10250002	1	1	0.17	190
10180009	6	10	4.24	4,750	10250003	0	0	0.00	0
10180012	1	1	0.07	80	10250004	3	4	1.54	1,730
10180013	0	2	0.00	0	10250005	1	0	0.13	150
10180014	0	2	0.00	0	10250006	0	0	0.00	0
Subregion 1018	7	15	4.31	4,830	10250007	0	0	0.00	0
<b>South Platte River Basin</b>					10250008	1	0	0.00	0
10190012	0	0	0.00	0	10250009	5	0	0.69	770
10190015	0	0	0.00	0	10250011	1	0	0.00	0
10190016	4	4	1.63	1,820	10250014	1	0	0.15	160
10190017	0	0	0.00	0	10250015	1	0	0.00	0
10190018	4	7	4.79	5,370	10250016	4	3	1.50	1,680
Subregion 1019	8	11	6.41	7,190	Subregion 1025	18	8	4.18	4,690
<b>Middle Platte River Basin</b>					<b>Big Blue River Basin</b>				
10200101	6	20	4.78	5,360	10270201	9	1	1.68	1,880
10200102	4	11	9.49	10,640	10270202	18	10	4.54	5,090
10200103	8	5	3.36	3,770	10270203	11	9	5.21	5,840
<b>Lower Platte River Basin</b>					10270204	4	1	0.64	710
10200201	5	10	0.35	390	10270205	1	0	0.01	20
10200202	7	12	0.57	640	<b>Little Blue River Basin</b>				
10200203	19	38	26.95	30,210	10270206	15	3	1.39	1,550
Subregion 1020	49	96	45.49	50,990	10270207	1	3	0.54	600
<b>Loup River Basin</b>					Subregion 1027	59	27	14.00	15,700
10210001	0	0	0.00	0	<b>Total<sup>2</sup></b>				
10210002	0	0	0.00	0		290	285	180.93	202,820
10210003	5	1	0.70	790					
10210004	2	0	0.31	350					
10210005	2	4	0.63	700					
10210006	0	0	0.00	0					
10210007	4	3	0.54	600					
10210008	0	1	0.00	0					
10210009	8	3	0.77	860					
10210010	3	0	0.07	80					
Subregion 1021	24	12	3.01	3,380					

<sup>1</sup>Rounded to the nearest 10 acre-feet.

<sup>2</sup>Figures may not add to totals due to independent rounding.

<sup>3</sup>Millions of gallons per day

**Table 26**  
**Reservoir Evaporation in Nebraska, by Hydrologic Unit, 1995**

Hydrologic Unit Number	Reservoir Area (1,000 acres)	Evaporation Rate (Mgal/d) <sup>1</sup>	Annual Volume (1,000 acre-feet)
10140201	0.90	1.84	2.06
10150002	1.01	2.65	2.97
10150005	2.59	6.68	7.48
10170101	13.50	42.37	47.50
10180009	1.98	4.39	4.92
10180014	27.76	69.10	77.46
10190018	4.33	10.81	12.11
10200101	3.74	9.77	10.95
10200201	0.76	1.68	1.88
10200203	2.56	8.16	9.15
10210003	2.38	7.14	8.01
10210006	4.44	12.67	14.20
10210007	0.76	2.43	2.73
10220002	0.74	1.82	2.04
10230006	0.38	0.85	0.95
10240001	0.33	0.72	0.80
10250004	4.50	13.78	15.45
10250005	1.20	3.18	3.56
10250007	1.51	4.67	5.23
10250008	1.48	4.74	5.32
10250009	12.68	36.00	40.36
<b>Total</b>	<b>89.54</b>	<b>245.45</b>	<b>275.13</b>

<sup>1</sup>Millions of gallons per day

## Special Acknowledgement

In addition to the acknowledgements provided on pages 2 and 5, the Natural Resources Commission would like to thank the following water supply systems for responding to surveys that were used to help estimate water use. In addition, some large industrial water supplies and some sand and gravel owners/operators were surveyed. Both supplied useful information. Their names are not included in order to preserve confidentiality.

