

## Papio-Missouri River Natural Resources District

# Groundwater Management Plan

Appendices

June 1993

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**PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT**  
**GROUNDWATER MANAGEMENT PLAN**

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## ABSTRACT

The Papio-Missouri River Natural Resources District's (P-MRNRD) policy direction is to maintain the status quo of its groundwater reservoir quantity and quality, forever.

To achieve this reservoir life goal, information has been gathered and presented in this Groundwater Management Plan. This information bears out the P-MRNRD's original hypothesis: Relatively little groundwater data are available specific to this NRD. Available data strongly suggest: 1) groundwater quantity is not now nor will it be a problem in the foreseeable future, and 2) groundwater quality information for several measurable parameters are deficient and remain to be addressed.

Available technical data clearly indicates it would be premature to attempt establish a management, control or special protection areas based upon quantity issues. It would be similarly premature to establish a groundwater quality management or control area prior to determining if a quality problem exists or is likely to exist.

To resolve some of the unanswered technical questions necessary to maintain our reservoir life goal, the P-MRNRD will commit to: 1) maintain the District's static water level monitoring program, 2) establish a District-wide groundwater quality monitoring program, 3) administer the Nebraska Chemigation Act in the District; 4) encourage, through information and education activities, conservation of water quantity and quality; 5) establish management, control or special protection areas in the District to address problems of groundwater quantity or quality, should the data collected indicate that the reservoir of goal cannot be met; 6) continue to evaluate requests (petitions) from rural landowners for a more adequate and dependable water supply; 7) cooperate with other NRDs in the management of contiguous portions of the groundwater reservoir; 8) establish a well abandonment cost sharing program in the District; and 9) encourage development of regional water supplies in the District.

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## 1.0 INTRODUCTION

Beginning in 1975 with the passage of the Groundwater Management Act and furthered by the passage in 1984 of the Groundwater Management and Protection Act (GWMPA), the state legislatively recognized groundwater as one of its most valuable natural resources requiring sound management practices to insure future sustainability. Initially, groundwater legislation provided for examination of groundwater quantity problems and established a pattern of local control through delegated authority to the Natural Resource Districts (NRDs). In 1984, the state passed LB 1106 which required the NRDs to prepare groundwater management plans specific to their area and submit these plans to the Nebraska Department of Water Resources (DWR) for approval. In the past few years, a policy evolved with the emphasis shifting from water quantity to water quality. In 1991, LB 51 was enacted, requiring NRDs to expand their management plans to include groundwater quality protection and submit revisions for approval to the DWR.

The basic purpose of these Groundwater Management Plans is to identify the sources and levels of groundwater contamination within an NRD boundary, to establish groundwater quality goals, as well as a goal for the life of the groundwater reservoir, and to develop long-term solutions necessary for the prevention and/or reduction of high levels of groundwater contaminants posing environmental and health hazards. The plans further include recommendations of suitable practices and programs to stabilize, reduce, and prevent the occurrence, increase, or spread of groundwater contamination.

The Papio-Missouri River Natural Resources District (P-MRNRD) has prepared this Groundwater Management Plan to comply with the provisions of the GWMPA (LB 1106) and LB 51. Since the management of both quantity and quality for ground and surface waters has always been a priority of the District, this requirement complements longstanding District policy. This Groundwater Management Plan will be maintained as a growing and dynamic document consistent with the evolving understanding of the groundwater resource limitations within the District. It is intended to provide a basis for decisions concerning the



need for, and usefulness of, alternative corrective and preventive actions to be implemented within the District.

When evaluating the preparation process and content of these plans, one disadvantage must be recognized. In certain areas there is a lack of good scientific knowledge about groundwater systems. The subsurface environment of groundwater involves a complex interplay of physical, geochemical and biological forces which vary from place to place dependent on climatic, demographic and hydrogeologic factors. When analyzing quality of these systems, spatial and temporal trends are often further complicated by the effect of both natural phenomena and anthropogenic activities. Research projects and investigations on these systems have recently been increasing with objectives ranging from technological improvements for the assessment of the subsurface and chemical behavior in geologic materials to state-of-the-art remedial techniques.

As such, this Plan should also be viewed as a resource document presenting available technical and research information in a convenient form for utilization by relevant decision makers and other interested persons or organizations. The continual incorporation of new data will ensure that uncertainties do not undermine predictions and actions formulated by the District.

The framework for nonpoint source groundwater include: 1) evaluate existing and potential sources of groundwater contaminations; 2) prepare comprehensive description of the quality and vulnerability of the groundwater; 3) develop the programs and identify practices that would be most effective in handling areas of existing and potential groundwater contamination; and 4) evaluate the groundwater monitoring program to determine the most efficient use of resources which will, in turn, enable the P-MRNRD to more effectively understand and react to existing or potential groundwater contamination.

## **1.1 General Document Format**

The P-MRNRD's Groundwater Management Plan follows the format suggested by the Conservation and Survey Division's Handbook for the Preparation of Groundwater Management Plans. The Plan is divided into the following sections: Hydrogeologic Characterization; Groundwater Quality; Land Use and Contamination Source Inventory; Water Usage and Demand; Identification of Critical Areas for Protection; and Groundwater Quality Goals and Objectives. Appendices include all pertinent supplemental materials and references.

Technical information on groundwater resources is readily available for a statewide region, but detailed information specific to this District is only minimally available at this time. As such, the technical sections of this Plan will provide general information for the entire District and specific information for limited areas. Where technical data is currently undeveloped, it will be so stated.

## **1.2 General Area Description**

The P-MRNRD encompasses approximately 1,790 square miles within six counties: Washington, Douglas and Sarpy in their entirety, most of Dakota County, the eastern 61 percent of Thurston County, the eastern 56 percent of Burt County, and a small portion of southeast Dodge County. The delineation of the P-MRNRD is shown in Figure 1.

Portions of three major riverbasins are contained within the P-MRNRD: the Missouri, the Platte and the Elkhorn. The District is bounded by the Missouri River on the east and north, by the Platte River on the south and west, and by tributaries to both waterways on the west. The predominant tributary waterways running through the northern counties of Dakota, Thurston and Burt include Elk, Omaha, Pigeon, Blackbird, Elm, Mud and Tekamah Creeks. Because baseflow on these creeks is relatively low, extended dry

periods may considerably reduce flows. The Papillion Creek basin lies entirely within the District.

Population totals for 1990 within the District are approximately 560,500. Figure 2 shows the population distribution within the District. Approximately 75% of the District's population reside in Douglas County, while less than 1% resides in Burt and Thurston Counties. All population centers within the District having greater than 1,000 residents are located either adjacent to or within a few miles of the Missouri or Platte Rivers. These include South Sioux City, Dakota City, Tekamah, Arlington, Blair, Bellevue, Elkhorn, Gretna, Omaha, LaVista, Papillion and Valley.

Topographically, the District consists of open and rolling loess hills accentuated with a precipitous bluffline rising abruptly from the broad flat Missouri River flood plain (Figure 3). These bluffs range in height from small banks to 200 feet cliffs extending from the river valley floor to over five miles inland. In most areas, the landscape becomes subdued at the top of the bluffs.

The soils vary considerably in types, textures and relief (Figure 4). The majority of the soils are deep, well drained to excessively drained, gently sloping to very steep, silty and loamy, formed in loess and colluvium on the uplands and foot slopes. A portion of the soils are deep, well drained to excessively drained, strongly sloping to very steep, silty and loamy, formed in loess and glacial till on the uplands. There are some small areas of shale and sandstone outcrops in the uplands. The soils of the Missouri River bottom are deep, poorly drained to excessively drained, nearly level and gently sloping silty, clayey and sandy, formed in alluvium on bottomlands.

The majority of the hills are devoted to pasture and row crops with the flat, bottomlands of alluvial soils utilized principally for crop production. Woodlands are common throughout the numerous stream courses, bluffs and some areas of the flood plain.



The P-MRNRD receives, in most years, sufficient moisture in the form of snow and rainfall to effectively negate the need for major irrigation development. Similarly, ample water supplies for both industrial and municipal usage are available for the major population centers -- South Sioux City, Dakota City, Tekamah, Omaha, and Bellevue -- due to the continual replenishment of the alluvial aquifer by the Missouri River.

This abundance of precipitation and surface water supplies, coupled with the relatively complex nature of the area geology and stratigraphy, has historically minimized research concerning groundwater conditions in the District. With no explicit need demonstrated and a lack of scientific interest in developing research projects, minimal effort has been made to collect groundwater data in the District. Consequently, other than generalities, the data required to address many of the technical questions specific to the District are not available. Designing studies to collect missing technical data may not be necessary or feasible.

A complete description of the water supply sources available in the District is necessary so that groundwater management decisions can be systematically and logically made. This Plan is based upon available data and describes the characteristics of both ground and surface waters.

## **2.0 HYDROGEOLOGIC CHARACTERIZATION**

Hydrogeology can be defined as the study of groundwater with particular emphasis given to its chemistry, mode of migration, and relation to the geologic environment. Groundwater occurs in many types of geologic formations; aquifers are of most importance. An aquifer is defined as a formation that contains sufficient saturated permeable material to yield significant quantities of water. These groundwater bearing formations store and transmit water. Generally, aquifers are areally extensive, and may be overlain or underlain by a confining bed. This confined bed may be defined as a relatively impermeable material stratigraphically adjacent to one or more aquifers. Table 1 summarizes characteristics of the nine hydrogeologic units of the P-MRNRD area.

### **2.1 Aquifer Description**

Beneath the land surface, water occurs in two distinct zones: the zone of aeration and the zone of saturation. The zone of aeration lies immediately beneath the land surface containing both air and water in the pore spaces. The zone of saturation lies beneath the zone of aeration and contains only water in the pore spaces. The boundary between these two zones is commonly referred to as the water table. For the purposes of this section, the term groundwater will apply to water occurring in the zone of saturation.

Within the zone of saturation, groundwater is found in both consolidated (bedrock) and unconsolidated (glacial till or alluvium) materials. For the purposes of this Plan, the groundwater reservoir will be considered as that portion of the zone of saturation occupied by unconsolidated materials, and the secondary reservoirs as those occurring in consolidated materials. (In the literature, the term "principal aquifer" is used frequently. In this section, groundwater reservoir is used as a replacement term for principal aquifer.)

**Table 1. Hydrogeologic Units in the P-MRNRD**

Era	System	Geologic Unit	Character and Distribution	Hydrogeologic Unit	Hydrogeologic Information
Cenozoic	Quaternary	Undifferentiated Holocene and Pleistocene deposits	Clay, silt, sand, and gravel. Includes eolian, glacial, and alluvial deposits that overlie the NRD, except in small areas where bedrock crops out. Thickness is variable. Deposits in river valleys usually are less than 100 feet thick. In upland parts of NRD most deposits are between 50 and 250 feet thick. Maximum thickness, about 300 feet, is in northern part of NRD. Eolian deposits are loess, silt and clay-sized grains, that are the surficial deposits in most upland parts of the NRD. Loess thickness usually ranges from 10 to 50 feet. Glacial deposits are clay tills that are silty, sandy, and gravelly and occur under upland areas of NRD. Multiple till beds occur, and total thickness usually is 25 to 125 feet, but may be as much as 175 feet or be absent due to erosion. Alluvial deposits include clay, silt, sand, and gravel. Clay and silt deposits usually are intermixed or interbedded with sand and gravel deposits. Sand and gravel deposits are most common in river valleys.	Missouri River valley alluvial aquifer	Aquifer usually unconfined, but locally may be partially confined. Most wells yield 600 to 1,200 gal/min. Depth to water ranges from 5 to 15 feet, and saturated thickness ranges from 70 to 100 feet.
				Platte River valley alluvial aquifer	Unconfined aquifer with wells yielding 900 to 2,000 gal/min. Depth to water ranges from 5 to 15 feet, and saturated thickness ranges from 60 to 100 feet.
				Elkhorn River valley alluvial aquifer	Unconfined aquifer with wells yielding 700 to 1,200 gal/min. Depth to water ranges from 5 to 15 feet, and saturated thickness ranges from 50 to 90 feet.
				Uplands area alluvial aquifers	Confined or partially confined discontinuous beds of saturated sand and gravel. Well yields range from 10 to 300 gal/min. Depth to water ranges from 30 to 150 feet, and the thickness of saturated sand and gravel beds usually is less than 20 feet.
Mesozoic	Cretaceous	Undifferentiated Carlile Shale, Greenhorn Limestone, and Graneros Shale	Shale, marl, and limestone. Shale is calcareous. Limestone is thin-bedded argillaceous and is interbedded with marl and shale beds. Maximum thickness about 125 feet.	Cretaceous confining beds	Forms a regional confining bed that, where present, separates Dakota aquifer from aquifers in Quaternary deposits.
		Dakota Formation	Sandstone and claystone. Sandstone is very fine to coarse grained, lenticular and friable. Locally cement is iron oxide. About 70 percent of formation is sandstone. Claystone is massive, and often silty. Maximum thickness, about 500 feet, is in Dakota and Thurston Counties where the formation is overlain by the Graneros Shale. In the rest of the NRD the Dakota thins towards the south and east because of erosion. Erosional remnants less than 20 feet thick occur in Sarpy County.	Dakota aquifer	Confined or partially confined aquifer with wells yielding 10 to 600 gal/min depending on the thickness of saturated sandstone. Depth to water ranges from 15 to 100 feet, and the sandstone thickness from less than 1 foot to about 300 feet.



**Table 1. Hydrogeologic Units in the P-MRNRD**

<b>Era</b>	<b>System</b>	<b>Geologic Unit</b>	<b>Character and Distribution</b>	<b>Hydrogeologic Unit</b>	<b>Hydrogeologic Information</b>
Paleozoic	Pennsylvanian	Undifferentiated limestone, shale, and sandstone beds	Limestone and shale. Limestone is thin bedded to massive, and usually dense. Shale is calcareous and fissile. Maximum thickness 400 feet in southeastern Washington County and northwestern Douglas County. Absent in Dakota and Thurston Counties and the northern part of Burt County.	Paleozoic confining beds	Forms a regional confining bed that, where present, separates the lower Paleozoic aquifer system from the Dakota aquifer or from aquifers in Quaternary deposits. Wells completed in local fracture zones near the top of the beds may yield 5 to 50 gal/min.
	Mississippian-Cambrian undifferentiated	Undifferentiated limestone, dolomite, and sandstone beds	Dolomite. Predominantly massive bedding with some limestone beds in upper part, thin dolomitic shales in the middle and sandstone beds in the lower part. Thickness ranges from about 900 feet in Dakota County to 1,600 feet in Washington County, to 1,100 feet in Sarpy County.	Lower Paleozoic aquifer system	Confined aquifers. Available information indicates that well yields range from 200 to 1,300 gal/min, water levels from 150 to 300 feet below land surface, and well depths from 1,100 to 2,400 feet.
Precambrian	Undifferentiated	Undifferentiated	Undifferentiated igneous, metamorphic, and sedimentary rocks.	Precambrian confining beds	Regional base of lower Paleozoic aquifer system.

Source: U.S. Geologic Survey, provisional data, March 1993.

Therefore, the principal groundwater reservoir is defined as that portion of the zone of saturation located between the upper surface of the bedrock (consolidated material) and the water table. The University of Nebraska-Lincoln (UNL) Conservation and Survey Division (CSD) in 1979 and Nebraska Department of Environmental Quality (NDEQ) have jointly published maps of the groundwater reservoir. The configuration of the base of the groundwater reservoir (upper surface of the bedrock) is shown in Figure 5. Although the water table level fluctuates from year to year, the control points used for delineating the upper surface of the groundwater reservoir were set at the spring 1979 water levels (Figure 6). Figure 7 represents the thickness of the groundwater reservoir.

#### **Bedrock (consolidated materials)**

The uppermost bedrock under the District is of either Pennsylvanian or Cretaceous Age (Figure 8 and Table 1). The Pennsylvanian system is the oldest of these two systems. The major bedrock groups of this system are shale and limestone. Pennsylvanian rocks outcrop in places along valley sides, and limestone from this formation has been quarried extensively in southern Sarpy County and less extensively in eastern Douglas and Washington Counties. They are also found in buried valleys at other locations where the Dakota Sandstone has been removed by erosion.

Pennsylvanian and Cretaceous systems form the base of the groundwater reservoir in the entire Missouri Valley Area, the portion of the Platte Valley Area below the Elkhorn River, and a portion of the Upland Area. Generally, rocks of Pennsylvanian Age are not considered to be a source of water.

Older Paleozoic rocks of Mississippian, Devonian, Silurian, Ordovician, and Cambrian age underlie the entire District. In the past, carbonate rocks primarily of pre-Mississippian Age and basal sandstones of Paleozoic Age were used as a source of water for industrial use; however, most of these sources have now been abandoned.

The Dakota Sandstone formation of Cretaceous Age underlies most of the western two-thirds of the southern three county area where it is the uppermost bedrock. Dakota rock types range from pebble gravels to sandstones and shales. Outcrops of this formation can be found on lands along the Platte River in Sarpy County and occasionally exposed elsewhere in both Sarpy and Douglas Counties. At these outcrop locations, the groundwater reservoir is very thin or absent (Figure 7). Dakota Sandstone underlies the majority of the Upland Area and that portion of the Platte Valley Area above the mouth of the Elkhorn River.

Groundwater occurring in consolidated materials (bedrock) are considered to be secondary reservoirs in this Plan. The Dakota Sandstone Aquifer is a bedrock water source utilized in eastern Nebraska (Ellis, 1982) and an important source of water to many domestic, municipal, irrigation, and industrial wells. Well yields range from ten to as much as six hundred gallons per minute. Where the unconsolidated material (groundwater reservoir) is thin or absent, the Dakota is the only source of usable water. A number of wells extend into this aquifer which is an asset to those landowners with no other source of water. Also, several deep wells into pre-Pennsylvanian Paleozoic rocks have been used in the past as an industrial water supply in the Omaha area.

#### **Alluvium (unconsolidated materials)**

Unconsolidated materials overlie the bedrock in varying thicknesses. Figure 9 shows the thickness of quaternary deposits overlying bedrock in Washington, Douglas and Sarpy Counties. These deposits of sands, gravels, glacial till and loess were influenced by several glaciation periods. The thickness of these deposits ranges from 300 feet in northwest Washington County to 100 feet or less along the major river valleys.

The unconsolidated materials in the Platte Valley and Missouri Valley Areas overlying the bedrock are approximately 100 feet thick. The unconsolidated materials in the Upland Area above bedrock range in thickness from 100 to 300 feet.

### **2.1.1 Geographic/Areal Description**

Nebraska was divided into thirteen underground water areas of which three are represented in the P-MRNRD: the Platte River Valley, the Northeast Nebraska Glacial Drift areas and Missouri River Lowlands (Figure 10). The District's groundwater reservoir can be sub-divided into underground water areas based upon descriptions by Reed (1968).

#### **Platte Valley**

The Platte Valley area encompasses the flood plain, bottom land and low terraces along the Platte River in its lower part and along the Platte and Elkhorn Rivers in its upper part, collectively referred to as the Platte Valley Region. Large capacity wells can generally be developed from the alluvial deposits (unconsolidated materials) of Pleistocene and Holocene age underlying the Platte Valley area. The total storage of groundwater is large; and, although extensive withdrawal for municipal, industrial and irrigation has occurred, no long term change in storage has been detected (Ellis & Pederson, 1985; Martin & Pederson, 1984). Recharge from precipitation and streamflow appears to be in balance with natural discharge to streams, evapotranspiration and discharge through wells. Some well fields have been developed that induce recharge from the Platte River.

#### **Northeast Nebraska Glacial Drift Area**

A large portion of the area is occupied by the Northeast Nebraska Glacial Drift Area, named the Upland Region. Deposits of glacial drift as much as 200 feet thick underlie most of the area. Several tens of feet of wind blown silt, known as loess cover much of the Glacial Drift Area. However, glacial till is exposed at the ground surface in the southwestern portion in the northern three counties. The till rests directly on bedrock at some locations, while at others, thick early Pleistocene sands and gravels fill valleys now buried beneath the till. The major modern valleys cut completely through the Pleistocene, exposing the Dakota formation in thick walls.

Glacial till is a poor source of groundwater. Yields to wells in these deposits are usually small to negligible and the water is usually highly mineralized. However, thick deposits of Pleistocene sand and gravel are sources of medium to relatively large supplies of good quality water for consumption as well as sources of most irrigation wells. Where these Pleistocene aquifers are thin or absent, water may be obtained by drilling into the deeper lying Dakota Sandstone.

The drift rests directly on the Dakota Sandstone, a bedrock of Cretaceous Age in the western portions of Sarpy, Douglas, Washington and Burt Counties and in the eastern part of Thurston and Dakota Counties. This formation is exposed at numerous sites along the Missouri River bluffs. The drift overlays the bedrock of Pennsylvanian Age in the eastern part of Washington, Douglas and Sarpy Counties (Figure 8). In places, buried bedrock valleys contain Pleistocene sands and gravels.

Many domestic and stock wells in the glacial drift are developed in perched aquifers of small areal extent and yield. Other domestic, municipal and industrial wells are developed in sands and gravels of the groundwater reservoir (including confined aquifers) or in the Dakota Sandstone formation where it can be reached at shallow to moderate depths. This formation may also contain isolated gravel beds at its base where moderately large yields can be obtained. In some places, no satisfactory groundwater supply can be obtained.

### **Missouri River Lowland Region**

The Missouri River Lowland Area, named the Missouri Valley Region, is also underlain by alluvial deposits of Pleistocene and Holocene age. It occupies the floodplain and low terraces along the Missouri River. Hydrologic characteristics of the groundwater reservoir in the Missouri Valley Region are believed to be similar to those in the Platte Valley region.

The Missouri Valley Region has sufficiently thick Pleistocene sand and gravel to supply numerous large capacity wells. Glacial till deposits as well as the underlying Dakota Sandstone formation also provide an important domestic, irrigation and/or municipal water source.

Water from the Missouri Valley Region while sufficient in quantity for most municipal and industrial uses, is generally highly mineralized with iron content posing a significant quality problem requiring treatment prior to many uses. Areas of particular concern are around South Sioux City and Dakota City in the northeast portions of Dakota County, the area around Fort Calhoun in southeastern Washington County and in eastern Douglas County. Wells located within this area may have total dissolved solids (TDS) concentrations in excess of 1,000 mg/l (Figure 11).

## **2.1.2 Physical Characteristics**

### **Transmissivity**

The capacity of a groundwater reservoir to transmit water is indicated by transmissivity values. These values are a function of the permeability and the saturated thickness of the reservoir. Transmissivity values may be used to make estimates of well yield in any particular area. However, data required to determine reasonably accurate transmissivities in this area are currently not available. Numerous assumptions, extrapolations and educated guesses have been utilized in evaluating both aquifer thickness and permeability to construct the very generalized view of transmissivity values that are presented in Figure 12.

Although, the values shown in Figure 12 are not site-specific and must be handled with caution, indications are that transmissivity values as a whole would appear to be rather low. Transmissivity values between 20-100 thousand gallons/day/foot are found in the eastern portions of Dakota, Washington, and Burt Counties, while lower estimates, ranging

from 0-20 thousand gallons/day/foot can be found in the western portions of Thurston, Dakota, Douglas and Sarpy Counties, and intermittently in Burt and Washington Counties.

Areas with transmissivity values exceeding 20 thousand gallons/day/foot are generally considered capable of sustaining well yields sufficient for irrigation. The relatively low transmissivities in this area are a reflection of the thinness of the principal aquifer in the bluffs and hills along the Missouri River, or the impermeability of the saturated materials farther inland.

The concentration of wells in the Platte Valley and Missouri Valley Areas (Figures 19 and 20), are an indication that transmissivity may be higher in these regions than in the Upland Region.

### **Saturated Thickness**

Figure 13 shows the approximate saturated thickness in the groundwater reservoir. The thickness represents the difference between the water table elevation in 1979 and the configuration of the base of the principal groundwater reservoir. In the Missouri Valley and Platte Valley Region, the thickness is averaging approximately 100 feet; in the Upland Region, it can range from minuscule to 200 feet. In numerous locations the groundwater reservoir is completely absent.

## **2.2 Vulnerability Description**

Groundwaters underlying the District are vulnerable to contamination through natural and artificial sources. No natural recharge areas have been defined within the District.

### 2.2.1 Depth to Groundwater

Distance from the ground surface to the water level varies considerably with both time and location. This information is useful, however, for calculating both pump lift energy consumption and potential groundwater recharge, as well as for environmental considerations.

General statements made regarding depth to groundwater must always be regarded as non site-specific. Perched water tables are common and any known depth to water may be characteristic of only very localized sites. In this light, it can be noted that depth to water is less than 50 feet in both the Missouri Valley and Platte Valley regions. Similar levels are also found along the major drainages in all six counties. Remaining depth to groundwater levels in this area are between 50 and 200 feet with very few exceptions (Figure 14).

The District currently measures the static water levels of 31 irrigation wells each spring and fall. The readings, presented in Appendix A, show depth to water as measured from natural ground. These wells are located in the Platte Valley, Missouri Valley and Upland Region areas. Specific seasonal data resulting from several years of irrigation well water level measurements, wells located in Pleistocene sand and gravel, indicate fluctuations that appear to be caused by short term weather conditions. As such, any attempt made at long range water level trends utilizing these rather short term monitoring data should be regarded as highly speculative.

As noted earlier in this report, the quality and quantity of water has been able to meet current needs. However, this does not preclude the necessity of a more extensive monitoring program in the future. The monitoring program will be discussed in more detail in Section 3.0.



### **2.2.2 Groundwater Recharge Sources**

The primary source of natural recharge to the groundwater reservoir is the precipitation that falls directly on the land. However, the extent of this recharge is dependent upon several factors: the amount, frequency, and timing of precipitation events; the characteristics of the soil profile; and the topography. Assumptions based upon these characteristics must be tempered, however, by the fact that glacial till deposits in the subsurface of much of the District are above the regional water table and create perched aquifers that intercept some of the recharge.

The general soil association map presented in Figure 4 (Elder, 1969) shows the majority of the soils in the District are formed in glacial till, loess, alluvium, or a combination of these. The subsoil permeability is predominantly low. This limits recharge in that water moves slowly through the subsoil. Soil characteristics combined with the topography of this area increase total runoff amounts when produced during short duration; high intensity rains produce a large amount of runoff which may contribute little to recharging the groundwater reservoir. Low intensity rains of longer duration would provide a greater potential for recharge since smaller amounts of runoff are produced.

A general assumption which can be made regarding natural recharge is that valley areas, principally along the Missouri, Platte and Elkhorn Rivers would have a relatively high natural recharge rate from precipitation of around 25%. The remainder of the District consisting of rolling hills and bluffs, would maintain a rather low recharge rate ranging from only 1-5% (Figure 15). Additional recharge due to runoff, permanent and intermittent streams, and various other sources appear to be negligible.

#### **Precipitation**

The District is located in eastern Nebraska which receives greater amounts of precipitation when compared to other areas of the state. Annual precipitation within this

region averages over 28 inches, varying from a low of 26 inches in the north to approximately 29 inches in the south (Table 2). These climatological normals represent monthly total precipitation records for each year in the 30-year period, 1961-90 inclusive. Snowfall contributes significantly to the total precipitation amounts with the heaviest contributing months being December through March. May and June generally provide the most rainfall. This rainfall is considered to be both timely and adequate for crop growth, however, annual and/or seasonal variations in these precipitation patterns are responsible for causing localized and occasionally severe droughts. These droughts are generally considered to be relatively minor and either discontinuous or short-lived.

**Table 2. 30-Year Precipitation Averages (1961 - 1990), Inches**

Month	Burt County (Tekamah)	Dakota County (Homer)	Douglas County (Waterloo)	(Omaha)	Thurston County (Walthill)	Washington County (Blair)
January	0.61	0.46	0.59	0.65	0.52	0.61
February	0.77	0.71	0.67	0.78	0.77	0.81
March	2.27	2.06	1.91	2.13	2.07	2.52
April	2.77	2.62	2.66	2.74	2.64	2.78
May	4.09	3.89	4.19	4.36	4.07	3.89
June	4.17	3.85	4.16	3.90	4.11	4.30
July	3.18	3.27	3.07	3.27	3.46	3.44
August	3.60	2.87	3.69	3.22	2.83	3.36
September	3.56	2.93	3.80	3.65	3.10	3.76
October	2.25	2.02	2.42	2.41	2.01	2.36
November	1.19	1.15	1.29	1.35	1.17	1.28
December	<u>0.87</u>	<u>0.79</u>	<u>1.00</u>	<u>0.93</u>	<u>0.82</u>	<u>0.96</u>
Total Mean	29.33	26.62	29.45	29.39	27.57	30.07

Source: University of Nebraska Lincoln, Department of Agricultural Meteorology, Nebraska State Climate Office, Institute of Agriculture and Natural Resources.

## Surface Water

The majority of streams draining the District are the result of surface runoff and tend to be short and steep with base flows in many instances so low that they cease to flow during periods of drought. This ephemeral or intermittent tendency makes them an unreliable irrigation source during critical periods of crop stress. Reflecting this unreliability is the nominal number of surface water appropriations in this area. All of the currently appropriated surface water in the P-MRNRD area (Table 3) are utilized for either irrigation

(65.3 cfs), commercial (2,449.2 cfs), domestic (177,118 Ac-Ft and 8.3 cfs), or storage (24,903.3 Ac-Ft).

In contrast to some other parts of the State, the southern part of the District has large quantities of surface water available. The major contributors are the Elkhorn, Platte and Missouri Rivers. The mouths of the Elkhorn and Platte Rivers lie within the District's boundaries. A minor contributor to surface water resources is the Papillion Creek system. Table 4 shows average discharges for several surface water sources in the P-MRNRD.

The average discharge in the Platte River is 6,534 cfs at Louisville, Nebraska, and comes primarily from three upstream sources. These sources and percent of annual flow attributable to each are the North Platte Basin (25%), the Loup Basin (41%), and the Elkhorn Basin (21%). The remaining 13% comes from the Salt Creek Basin, other unmeasured tributaries and other sources. The majority of water in the Loup system is derived from groundwater sources in the Nebraska sandhills.

The Elkhorn River has an average discharge of 1,215 cfs at Waterloo, Nebraska. The majority of water in the river comes from runoff in the basin.

The Missouri River is currently the District's largest source of surface water. This source is also the greatest surface water contributor in providing domestic water supply to area residents. Much of the flow in the Missouri River is controlled by a series of mainstream dams that regulate the flow of water in the river system. The average discharge at Omaha is 30,670 cfs.

Figure 14, which shows the generalized depth to the regional water table, also gives an indication of recharge potential to the groundwater reservoir. The recharge potential is greater along the Missouri River and between the Platte and Elkhorn Rivers, while in the rest of the area this potential is limited due to the presence of extensive glacial till and clay deposits. The amount of recharge between the Platte and Elkhorn Rivers is also quite limited since the depth to water is relatively shallow, i.e., less than 50 feet.

**Table 3. Surface Water Rights in the P-MRNRD**

<b>Stream/Creek</b>	<b>Usage *</b>	<b>Provisional Grant</b>		<b>County</b>
Anderson Reservoir	SI	N/A		Washington
Big Papillion Creek	DO	0.22	CFS	Douglas
Big Papillion Creek	IR	7.98	CFS	Douglas
Blackbird Creek, South	IR	0.38	CFS	Burt
Boxelder Creek	ST	3,472	AF	Douglas
Cameron Reservoir	SO	N/A		Washington
Carr Creek	IR	4.76	CFS	Burt
Combination Ditch	IR	4.42	CFS	Burt
Cow Creek	IR	0.43	CFS	Thurston
Davis Creek	IR	2.3	CFS	Burt
Davis Creek	ST	92.32	AF	Burt
Elk Creek	?	N/A		Dakota
Elk Creek	IR	4.61	CFS	Dakota
Elm Creek	IR	0.47	CFS	Burt
Fish Creek	IR	1.19	CFS	Washington
Hell Creek	ST	145	AF	Douglas
Little Papillion Creek	ST	3,910	AF	Douglas
Missouri River	IR	12	CFS	Burt
Missouri River	CO	1,258.58	CFS	Douglas
Missouri River	DO	177,118	AF	Douglas
Missouri River	ST	2,000	AF	Douglas
Missouri River	CO	365.42	CFS	Sarpy
Missouri River	IR	2.19	CFS	Thurston
Missouri River	ST	660	AF	Thurston
Missouri River	CO	825.21	CFS	Washington
Missouri River	DO	7.81	CFS	Washington
Missouri River	IR	0.72	CFS	Washington
Missouri River	ST	2,800	AF	Washington
Moores Creek	ST	220	AF	Washington
Mud Creek	IR	1.62	CFS	Burt
Mud Creek	ST	316.6	AF	Burt
New York Creek	IR	4.02	CFS	Washington
Northwest Branch Big Papillion Creek	IR	3.05	CFS	Washington
Northwest Branch Big Papillion Creek	ST	18	AF	Washington
Omaha Creek	IR	0.57	CFS	Thurston
Omaha Creek	ST	16.84	AF	Thurston
Southwest Branch, Papillion Creek	?	N/A		Washington
Springs	IR	0.07	CFS	Sarpy

**Table 3. Surface Water Rights in the P-MRNRD (Continued)**

Stream/Creek	Usage *	Provisional Grant		County
Stewart Creek	IR	0.2	CFS	Washington
Stratbucker Reservoir	SO	N/A		Washington
Tekamah Creek	IR	0.9	CFS	Burt
Tekamah-Mud Creek Reservoir 41A	SO	N/A		Burt
Tekamah-Mud Creek Reservoir 41A	ST	1.8	AF	Burt
Tekamah-Mud Creek Reservoir 9-A	SO	N/A		Burt
Trib to Big Papillion Creek	DO	0.22	CFS	Douglas
Trib to Big Papillion Creek	ST	2,251.56	AF	Douglas
Trib to Big Papillion Creek	DO	0.07	CFS	Washington
Trib to Big Papillion Creek	IR	1.16	CFS	Washington
Trib to Big Papillion Creek	ST	107.9	AF	Washington
Trib to Boxelder Creek	ST	80.2	AF	Douglas
Trib to Elk Creek	ST	6.8	AF	Dakota
Trib to Elm Creek	ST	68.4	AF	Burt
Trib to Fish Creek	IR	0.44	CFS	Washington
Trib to Little Creek	ST	2.44	AF	Dakota
Trib to Little Papillion Creek	ST	164	AF	Douglas
Trib to Missouri River	ST	169.9	AF	Washington
Trib to Moores Creek	ST	48.6	AF	Washington
Trib to New York Creek	IR	0.43	CFS	Washington
Trib to New York Creek	ST	46.4	AF	Washington
Trib to Papillion Creek	ST	27	AF	Douglas
Trib to Randall Creek	IR	0.81	CFS	Thurston
Trib to S. Branch Papillion Creek	ST	2,723.7	AF	Sarpy
Trib to Tekamah Creek	ST	3,028.5	AF	Burt
Trib to W. Branch Papillion Creek	ST	35.2	AF	Douglas
Trib to W. Branch Papillion Creek	ST	11	AF	Sarpy
Trib to Little Papillion Creek	ST	2,018.7	AF	Douglas
Trib to Long Creek	ST	273.86	AF	Washington
Turkey Creek	ST	86.6	AF	Washington
West Papillion Creek	IR	0.55	CFS	Douglas

\*Usage Code: IR - Irrigation                      CO - Commercial  
ST - Storage    SI - Supplemental Irrigation  
SO - Storage Only, Pump                      ? - Unknown Code  
DO - Domestic

Source: Nebraska Department of Water Resources, April 1993

**Table 4. Average Discharges for Several Surface Water Sources in the P-MRNRD**

USGS Gage Station	River	Period of Record	Drainage Area (Sq. Mi.)	Average Discharge (cfs)	Maximum Discharge/Date (cfs)	Minimum Discharge/Date (cfs)	Avg Annual Discharge (Ac-Ft)
06486000	Missouri River @ Sioux City, IA	1897-1992	314,600	28,850 (1958-1992)	441,000 4/14/52	2,500 12/29/41	20,900,000 (1958-1992)
06601000	Omaha Creek @ Homer, NE	1945-1992	168	37.1	18,100 2/19/71	0.1 9/16-19/48 9/9, 9/13-14/55 10/7-8/57	26,880
06601200	Missouri River @ Decatur, NE	1987-1992	316,200	--	40,900 5/19/90	7,130 12/22/90	17,390,000
06608000	Tekamah Creek @ Tekamah, NE	1949-1981	23	6.2	6,180 6/5/63	0	4,520
06610000	Missouri River @ Omaha, NE	1987-1992	322,800	32,000 (1958-1992)	396,000 4/18/52	2,200 1/6/37	23,180,000 (1958-1992)
06800500	Elkhorn River @ Waterloo, NE	1899-1903 1911-1915 1928-1992	6,900	1,209 (1929-1992)	100,000 6/12/44	50 11/12/40	875,700
06801000	Platte River near Ashland	1928-1953 1988-1992	84,200	4,954 (1989-1992)	107,000 6/12/44	265 8/18/41	3,589,000 (1989-1992)
06805500	Platte River @ Louisville, NE	1953-1992	85,800	6,531 (1953-1992)	144,000 6/14/84	131 9/3/76	4,731,000 (1953-1992)

Source: USGS Water Resources Data, Nebraska Water Year 1992; 1981

The above factors limit natural recharge and restrict the potential for artificial recharge. However, recharge of the groundwater reservoir from surface water in the Platte River is being induced at some locations of municipal wells in the Platte Valley Region (Figure 19). Artificial recharge is the addition of water to a groundwater reservoir as a result of man's activities, whether intentional or incidental.

On an annual basis, the groundwater reservoir appears to be recharged adequately by natural processes to meet the demands placed upon it. This is demonstrated by the 1983 and 1984 Groundwater Levels of Nebraska, prepared by the U.S. Geological Survey (USGS) and the CSD, which show that there have been no significant declines in water levels in this region of the District. It shows that the amount of water naturally discharging from the reservoir and withdrawn through wells is fully recharged under current conditions.

Seasonal fluctuations in water levels in the reservoir or in wells can be experienced. The magnitude of these fluctuations depends upon the climatic conditions which will either increase or decrease the demand for water, such as drought or periods of high rainfall.

Another type of fluctuation is associated with wells located in confined aquifers. Water in confined aquifers is under pressure and when pumping occurs, the pressure differentials cause large fluctuations in the water level. It can also affect other wells in the confined aquifer. When pumping stops, the pressures are again equalized and water levels rise rapidly to, or near, the prepumping levels.

### **Supplemental Sources**

Supplemental water sources are used to augment an existing system or supply to meet current demand or to provide for new uses. Supplemental water sources are additional water supplies that are made available within a specific location by either moving it from one area to another or storing it for later usage. The area's supplemental water

sources are physically limited to essentially two alternatives: 1) construction and use of surface water reservoirs; and 2) importing ground and/or surface water from other locations.

Currently, surface water reservoirs have a total maximum storage capacity of 25,270 Ac-Ft, and used primarily for flood control, recreation or other purposes. These figures include only inventory dams or those structures that have either a minimum height of 6 feet and exceed a storage capacity of 50 Ac-Ft or have a minimum height of 25 feet with greater than 15 Ac-Ft of storage. The figures do not include the numerous smaller structures or home-made farm ponds relatively common to this area.

Potential future development of significant surface water reservoirs within this area is rather limited. Economic justification for such projects, site selection and the underlying lack of a need for additional water would preclude reservoir construction indefinitely.

Similarly, the importation of surface water faces many of the limitations as reservoir construction with the additional legal hurdles and ramifications of crossing political boundaries. This legal/political issue could in itself be insurmountable.

The Metropolitan Utilities District (MUD) in Omaha utilizes groundwater from the Dakota Aquifer System as a supplemental source. The well field in Millard is used for base loading and to augment supplies received from the Platte River well field and the Missouri River for peak shaving during times of high demand, such as when lawns and recreation areas are watered during the summer months. In recent years, surface water has been used to replace groundwater as the source of water in the cities of Blair, Fort Calhoun, and Bellevue.



### 3.0 GROUNDWATER QUALITY

Traditionally, water quality is measured by the level of conventional and toxic pollutants. Most of the sources for these types of pollution come from end-of-pipe discharges, classified as point sources; but, non-point sources such as from land runoff can often become severe threats to the quality of a system. In areas of substantial agricultural production, sources of nutrient loads, sediment deposits, and groundwater contamination from pesticide leaching and overuse of fertilizers can occur. The most common nutrients adversely affecting water systems are nitrogen and phosphorus. Various types of human activities easily increase the concentration of these two nutrients beyond acceptable levels. Although corrective actions can be implemented for these types of pollution, prevention of contamination is far more cost-effective than attempting to correct a situation.

Several areas of groundwater quality concerns are present in the P-MRNRD. Some are naturally occurring, while others are related to potential anthropogenic problems (Engberg and Spalding, 1978, and Krueger, 1984, respectively).

Naturally occurring concerns relate to the composition of materials, whether consolidated or unconsolidated, which make up the groundwater reservoir. An example of this is the concentration of dissolved solids (Figure 11). Dissolved solids concentrations, (calcium, magnesium, sodium, potassium, bicarbonate, sulfate, chloride and silica), within the District's principal aquifer range from 201-500 mg/l for most of this area, with locations of greater concentration, in the range of 501-1000 mg/l, in the western half of Dakota, the northwestern portion of Thurston, eastern Douglas and west central Sarpy Counties. Major concentrations of dissolved solids greater than 1,000 mg/l can be found in the extreme northeast portions of Dakota, southeastern Washington and eastern Douglas Counties. The U.S. Public Health Service (1962) and the Environmental Protection Agency (EPA) (1977) have recommended a maximum for dissolved solids concentration in drinking water of 500 mg/l for aesthetic reasons.

The Missouri Valley Region experiences poor water quality based on dissolved solids. High concentrations of iron and manganese are also a problem. Four specific examples of this are documented. The Fort Calhoun area experienced poor water quality and low volumes of water from wells in the vicinity. This area is now served by a P-MRNRD rural water system. In 1982, the District was petitioned to investigate a potential source of good quality domestic water supply for the Elbow Bend/Holub's Place areas along the Missouri River south of Bellevue. Also, in 1982, the City of Blair abandoned a well field along the Missouri River and now obtains its municipal supply directly from the Missouri River. MUD also obtains water from the Missouri River rather than from wells in this area. In 1987, the District was petitioned to investigate an alternative source of water supply in eastern Burt County.

Statewide, water from the Dakota Aquifer is historically of poor quality (Engberg and Spalding, 1978). In south-central Sarpy County, poor quality water is associated with this aquifer where the groundwater reservoir is quite thin (Figure 7). Elsewhere in the southern three county area, water from wells completed in the Dakota is of good to fair quality. Many domestic, several SIDs, and a number of municipalities utilize Dakota wells.

### **3.1 Previous Groundwater Quality Activities**

Human activities potentially create groundwater quality problems. Four cases of groundwater contamination have been documented in the southern three county area (Krueger, 1984). Two of these relate to hydrocarbon leakage from storage tanks, one from sulfuric acid from an industrial drainage ditch, and the fourth involved nitrate contamination from a chemical industry. However, the potential exists for more. There are over 800 industry related businesses in the P-MRNRD area using a wide variety of potentially hazardous materials and there are four (4) licensed landfill sites currently in operation. The use of pesticides and nitrogen fertilizers in agriculture also has potential for causing groundwater quality problems.

NDOH administers the Federal (1974), state (1976) Safe Drinking Water Acts (SWDA) and its 1986 Amendments at the state level, while the County Health Departments administers them locally. These acts set quality standards for water used for human consumption, plus enforcement procedures and regulations designed to ensure compliance with the Acts by public (25 or more people) water suppliers. The owner of the public water supply is ultimately responsible for providing their customers with water that is safe to drink. Testing is required on tap water for both chemical and biological contamination on a regular basis. Municipal water systems must supply the NDOH and/or the County Health Departments samples for testing on nitrates at least annually and on other chemicals at least every three years. However, most suppliers sample and test water at least monthly. Bacteriological testing is required monthly or more frequently depending on the number of persons served by the system.

Neither NDOH or the County Health Departments currently sample and test other domestic wells on a regular basis unless they are part of a study, required by a lending institution, or if the individual requests testing be done. In addition to these duties, the County Health Departments also issues permits for wells, septic tank filter fields and land fills. The permitting process involves inspecting the site and installation of these items according to established specifications. However, once installed, there is no routine groundwater monitoring to insure that these systems are working properly.

The University of Nebraska Cooperative Extension conducts voluntary domestic water supply testing programs in the six county area. Domestic well owners are encouraged to test annually for nitrate and bacteria. The extension agents provide the sampling bottles, instructions for sampling and assist in the interpretation of the test results. Because the program is a noncompliance program, the results are generalized by county and locations of wells exceeding the MCL are not provided.

Over 600 samples in a three year period has been collected by the East Central Extension Program Unit (EPU). This EPU includes Burt, Cuming, Washington, and Dodge

Counties. Samples in Burt and Washington Counties totaled 364 in this three year period. Tables 5 and 6 summarize the 1990-92 sampling program for Burt and Washington Counties, respectively.

**Table 5. Summary of Voluntary Domestic Water Supply Data in Burt County, in Percent, (220 samples), 1990-92**

Coliform Bacteria (coliform/100 ml)	Nitrates (mg/l)		
	0	0.1-10.0	10.1+
0	15%	34	10
1-4	1	5	1
5+	2	19	13

Source: University of Nebraska, Cooperative Extension, East Central Extension Program Unit, Burt, Cuming, Dodge and Washington Counties, 1992.

**Table 6. Summary of Voluntary Domestic Water Supply Data in Washington County, in Percent, (144 samples), 1990-92**

Coliform Bacteria (coliform/100 ml)	Nitrates (mg/l)		
	0	0.1-10.0	10.1+
0	31%	21	3
1-4	1	7	3
5+	10	10	14

Source: University of Nebraska, Cooperative Extension, East Central Extension Program Unit, Burt, Cuming, Dodge and Washington Counties, 1992.

Results from the 1990-92 sampling show forty-one percent of the wells in Burt County and 45% in Washington County exceeded the drinking water standard of zero for coliform bacteria. Twenty-four percent of the Burt County wells and 20% in Washington County exceeded the recommended MCL of 10 mg/l NO<sub>3</sub>-N.

Extension agents in the Metro EPU (Douglas, Lancaster, Sarpy, and Saunders Counties) conducted a private domestic well water testing campaign in early 1993. One hundred wells were tested. A summary is unavailable at this time, but may be published at a later date.

A 1985 nitrate and bacteria sampling program was conducted by the County Extension Offices at 119 domestic well sites in Dakota and Thurston Counties. Results indicated that 33% of the wells tested had a nitrate-nitrogen concentration equaling or exceeding State Health Department standard of 10.0 mg/l (Table 7). Concentrations as great as 267.7 mg/l were also noted.

**Table 7. Number, Percent and Depth of Wells Sampled for E. Coli and Nitrate in Dakota and Thurston Counties, 1985**

Well Depth (feet)	# of Wells Tested		Tested Wells Indicating			
	NO <sub>3</sub> -N	E.Coli	≥10 mg/l NO <sub>3</sub> -N		or ≥5 E.coli/100 ml	
			#	%	#	%
0-50	33	33	15	13	13	11
51-100	24	23	12	10	10	9
101-150	25	24	4	3	2	2
151-200	7	7	2	2	2	2
201-300	6	6	0	0	1	1
301+	10	10	0	0	0	0
Unknown	<u>14</u>	<u>14</u>	<u>6</u>	<u>5</u>	<u>5</u>	<u>4</u>
Total	119	116	39	33	33	29

\* Three samples did not include the bacteria test. Also, one positive E. Coli test has no known well depth.

Wells sampled for coliform bacteria displayed similar results with 29% exceeding State Health Department standard of less than 5 coliform colonies per 100 ml. Bacterial counts greater than 100/100ml were not uncommon. Firm conclusions as to the contamination source and aquifer condition could not be drawn from these preliminary nitrate/bacteria data. Well depth, construction and site location all appear to have influenced these results.

Water samples were also collected in 1979 from 41 domestic, stock and irrigation wells in Burt County and tested for nitrate-nitrogen concentrations. Results of this study indicate nitrate-nitrogen concentrations to be in violation of minimum State Health Department standards in 16% of the domestic wells. Stock and irrigation wells were all within limitations.

Conclusions drawn from this 1979 study were that it appeared from the heterogeneity of the locations with high nitrate concentrations in the domestic wells were the result of point-source contamination. This point-source would ordinarily be limited to the contamination of a specific well location rather than a large volume of the regional aquifer. Well construction and site selection were considered to be the major contributors to these high nitrate levels.

The NDOH prepared a report on municipal water system tests in 1984. Table 8 summarized selected results from the NDOH publication. These data show that there does not appear to be a nitrate-nitrogen problem in water used for municipal purposes. This does not, however, preclude the existence of isolated areas of high nitrate concentrations which may exist. A study by the CSD in October, 1980, does indicate areas of high nitrate-nitrogen concentrations. The Omaha-Douglas County Health Department has also reported high nitrate-nitrogen concentrations in the area surrounding the Village of Bennington.

Other potential groundwater contaminants, e.g. volatile synthetic organic chemicals (VOCs), trihalomethanes, pesticides, petroleum distillates, trace metals, etc., have either not been found in municipal water systems or in such minute quantities as not to be considered a serious health risk (Traces of carbon tetrachloride--up to 2.1 mg/l--have been noted in the Hubbard community water system in 1982). Currently, there is no corresponding data available for domestic water supplies.

On an annual basis, the NDOH perform tests on public drinking water supplies for volatile synthetic organic compounds (VOC's). Appendix B is a copy of the 1992 compliance monitoring samples for VOC's in the P-MRNRD.