1733 Estates Associates	Village of Burchard	Village of Dixon	Village of Hemingford
Village of Abie	Village of Burr	Village of Doniphan	City of Henderson
City of Ainsworth	Village of Byron	Village of Dorchester	Village of Henry
City of Albion	Village of Cairo	Village of Dunbar	Village of Hickman
Village of Alda	Village of Callaway	Village of Duncan	Village of Hildreth
Village of Allen	City of Cambridge	Village of Dunning	City of Holdrege
City of Alma	Village of Campbell	City of Edgar	Village of Homer
Village of Alvo	Village of Carleton	City of Elkhorn	City of Hooper
Village of Amherst	Cass Co. Rwd #1	Village of Elm Creek	Village of Hordville
Village of Arcadia	Cass Co. Rwd #2	Village of Elmwood	Village of Hoskins
City of Arlington	Village of Cedar Bluffs	Village of Emerson	Village of Howells
Village of Arnold	Cedar-Knox Rwd	Village of Endicott	Village of Hubbard
Village of Ashton	City of Central City	Village of Eustis	Village of Hubbell
City of Atkinson	Village of Ceresco	Village of Exeter	City of Humboldt
Village of Atlanta	Village of Chambers	Village of Fairmont	City of Humphrey
Sky Ranch Acres	City of Chappell	City of Falls City	City of Imperial
Stanton Sid #1	Village of Chester	Village of Farnam	Village of Ithaca
City of West Point	Village of Clarks	Village of Filley	Village of Jansen
City of Auburn	City of Clarkson	Village of Firth	Village of Johnson
City of Aurora	City of Clay Center	City of Fort Calhoun	Johnson Co. Rwd #1 East
Village of Avoca	Clearview Utilities Corp.	City of Franklin	Johnson Co. Rwd #1 West
Village of Axtell	Village of Cody	City of Fremont	City of Kearney
Village of Bartley	Village of Coleridge	City of Fullerton	Village of Kennard
Village of Bazile Mills	College View Park	Village of Garland	Village of Kilgore
City of Beatrice	Village of Colon	City of Geneva	Lakeside Trailer Court
City of Beaver City	City of Columbus	City of Genoa	Lancaster Co. Rwd # 1
Village of Beaver Crossing	Village of Concord	City of Gering	Village of Leigh
Village of Bee	Village of Cook	Glenhaven Village Subdivision	City of Lexington
Village of Beemer	Country Meadows Subdivision	City of Gordon	Village of Liberty
Village of Belden	City of Cozad	City of Gothenburg	City of Lincoln
Village of Belgrade	City of Crawford	Village of Grafton	Village of Lindsay
Village of Bellwood	City of Crete	City of Grand Island	Village of Litchfield
Village of Benedict	Village of Crofton	City of Grant	Little Blue Nrd Rwd #1
City of Benkelman	Cuming Co. Rwd #1	Village of Greenwood	Village of Loomis
City of Blair	City of Curtis	Village of Gresham	Village of Louisville
City of Bloomfield	City of Dakota City	City of Gretna	City of Loup City
Village of Bloomington	Village of Dalton	Village of Guide Rock	Mackel Trailer Court
City of Blue Hill	Village of Danbury	Village of Gurley	City of Madison
Village of Boelus	Village of Dannebrog	Village of Haigler	Village of Madrid
Bow Valley Water Works	City of David City	Village of Hampton	Village of Magnet
Village of Bradshaw	Dawes Co. Rwd # 1	Village of Hardy	Village of Malcolm
Village of Brainard	Village of Daykin	Harrisburg Village	Village of Malmo
Village of Bristow	Village of Decatur	City of Hartington	Village of Manley
Village of Brock	Village of Denton	City of Harvard	Village of Marquette
Village of Brownville	City of Deshler	Village of Hayes Center	Village of Martinsburg
Village of Brule	Village of Diller	City of Hebron	
Village of Bruning	Village of Dix		

Village of Maxwell	City of Pierce	Village of Stapleton
City of Mccook	Village of Pilger	Village of Steele City
Village of Mccool Junction	City of Plainview	Village of Steinauer
Village of Mead	Village of Platte Center	Village of Stella
Village of Memphis	City of Plattsmouth	Village of Stratton
Village of Merna	Village of Pleasanton	City of Stromsburg
Metropolitan Utilities District	Village of Plymouth	Village of Stuart
City of Milford	Village of Polk	City of Superior
Village of Miller	City of Ponca	City of Sutton
Village of Milligan	Village of Potter	City of Syracuse
City of Minatare	Village of Prague	Village of Talmage
City of Minden	City of Randolph	City of Tecumseh
City of Mitchell	Village of Republican City	Village of Terrytown
Village of Morse Bluff	Richardson Co. Rwd # 2	Village of Thedford
Village of Murdock	Village of Rising City	Village of Thurston
Village of Naponee	Village of Riverdale	Village of Tilden
City of Nebraska City	Village of Rosalie	Village of Trenton
Village of Nehawka	Village of Roseland	Village of Trumbull
City of Neligh	Village of Royal	Village of Unadilla
City of Nelson	City of Rushville	Village of Utica
Village of Newcastle	Village of Salem	City of Valley
Village of Newport	Santee	Village of Valparasio
Village of Niobrara	City of Sargent	Village of Verdell
City of Norfolk	City of Schuyler	Village of Verdigr
City of North Bend	Village of Scotia	Village of Verdon
City of North Platte	City of Scottsbluff	Village of Waco
Village of Oakdale	City of Scribner	City of Wahoo
City of Oakland	City of Seward	City of Wakefield
Village of Obert	Sheens Mobile Home Park	Village of Wallace
Village of Oconto	Village of Shelby	Village of Walthill
Village of Odell	Village of Shelton	Village of Wauneta
Village of Ohiowa	Village of Shickley	Village of Wausa
Omaha Regency	Village of Shubert	City of Waverly
Village of Ong	Adams Co. Sid #1	City of Wayne
Village of Orchard	Cass Co. Sid #1	Village of Weston
City of Ord	Douglas Co. Sid #196	Village of Whitney
Village of Orleans	Douglas Co. Sid #254	City of Wilber
City of Osceola	Douglas Co. Sid #284	Village of Wilcox
City of Oshkosh	Douglas Co. Sid #285	City of Winnebago
City of Osmond	Douglas Co. Sid #296	Village of Winslow
Village of Otoe	Dodge Co. Sid #3	Village of Winslow
Otoe Co. Rwd # 3	Sarpy Co. Sid #34	City of Wisner
Village of Overton	Saunders Co. Sid #6	Village of Wolbach
Village of Oxford	Sarpy Co. Sid #81	Village of Wood Lake
Village of Page	Sarpy Co. Sid #97	City of Wood River
Village of Palisade	City of Sidney	City of York
Village of Palmyra	Village of Silver Creek	York Mobile Plaza
City of Papillion	Skyline Woods Homeowners Assoc	Village of Yutan
Papio-Missouri River Nrd1	Village of Smithfield	
Papio-Missouri River Nrd2	Village of Snyder	
Papio-Missouri River Nrd3	City of South Sioux City	
City of Pawnee City	Village of Spencer	
Pawnee Co. Rwd # 1	Village of Sprague	
Village of Paxton	City of Springfield	
City of Peru	Village of Springview	
Village of Petersburg	Village of St. Edward	
Village of Phillips	Village of St. Helena	
	City of St. Paul	
	City of Stanton	