**Table 8. General Inorganic Chemical Analysis, Municipal Water Systems in Dakota, Thurston and Burt Counties of the P-MRNRD**

Municipality	Sample Well		pH	Ts	Fe	Mn	F	Alk	Hard	Ca	NO <sub>3</sub>	Cl	SO <sub>4</sub>	Na
	I.D.#	Date												
Arlington	39-1(2)	6-74	7.3	681	1.3	0.6	0.46	328	146	128	0.0	18	164	50
	65-1(3)	6-74	7.5	500	0.7	0.1	0.50	324	340	96	0.0	8	98	44
	F	6-74	7.5	612	0.2	0.1	0.46	320	412	128	0.2	19	193	52
Bellevue	F	11-77	8.2	490	0.0	0.1	0.90	328	312	77	0.6	2	80	26
	D	5-75	8.7	298	0.0	0.0	1.14	208	192	34	0.2	12	44	17
	58-1(3)	6-73	7.7	632	15.0	1.4	0.33	516	556	197	1.2	8	63	30
	62-1(4)	6-73	7.5	694	11.5	1.0	0.33	500	572	120	0.0	10	100	38
	62-2(5)	6-73	7.5	552	6.5	0.4	0.33	496	480	115	0.8	8	53	39
	65-1(6)	6-73	7.8	430	8.0	0.2	0.35	388	296	106	0.8	8	33	23
	67-1(1)	6-73	7.6	476	10.0	0.2	0.32	408	428	107	0.4	6	45	20
	67-2(2)	6-73	7.8	456	11.0	0.4	0.35	356	376	91	0.8	8	35	20
Bennington	53-1(2)	5-74	7.5	426	2.2	0.0	0.35	312	328	88	0.2	4	31	19
	68-1(3)	5-74	7.4	432	0.7	0.2	0.37	320	312	90	0.2	2	31	20
	70-1(4)	5-74	7.3	422	0.4	0.2	0.41	321	308	90	0.0	6	33	19
Blair	D	1-77	8.1	684	2.2	0.1	1.10	308	396	62	0.2	12	260	72
	56-2(7)	1-77	7.8	1294	12.0	0.6	0.46	640	800	179	0.0	2	480	122
	56-3(8)	5-77	7.1	1903	23.0	0.7	0.50	680	960	215	0.0	4	865	144
	59-1(3)	1-77	7.3	494	2.0	0.8	0.43	404	400	108	0.0	18	31	18
	66-1(13)	5-77	6.9	400	6.5	0.7	0.41	384	320	94	0.0	0	7	12
	66-2(9)	1-77	7.4	704	36.0	1.2	0.42	632	548	160	0.2	6	11	27
	66-3(10)	1-77	7.5	376	3.7	1.0	0.44	276	324	84	0.0	14	50	11
	67-1(11)	1-77	7.7	314	3.0	1.1	0.41	324	280	61	0.0	0	0	14
	67-2(12)	5-77	7.1	416	2.1	1.0	0.48	340	348	93	0.0	18	38	9
	68-1(14)	5-77	6.9	544	5.4	1.6	0.41	412	464	120	0.0	26	53	6
	75-1	1-77	7.8	556	8.5	2.2	0.69	276	412	90	0.0	56	102	21
	77-1	10-77	7.8	410	0.2	1.6	0.40	360	332	88	0.4	0	17	18
	Craig	IF	11-76	7.9	898	2.1	0.0	0.95	340	544	160	0.8	44	420
40-1		11-76	7.5	1308	1.9	0.2	1.30	328	660	196	0.0	66	635	61
Dakota City <sup>1</sup>	D	2-76	7.6	788	0.2	0.2	0.42	560	680	122	0.8	14	134	20
	56-1(1)	2-76	7.3	326	7.1	0.8	0.46	576	608	165	0.0	12	135	21
	58-1(2)	2-76	7.8	626	11.0	0.4	0.32	480	508	123	0.0	8	119	17
	N/A	10-84	---	---	---	---	---	---	---	---	0.9	---	---	56
Decatur	D	7-75	7.4	494	0.0	0.0	0.39	372	428	112	0.0	10	80	11
	66-1,72-1(c)	7-75	7.2	546	0.3	0.2	0.38	392	440	125	0.0	8	108	13
	N/A	10-84	---	---	---	---	---	---	---	---	0.4	--	---	28
Elkhorn	51-1(2)	8-76	7.5	336	0.0	0.0	0.25	280	272	78	0.6	0	9	7
	57-1(3)	8-76	7.2	424	0.0	0.0	0.25	300	336	91	1.8	2	25	6
	71-1(1)	8-76	7.6	360	0.0	0.0	0.26	272	256	82	0.6	4	21	5
	73-1(4)	8-76	7.3	404	0.0	0.0	0.27	292	300	90	2.4	6	13	5

Table 8. General Inorganic Chemical Analysis, Municipal Water Systems in Dakota, Thurston and Burt Counties of the P-MRNRD (Continued)

Municipality	Sample Well		pH	Ts	Fe	Mn	F	Alk	Hard	Ca	NO <sub>3</sub>	Cl	SO <sub>4</sub>	Na
	I.D.#	Date												
Emerson	72-1(4)	4-83	7.65	716	6.5	1.0	0.28	364	512	157	7.6	18	130	37
	80-1(5)	4-83	7.40	618	0.2	0.7	0.30	372	460	138	0.1	10	97	32
	F	4-83	7.50	606	0.1	Nil	0.32	372	476	133	0.1	6	97	31
	N/A	10-84	---	---	---	---	---	---	---	---	0.3	---	---	33
Gretna	64-1(2)	9-76	7.8	380	1.5	0.1	0.23	308	332	93	0.0	2	15	8
	70-1(4)	9-76	7.4	374	1.8	0.1	0.26	304	288	88	0.0	2	15	10
	72-1(1)	9-76	7.9	368	0.0	0.0	0.26	304	288	88	0.6	4	23	15
Herman	66-1	5-74	7.3	434	0.2	1.0	0.48	344	336	94	0.0	0	22	19
Homer	56-1(2)	2-76	7.3	416	4.5	0.7	0.48	400	436	134	0.0	0	60	7
	67-1(3)	2-76	7.4	446	1.4	0.5	0.54	320	372	102	0.8	0	60	8
	79-1	3-80	7.0	440	0.5	0.4	1.28	368	392	118	0.4	14	122	22
Hubbard	56-1,74-1(c)	1-75	7.5	420	0.0	0.0	0.43	336	388	110	5.8	4	44	16
	N/A	11-84	---	---	---	---	---	---	---	---	6.4	---	---	198
Jackson	48-1(2)	3-76	7.0	550	0.3	0.0	1.15	368	420	122	0.0	16	128	36
	78-1	3-79	7.3	774	1.3	0.1	1.19	348	504	152	0.0	14	225	40
	N/A	11-84	---	---	---	---	---	---	---	---	0.1	---	---	50
Kennard	09-1(1)	1-75	7.5	500	1.2	0.7	0.52	424	396	112	0.0	0	8	27
	65-1(2)	1-75	7.6	420	5.6	1.2	0.34	316	324	85	0.0	2	8	16
Lyons	51-1(1)	1-77	7.5	436	1.0	1.5	0.34	320	340	83	0.0	12	25	21
	76-1(2)	8-76	7.6	396	1.3	1.5	0.33	352	380	104	0.0	4	27	16
	78-1	7-78	7.2	480	1.8	1.8	0.31	316	412	90	0.0	14	32	12
	F	1-77	8.0	380	0.2	0.1	0.32	308	312	88	0.2	16	23	21
Macy	F	1-76	7.2	960	1.1	0.2	1.67	292	508	154	0.0	56	355	58
	D	1-78	7.8	1320	0.4	0.0	1.70	280	516	157	0.0	54	330	47
Oakland	54-1	9-76	7.6	676	14.0	0.8	0.67	356	436	130	0.0	26	185	38
	58-1	9-76	7.5	778	0.8	0.2	1.14	340	456	144	0.0	38	245	47
	78-1	---	---	---	---	---	---	---	---	---	---	---	---	---
Papillion	46-1	6-76	8.0	280	0.0	0.0	0.28	260	260	69	3.7	10	13	11
	46-2	6-76	8.3	280	0.0	0.0	0.27	236	256	67	2.6	8	15	9
	56-1	6-76	7.5	400	0.0	0.0	0.22	324	352	101	1.8	8	47	12
	62-1	6-76	7.8	300	0.0	0.0	0.22	240	252	66	0.8	8	44	11
	67-1	6-76	8.2	344	0.0	0.0	0.41	236	284	78	2.3	20	47	13
Pender <sup>2</sup>	50-1	12-74	7.5	512	0.0	0.0	0.46	312	352	98	3.0	2	49	16
	52-1	12-74	7.4	458	4.9	0.4	0.33	300	308	91	0.0	4	20	14
	64-1	12-74	7.7	518	0.0	0.0	0.48	324	360	99	3.4	4	56	17
	78-1	1-78	7.6	420	0.0	0.0	0.26	316	344	98	3.2	2	47	14



**Table 8. General Inorganic Chemical Analysis, Municipal Water Systems in Dakota, Thurston and Burt Counties of the P-MRNRD (Continued)**

Municipality	Sample Well		pH	Ts	Fe	Mn	F	Alk	Hard	Ca	NO <sub>3</sub>	Cl	SO <sub>4</sub>	Na
	I.D.#	Date												
Rosalie	10-1,18-1(c)	3-76	7.1	344	0.0	0.0	0.31	324	304	88	1.0	0	13	7
Springfield	41-1	6-73	8.5	334	1.1	0.0	0.28	280	292	78	1.8	10	12	24
	49-1	6-76	8.4	300	0.7	0.0	0.27	256	248	69	0.8	2	11	11
	70-1	6-76	7.3	264	0.0	0.0	0.31	236	248	67	1.2	0	8	12
South Sioux City	56-1	2-77	7.7	1106	5.0	0.7	0.41	584	780	206	0.0	144	225	69
	65-1	12-78	7.0	1146	1.6	0.6	0.59	360	880	202	0.2	44	505	90
	73-1	12-78	6.9	1000	1.0	0.4	0.58	668	760	179	0.0	20	280	76
	78-1	12-78	7.2	1032	0.1	0.1	0.51	336	575	152	0.4	32	400	81
Tekamah	49-1(3)	10-81	7.6	488	0.0	0.0	0.38	300	388	106	5.8	22	83	14
	55-1(1)	10-81	7.7	388	0.0	0.0	0.42	328	344	91	1.8	6	25	10
	59-1(2)	10-81	7.8	344	0.0	0.0	0.42	316	324	96	2.0	6	19	10
	59-2(4)	10-81	7.7	570	0.0	0.0	0.50	324	408	109	2.4	12	98	22
	75-1(5)	10-81	7.9	488	0.0	0.0	0.39	344	400	110	13.6	18	39	12
Thurston	54-1,64-1(c)	5-76	8.0	586	1.5	1.3	0.34	468	404	131	1.2	2	99	16
Valley	35-1	8-77	7.7	362	0.0	0.6	0.30	184	232	70	1.7	16	69	19
	55-1	8-77	7.7	282	0.0	0.7	0.36	184	176	53	0.4	10	63	17
	40-1	8-77	7.6	348	0.5	0.2	0.29	184	220	69	0.0	16	65	18
Walthill	47-1,61-1(c)	7-74	7.5	556	1.3	0.1	0.91	316	404	125	0.6	24	138	29
Waterloo	50-1	6-78	7.9	344	0.9	1.0	0.38	228	276	85	0.0	14	59	15
	69-1	6-78	7.9	308	1.3	0.8	0.51	204	240	75	0.0	8	57	11
Winnebago	56-1	1-74	7.3	1142	3.7	0.2	1.14	2.64	720	195	0.0	94	208	123
	72-1	5-76	7.8	1496	0.0	0.0	2.79	1.80	880	243	0.0	104	310	1
	79-1	---	---	---	---	---	---	---	---	---	---	---	---	---

**Key**

- pH: Negative logarithm of hydrogen ion concentration. 7.0=neutral
- Ts: Total solids in mg/l. Recommended limit for drinking water is 500 mg/l.
- Fe: Iron in mg/l. Recommended limit for drinking water is 0.3 mg/l.
- Mn: Manganese in mg/l. Recommended limit for drinking water is 0.05 mg/l.
- F: Fluoride in mg/l. Recommended limit for drinking water is 1.8 mg/l.
- Alk: Total alkalinity in mg/l calcium carbonate.
- Hard: Total hardness in mg/l calcium carbonate. Water with greater than 400 mg/l calcium carbonate is considered extremely hard.
- Ca: Calcium in mg/l.
- NO<sub>3</sub>: Nitrate as mg/l NO<sub>3</sub>-N. Recommended limit for drinking water is 10.0 mg/l.
- Cl: Chloride in mg/l.
- SO<sub>4</sub>: Sulfate in mg/l. Recommended limit for drinking water is 250 mg/l.
- Na: Sodium in mg/l. Recommended limit for drinking water is 500 mg/l.

<sup>1</sup> Supplies water to P-MRNRD's Rural Water #1 System.

<sup>2</sup> Supplies water to P-MRNRD's Rural Water #2 System.

Existing water quality databases on the public drinking water supplies from the NDOH have been processed. Three databases are available: 1) heavy metals or inorganic compounds; 2) nitrate/sodium monitoring of community water systems; and 3) nitrate monitoring of non-community water systems. These database reports are provided in Appendix C, D, and E. The nitrate/sodium reports present the maximum, minimum and mean for several nitrate and sodium samples. Upon request from the Nebraska Natural Resources Commission (NRC), a detailed report of each individual test can be obtained.

In 1987, Jeffery W. Pipes, completed his thesis on the hydrogeologic framework of the Paleozoic aquifers in Washington, Douglas, and Sarpy Counties. Borehole geophysical techniques were utilized to characterize the area's hydrogeology. Four wells located at the Henry Doorly Zoo, Omaha Cold Storage, Missouri River WWTP and the Harriet Anderson residence, were tested in 1986-87. All four wells exceeded the Maximum Concentration Level (MCL) of 0.3 mg/l for iron, with the well at Harriet Anderson detecting 6.09 mg/l. Pipes generalized that the chemistry of composite water samples indicated that the water was generally of acceptable quality for some uses. The relatively high total dissolved solids (TDS) and sulfate concentrations could limit its desirability for domestic uses.

In 1987, Mark O'Conner completed his thesis on the hydrogeology of the Dakota Formation in Douglas, Sarpy, and Washington Counties. Sixty-four (64) samples were collected from twenty-five (25) wells in August and November of 1986 and in March, 1987. Nitrate-nitrogen concentrations were low with only two wells exceeding 10 mg/l. TDS recommended limits of 500 mg/l were exceeded in three wells. O'Conner summarized that total dissolved solids increased rapidly toward the north, and TDS may exceed recommended levels in parts of Washington County. Iron exceeded 0.3 mg/l in five wells and manganese exceed 0.05 mg/l in 7 wells.

In early 1988, EPA began a National Pesticide Survey (NPS) to determine the nature and extent of pesticide contamination in drinking water wells. Ninety counties were sampled nationwide; in Nebraska, Burt County was selected for this survey. Thirteen wells were

sampled in the county during the fall of 1989. None of the wells sampled had detectable levels of pesticides. The EPA survey showed that 54% of the wells (7/13) had detectable levels of nitrates and ranged from less than 1 mg/l to 123 mg/l. Four of the thirteen wells (31%) exceeded the safe drinking water standard of 10 mg/l.

In 1990, a final report was issued by Roy F. Spalding on the water quality in the Lower Platte River Basin with an emphasis on agrichemicals. His investigation included an assessment of groundwater contamination vulnerability utilizing the DRASTIC model; the distribution of agrichemicals in the groundwater via sampling; agrichemical contamination of surface water via sampling; and the distribution of uranium in the Platte River and its tributaries.

DRASTIC, prepared by the National Water Well Association for EPA in 1987, is a method to evaluate the potential for groundwater contamination based on the hydrogeologic settings. It was used as a screening tool to compare the relative potential for pollution in different areas. A DRASITC Index or the pollution potential for seven hydrogeologic factors was found for Washington, Douglas and Sarpy Counties. Results indicated the regions with the greatest potential for groundwater contamination lie between the Platte and Elkhorn Rivers from Fremont south to their confluence and along the Platte near its confluence with the Missouri River.

Spalding sampled eighty wells in 1988-89 in the P-MRNRD counties of Washington, Douglas and Sarpy (Table 9). Seventy-one of these wells were also sampled in 1978-79 during the National Uranium Resource Evaluation (NURE) study. Four wells (P-38, P-15, P-18 and P-44) had nitrate-nitrogen concentration exceeding the MCL of 10 mg/l NO<sub>3</sub>-N. Only two irrigation wells in the sampled area had sufficient concentrations of NO<sub>3</sub>-N for nitrogen isotope analysis. Both samples were highly fractionated and had  $\delta^{15}\text{N}$  values of +32 and +15.4%.

**Table 9. Water Quality Samples in the Lower Platte River Basin, 1979, 1988**

Location	Sample	Type	Depth (feet)	NO <sub>3</sub> -N 1979	(mg/l) 1988	δ <sup>15</sup> N (%)	Atrazine (μg/l)
12N-11E-4CD	P-29	H	117	23	9.1		
12N-11E-11BC	P-44M	H	42	1.7	0.9		
12N-11E-18CD	P-45M	H	36	0.4	< 0.1		
13N-10E-13DC	P-28	H	160	--	0.3		
13N-10E-14CD	P-27	H	162	0.42	0.3		
13N-10E-21B	P-60	I	--	--	0.1	--	0.06
13N-11E-2BA	P-24	H	144	2.2	1.9		
13N-11E-22AA	P-25	H	126	5.9	3.6		
13N-11E-24DD	P-43M	H	144	1.7	0.9		
13N-12E-21CD	P-42M	H	60	4.7	4.0		
13N-12E-24AC	P-40M	H	--	--	4.1		
13N-12E-24DB	P-41M	H	132	1.2	1.0		
13N-13E-29DC	--	M	58	--	0.7		
13N-13E-30CC	--	M	55	--	0.2		
13N-13E-30CC	--	M	52	--	0.2		
13N-13E-30CD	--	M	53	--	0.9		
13N-13E-30CD	--	M	53	--	< 0.1		
13N-13E-30DD	--	M	49	--	1.6		
13N-14E-30CD	P-20	IN	87	--	0.3		
14N-10E-5DC	P-47M	H	15	0.81	1.8		
14N-10E-11AB	P-30	H	207	1.9	1.9		
14N-10E-28AB	P-61	I	--	--	0.3	--	< 0.02
14N-10E-33C	P-58	I	--	--	7.8	+32	< 0.02
14N-10E-33CD	P-3	I	100	--	0.9		
14N-10E-34CA	P-26	H	108	0.5	0.2		
14N-10E-35AA	P-46M	H	198	0.88	0.8		
14N-11E-4CD	P-38	H	27	20	16		
14N-11E-33BC	P-48	H	220	--	--		
14N-12E-15BC	P-22	H	225	0.15	--		
14N-12E-28AD	P-23	H	72	< 0.02	0.2		
14N-12E-36DA	P-21	H	135	0.77	0.9		
15N-10E-7DD	P-39	H	60	--	--		
15N-10E-7DD	P-48M	H	72	3.3	0.2		
15N-10E-14AA	P-62	I	45	0.09	7.9	+15.4	0.02
15N-10E-32D	P-59	I	--	--	0.4		0.1
15N-11E-20AD	P-43	H	99	2.4	< 0.1		
16N-9E-1DB	P-49K	H	27	< 0.02	< 0.1		
16N-9E-5CA	P-2	H	54	< 0.02	0.3		
16N-9E-8DC	P-1	H	18	< 0.02	0.2		
16N-9E-16AA	P-63	I	--	--	0.7	--	0.44
16N-9E-27AD	P-31	H	54	< 0.02	< 0.1		
16N-10E-13DC	P-33	H	285	< 0.02	< 0.1		
16N-10E-19A	P-64	I	--	--	< 0.1	--	0.03
16N-10E-33BC	P-32	I	33	0.2	< 0.1		
16N-10E-36DD	P-40	H	162	0.11	< 0.1		

Table 9. Water Quality Samples in the Lower Platte River Basin, 1979, 1988 (Continued)

Location	Sample	Type	Depth (feet)	NO <sub>3</sub> -N		Atrazine	
				1979	(mg/l) 1988	δ <sup>15</sup> N (%)	(μg/l)
16N-11E-9AA	P-36	H	97	--	< 0.1		
16N-11E-12BA	P-37	H	--	--	3.6		
16N-11E-25CC	P-35	H	135	0.2	0.4		
16N-11E-32DD	P-34	H	132	< 0.02	< 0.1		
16N-12E-4CD	P-41	H	228	7.0	6.8		
16N-12E-12AA	P-42	H	66	0.37	0.8		
16N-12E-29BB	P-51	H	24	7.6	1.8		
16N-12E-36BA	P-52	H	141	6.6	3.8		
17N-9E-1AD	P-47	H	183	< 0.02	< 0.1		
17N-10E-1AA	P-54	H	150	< 0.02	< 0.1		
17N-10E-17AA	P-53	H	27	13	< 0.1		
17N-11E-2DA	P-17	H	270	< 0.02	< 0.1		
17N-11E-21BB	P-15	H	30	11	18		
17N-12E-18BA	P-46	H	333	< 0.02	< 0.1		
17N-12E-21BD	P-18	H	87	10	27		
17N-12E-24AD	P-19	H	102	< 0.02	< 0.1		
18N-9E-2DD	P-14	H	294	< 0.02	< 0.1		
18N-9E-17B	P-13	I	45	0.25	0.1		
18N-10E-17B	P-45	H	36	15	8.4		
18N-10E-4AC	P-10	H	39	6.5	8.2		
18N-10E-33BC	P-11	H	45	< 0.02	< 0.1		
18N-11E-9AC	P-55	H	60	0.1	0.1		
18N-11E-28CC	P-16	H	171	< 0.02	< 0.1		
19N-9E-13CA	P-8	H	273	< 0.02	< 0.1		
19N-9E-21AA	P-7	H	183	< 0.02	< 0.1		
19N-10E-21BD	P-12	H	21	4.5	3.2		
19N-10E-24AD	P-56	H	111	4.6	1.3		
19N-11E-13BB	P-5	H	90	--	< 0.1		
19N-11E-21BD	P-6	H	86	< 0.02	< 0.1		
19N-11E-36DA	P-4	H	72	< 0.02	< 0.1		
20N-9E-33AA	P-9	H	96	9.8	9.8		
20N-9E-36BB	P-44	H	42	68	123		
20N-10E-22DB	P-57	H	333	< 0.02	< 0.1		
20N-11E-34A	P-66	I	90	0.02	0.2	--	< 0.02
20N-11E-34D	P-67	I	--	--	< 0.1	--	< 0.02

Source: Roy F. Spalding; "Water Quality in the Lower Platte River Basin with Emphasis on Agrichemicals", July 5, 1990.

Detectable levels of atrazine (>0.02 mg/l) were measured in 5 irrigation wells (P-60, P-62, P-59, P-63 and P-64). Three of these wells are located between the Elkhorn and Platte Rivers in Douglas County, and the other two wells are located near the left overbank of the Elkhorn River.

In 1990, the Water Center at the University of Nebraska published a compilation of pesticide and nitrate data in Nebraska's groundwater. Data was provided by the USGS, NDOH, NDEQ, NRD's, CSD and the Lincoln Lancaster County Health Department. Pesticide data prior to January 1, 1989 and nitrate data from the five years from 1984 through 1988 were used. Samples were analyzed for a series of pesticides. Only one domestic well site located in north central Washington County had atrazine concentrations between 0.51 - 1.00 mg/l. Nitrates have been detected in several domestic wells in the P-MRNRD. Figure 16 shows the distribution of the nitrate-nitrogen concentrations above 7.4 mg/l. The majority of detections were in Thurston and Washington Counties.

### **3.2 Groundwater Quality Monitoring**

In July 1991, the P-MRNRD and the United States Geologic Survey (USGS) entered into an agreement to sample, evaluate, process and present groundwater quality characteristics of numerous wells and suggest future monitoring programs. The USGS evaluated the hydrogeology of the P-MRNRD using data from well logs, test holes, and other available sources.

#### **3.2.1 Hydrogeology**

Based on geologic and hydrologic information available from the USGS and the CSD, and in published and unpublished reports the hydrogeologic units in the P-MRNRD were divided into three main aquifers or aquifer systems: 1) the saturated permeable limestones and sandstones in the lower Paleozoic deposits (Cambrian through

Mississippian); 2) the saturated sandstones in the Dakota Formation; and 3) the saturated sand and gravel beds in the Quaternary deposits.

The data indicates saturated lower Paleozoic deposits underlie the District at depths ranging from 500 feet to 1,000 feet. Wells completed in the lower Paleozoic rocks were a common source of water in the Omaha area for industrial use from approximately 1870 to 1970. At the present time, the majority of water for industrial use is supplied by MUD. There are no registered industrial or municipal wells in the P-MRNRD that are completed in the lower Paleozoic rocks. Therefore, existing water-quality data will be used to describe the inorganic geochemistry of the water in the lower Paleozoic rocks. Because of the variety of methods that were used to complete the wells in the lower Paleozoic rocks, it is probable that only a generalized characterization of water from the lower Paleozoic deposits can be made.

Saturated sandstones in the Dakota Formation are commonly used as a source of water for domestic, municipal, and irrigation supplies throughout those parts of the P-MRNRD where the formation is present. Because the sands, silts, and clays that comprise the Dakota Formation are of fluvial origin, large and abrupt horizontal and vertical lithologic variations are common. The Dakota directly underlies the Quaternary deposits in many parts of the P-MRNRD, and it has been a common well drilling practice to complete wells in both the Quaternary deposits and the Dakota when an adequate supply of water cannot be solely obtained from the Quaternary deposits. Therefore, sampling from wells screened only in the Dakota is essential for evaluating the quality of water from the Dakota Formation.

Quaternary deposits of alluvial, eolian, and glacial origin underlie the entire area of the P-MRNRD, except for small local areas where the bedrock crops out. The lithologic composition of the Quaternary deposits, which is variable both vertically and horizontally, ranges from relatively impermeable clays and silts to permeable sand and gravel deposits. It is probable that some domestic and stock wells in the P-MRNRD are completed in silt

deposits, but yields from these wells would be very low and the deposits should not be considered a commonly used or significant source of water. Therefore, only wells that were completed in coarse-grained deposits were sampled. Because of the potential variations in water yield and water quality that can be caused by differences in lithology, sources of recharge, and land use, the Quaternary coarse-grained deposits were subdivided into four areally restricted aquifers. These aquifers are composed of the Quaternary alluvial deposits along the Missouri River valley, the Quaternary alluvial deposits along the Platte River valley, the Quaternary alluvial deposits along the Elkhorn River valley, and the Quaternary alluvial deposits that occur in the upland parts of the P-MRNRD.

### **Missouri River Valley Quaternary Alluvial Deposits**

Areally, the Missouri River Valley Quaternary alluvial deposits are the coarse-grained Quaternary deposits that occur beneath the floodplain and low terraces along the Missouri River. The coarse-grained deposits generally contain more sand than gravel, and are often intermixed and interbedded with silts and clays. Most of the deposits are the result of flood flows in the Missouri River and organic material is common, especially in the fine grained deposits. As a result, in some areas, the water in the deposits occurs under reducing conditions. The deposits are recharged by infiltration of precipitation through the relatively permeable soils, infiltration of run-off from the adjacent upland areas, and from the Missouri River when the river stage is greater than ground-water levels. Much of the land is used for crop production and irrigation with groundwater is common.

### **Platte River Valley Quaternary Alluvial Deposits**

The Platte River Valley Quaternary alluvial deposits occur beneath the floodplain and low terraces along the Platte River valley from below the mouth of the Elkhorn River to the mouth of the Platte River. Most of the deposits are very permeable coarse-grained sands and gravels. Clays and silts usually occur only in the thin surficial deposits. Most of the recharge to the deposits is from the Platte River because the valley is very narrow and



recharge from infiltration of runoff and precipitation has a limited area in which to occur. Only a small amount of area is used for crop production.

### **Elkhorn River Valley Quaternary Alluvial Deposits**

Areally, the Elkhorn River Valley Quaternary alluvial deposits are those that occur beneath the floodplain and low terraces along the Elkhorn River valley. In northwestern Sarpy County and western Douglas County the area includes the lowlands between the Platte and Elkhorn Rivers. Most of these deposits are permeable coarse-grained sands and gravels, but clays and silts are intermixed and interbedded with the sands and gravels. Recharge to the deposits is from infiltration of the precipitation that falls on the area, from infiltration of runoff from upland areas, and from the adjacent Elkhorn and Platte Rivers when river stage is higher than ground-water levels. Much of the area is used for irrigated crop production.

### **Upland Area Quaternary Alluvial Deposits**

The Upland Area Quaternary alluvial deposits are the coarse-grained alluvial deposits that occur beneath the thick silt and clay beds that blanket the upland parts of the P-MRNRD. Available data are not adequate to define and delineate the occurrence and distribution of these sand and gravel deposits. The available data, however, indicates large variations in the thickness and the vertical and horizontal distribution of these coarse-grained deposits. Almost all recharge to these deposits is from the infiltration of precipitation. Most of the land is used for dryland crop production and grazing.

#### **3.2.2 Selected Monitoring Wells**

A total of 61 wells (Figure 17 and Table 10) were selected using a stratified-random approach. These selected wells were to be properly constructed, have driller's logs, and be completed in a representative portion of one of the aquifer systems. The selected wells were

sampled from June through August 1992 by the USGS. All water samples were tested for nitrate at the US Geological Survey National Water Quality Laboratory (NWQL) and screened for pesticides using immuno-assay kits. Nineteen samples were quantitatively analyzed for pesticides and industrial organic contaminants using gas chromatography. Forty two samples were analyzed for major ions, and trace elements. Forty samples were analyzed for radon and eleven for radium. Appendix F contains preliminary test results from the USGS sampling program.

Each aquifer system had approximately an equal amount of sampled wells. Thirteen wells were sampled in each of the Dakota, Upland and Missouri River alluvium aquifer systems. Ten wells were sampled in the Platte River Valley and 12 wells were selected in the Elkhorn River aquifer systems.

**Table 10. USGS Groundwater Quality Monitoring, P-MRNRD**

Well ID	Registration Number	Latitude/Longitude	Township & Range	Sample Type <sup>1</sup>
<b>Dakota Wells</b>				
D1	G-28320	4227580962439	T29NR9E28ABAB	2
D2	-----	4218480963718	T27NR7E16CABD	2
D3	-----	4213500962713	T26NR9E18ABCB	2
D4	-----	4205190962732	T24NR9E6BBAB	1
D5	G-28229	4146450961343	T21NR11E19BBCD	1
D6	G-6474	4141090961511	T20NR10E23DDAA	2
D7	G-56246	4132400962133	T18NR9E12CAAC	1
D8	G-39163	4120500961431	T16NR10E24ABCA	2
D9	G-39628	4117190961356	T15NR11E7BBDC	2
D10	G-70449	4111250960930	T14NR11E15AAA	2
D11	G-27986	4108240961419	T14NR10E36ADCC	2
D12	G-44441	4108180960012	T14NR13E31CBBC	2
D13	G-34831	4105030960738	T13NR11E24ACBD	1
<b>Platte Wells</b>				
P1	G-41584	4105350961745	T13NR10E16DACC	2
P2	G-58437	4104110961757	T13NR10E28ACBA	2
P3	G-70437	4104070960327	T13NR12E27BCDA	2
P4	G-55914	4104050961821	T13NR10E28BCDD	2
P5	G-27296	4103270960618	T13NR12E31ABDA	2
P6	A-10538F	4103340955957	T13NR13E31BABB	2
P7	A-10538H	4103320955947	T13NR13E31BAAC	2
P8	A-10538K	4103370955937	T13NR13E30DCCC	1
P9	A-10538GG	4103430955808	T13NR13E29DDCA	1
P10	G-30872	4103340955259	T13NR14E31BACD	2

Table 10. USGS Groundwater Quality Monitoring, P-MRNRD (Continued)

Well ID	Registration Number	Latitude/Longitude	Township & Range	Sample Type <sup>1</sup>
<b>Upland Wells</b>				
U1	-----	4213170962624	T26NR9E17CCAA	1
U2	-----	4208480962451	T25NR9E9DCCC	2
U3	G-58097	4208250962924	T25NR8E11DCCC	1
U4	G-60170	4130530962054	T18NR9E24DADA	1
U5	G-56161	4127520962041	T17NR10E7BBAC	2
U6	G-66250A	4126290960530	T17NR12E17CACA	1
U7	G-72636	4126360961832	T17NR10E16CBBB	1
U8	G-57211	4124540961226	T17NR11E29CABA	2
U9	-----	4120180960845	T16NR11E23DCBA	2
U10	G-13675	4119140960224	T16NR12E35BBAB	1
U11	G-51724	4106510961348	T13NR11E7BCO	2
U12	G-35768	4105250960816	T13NR10E14CDDA	1
U13	G-47649	4103500960810	T13NR11E25CBCD	2
<b>Missouri River Alluvium Wells</b>				
M1	G-62679	4225240962507	T28NR9E4CDBC	2
M2	G-51696	4223010962622	T28NR9E20CBDD	2
M3	G-56985	4220330962747	T27NR8E1DAAA	1
M4	G-31915	4207460961957	T25NR10E19ABDD	2
M5	G-57365	4157100961157	T23NR11E20DBAB	2
M6	G-35076	4146010961300	T21NR11E30AO	2
M7	G-55113	4142000961338	T20NR11E18CDBC	1
M8	G-28115	4140200961306	T20NR11E30DCAA	2
M9	G-57975	4127350955701	T17NR13E9ACDA	2
M10	-----	4125590960056	T17NR12E24BACC	2
M11	G-71101	4118550955519	T16NR13E35BDCB	2
M12	G-39162	4106300955413	T13NR13E12CBDA	2
M13	G-70289	4104570955235	T13NR14E19AAAB	1
<b>Elkhorn River Alluvium Wells</b>				
E1	A-13909A	4123330962648	T16NR9E6AABA	2
E2	A-13909B	4123120962616	T16NR9E5BDCA	1
E3	G-71860	4122300962145	T16NR9E12BO	1
E4	G-71406	4119370962137	T16NR9E25CAAC	1
E5	G-74586	4117550961628	T16NR10E34DDDC	2
E6	G-71076	4117410961733	T15NR10E4DDAA	2
E7	G-56172	4117230962116	T15NR9E12ABAC	2
E8	G-70952	4116560962004	T15NR10E7DACB	2
E9	G-50989	4116200961640	T15NR10E15ACAD	2
E10	G-67158A	4115070961548	T15NR10E23CADD	2
E11	G-69883	4112580952058	T14NR9E1AADD	2
E12	G-56513	4110140961741	T14NR10E21ADBD	2

<sup>1</sup>Sample Type 1 = Trace elements not tested.  
 2 = Trace elements tested.

Source: US Geological Survey, preliminary data, 1993.

The well numbering system used by the USGS in Nebraska is based on the land subdivisions within the U.S. Bureau of Land Management's survey of Nebraska. The numeral preceding N (north) indicates the township, the numeral preceding E (east) or W (west) indicated the range, and the numeral preceding the terminal letters indicates the section in which the well is located. The terminal letters denote, respectively, the quarter section, the quarter-quarter section, the quarter-quarter-quarter section, and the quarter-quarter-quarter-quarter section. The letters are assigned in a counterclockwise direction beginning with "A" in the northeast corner of each subdivision. If two or more wells are located within the same subdivision, they are distinguished by adding a sequential digit to the well number. An "O" after an A, B, C, or D, indicates that the well is located in the approximate center of the subdivision. For example, a second well located within the SW $\frac{1}{4}$  of the SE $\frac{1}{4}$  of the NW $\frac{1}{4}$  of the SE $\frac{1}{4}$ , Section 21, T23N, R58W would be assigned 23N-58W-21DBDC2.

In addition, each well receives a USGS identification number of which the first six digits represent the latitude and the next seven digits represent the longitude, both in degrees, minutes, and seconds. The final two digits are sequence number beginning with "01".

The water quality data was processed through the USGS WATSTORE System and analyzed. Statistical methodology will include: summary statistics for each of the aquifers, contingency table analyses, and the Kruskal-Wallis and Mann-Whitney tests for comparing constituent medians among different aquifers.

The chance of contamination of the water-quality samples, including bottles and preservatives, was reduced through field quality-control measures. The quality-assurance program at the NWQL includes participation in the USGS and U.S. Environmental Protection Agency interlaboratory evaluations and submission of blind standard reference water sample to the NWQL sample stream (Friedman and Fishman, 1982; Jones, 1987).

In addition, cation-anion balances were calculated for each complete analysis to ensure internally consistent data.

Quality control and quality assurance for the gas-chromatographic analyses included use of standard matrix spikes, blanks, and internal blanks and data evaluation.

### 3.2.3 Additional Proposed Monitoring Wells

In addition to sampling the 61 wells, the USGS selected 31 additional wells (Figure 17 and Table 11) to sample at a later date. These additional wells will provide a base sampling program of 92 wells.

The final report, to be published at a later date by the USGS, will present groundwater quality characteristics, any exceedances of public drinking water criteria, and suggest future monitoring programs.

**Table 11. Proposed Groundwater Quality Wells for Future Sampling, P-MRNRD**

Well ID	Registration Number	Township & Range	Owner
<b>Dakota Wells</b>			
D21	-----	T25NR9E11DBBC	Village of Walthill
D22	G-64689	T21NR11E7BA	Leo Tobin Farms Inc.
D23	G-66192	T21NR10E16DD	Wayne Hansen
D24	G-63778	T19NR9E14CB	Terry Rasmussen
D25	G-70559	T15NR11E11DD	Steve Jacobs
D26	G-67158	T15NR10E23CD	Riverside Lakes SID #177
<b>Missouri River Alluvium Wells</b>			
M21	G-57993	T29NR8E21AO	Bernard George
M22	G-45243	T28NR7E1DC	Wayne Knudsen
M23	G-72940	T27NR9E27AO	Clarence Olson
M24	G-40732	T22NR11E16AD	Neal White
M25	G-23733	T21NR11E11DB	Lloyd Williamson
M26	G-70527	T21NR12E16BC	Lois Blodgett
M27	G-31477	T19NR12E7BC	Ned Tyson
M28	G-71263	T19NR11E23AC	Neale Farm Partners
M29	G-57053	T18NR12E5BB	Fort Calhoun Stone Company
<b>Upland Wells</b>			
U21	G-23567	T26NR7E24BD	Gladys Stout
U22	G-46360	T23NR10E8DC	Harold Sears
U23	G-59182	T17NR9E1AA	Boyd Gieselmann

**Table 11. Proposed Groundwater Quality Wells for Future Sampling, P-MRNRD (Continued)**

Well ID	Registration Number	Township & Range	Owner
U24	G-40782	T17NR11E14ABSID	#1 Donald Caspar
U25	G-71467	T17NR10E18O	Dunkley Dairy
U26	A-10587B	T14NR12E26DB	City of Papillion
<b>Platte Wells</b>			
P21	G-56278	T13NR10E4DD	Ron True, tenant
P22	G-52563	T13NR10E21BO	Floyd Bundy
P23	G-55915	T13NR10E29AB	Melvin Bundy
P24	G-05692	T12NR11E16BD	Duane Doud
P25	G-55657	T12NR11E2AA	Daniel Schram
<b>Elkhorn River Alluvium Wells</b>			
E21	G-58481	T16NR9E3AO	Donald Anderson
E22	G-35436	T16NR10E27BD	Clark Noyes
E23	G-54894	T16NR10E32DA	Janice Allen
E24	G-66702	T15NR10E28AB	William Patterson
E25	G-50878	T15NR10E34BC	Donald Walvoord

Source: US Geological Survey, provisional data, 1993.

### 3.3 Suitability Characteristics

#### 3.3.1 Domestic

Groundwater quality standards must adhere to the requirements of the Nebraska Department of Environmental Quality's Title 118. All groundwater of the State are classified based on existing and potential water use. Groundwater currently or proposed as either a public or private water supply are subject to the numerical standard listed in Title 118. These numerical standards, maximum contaminant levels, are listed in Appendix F.

#### 3.3.2 Irrigation

The concentration and composition of dissolved constituents in a water determines its suitability for irrigation. According to the US Department of Agriculture's, Agricultural Handbook No. 60, four characteristics determine quality: 1) total concentration of soluble

salts; 2) relative proportion of sodium to other cations; 3) concentration of boron or other elements that may be toxic; and 4) the bicarbonate concentrations as related to the concentration of calcium plus magnesium. Table 12 summarizes the chemical quality necessary for irrigation.

**Table 12. Water Quality Suitability for Irrigation**

Constituent	Concentration	Comments
Dissolved Solids	< 500 mg/l	No adverse effects
	500-1000 mg/l	No adverse effects, if leaching or adequate drainage exists
	> 1500 mg/l	Harmful to most crops
Sodium Plus Potassium	SAR > 10	Medium to high sodium hazard, harmful to plants and soil. Sodium adsorption ratio (SAR) is a ratio of the ion concentrations of sodium, calcium and magnesium.
Sulfate	> 500 mg/l	Does not directly affect crops, contributes to high salinity
Silica		Not known to be harmful to animals or plants
Boron	> 330 µg/l	Unsafe for crops

Source: Engberg US Geological Survey and Spalding, Conservation and Survey Division, Groundwater Quality Atlas of Nebraska, Resource Atlas No. 3, 1978.

### 3.3.3 Livestock

Water is an essential nutrient for livestock production, and toxic levels of various substances in water for livestock and poultry can be deadly. Limited information is available on experimentally determined toxic levels. The National Academy of Sciences cautions applying information in the literature to practical situations. There are problems assigning toxic levels to waterborne substances and no single concentration can be accepted as dangerous in all situations. Toxic substances affect different species of animals. Table 13 presents concentrations of potentially toxic substances in drinking water for livestock and poultry. Many factors affecting toxicity make it difficult to determine harmful concentration levels in drinking water. These values are general and should not be used as guidelines for water suitability for livestock and poultry.

**Table 13. Recommended Limits of Concentration of Some Potentially Toxic Substances in Drinking Water for Livestock and Poultry**

Constituent	Safe Upper Limit of Concentration (mg/l)
Arsenic	0.2
Cadmium	0.05
Chromium	1.0
Cobalt	1.0
Copper	0.5
Fluoride	2.0
Lead	0.1
Mercury	0.01
Nickel	1.0
Nitrate-N	100.0
Nitrite-N	10.0
Salinity	1,000
Vanadium	0.1
Zinc	25.0

Source: National Academy of Sciences, Nutrients and Toxic Substances in Water for Livestock and Poultry, 1974

The National Research Council generalizes on water requirements for various animal species. Concentrations of 2% sodium chloride in water is considered toxic for dairy cattle. Also, some of the elements that cause hardness could be toxic if present in high concentrations. Sulfates and nitrates in water can be harmful to swine. Seerley, et. al (1965) considered it unlikely that sufficient nitrite would be formed and consumed in water alone to cause toxicity if the initial level of nitrate did not exceed 300 mg/l of NO<sub>3</sub>-N.

### 3.4 Needs and Data Deficiencies

The USGS has sampled or identified 92 wells for a groundwater monitoring program. Eight additional wells are needed to be identified to provide a baseline monitoring program of 100 wells. Once the baseline has been identified, sampling of the selected wells on a periodic basis can begin, to ensure that the existing conditions of the groundwater reservoir are maintained. The monitoring objective, presented in Section 7.0, may be re-evaluated to fit the problems that may arise.



#### 4.0 LAND USE AND CONTAMINATION SOURCE INVENTORY

An important element to understanding existing and/or potential sources of groundwater contamination is recognizing the interrelationship between land use and contamination sources.

#### 4.1 Land Use

The P-MRNRD covers 1,146,895 acres, in which the majority of the land is non-irrigated cropland. Table 14 summarizes the land use distribution in the District and Figure 18 shows the agricultural and urban land uses. The majority of the urban population resides in the Omaha metropolitan area. Irrigated cropland is found in the eastern portions of Dakota, Washington and Burt Counties along the Missouri River and in western portions of Douglas, Washington and Sarpy Counties bordering the Platte and Elkhorn Rivers.

**Table 14. Land Use Distribution in the P-MRNRD**

Category	Acres	Usage %
Non-Irrigated Cropland	736,700	64.2%
Irrigated Cropland:		
Sprinkler Irrigation	38,455	3.4%
Surface Irrigation	38,050	3.3%
Pasture	73,580	6.4%
Rangeland	11,430	1.0%
Forest Land	79,665	6.9%
Other Farmland	25,745	2.2%
Barren Land	5,390	0.5%
Urban	118,840	10.4%
Water	<u>19,040</u>	<u>1.7%</u>
Totals	1,146,895	100%

Source: Nebraska Natural Resource Commission, SCS, Nebraska Resource Census, 1983-84.

Tables 15 and 16 are a land use summary for portions of Douglas and Sarpy Counties. Residential lands includes single and multi family residents. Industrial areas include industrial, transportation, communications and utility facilities. Commercial land use includes retail service and non-public office buildings. Public land uses are schools,

hospitals, churches, fire/police, public and civic buildings, etc. Open spaces include golf courses, athletic fields, water and waterways, etc. Major arterial right-of-way, agricultural lands and vacant lots are included in the Other category.

**Table 15. Land Use Summary for Portions of Douglas and Sarpy Counties<sup>1</sup>, (1970 - 1990) in Acres**

	Residential	Industrial	Commercial	Public	Open Spaces	Other	Total
1970	37,870	11,200	3,820	7,800	14,280	203,490	278,460
1975	42,810	11,930	4,590	8,380	15,170	195,580	278,460
1980	47,250	12,560	5,220	8,830	16,030	188,570	278,460
1985	50,070	12,870	5,900	9,090	17,700	182,830	278,460
1990	53,860	12,840	7,060	9,280	19,180	176,240	278,460

<sup>1</sup> Includes area bounded on the east by the Missouri River, on the west by 216th Street, on the north by the Washington/Douglas County border and on the south by a line extending 10 miles south of Harrison Street and the Platte River.

Source: Metropolitan Area Planning Agency, December, 1991.

**Table 16. Land Use Summary for Portions of Douglas and Sarpy Counties<sup>1</sup>, (1970 - 1990) in Percent**

	Residential	Industrial	Commercial	Public	Open Spaces	Other
1970	14%	4%	1%	3%	5%	73%
1975	15%	4%	2%	3%	5%	70%
1980	17%	5%	2%	3%	6%	68%
1985	18%	5%	2%	3%	6%	66%
1990	19%	5%	3%	3%	7%	63%

<sup>1</sup> Includes area bounded on the east by the Missouri River, on the west by 216th Street, on the north by the Washington/Douglas County border and on the south by a line extending 10 miles south of Harrison Street and the Platte River.

Source: Metropolitan Area Planning Agency, December, 1991.

Tables 15 and 16 illustrate the classic inverse relationship between expansion of population centers and reduction of agricultural acreage. During the twenty year period the "Other" land use category registered the most significant change as shown by the 10% decrease. This is offset by the predicted increases in the remaining categories, most notably the 5% rise in residential use. The pattern for land use within the District, over the next decade, will show a continual conversion of agricultural lands to other utilities such as residential, industrial and commercial.

## **4.2 Contamination Source Inventory**

Nonpoint and point sources interact with the physical environment and have the ability to contaminate the groundwater reservoir. Identifying these sources and developing controls can reduce the threat of groundwater contamination.

### **4.2.1 Nonpoint Source Inventory**

Nonpoint sources are defined as indiscernible, diffuse and indistinct conveyance from which pollutants are or may be discharged. Nonpoint sources, which are difficult to assess quantitatively and control, include inputs from agrichemicals, storm water runoff, erosion, groundwater, and biological sources such as animal feedlots. Nonpoint source pollution has the potential to significantly impact groundwater quality. Nonpoint source problems in Nebraska include agrichemicals, soil erosion and sedimentation, livestock wastes and urban stormwater. No current data is available to quantify the pollutants from these sources.

Residential agrichemicals are applied in urbanized areas. The greatest potential for nonpoint sources lie in Douglas and Sarpy Counties, where the greatest concentration of the populous reside.

Erosion and sedimentation are natural geologic phenomena. Man's land development activities; however, have initiated severe, highly undesirable, and damaging alterations in the natural sedimentation process by accelerating the erosion/sedimentation process.

Sedimentation is a rural and urban problem. Existing NRD programs assist landowners in the implementation of conservation plans for the construction of soil and water conservation practices. These include terraces, diversions, waterways and erosion control structures to help prevent soil erosion, reduce downstream sedimentation and

control nonpoint pollution. Urban programs provide technical assistance to landowners and developers on conservation related problems, erosion, and flooding programs in urban areas.

The Nebraska Sediment and Erosion Control Act of 1986 allows landowners to petition and request the NRD to control sediment and erosion. This act applies to agricultural lands and excludes commercial, industrial and urban lands.

The Clean Water Act and its amendments have established water quality standards, discharge limitations, and permit goals for point discharge limitations, and permit goals for point discharges. The current application requirements require a permit for storm water discharge associated with construction operations that result in the disturbance of five acres of total land. An erosion and sedimentation control plan is necessary to obtain a permit. A soil erosion and sedimentation control manual has been developed by the City of Omaha and the District to assist developers in obtaining a permit for storm water associated with construction activity in the Omaha Metropolitan area.

Nonpoint sources from agricultural lands are currently unregulated. The Clean Water Act statutorily exempted agricultural storm water and irrigation return flows. Chemigation through center pivot irrigation systems are regulated through the Nebraska Chemigation Act of 1986. This Act required center pivot owners who chemigate to take necessary measures to prevent chemicals from contaminating the groundwater supply.

#### **4.2.2 Point Source Inventory**

In addition to the authority delegated to the NRDs in the GWMPA, statutory authorities in the area of groundwater quality have been assigned to the NDEQ and NDOH.

In 1971, the Nebraska Environmental Protection Act established NDEQ and entrusted it with the responsibility of protecting and improving environmental quality in the state. NDEQ monitors the land, water, and air for changes in environmental quality. They

also issue permits and periodically inspect industries engaged in activities that could affect environmental quality. Long range strategies are also developed, such as the Nebraska Groundwater Quality Protection Strategy (NGQPS).

NDEQ's current monitoring programs involve predominantly point sources (e.g. industrial and municipal discharge points and solid waste disposal sites) for compliance purposes. They do not systematically sample and/or monitor wells for groundwater quality in other areas of the District which might relate to non-point sources (e.g. pesticides and nitrogen fertilizers). The NGQPS identifies the need to monitor potential contamination sources such as:

- 1) Spills and leaks of hazardous materials from commercial storage facilities,
- 2) Agricultural chemical usage, primarily nitrogen fertilizers and pesticides,
- 3) Waste treatment and disposal areas,
- 4) Abandoned or poorly constructed wells and test holes,
- 5) Hazardous material storage, usage, and disposal at industrial facilities, and
- 6) Spills or leaks of hazardous materials along transportation corridors.

A major focus of the Federal Clear Water Act (CWA) is controlling "point source" pollution. In this Act, a "point source" is defined as "any discernible, confined and discrete conveyance, including but not limited to any pipe, ditch, channel. . .from which pollutants are or may be discharged". 33 U.S.C. Section 1362(14). This Act empowered EPA or an authorized state to conduct programs relevant to the requirements of the CWA. Within the State of Nebraska, the NDEQ administers such programs; their requirements not only overlay the federal regulatory structure, but are often more stringent. Table 17 summarizes the number of regulatory point permits issued by NDEQ and EPA for various communities in the P-MRNRD. Reports are generated to assist in the performance of environmental assessments and audits and to identify potential sources of concern, several of which are included in the Appendices.

The Resource Conservation and Recovery Act (RCRA) is a federal statute designed to protect groundwater from contamination through releases of hazardous substances. It sets up a "cradle-to-grave" system for tracking wastes from their generation, through transportation, to treatment, storage or disposal. To comply with RCRA, businesses that generate, store or transport hazardous waste are required to register their activities with the EPA. RCRIS is a list of businesses that have complied under RCRA. There are 817 RCRA registrations in the P-MRNRD. Appendix H is a copy of the RCRA notifiers list.

The Emergency Planning and Community Right-to-Know Act, or Title III, lists businesses that use, store, or release hazardous substances as part of the normal business operations. Title III was established to provide necessary information to emergency response teams when preparing for incidents involving hazardous substances and to appraise the public of any hazardous materials being used in their community. Appendix I lists Title III, Section 313, Toxic Chemical Release Inventory for the P-MRNRD.

NDEQ prepares Underground Storage Tanks (UST) lists and CERCLIS inventory reports that identify known contamination sites. UST identifies all sites with reported underground storage tanks releases, of which there are 629 sites in the P-MRNRD. CERCLIS is an acronym for the Comprehensive Environmental Response and Liability Information System. Sites have been identified as potentially contaminated with a hazardous substances, in which seventy-three CERCLIS sites in the P-MRNRD were identified in a March 1992 report. Appendix J is a listing of CERCLIS sites.

The National Pollution Discharge Elimination System (NPDES) requires all persons discharging pollutants from a point source into any waters of the state to apply and obtain a permit for this activity. State requirements for NPDES permitting are specified under Title 119-NDEQ. One hundred and forty four operations were listed as having NPDES and Nebraska Pretreatment Program (NPP) permits. Waste water treatment facilities, water treatment facilities, and sanitary improvement districts comprise the majority of the permittees. Appendix K lists the NPDES permittees.

Table 17. Summary of Point Sources by Community in the P-MRNRD

County	Community	RCRIS <sup>1</sup>	UST <sup>2</sup>	CERCLIS <sup>3</sup>	NPDES <sup>4</sup>	Haz Waste <sup>5</sup>	WWTF/WWTP <sup>6</sup>
Washington	Arlington	2	2	-	2	1	1
Sarpy	Bellevue	28	44	3	6	12	6
Douglas	Bennington	3	2	-	1	1	1
Washington	Blair	12	14	-	6	3	6
Douglas	Boys Town	-	2	-	-	-	1
Dakota	Dakota City	3	5	-	4	2	4
Burt	Decatur	-	1	-	1	-	1
Douglas	Elkhorn	10	3	-	7	5	6
Washington	Fort Calhoun	5	2	2	3	2	3
Sarpy	Gretna	4	2	-	3	-	3
Washington	Herman	1	-	-	-	-	1
Dakota	Homer	-	-	-	1	-	1
Dakota	Hubbard	-	-	1	1	-	1
Dakota	Irvington	-	5	-	-	-	-
Dakota	Jackson	-	1	1	1	-	1
Washington	Kennard	1	1	-	2	-	2
Sarpy	La Platte	3	1	-	2	2	3
Sarpy	La Vista	4	1	-	-	1	-
Burt	Lyons	3	5	-	3	-	2
Thurston	Macy	-	-	-	1	-	1
Douglas	Millard	-	-	-	1	-	1
Sarpy	Offutt AFB	2	1	-	-	1	-
Douglas	Omaha	674	488	64	60	227	42 <sup>7</sup>
Sarpy	Papillion	13	10	1	3	2	1
Douglas	Ralston	7	10	-	1	2	1
Dakota	South Sioux City	19	8	-	6	2	6
Sarpy	Springfield	3	3	-	6	-	3
Burt	Tekamah	4	6	-	2	-	1
Douglas	Valley	6	8	-	3	2	3
Thurston	Walthill	5	2	-	2	-	1
Washington	Washington	-	1	-	-	-	-
Douglas	Waterloo	4	1	1	4	1	3
Thurston	Winnebago	2	-	-	2	-	-
	Douglas Cty (SID)	-	-	-	4	-	3
	Sarpy Cty (SID)	-	-	-	5	-	5
Totals		817	629	73	144	266	114

- 1 Resource Conservation and Recovery Act, NDEQ, March 15, 1993.
- 2 Underground Storage Tanks, December 9, 1992.
- 3 Comprehensive Environmental Response, Compensation and Liability Information System.
- 4 National Pollution Discharge Elimination System, March 11, 1992.
- 5 Hazardous Waste Admin. Inventory, May 28, 1991.
- 6 Waste Water Treatment Facility or Waste Water Treatment Plant, Permit Compliance System, NDEQ, December 31, 1992.
- 7 Includes MUD Platte River WTP in Sarpy County.

The EPA report for Hazardous Waste Administrative Inventory lists 266 facilities in the P-MRNRD. Agricultural livestock facilities in the six county area total 72, of which approximately 75% of these feedlots require some type of control. Five waste facilities are also listed in the All Ag Facilities report provided in Appendix L.

NDEQ has delineated Well Head Protection Areas. These protected areas are assigned remedial action class (RAC) categories, according to Title 118. These categories form a pollution occurrence ranking scheme based on the groundwater usage. The City of Omaha has been designated as RAC-1 and requires a 500 foot radius around all private drinking water supply wells.

Solid waste facilities are licensed by NDEQ. In February, 1988, Homer was identified as having an unlicensed waste facility and scheduled for additional study. In a January 1990, Waste Recovery Section Project Inventory, the status of several solid waste facilities were outlined. The Sarpy County Landfill, located near Springfield, is a proposed municipal landfill in the permitting process; while OPPD station in North Omaha was in the planning and permitting process of demolition. This is an expansion of the present site (fly and bottom ash). Municipal landfills in the process of closing in 1990 were identified in Douglas County on State Street and Sarpy County landfill. Dumps located in Wathill and Homer were closed and verified.

Four active licensed landfills exist in the P-MRNRD. Table 18 summarizes the capacity of these facilities. Three compost operations were identified in a November 3, 1992 report. They include operations in Omaha, Bennington and Papillion. The Omaha operation handles livestock pen waste, while the other two sites handle yard waste.



**Table 18. Active Licensed Landfills in the P-MRNRD**

County	Landfill Name	Tons Disposed (1990)	Expected Life	Active (ac)	Design (ac)	Closed (ac)
Dakota	Gill, L.P.	59,000	80 - 100	13	170	8
Douglas	Waste Mgmt	480,000	18	25	90	8
Sarpy	Sarpy Co. Landfill #2	109,000	18	4	74	0
Washington	Blair Disposal Area	7,200	15 - 18	15	30	0

Source: SCS Engineers

### 4.3 Needs and Data Deficiencies

The land use data provided by the NRC databank primarily focused on agricultural lands. All urban lands were grouped together. In urbanized areas, where sources of containments may need to be further defined, a more detailed map may be necessary.

Improperly abandoned wells provide a mechanism to introduce containments into the groundwater. The Nebraska Department of Health, Title 178, Chapter 12 - Regulations Governing Water Well Construction, Pump Installation and Water Well Abandonment Standards - defines the proper procedure to abandon a well. A record of permanently discontinued wells or water wells in which the use has been accomplished is deficient. A method of identifying and locating improperly abandoned wells is needed to eliminate this passage of containments.

## 5.0 WATER USAGE AND DEMAND

This section discusses the current uses of water from all ground and surface water sources in the District. The USGS and NRC has collected and processed water data from 1990 in an attempt to estimate water use in Nebraska. Estimates have been compiled, on a county basis, for various water use categories. Results have not been published; therefore, provisional data is presented herein.

The 1990 study categorized water usage into four major uses: agricultural, municipal, domestic or industrial. Agricultural water use was segmented into cropland irrigation and livestock. The average daily and average yearly usage are presented in Table 19 from surface and groundwater sources. Table 20 presents the yearly average use for surface and groundwaters.

**Table 19. Water Usage in Burt, Dakota, Douglas, Thurston, Sarpy and Washington Counties<sup>1</sup> from All Sources, in 1990**

Type of Use	Average Daily Usage (Ac-Ft)	Average Annual Usage (Ac-Ft)
<b>Agricultural:</b>		
Cropland Irrigation	147.2	53,710
Livestock	14.8	5,390
<b>Municipal</b>	377.8	137,900
Domestic	171.6	62,630
Industrial	<u>93.8</u>	<u>34,250</u>
<b>Total Estimated</b>	<b>805.2 Ac-Ft/day</b>	<b>293,880 Ac-Ft/year</b>

<sup>1</sup> This data represents the entire six county area. The NRD includes 61% of Thurston, 56% of Burt and all of Dakota, Douglas, Sarpy and Washington Counties.

Source: U.S. Geological Survey, Nebraska Natural Resources Commission, raw data, March 1993.

Municipal use accounts for 47% of the total average annual usage from surface and groundwater sources. Agricultural and domestic use are both approximately 20% of the total average annual usage. Groundwater provided 73% of the water source in 1992. The greatest user of surface water is municipal.

**Table 20. Water Usage in Burt, Dakota, Douglas, Thurston, Sarpy and Washington Counties<sup>1</sup> by Source, in 1990**

Type of Use	Average Annual Use (Ac-Ft)	
	Surface Water	Groundwater
<b>Agricultural:</b>		
Cropland Irrigation	5,780	47,930
Livestock	580	4,810
Municipal	72,830	65,070
Domestic	--	62,630
Industrial	--	<u>34,250</u>
<b>Totals (Ac-Ft/year)</b>	<b>79,190</b>	<b>214,690</b>

<sup>1</sup> This data represents the entire six county area. The NRD includes 61% of Thurston, 56% of Burt and all of Dakota, Douglas, Sarpy and Washington Counties.

Source: U.S. Geological Survey, Nebraska Natural Resources Commission, raw data, March 1993.

Tables 21 and 22 summarize the groundwater withdrawal for municipal, domestic, industrial and commercial water uses on a county and community basis, respectively. These numbers were estimated and discrepancies in the data were not resolved.

**Table 21. Municipal Groundwater Withdrawal and Delivery for All Uses, by County<sup>1</sup>, 1990**

County	Population (1990)	Municipal Withdrawal (mgd)	Domestic Delivery		Industrial Delivery (mgd)	Commercial Delivery (mgd)	Total Domestic Industrial & Commercial (mgd)
			PWS (mgd)	RWS (mgd)			
Burt County	7,868	1.04	0.51	0.00	0.07	0.21	0.79
Dakota County	16,742	2.97	1.29	0.12	0.16	0.31	1.88
Douglas County	416,444	0.60	34.88	0.03	9.20	23.56	67.67
Thurston County	2,936	0.60	0.29	0.05	0.06	0.10	0.50
Sarpy County	102,583	51.01	4.50	0.00	0.74	1.23	6.47
Washington County	<u>16,607</u>	<u>1.88</u>	<u>0.92</u>	<u>0.03</u>	<u>0.10</u>	<u>0.32</u>	<u>1.37</u>
<b>Totals</b>	<b>563,180</b>	<b>58.10</b>	<b>42.39</b>	<b>0.23</b>	<b>10.33</b>	<b>25.73</b>	<b>78.68</b>

<sup>1</sup> This data represents the entire six county area. The NRD includes 61% of Thurston, 56% of Burt and all of Dakota, Douglas, Sarpy and Washington Counties.

PWS = Public Water System

RWS = Rural Water System

Source: U.S. Geological Survey, Nebraska Natural Resources Commission Raw Data, March, 1993.

**Table 22. Groundwater Withdrawal for All Uses, by Community, 1990**

Community	Population (1990)	Municipal Withdrawal (mgd)	Domestic PWS Delivery (mgd)	Industrial Delivery (mgd)	Commercial Delivery (mgd)	Total Domestic Industrial & Comm. (mgd)
Arlington	1,178	0.26	0.12	0.01	0.04	0.17
Bellevue <sup>1</sup>	30,982	0.00	3.10	0.66	0.69	4.45
Bennington	866	0.11	0.09	0.01	0.06	0.16
Blair	6,860	1.49	0.69	0.08	0.23	1.00
Craig	228	0.02	0.02	0.00	0.01	0.03
Dakota City	1,470	0.35	0.15	0.03	0.04	0.21
Decatur	641	0.18	0.06	0.00	0.03	0.09
Elkhorn	1,398	0.00	0.14	0.06	0.10	0.29
Emerson	791	0.17	0.08	0.01	0.02	0.10
Ft. Calhoun	648	0.00	0.06	0.00	0.02	0.09
Gretna	2,249	0.37	0.22	0.01	0.05	0.28
Herman	186	0.05	0.02	0.00	0.01	0.03
Homer	553	0.12	0.06	0.00	0.01	0.07
Hubbard	199	0.04	0.02	0.00	0.00	0.02
Jackson	230	0.03	0.02	0.00	0.01	0.03
Kennard	371	0.08	0.04	0.00	0.01	0.05
LaVista <sup>1</sup>	9,840	0.00	0.00	0.00	0.22	0.22
Lyons	1,144	0.21	0.11	0.06	0.05	0.22
Oakland	1,279	0.22	0.13	0.00	0.05	0.18
Omaha MUD	335,795	48.07	34.43	8.96	23.25	66.63
Papillion	10,378	2.25	1.04	0.06	0.23	1.33
Pender	1,208	0.26	0.12	0.05	0.04	0.21
Ralston <sup>1</sup>	6,236	0.00	0.00	0.00	0.00	0.00
Rosalie	178	0.00	0.01	0.00	0.01	0.02
South Sioux City	9,677	2.25	0.97	0.13	0.23	1.33
Springfield	1,426	0.31	0.14	0.01	0.00	0.15
Tekamah	1,852	0.40	0.19	0.00	0.07	0.26
Thurston	98	0.03	0.02	0.01	0.00	0.03
Valley	1,775	0.39	0.18	0.15	0.12	0.45
Walthill	747	0.15	0.07	0.00	0.02	0.10
Waterloo	479	0.10	0.05	0.03	0.00	0.08
Winnebago	<u>705</u>	<u>0.15</u>	<u>0.07</u>	<u>0.00</u>	<u>0.02</u>	<u>0.09</u>
Totals	425,425	58.09	42.41	10.33	25.65	78.39

<sup>1</sup> Groundwater supplied by MUD.

Source: U.S. Geological Survey, Nebraska Natural Resources Commission Raw Data, March, 1993.

Private wells provide water supply for irrigation, livestock, domestic, and industrial use; Table 23 summarizes the self-supplied ground and surface waters on a county basis. Over 50 % of the total self-supplied groundwater is used for irrigation.

**Table 23. Self-Supplied Water Usage for All Uses by County, in mgd**

County	Rural or Unincorporated Population (1990)	Irrigation			Livestock			Mining		
		GW	SW	Total	GW	SW	Total	GW	SW	Total
Burt County	2,650	17.36	1.98	19.34	0.92	0.11	1.03	0.00	0.00	0.00
Dakota County	2,340	5.09	0.10	5.19	0.31	0.05	0.36	0.00	0.00	0.00
Douglas County	68,990	6.88	0.09	6.97	0.40	0.07	0.47	0.00	5.55	5.55
Thurston County	47,810	3.95	0.24	4.19	1.11	0.10	1.21	0.00	4.02	4.02
Sarpy County	3,780	2.98	0.55	3.53	0.68	0.09	0.77	0.00	0.00	0.00
Washington County	<u>6,980</u>	<u>6.53</u>	<u>2.20</u>	<u>8.73</u>	<u>0.87</u>	<u>0.10</u>	<u>0.97</u>	<u>0.00</u>	<u>0.13</u>	<u>0.13</u>
<b>Total</b>	<b>132,550</b>	<b>42.79</b>	<b>5.16</b>	<b>47.95</b>	<b>4.29</b>	<b>0.52</b>	<b>4.81</b>	<b>0.00</b>	<b>9.70</b>	<b>9.70</b>

County	Rural or Unincorporated Population (1990)	Domestic			Industrial			Total Self-Supplied		
		GW	SW	Total	GW	SW	Total	GW	SW	Total
Burt County	2,650	0.26	0.00	0.26	0.00	0.00	0.00	18.54	2.09	20.63
Dakota County	2,340	0.23	0.00	0.23	2.51	0.00	2.51	8.14	0.15	8.29
Douglas County	68,990	6.90	0.00	6.90	1.28	0.00	1.28	15.46	5.71	21.17
Thurston County	47,810	4.78	0.00	4.78	16.44	0.00	16.44	26.28	4.36	30.64
Sarpy County	3,780	0.38	0.00	0.38	0.00	0.00	0.00	4.04	0.64	4.68
Washington County	<u>6,980</u>	<u>0.73</u>	<u>0.00</u>	<u>0.73</u>	<u>0.01</u>	<u>0.00</u>	<u>0.01</u>	<u>8.14</u>	<u>2.43</u>	<u>10.57</u>
<b>Total</b>	<b>132,550</b>	<b>13.28</b>	<b>0.00</b>	<b>13.28</b>	<b>20.24</b>	<b>0.00</b>	<b>20.24</b>	<b>80.60</b>	<b>15.38</b>	<b>95.98</b>

GW = Groundwater                      SW = Surface Water

Source: U.S. Geological Survey, Nebraska Natural Resources Commission Raw Data, March, 1993.

Groundwater provides 75% of all municipal, domestic and industrial water requirements in the District. Registration is required for municipal, irrigation and industrial wells, which are inventoried in Table 24. Figures 19 and 20 show the location of registered municipal/industrial wells and irrigation wells, respectively. Since there are no registration requirements for domestic wells, it is difficult to determine the number of domestic wells within the District.

**Table 24. Active, Registered Wells in the P-MRNRD**

County	Municipal	Irrigation	Industrial	Other	Total
Burt	7	337	0	0	344
Dakota	17	105	6	1	129
Dodge	-	2	-	-	2
Douglas	39	254	9	39	341
Sarpy	63	102	26	11	202
Thurston	5	10	0	0	15
Washington	<u>9</u>	<u>102</u>	<u>2</u>	<u>2</u>	<u>115</u>
Totals	140	912	43	53	1,148

Source: Nebraska Natural Resources Commission Data Bank, March, 1993.

### 5.1 Domestic

Domestic uses of water include human consumption, sanitation and fire protection, as well as seasonal uses for landscaping irrigation and recreation areas. The P-MRNRD is the most highly populated NRD in Nebraska. Major groundwater concerns in the District focus on individual or community wells that provide potable water for human consumption, business and industry. These concerns are magnified near population centers that rely exclusively upon their relatively inexpensive, abundant groundwater resources for future growth and development.

Domestic water usage accounted for 21% of the total average annual usage in 1990. Public and rural water systems (RWS) deliver water to the District. RWS located in Washington, Thurston and Dakota Counties purchase treated water from nearby municipal systems for resale to the rural community. Of the total rural water delivered by the District, Dakota County RWS conveys 41%, Washington County RWS 41% and the Thurston County RWS 18%. Remaining rural households in the District have private wells to supply their water needs.

Two communities, Omaha and Blair, obtain water directly from the Missouri River. MUD services the communities of Omaha, Bellevue, LaVista and Ralston. The remainder of the communities have wells to supply their water needs. According to the Nebraska Department of Water Resources, there are 140 registered municipal wells (including SIDs) in use in the District (Figure 19).

There are also situations where water from sources within the P-MRNRD is used by communities outside the jurisdictional boundaries of the District, thus supporting adjacent NRDs. The City of Fremont situated in the Lower Platte North NRD, receives approximately 30% of its water from wells located in the P-MRNRD. These wells are located along the Platte River in northwestern Douglas County.

The City of Lincoln Water System (LWS) has purchased land in the P-MRNRD to develop a well field adjacent to the Platte River in southwestern Sarpy County. It is located immediately east of their present well field north and east of Ashland in Saunders County (Lower Platte North and Lower Platte South NRDs). Projected operation of this well field is during the 1990's.

Currently, the water used by MUD comes from three sources; 50% from the Missouri River, and 50% from combined wells within the Platte River well field (38 wells), and the Millard well field (6 wells). Areas of the Platte River well field encompass both Sarpy (19 wells) and Cass (19 wells) Counties. The MUD wells in Cass County are sited on the north side of the Platte River, making them technically and legally under the authority of the Lower Platte South NRD. Regardless of the location, this resource is considered a part of the P-MRNRD groundwater reservoir.

MUD has also purchased 1,000 acres of land in southwest Douglas County and 1,000 acres of land adjacent to the Platte River in the Yutan area of Saunders County (Lower Platte North NRD) in anticipation of developing a future well field. This well field (Platte West) is scheduled to be operational around the turn of the century.

The four major municipal well fields, either in or adjacent to the District, along the Platte River are MUD (Omaha), LWS, Fremont and Papillion. While most of the recharge is induced from surface flows in the Platte River, these operations potentially place a considerable demand on the Platte Valley Region groundwater reservoir.

## **5.2 Agricultural**

The use of water in agriculture involves two main enterprises: crop production and livestock. The production of row crops accounts for the largest single use of land in the District.

### **Cropland**

Irrigated cropland involves only 9% of all cropland acres in the District. In 1990, average annual groundwater use for irrigated cropland accounted for 22% of the yearly total (Table 20). According to DWR, there are 912 registered irrigation wells in the District (Figure 20).

The majority of cropland within the District are dryland farmed and a reliance upon irrigation is less cost effective. Several factors contribute to this trend away from irrigation: 1) the prohibitively large initial investment for new irrigation systems; 2) escalating energy costs to operate new or existing systems; 3) low commodity prices (potential yield increases under irrigation may allow less than "break even" for the system and its operation); 4) less attractive tax advantages for installing a new system; 5) increased acres planted utilizing minimum tillage techniques, thereby naturally conserving soil moisture; and 6) utilization of drought tolerant plant varieties.

The principal crops grown in this area consist of various rotations of corn, soybeans, alfalfa and small grains. However, even with the relatively high water requirements of some of these crops, natural precipitation--both pre-season precipitation and during the growing



phases--is generally quantitatively adequate (25-29 inches) and sufficiently timely to preclude the need for supplemental irrigation.

In addition to the ample rainfall, a majority of soils in the District are composed of silt loam or silty clay with virtually no sandy soils present. This type of soil structure tends to retain moisture more effectively than sandier soil types and lends support to good crop growth with less precipitation.

### **Livestock**

Water is also utilized in farming operations for livestock production, with supplies drawing from both surface and groundwater sources. The Department of Water Resources estimates that 5,390 Ac-Ft were consumed by livestock in 1990 and of this, approximately 4,810 Ac-Ft is supplied from groundwater sources.

### **Subirrigation**

Subirrigation, as defined for this Plan, is irrigation below the surface by a system of underground porous pipes. The P-MRNRD has virtually no areas that are considered to be subirrigated within its boundaries. Thus, no information is presented on subirrigation uses.

## **5.3 Industrial**

Water used for industrial purposes include, but is not limited to, fertilizer processors, meat processors, cement processors and petroleum refineries. There are 43 registered industrial wells in the District. In 1990, the NRC estimated that the total amount of water used for industrial uses was 34,250 Ac-Ft from all sources.

#### **5.4 Fish and Wildlife**

The Nebraska Games and Park Commission has no confirmed records of endangered or threatened species within the P-MRNRD boundaries that could be impacted by groundwater management activities. There is however, a potential habitat for the western prairie-fringed orchid within the District. Further investigation would be necessary to determine if the orchid exists in the District. Since there is currently no documentation of the prairie-fringed orchid, the potential effects of groundwater management activities on its habitat will not be identified or addressed in this groundwater management plan.

#### **5.5 Recreation**

No information was obtained on water usage and demand for recreation.

#### **5.6 Value of Groundwater**

There is insufficient data available to estimate the value of groundwater use. However, an indication that a value does exist can be shown.

In agriculture, irrigation of crops will increase yields. For example, in 1983, the Nebraska Crop and Livestock Reporting Service data show that non-irrigated corn produced 90 bushels of corn per acre while irrigated corn produced 120 bushels per acre on the average. For soybeans, the yields were 34 bushels per acre and 40 bushels per acre, respectively. The value of these additional bushels and subsequent income can be attributed to irrigation.

However, a decrease in irrigation practices would not cause a major shift from production to less intensive land uses. The precipitation patterns within the region provide sufficient moisture available during the growing season to offset any reduction of irrigation. For example, the Cooperative Extension Service estimates that to produce the average crop

of corn (90 bushels/ac.), 24-25 inches of water is required. This water could come from precipitation, stored subsoil moisture and/or irrigation. Since the District receives, on the average, 22 inches of precipitation during the spring and summer months, extensive irrigation development may be only marginally feasible from an economic standpoint.

Placing a dollar value on groundwater supplies for domestic or municipal usage is extremely difficult. If, however, a public or private water system is threatened either by quality or quantity problems, resolutions may be very costly. Extenuating circumstances pertinent to individual situations exist that may allow a multitude of solutions, e.g.--individuals or communities with either poor quality or unreliable quantity might obtain a better water supply from an adjoining community or rural water supply project at minimal cost to the individual user. A relatively expensive well drilling, water treatment plant, water hauling, etc. solution could be the scenario in a different situation.

It may be less expensive to develop and operate a regional system with one source serving several communities rather than each community maintaining its own system. Regional systems are preferred in the District and should be promoted whenever possible.

These two extremes suggest the futility of attempting to place a value on dependable supply of good quality water for individuals, business and industry. The task to define such an intangible figure or value, with any degree of validity, must be handled on a case by case basis. Even so, varying results are virtually endless--affected by degrees of quality and/or water loss and a multitude of differing circumstances--as to render conclusions at best inaccurate.

In the municipal-domestic and industrial categories, the major portion of the water used comes from surface water, i.e., the Missouri River. Those municipalities which utilize groundwater as the source could convert to another source if the existing source becomes unusable. The cost of conversion from one source to another could be used to estimate the value. It is beyond the scope of this plan to estimate the conversion cost from one source

of water to another, mainly because each municipality or industry would present a different set of circumstances requiring differing solutions.

#### **5.7 Needs and Data Deficiencies**

The USGS has estimated the amount of water from ground and surface water sources in the United States every 5 years since 1950. In 1990 the NRC and USGS estimated water uses categories. All the data requirements were not available and estimates were made on information from other sources. Preliminary data was used for this Section 5.0. The USGS was responsible for the preparations of the final report which is to be published at a later date. Tabular revisions may be necessary to reflect changes between final and preliminary data.

## **6.0 IDENTIFICATION OF CRITICAL AREAS FOR PROTECTION**

The P-MRNRD has not identified any critical areas for protection.

## **7.0 GROUNDWATER QUALITY GOALS AND OBJECTIVES**

### **7.1 Policy**

#### **Groundwater Reservoir Life Goal and Management**

The District's goal is to maintain the existing conditions of its groundwater reservoir quantity and quality--forever. This "in-perpetuity" quality and quantity life goal applies to the entire P-MRNRD.

#### **Controls and Other Programs**

The P-MRNRD believes that its policy goals and objectives can be achieved without designating either a management or control area at this time. Relevant quantity issues, as demonstrated in Sections 1 through 6, are generally not applicable to this area. Similarly, it would be premature to suggest considering a management, control, or special protection areas based upon quality issues prior to determining if a quality problem exists or is likely to exist.

It should be noted that if rules and regulations were adopted for a management, control or special protection areas, they could be difficult, if not impossible to enforce for the Federally controlled (Bureau of Indian Affairs) Trust Land. Trust Land in the District currently totals over 50,000 acres and essentially all of it is within Thurston County.

#### **Water Conservation**

Quantity is not now, nor is it anticipated to be a major concern of the District in the foreseeable future. Conservation techniques currently utilized in the District are more in the form of emergency measures during periods of dry weather. For example, a municipal

supplier may request that citizens refrain from watering their lawns for a short period of time to help meet peak demands for other uses.

Water used in the District comes from either surface or groundwater sources, with groundwater supplying the greatest amount. The predominant use of water is for municipal/domestic purposes. This situation is expected to continue into the future as more land is converted to urban uses and as population rises.

According to available data, the groundwater reservoir has sufficient quantity to meet the demands placed on it. Previous discussion in Section 5.0 indicated that there probably won't be a dramatic increase in irrigation development in the District. Municipal/domestic uses are expected to increase in the future, however, large quantities of water could be obtained from wells in the Platte Valley Area, or from surface water in the Missouri River.

Surface water from the Missouri River supplies approximately 36% of the water used for municipal/domestic purposes in the District. The 1990 annual withdrawal of 72,830 Ac-Ft. (Table 20) from the Missouri River is approximately equal to only 0.3% of annual average flow in the river at Omaha (Table 4: 23,180,000 Ac-Ft/year). This represents a vast source of surface water available to the District which could be used to supplement and/or replace existing systems should they no longer have sufficient supplies.

Therefore, it appears that the available supply of water, both surface and groundwater, is sufficient to meet the usage demands for the future. It is understood that the District's current static water level monitoring program displays seasonal fluctuations in wells that are directly related to relatively short term, localized precipitation events, or droughts, rather than irrigation usage. These fluctuations are not considered to be symptoms of long term aquifer degradation and are expected to continue. Efforts to monitor groundwater quantities should be continued.

The District is actively engaged in promoting water and other conservation practices through ongoing educational programs and projects. The P-MRNRD will also continue to support pertinent research proposals from individuals or agencies.

### **Conjunctive Use and Supply Augmentation**

Policy governing the conjunctive use of surface water and groundwater has not been developed by the P-MRNRD. Irrigation, as previously emphasized, utilizing either surface or groundwater resources, is not considered a major factor in the future development of a management plan for this District's water resources.

The District will continue to lend its full support to all feasible rural water supply projects within our boundaries. Excepting rural water systems(s), the P-MRNRD feels that its policy goals and objectives can be achieved without developing conjunctive management, water conservation measures, or other supply augmentation programs at this time.

### **Groundwater Quality**

Groundwater quality issues will continue to be the focus of this groundwater management plan, not because of known quality problems, but of potential, unknown ones.

The District recognizes that a groundwater quality problem exists in domestic wells in isolated areas in the NRD. Although the data indicate poor well construction and/or location to be the major contributing factors, these point-source problems may be indicators of potentially more widespread quality problems.

As presented earlier, the potential for contamination of the groundwater is high, due to the concentration of industries, including agriculture, utilizing or producing potentially hazardous materials. Since neither DEQ or the health departments systematically monitor groundwater in the District, there appears to be a need for such monitoring activities.



The District has established its policy goal of maintaining its present groundwater quality in perpetuity. However, this rather ambitious groundwater life goal is based upon limited groundwater data for eastern Nebraska. To state that the District will maintain its groundwater reservoir quality forever, without knowing its current status may be considered unwise. However, if quality problems are evidenced, the District will work towards achieving quality levels that are acceptable and maintain these levels indefinitely.

## **7.2 Groundwater Management Objectives**

The following groundwater management objectives are intended to achieve the reservoir life goal.

### Objective 1: Maintain the District's static water level monitoring program.

In order to detect evidence of "mining" of groundwater, wells will need to be measured over a long period of time. This District program has been in effect for fourteen years, however, only a small number of wells have been monitored. Some of the wells mentioned in Objective 2 will be included in this program to widen the database. Currently, measurements are taken in the spring and fall by District personnel and will continue.

### Objective 2: Establish a District-wide groundwater quality monitoring program.

As described in Section 3.0 of this Plan, a groundwater quality monitoring program is being established for the entire District. The initial sampling effort in 1992 was accomplished under contract with the U.S. Geological Survey. During 1992, samples from 61 wells were collected and analyzed (results are shown in Appendix F). This monitoring effort will be expanded to 100 wells as proposed by USGS by 1994. Samples will be collected and analyzed for all 100 wells on a four year cycle, or 25 wells per year.

Groundwater quality is also monitored by the NDEQ in areas of potential point sources and in areas of known contamination. The County Health Department's and NDOH currently monitor water for human consumption. In many cases, routine testing of municipal systems detects contamination which warrants further investigation. These efforts of NDEQ and NDOH are expected to continue.

A relatively high percentage of well water samples tested through the County Cooperative Extension's voluntary program showed contaminant levels exceeding present water quality standards. However, the exact location of these wells are not provided and the sampling methods may be in question. An effort will be made to obtain this data in a usable format and incorporated into the water quality data inventory.

Objective 3: Administer the Nebraska Chemigation Act in the District.

This program was established in 1986. Irrigators who apply fertilizers or pesticides through center pivot irrigation systems must have measures in place to prevent those chemicals from contaminating the groundwater supply. District personnel inspect these systems and issue permits certifying that these backflow prevention devices are in place and functional.

Objective 4: Encourage, through information and education activities, conservation of water and quantity and quality.

Although the data does not document a water quantity or quality problem, the wise use of water should be promoted in all activities. Urban users and agricultural irrigators need to be encouraged to employ best management in their use of water. Industries, agencies and residents of the District would also be educated about methods to prevent groundwater contamination.

Existing information and education programs will continue to be targeted towards this objective. This includes the District's newsletter, public service announcements, and brochures.

Objective 5: Establish management, control or special protection areas in the District to address specific problems of groundwater quantity or quality, should the data collected indicate that the reservoir life goal cannot be met.

The District has determined that the best way to handle water quantity problems is through a management or control area through authorities granted by the GWMPA. The District does not propose to establish a management or control area at this time since there has not been a demonstrated need to solve a quantity problem.

Establishment procedures are specific in GWMPA and the need must be documented by scientific data. The foregoing objectives will help supply the necessary documentation. The Papio-Missouri River NRD Board of Directors will decide whether or not to establish these areas on an individual basis.

To handle a quality problem, the District has determined that a special protection area is the best solution. The establishment of a SPA is not proposed at the present time, however.

Under procedures included in the GWMPA, the District will cooperate with NDEQ in the determination of need and establishment of SPAs in the District.

The stated policy of maintaining existing conditions demands a high degree of accuracy when monitoring change in the groundwater quality as well as the establishment of flexible action plans to address problems should they occur. The key to sustaining the current groundwater conditions is to develop a plan which is focused on the early detection of any deterioration to this resource.

The program developed for the management of this resource is based on a three phase approach: 1) Periodic Sampling Program; 2) Monitoring and Evaluation Program; and 3) Education Program, collective and individual. The purpose of these phases is to establish a database from which to detect change, develop procedures for the identification and subsequent evaluation of threatening conditions, and to establish a preliminary series of action steps to mitigate these problems.

A flow chart depicting the procedures in establishing a SPA area is shown in Figure 21.

If results from the sampling program indicate a change in conditions, the extent and severity of the problem would be immediately evaluated. If the condition is found to be minor or localized, it would trigger an education process and more intensive monitoring. If found to be of a large magnitude with respect to either contaminant levels or area impacted, a more intensive set of actions would be triggered. These actions would include a public education and information program specific to the issue, and the development of a problem specific Action Plan, as well as the implementation of Best Management Practices (BMP's) to mitigate the problem. The creation of a SPA would be required if a significant water quality trigger is reached. Initially this trigger is set to be half the Title 118 standard, which is currently 5 mg/l nitrate-nitrogen.

In all cases, the identification of a change in groundwater conditions will result in more intensive monitoring, evaluation and education.

Objective 6: Continue to evaluate requests (petitions) from rural landowners for a more adequate and dependable water supply.

The District's Improvement Project Area authorities can be utilized to install and operate rural water systems in Nebraska. The Papio-Missouri River NRD Board of

Directors will continue to respond to petitions from rural groups needing a dependable, high quality water supply.

Objective 7: Cooperate with other NRDs in the management of contiguous portions of the groundwater reservoir.

The District borders on the Lewis & Clark, Lower Elkhorn, Lower Platte North and Lower Platte South NRD's. Portions of the groundwater reservoir are contiguous with these NRDs. Management activities will be coordinated as needed.




Objective 8: Establish a well abandonment cost sharing program in the District

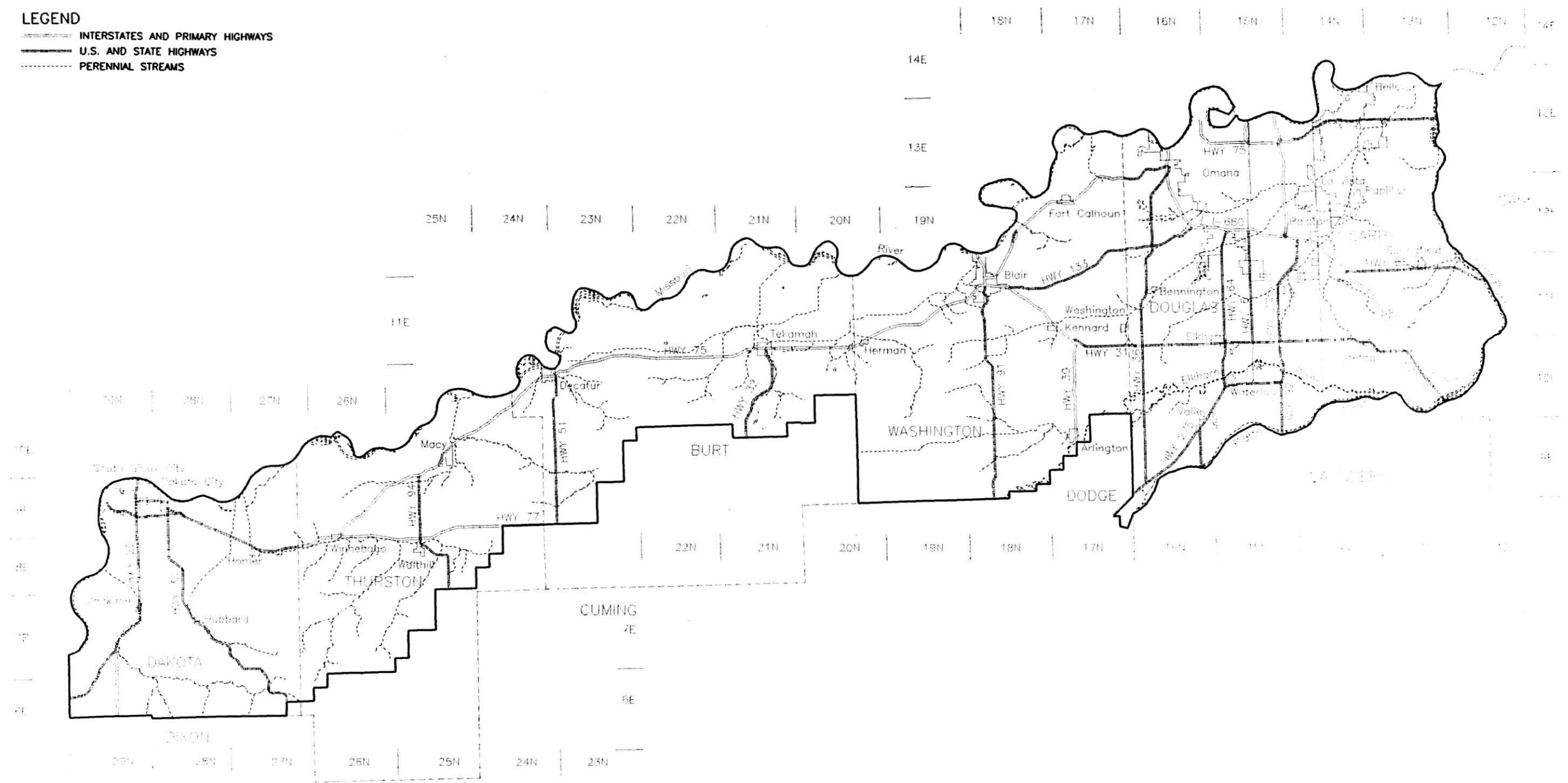
Abandoned wells that are not properly sealed provide a direct conduit to the groundwater reservoir for a wide variety of potential contaminants. This program will encourage landowners to follow accepted procedures to abandon a well.

Objective 9: Encourage development of regional water supplies in the District

Federal drinking water standards have been adopted that have become more strict in recent years and probably will become more so in the future. Smaller communities in the District may be forced to replace their treatments facilities to meet these new standards. It may be less expensive to develop a regional system with one treatment plant serving several communities rather than each community maintaining its own system. The District, under its rural water authorities, could operate the combined systems. The Nebraska state agencies providing oversight of public water systems should also promote regional systems whenever possible.

**LEGEND**

-  INTERSTATES AND PRIMARY HIGHWAYS
-  U.S. AND STATE HIGHWAYS
-  PERENNIAL STREAMS



SCALE 1:500,000



Information Source:  
 Base Map Raw Data Provided by - Nebraska Natural Resources Commission, April 1993.  
 Topographic Date - TIGER Files, U.S. Bureau of the Census, 1990.



**LOCATION MAP**  
 Groundwater Management Plan

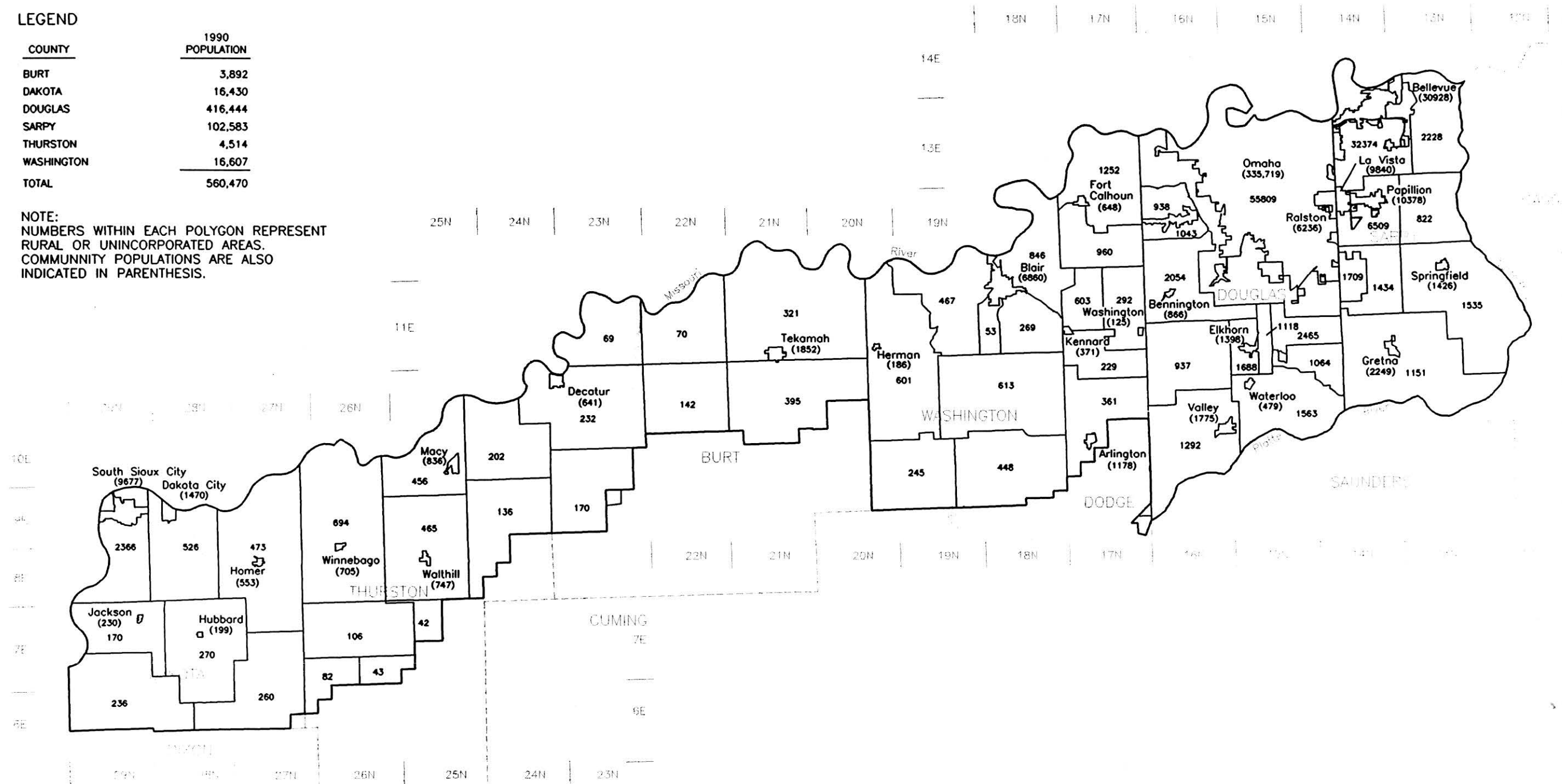
Date	JUNE 1993
Figure	1

BASEMAP

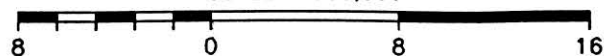
**LEGEND**

COUNTY	1990 POPULATION
BURT	3,892
DAKOTA	16,430
DOUGLAS	416,444
SARPY	102,583
THURSTON	4,514
WASHINGTON	16,607
<b>TOTAL</b>	<b>560,470</b>

NOTE:  
NUMBERS WITHIN EACH POLYGON REPRESENT  
RURAL OR UNINCORPORATED AREAS.  
COMMUNITY POPULATIONS ARE ALSO  
INDICATED IN PARENTHESIS.



SCALE 1:500,000



Information Source:  
Base Map Raw Data Provided by - Nebraska Natural Resources Commission, April 1993.  
Topographic Date - TIGER Files, U.S. Bureau of the Census, 1990.  
Population Data - Bureau of Census, PL 94-171 File.



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**POPULATION DISTRIBUTION**







Groundwater Management Plan

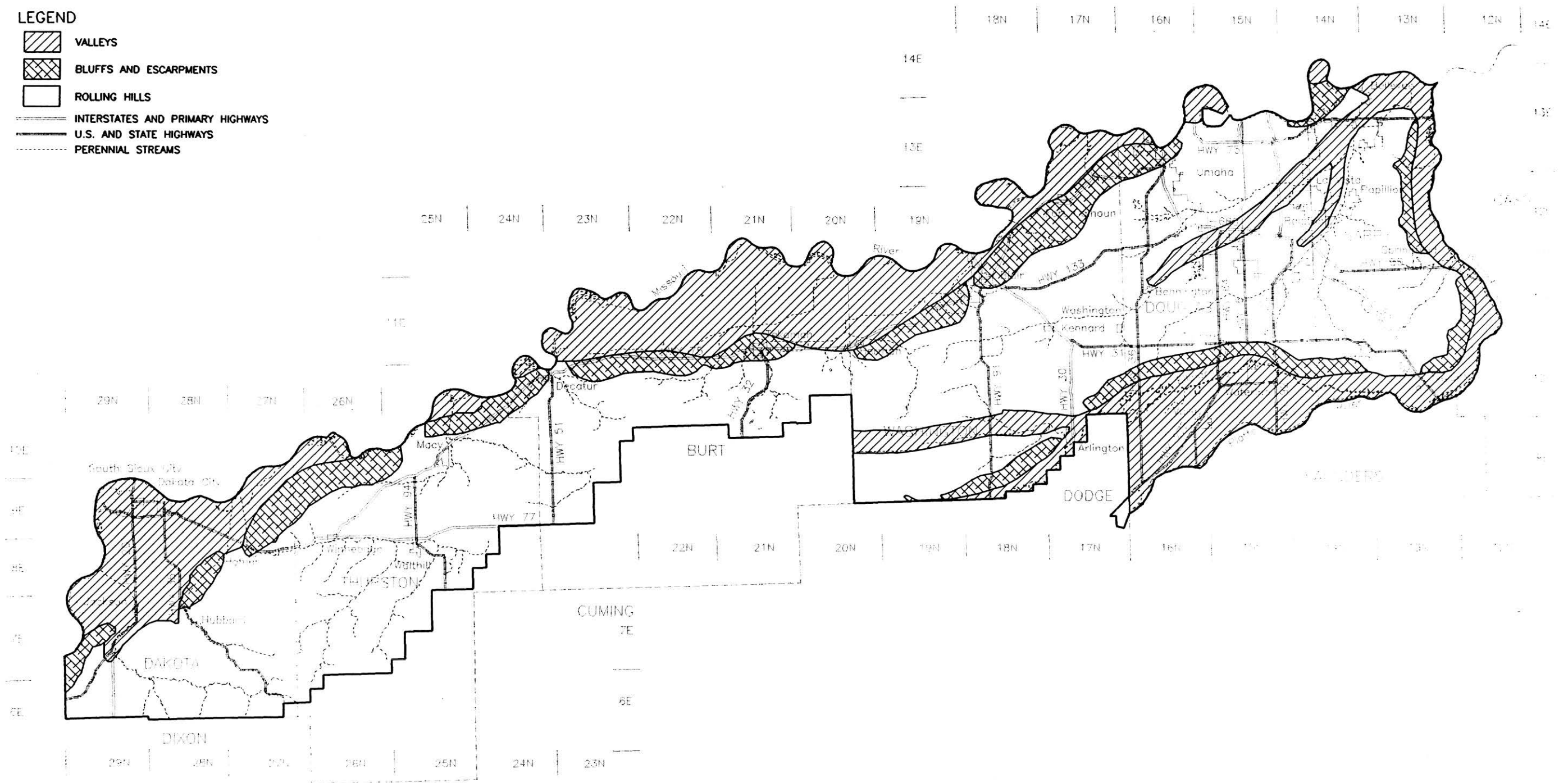
Date  
JUNE 1993

Figure

2

**LEGEND**

-  VALLEYS
-  BLUFFS AND ESCARPMENTS
-  ROLLING HILLS
-  INTERSTATES AND PRIMARY HIGHWAYS
-  U.S. AND STATE HIGHWAYS
-  PERENNIAL STREAMS



SCALE 1:500,000



Information Source:  
 Base Map Raw Data Provided by - Nebraska Natural Resources Commission, April 1993.  
 Topographic Date - TIGER Files, U.S. Bureau of the Census, 1990.  
 Region Data - Conservation and Survey Division, 1986, The Groundwater Atlas of Nebraska.



**TOPOGRAPHIC REGIONS**  
 Groundwater Management Plan

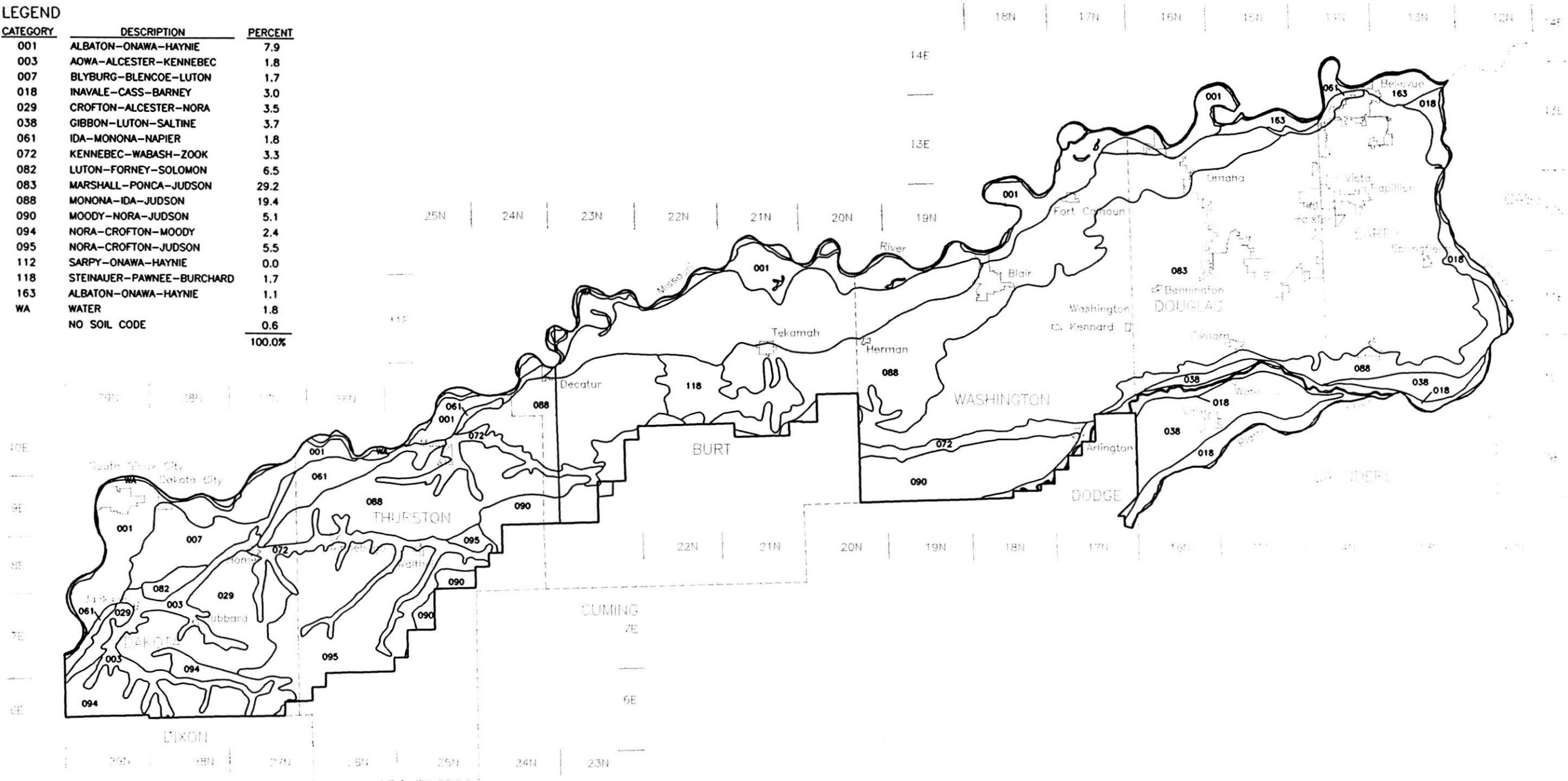
Date	JUNE 1993
Figure	3

TOPOREGN

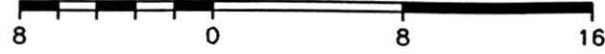


**LEGEND**

CATEGORY	DESCRIPTION	PERCENT
001	ALBATON-ONAWA-HAYNIE	7.9
003	AOWA-ALCESTER-KENNEBEC	1.8
007	BLYBURG-BLENCOE-LUTON	1.7
018	INVALE-CASS-BARNEY	3.0
029	CROFTON-ALCESTER-NORA	3.5
038	GIBBON-LUTON-SALTINE	3.7
061	IDA-MONONA-NAPIER	1.8
072	KENNEBEC-WABASH-ZOOK	3.3
082	LUTON-FORNEY-SOLOMON	6.5
083	MARSHALL-PONCA-JUDSON	29.2
088	MONONA-IDA-JUDSON	19.4
090	MOODY-NORA-JUDSON	5.1
094	NORA-CROFTON-MOODY	2.4
095	NORA-CROFTON-JUDSON	5.5
112	SARPY-ONAWA-HAYNIE	0.0
118	STEINAUER-PAWNEE-BURCHARD	1.7
163	ALBATON-ONAWA-HAYNIE	1.1
WA	WATER	1.8
	NO SOIL CODE	0.6
		<b>100.0%</b>



SCALE 1:500,000



Information Source:  
 Base Map Raw Data Provided by - Nebraska Natural Resources Commission, April 1993.  
 Topographic Date - TIGER Files, U.S. Bureau of the Census, 1990.  
 STATSGO Soils Data - SCS, Nebraska Resources Census, July 1991.





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**GENERAL SOILS**  
 Groundwater Management Plan

Date  
**JUNE 1993**  
 Figure  
**4**

SOILS

**LEGEND**

-  GROUNDWATER RESERVOIR  
ABSENT OR VERY THIN
-  1000 — BASE-OF-RESERVOIR CONTOUR  
CONTOUR INTERVAL 100 FEET
- DATUM IS MEAN SEA LEVEL



SCALE 1:500,000



Information Source:  
 Base Map Raw Data Provided by - Nebraska Natural Resources Commission, April 1993.  
 Topographic Date - TIGER Files, U.S. Bureau of the Census, 1990.  
 Primary Data - U.S. Geological Survey, March 1993.



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**BASE OF PRINCIPAL  
 GROUNDWATER  
 RESERVOIR**  
 Groundwater Management Plan

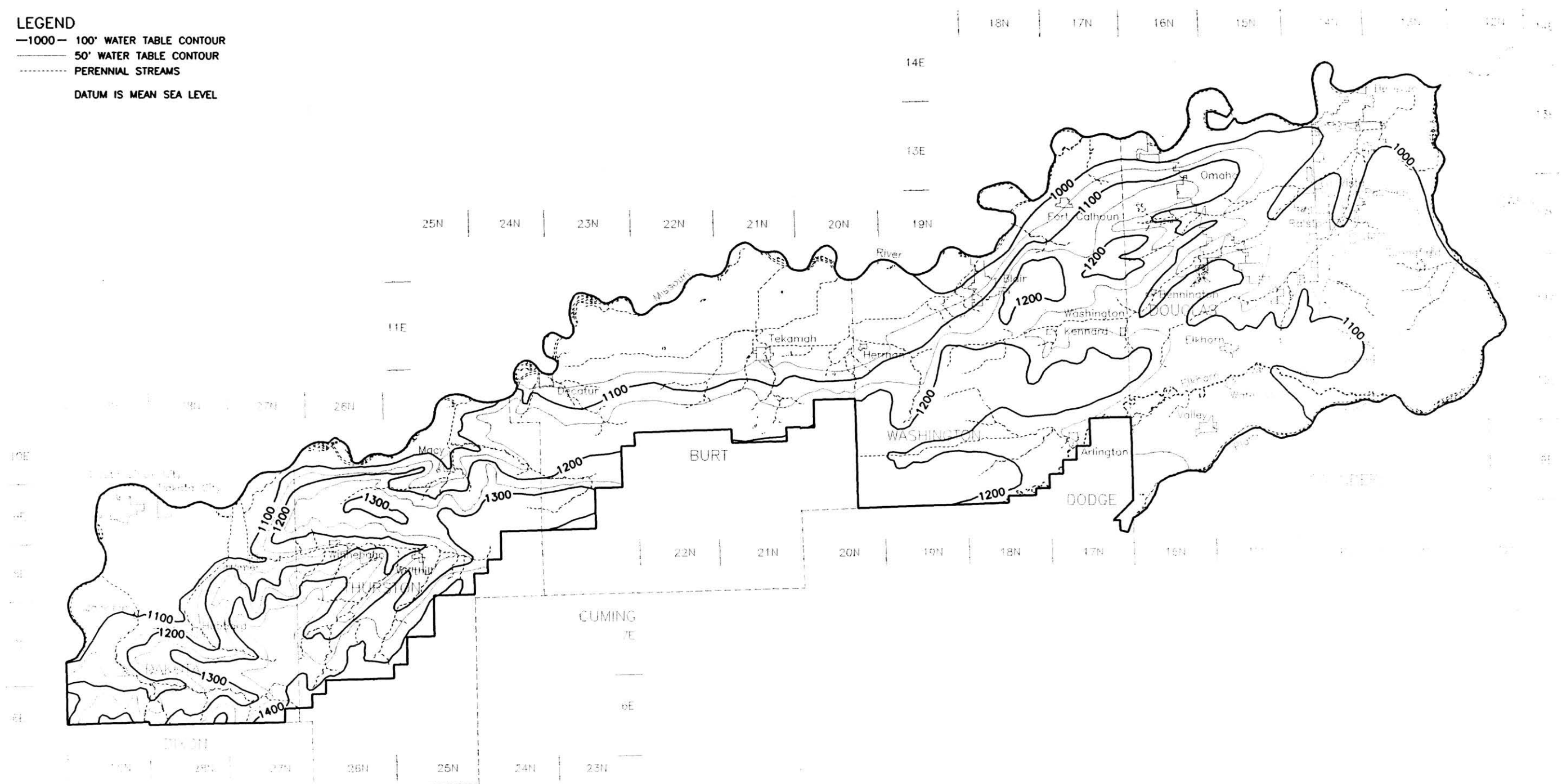
Date  
 JUNE 1993

Figure  
 5

GRWATRES

**LEGEND**

- 1000— 100' WATER TABLE CONTOUR
- 50' WATER TABLE CONTOUR
- - - - PERENNIAL STREAMS
- DATUM IS MEAN SEA LEVEL



SCALE 1:500,000



Information Source:  
 Base Map Raw Data Provided by - Nebraska Natural Resources Commission, April 1993.  
 Topographic Date - TIGER Files, U.S. Bureau of the Census, 1990.  
 WTE Data - Conservation and Survey Division, Institute of Agriculture and Natural Resources  
 and The University of Nebraska - Lincoln, 1980.



**WATER TABLE  
 ELEVATIONS,  
 SPRING 1979**  
 Groundwater Management Plan

Date	JUNE 1993
Figure	6

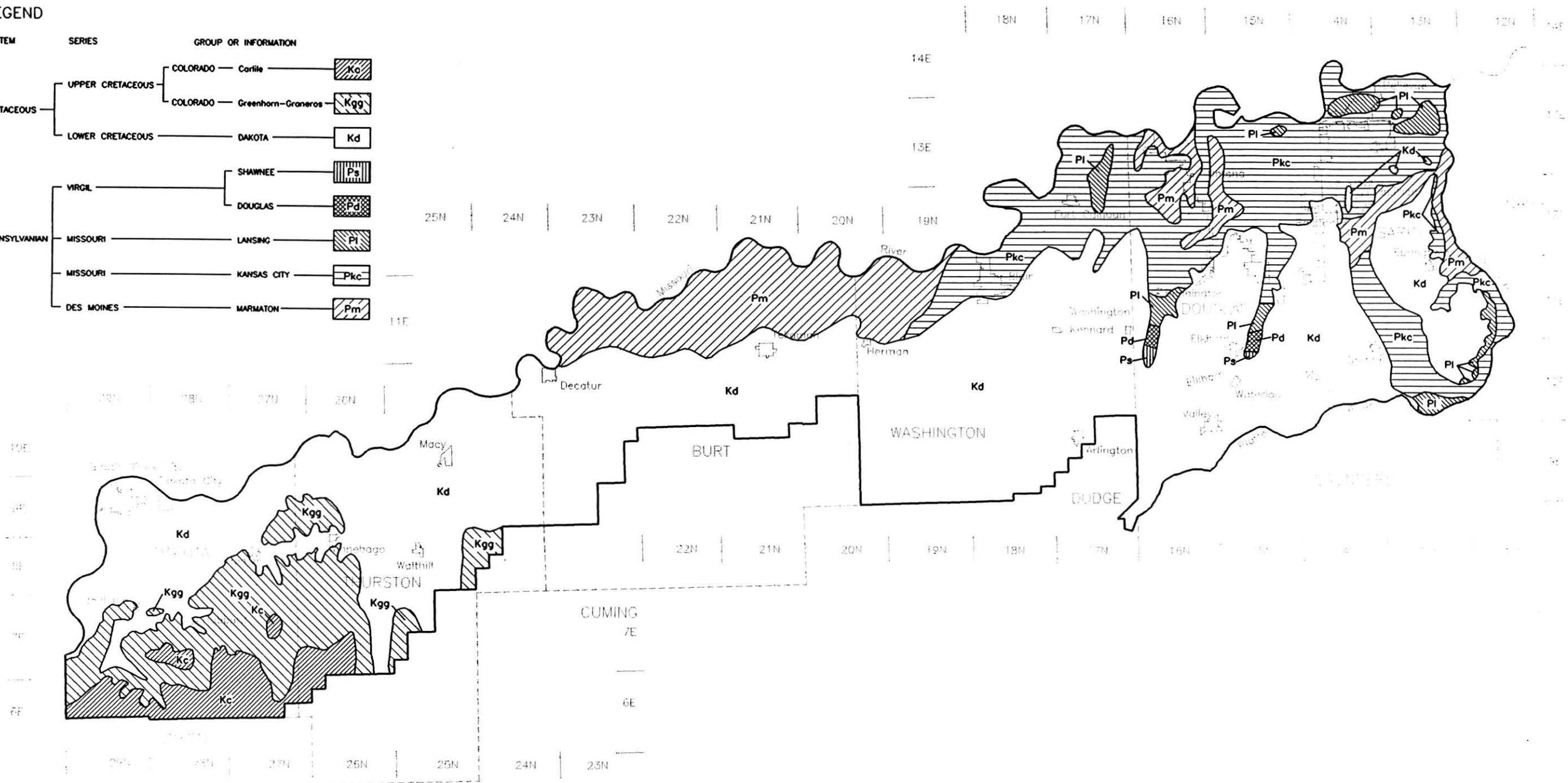
WATTABEL





**LEGEND**

SYSTEM	SERIES	GROUP OR INFORMATION	Symbol
CRETACEOUS	UPPER CRETACEOUS	COLORADO - Carlile	Kc
		COLORADO - Greenhorn-Graneros	Kgg
	LOWER CRETACEOUS	DAKOTA	Kd
PENNSYLVANIAN	VIRGIL	SHAWNEE	Ps
		DOUGLAS	Pd
	MISSOURI	LANING	Pl
		KANSAS CITY	Pkc
	DES MOINES	MARMATON	Pm



SCALE 1:500,000



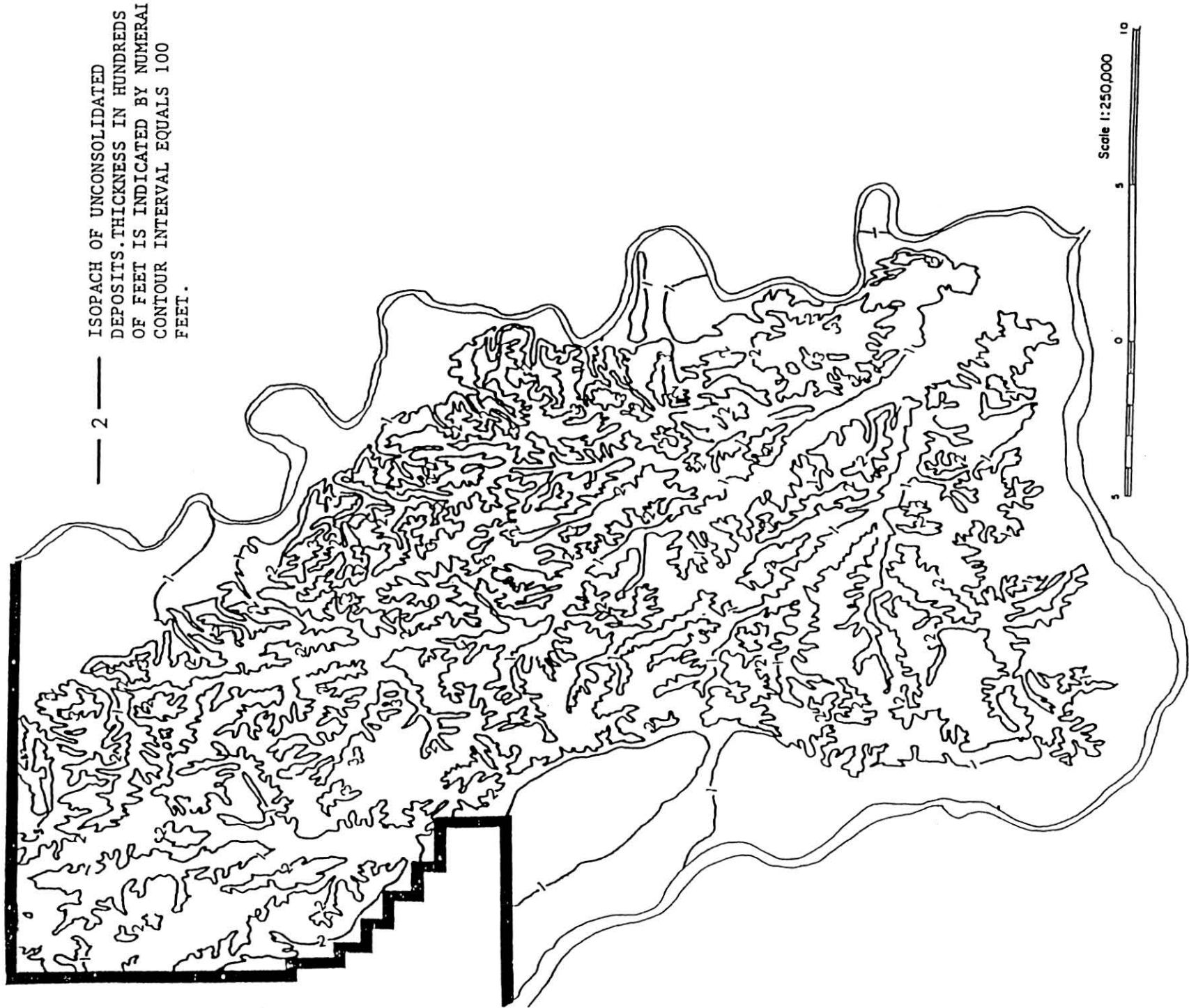
Information Source:  
 Base Map Raw Data Provided by - Nebraska Natural Resources Commission, April 1993.  
 Topographic Date - TIGER Files, U.S. Bureau of the Census, 1990.  
 Primary Data - Nebraska Geological Survey, 1969, *Geological Bedrock of Nebraska*.



**GEOLOGICAL BEDROCK**  
 Groundwater Management Plan

Date  
 JUNE 1993







Figure  
 8

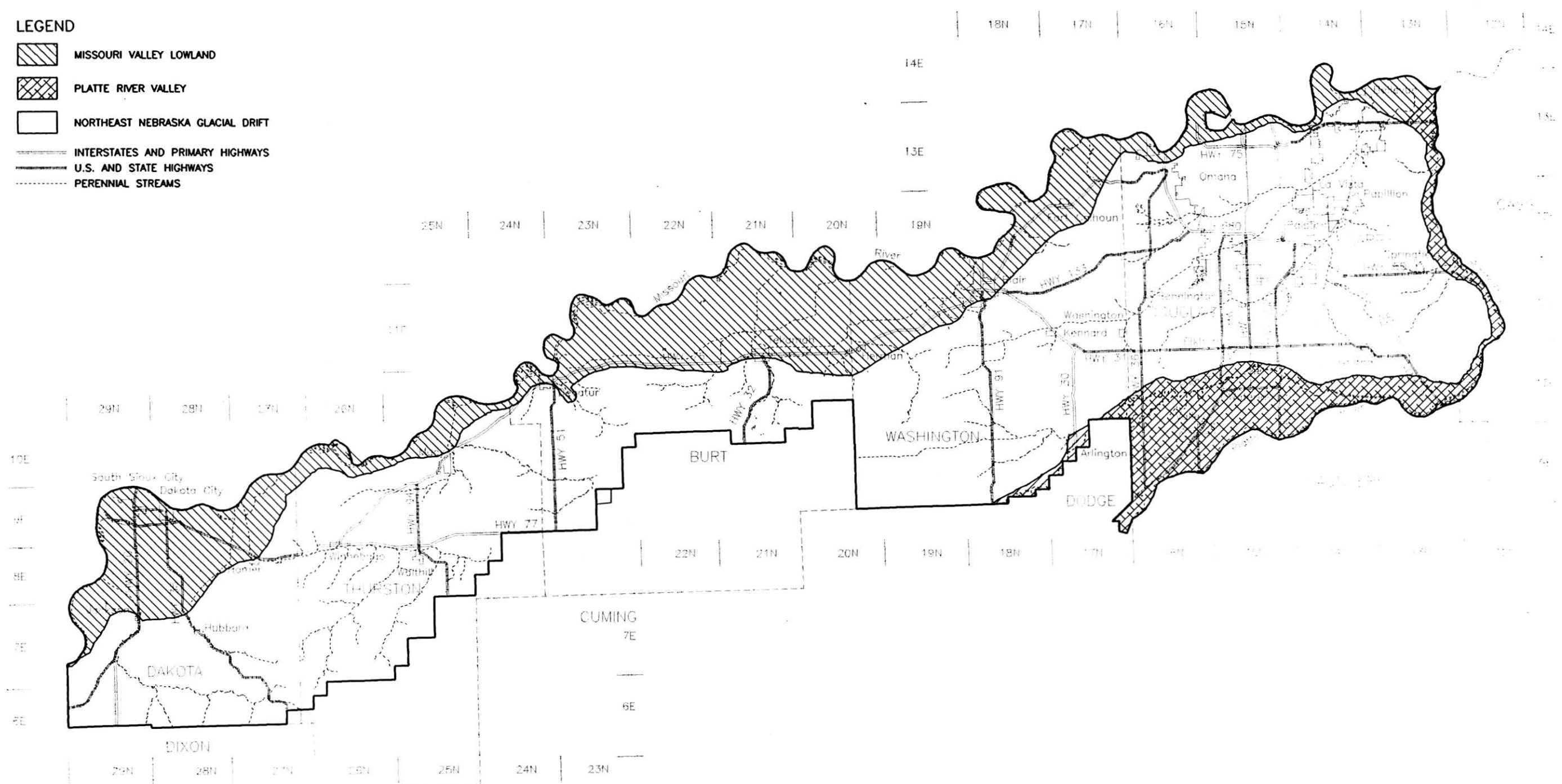


**THICKNESS OF QUATERNARY  
DEPOSITS IN THE SOUTHERN  
THREE COUNTIES**  
Groundwater Management Plan

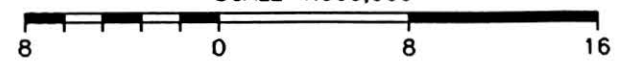
Date  
JUNE 1993  
Figure  
9

**LEGEND**

-  MISSOURI VALLEY LOWLAND
-  PLATTE RIVER VALLEY
-  NORTHEAST NEBRASKA GLACIAL DRIFT
-  INTERSTATES AND PRIMARY HIGHWAYS
-  U.S. AND STATE HIGHWAYS
-  PERENNIAL STREAMS



SCALE 1:500,000



Information Source:  
 Base Map Raw Data Provided by - Nebraska Natural Resources Commission, April 1993.  
 Topographic Date - TIGER Files, U.S. Bureau of the Census, 1990.  
 Region Data - Conservation and Survey Division, 1986, *The Groundwater Atlas of Nebraska*.









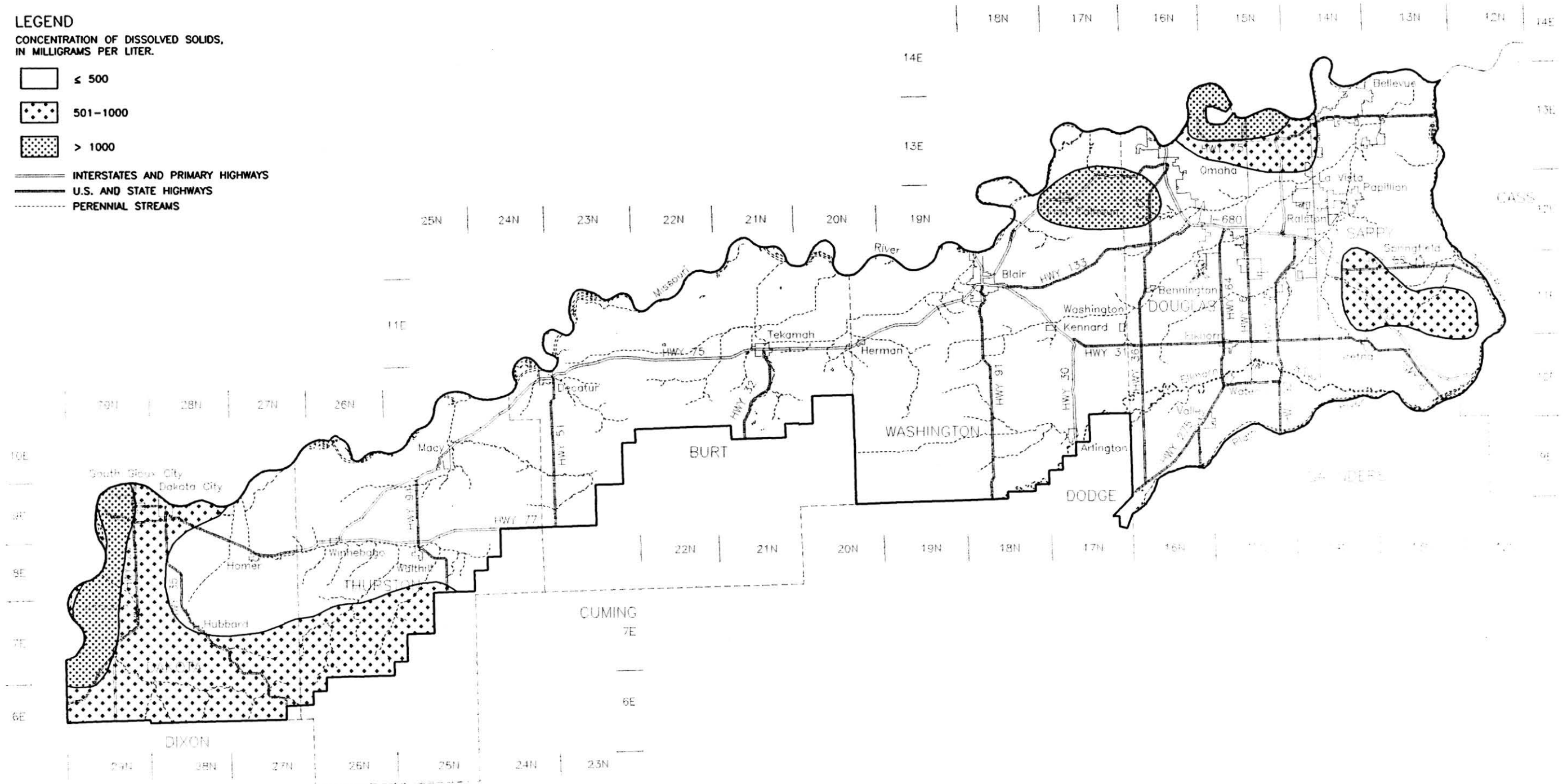
**GROUNDWATER REGIONS**  
 Groundwater Management Plan

Date  
 JUNE 1993  
 Figure  
 10

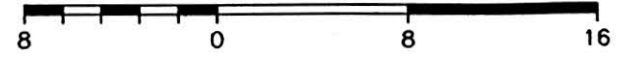
**LEGEND**

CONCENTRATION OF DISSOLVED SOLIDS,  
IN MILLIGRAMS PER LITER.

-  ≤ 500
-  501-1000
-  > 1000
-  INTERSTATES AND PRIMARY HIGHWAYS
-  U.S. AND STATE HIGHWAYS
-  PERENNIAL STREAMS



SCALE 1:500,000



Information Source:  
 Base Map Raw Data Provided by - Nebraska Natural Resources Commission, April 1993.  
 Topographic Date - TIGER Files, U.S. Bureau of the Census, 1990.  
 TDS Data - Department of Environmental Control, State of Nebraska  
 and Conservation and Survey Division, 1980.






**TOTAL DISSOLVED  
 SOLIDS  
 CONCENTRATIONS**  
 Groundwater Management Plan

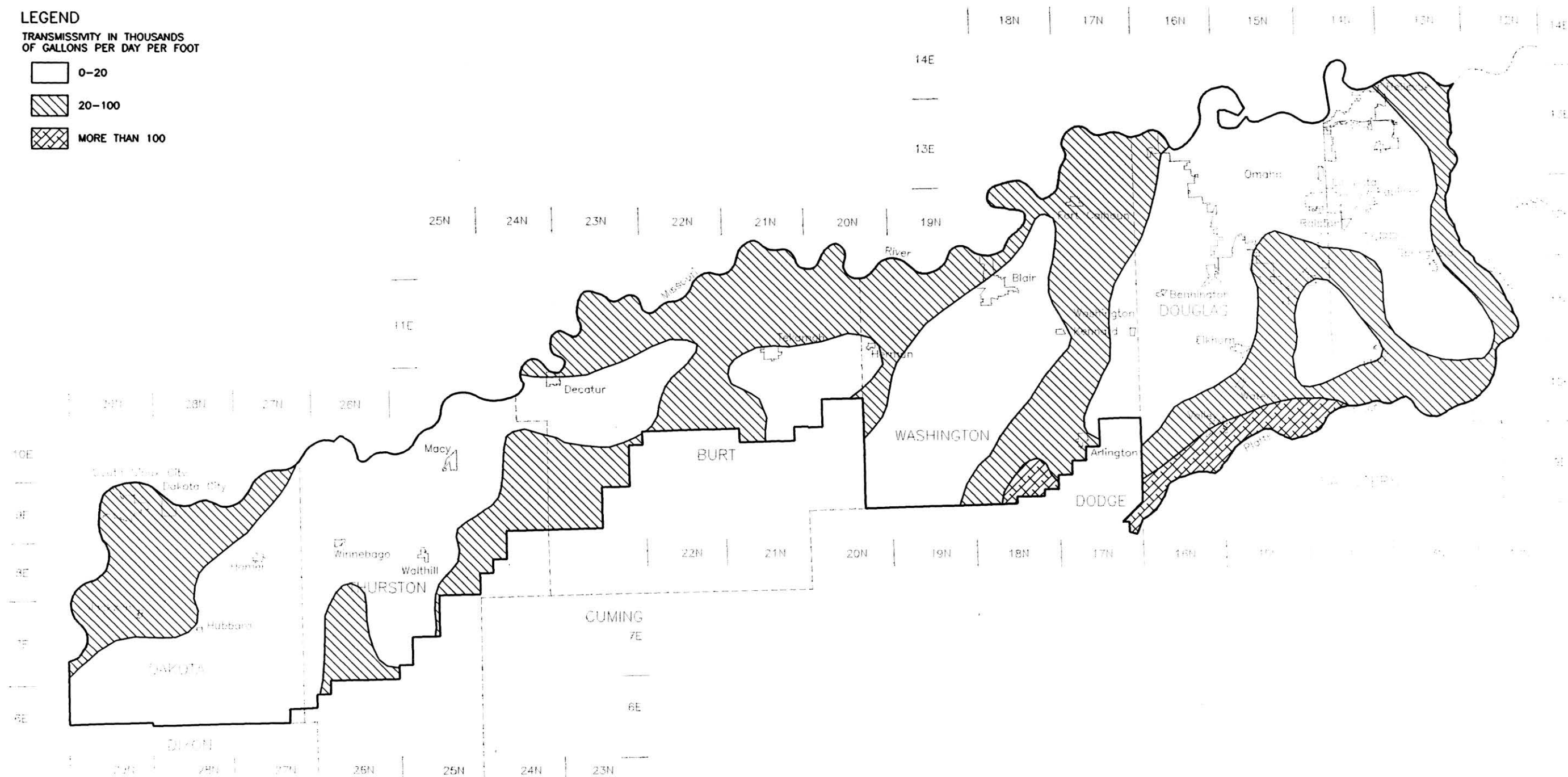
Date	JUNE 1993
Figure	11



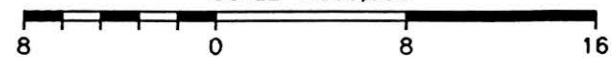
**LEGEND**

TRANSMISSIVITY IN THOUSANDS OF GALLONS PER DAY PER FOOT

-  0-20
-  20-100
-  MORE THAN 100



SCALE 1:500,000



Information Source:  
 Base Map Raw Data Provided by - Nebraska Natural Resources Commission, April 1993.  
 Topographic Data - TIGER Files, U.S. Bureau of the Census, 1990.  
 Primary Data - Conservation and Survey Division, 1986, *The Groundwater Atlas of Nebraska*.



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

**TRANSMISSIVITY**

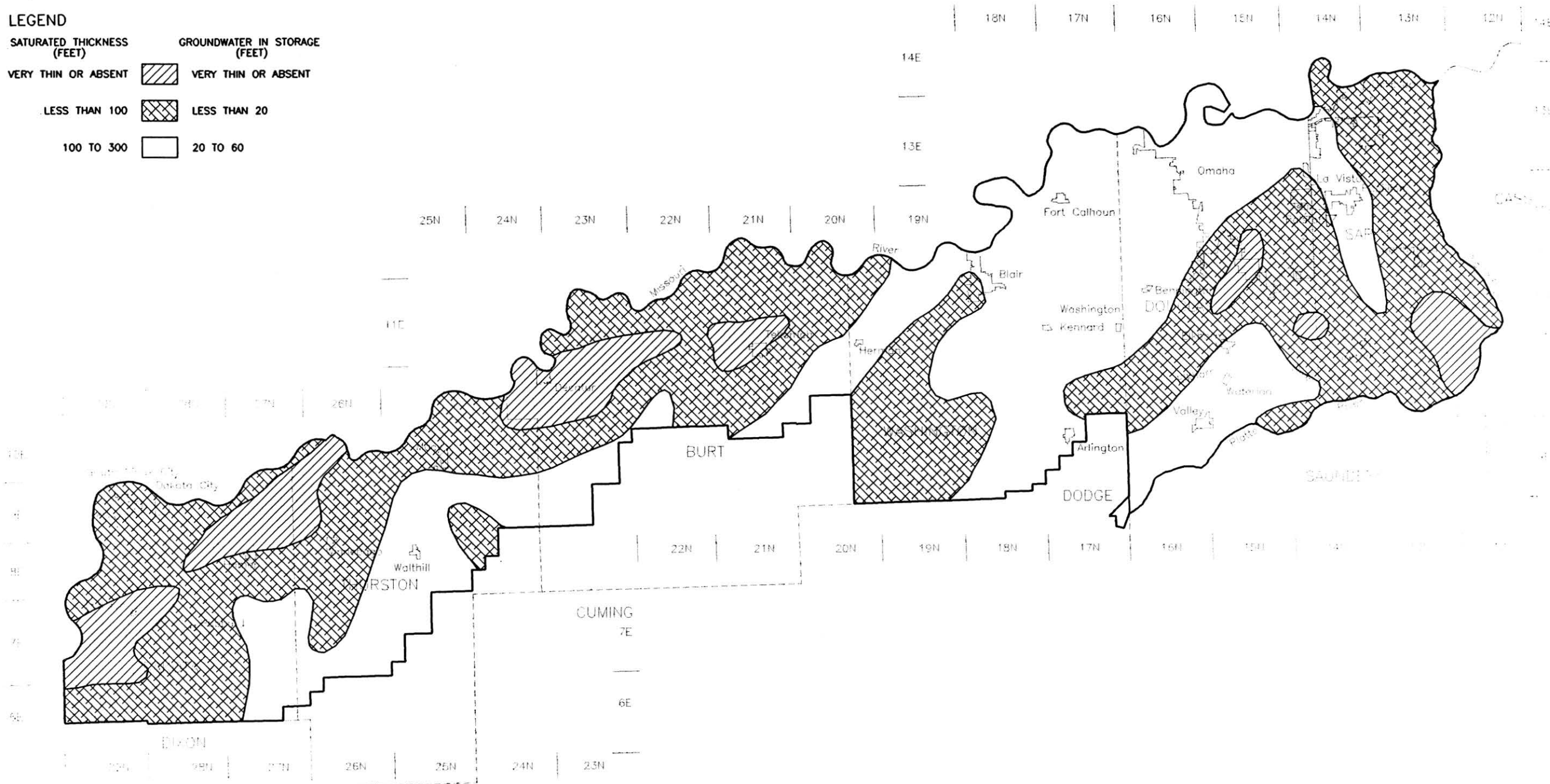
Groundwater Management Plan

Date  
 JUNE 1993

Figure  
 12

**LEGEND**

SATURATED THICKNESS (FEET)		GROUNDWATER IN STORAGE (FEET)	
VERY THIN OR ABSENT		VERY THIN OR ABSENT	
LESS THAN 100		LESS THAN 20	
100 TO 300		20 TO 60	



  
SCALE 1:500,000



Information Source:  
 Base Map Raw Data Provided by - Nebraska Natural Resources Commission, April 1993.  
 Topographic Date - TIGER Files, U.S. Bureau of the Census, 1990.  
 Primary Data - Conservation and Survey Division, 1986, *The Groundwater Atlas of Nebraska*.



**SATURATED THICKNESS  
 AND GROUNDWATER  
 IN STORAGE**  
 Groundwater Management Plan

Date  
 JUNE 1993  
 Figure  
 13

Depth to water, in feet



0-50



50-100



100-200

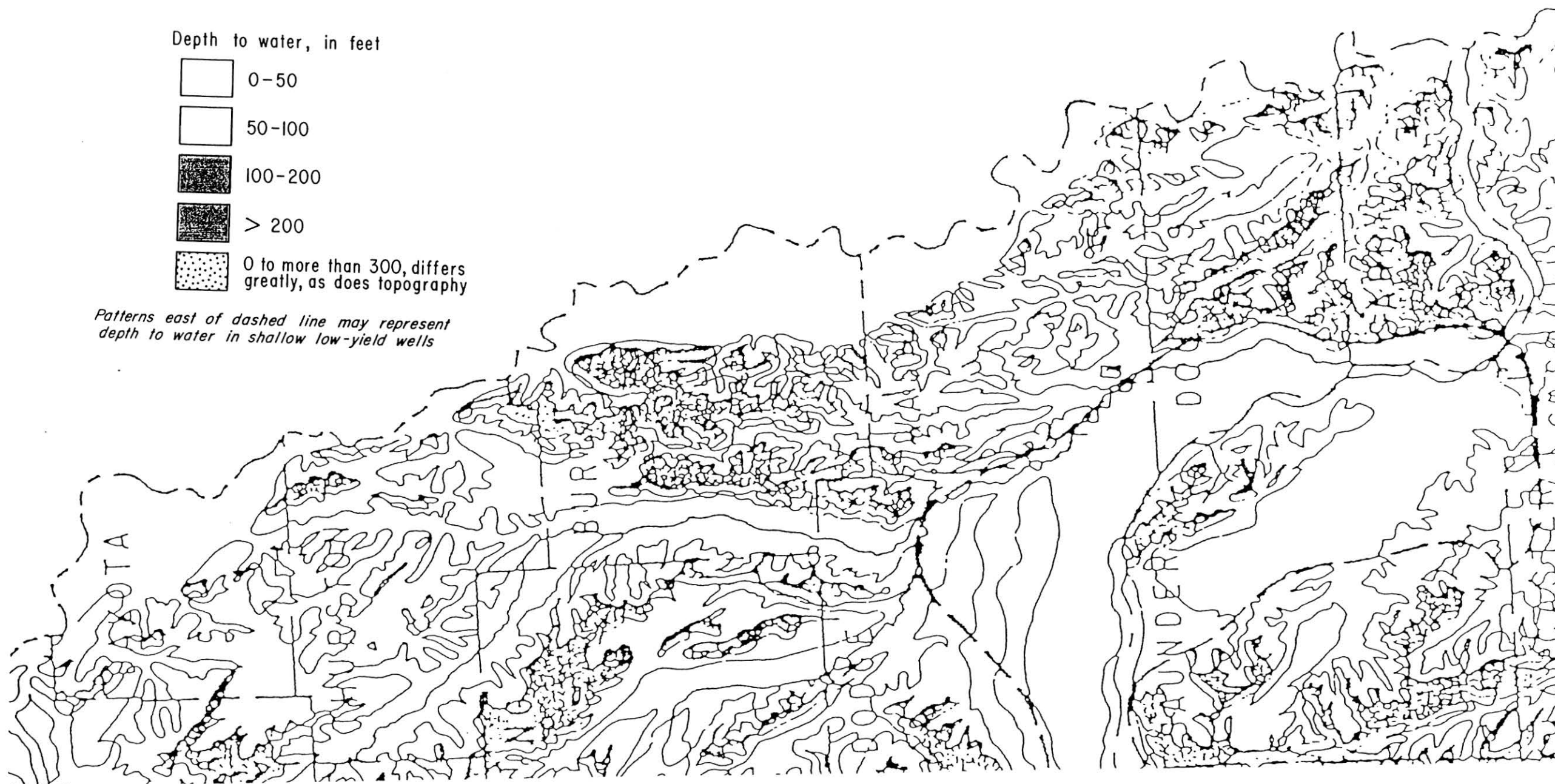


> 200



0 to more than 300, differs greatly, as does topography

*Patterns east of dashed line may represent depth to water in shallow low-yield wells*



Information Source:

Data - Conservation and Survey Division, 1986, *The Groundwater Atlas of Nebraska*.



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




**DEPTH TO THE  
REGIONAL  
WATER TABLE**

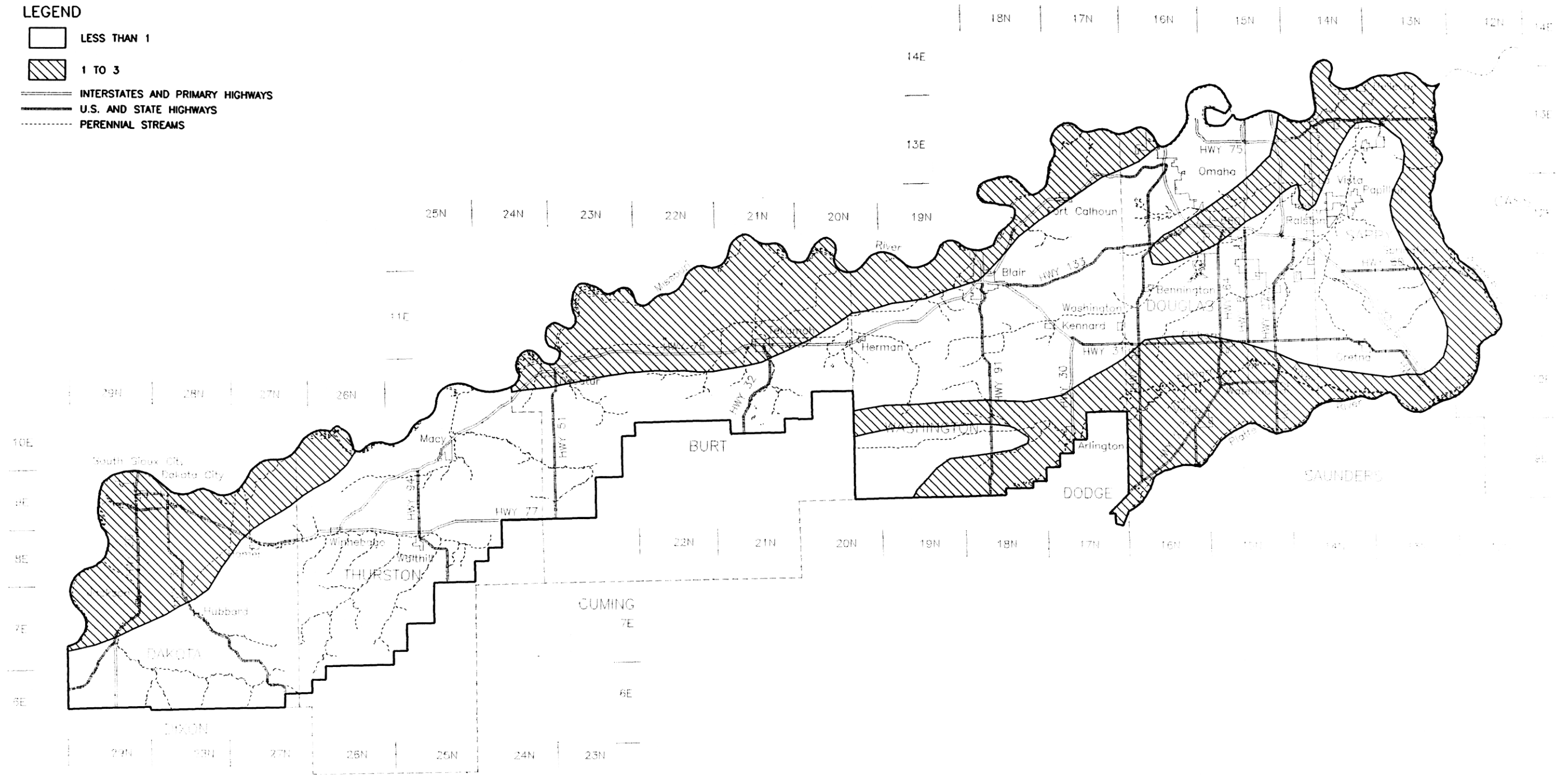
Groundwater Management Plan

Date  
APR 1993

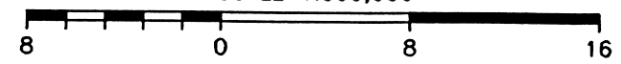
Figure  
14

**LEGEND**

-  LESS THAN 1
-  1 TO 3
-  INTERSTATES AND PRIMARY HIGHWAYS
-  U.S. AND STATE HIGHWAYS
-  PERENNIAL STREAMS



SCALE 1:500,000



Information Source:  
 Base Map Raw Data Provided by - Nebraska Natural Resources Commission, April 1993.  
 Topographic Date - TIGER Files, U.S. Bureau of the Census, 1990.  
 Primary Data - Nebraska NRC, Policy Issue Study on Groundwater Reservoir Management, March 1982.



**GROUNDWATER RECHARGE FROM PRECIPITATION**

Groundwater Management Plan

Date  
 JUNE 1993

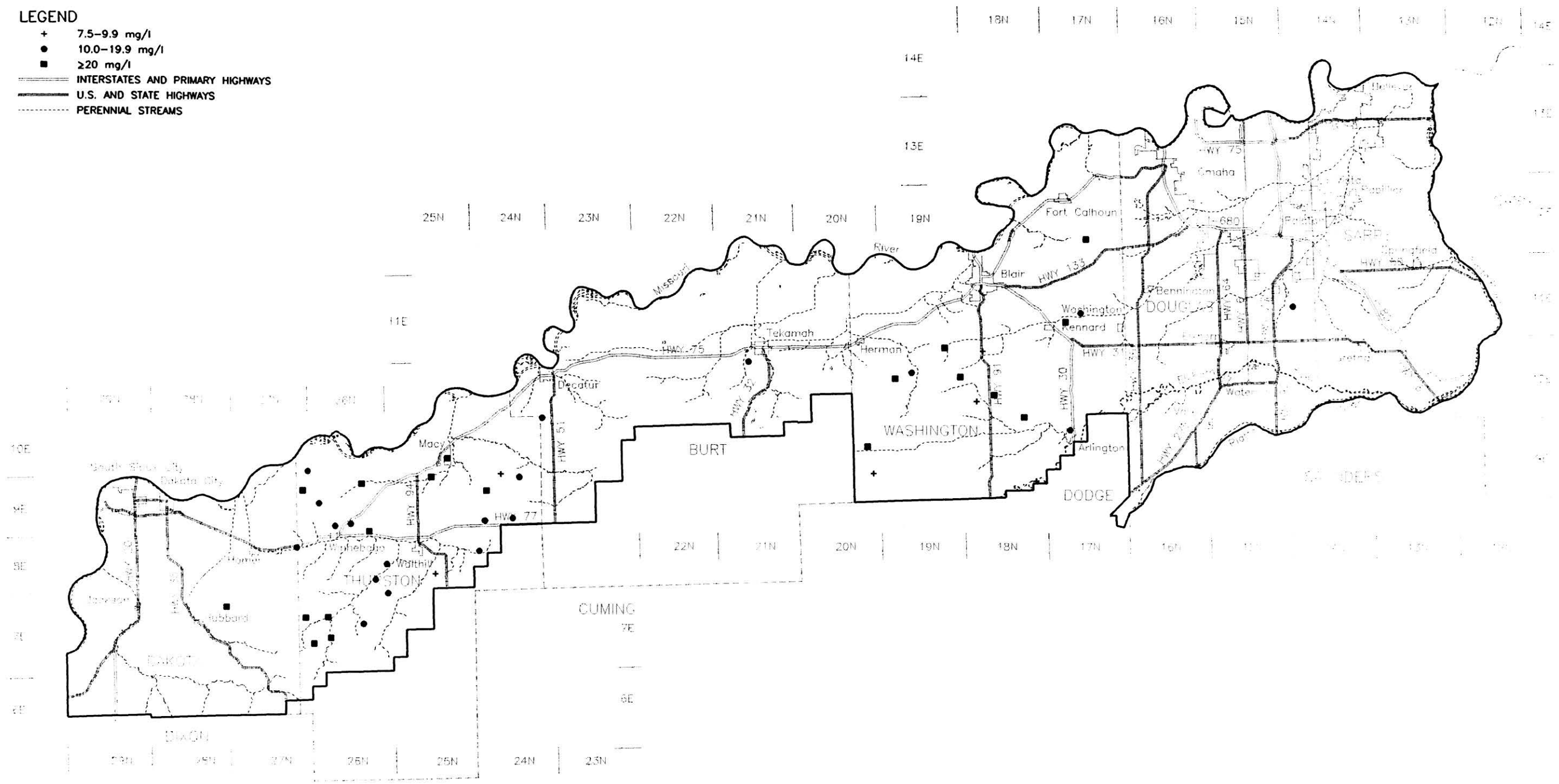
Figure  
 15

RELIANCE



**LEGEND**

- + 7.5-9.9 mg/l
- 10.0-19.9 mg/l
- ≥20 mg/l
- ==== INTERSTATES AND PRIMARY HIGHWAYS
- ==== U.S. AND STATE HIGHWAYS
- PERENNIAL STREAMS



SCALE 1:500,000



Information Source:  
 Base Map Raw Data Provided by - Nebraska Natural Resources Commission, April 1993.  
 Topographic Date - TIGER Files, U.S. Bureau of the Census, 1990.  
 Primary Data - Water Center, Institute of Agriculture and Natural Resources, University of Nebraska,  
 1990, Occurrence of Pesticides and Nitrates in Nebraska's Groundwater.



**NITRATE-NITROGEN  
 CONCENTRATIONS  
 ABOVE 7.4 mg/l**  
 Groundwater Management Plan

Date  
 JUNE 1993  
 Figure  
 16

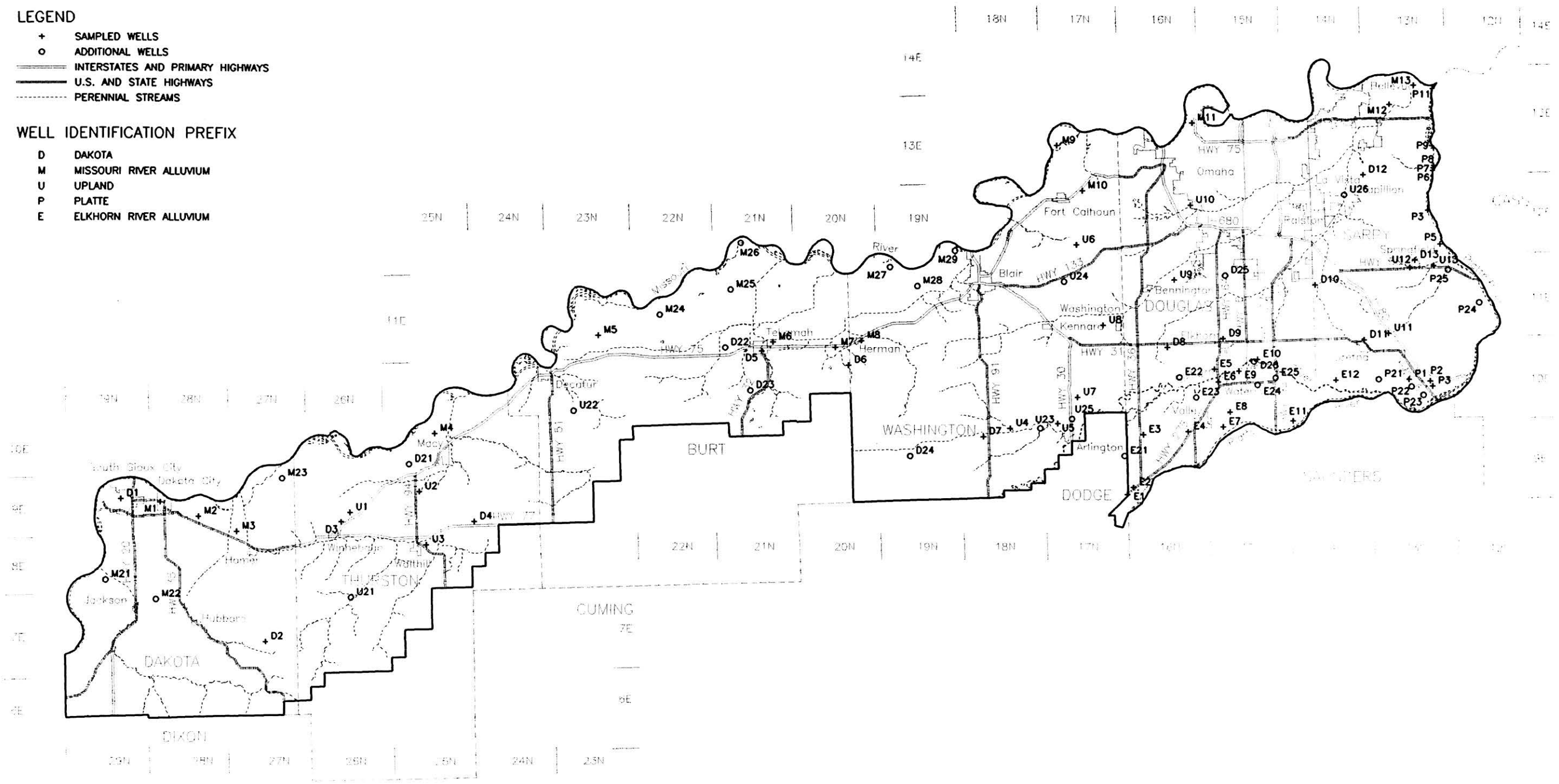
NL03

**LEGEND**

- + SAMPLED WELLS
- o ADDITIONAL WELLS
- ==== INTERSTATES AND PRIMARY HIGHWAYS
- U.S. AND STATE HIGHWAYS
- PERENNIAL STREAMS

**WELL IDENTIFICATION PREFIX**

- D DAKOTA
- M MISSOURI RIVER ALLUVIUM
- U UPLAND
- P PLATTE
- E ELKHORN RIVER ALLUVIUM



SCALE 1:500,000



Information Source:  
 Base Map Raw Data Provided by - Nebraska Natural Resources Commission, April 1993.  
 Topographic Date - TIGER Files, U.S. Bureau of the Census, 1990.  
 Primary Data - USGS, Groundwater Monitoring Program 1992-3.



HDR Engineering, Inc.

**USGS MONITORING WELL LOCATIONS**







Groundwater Management Plan

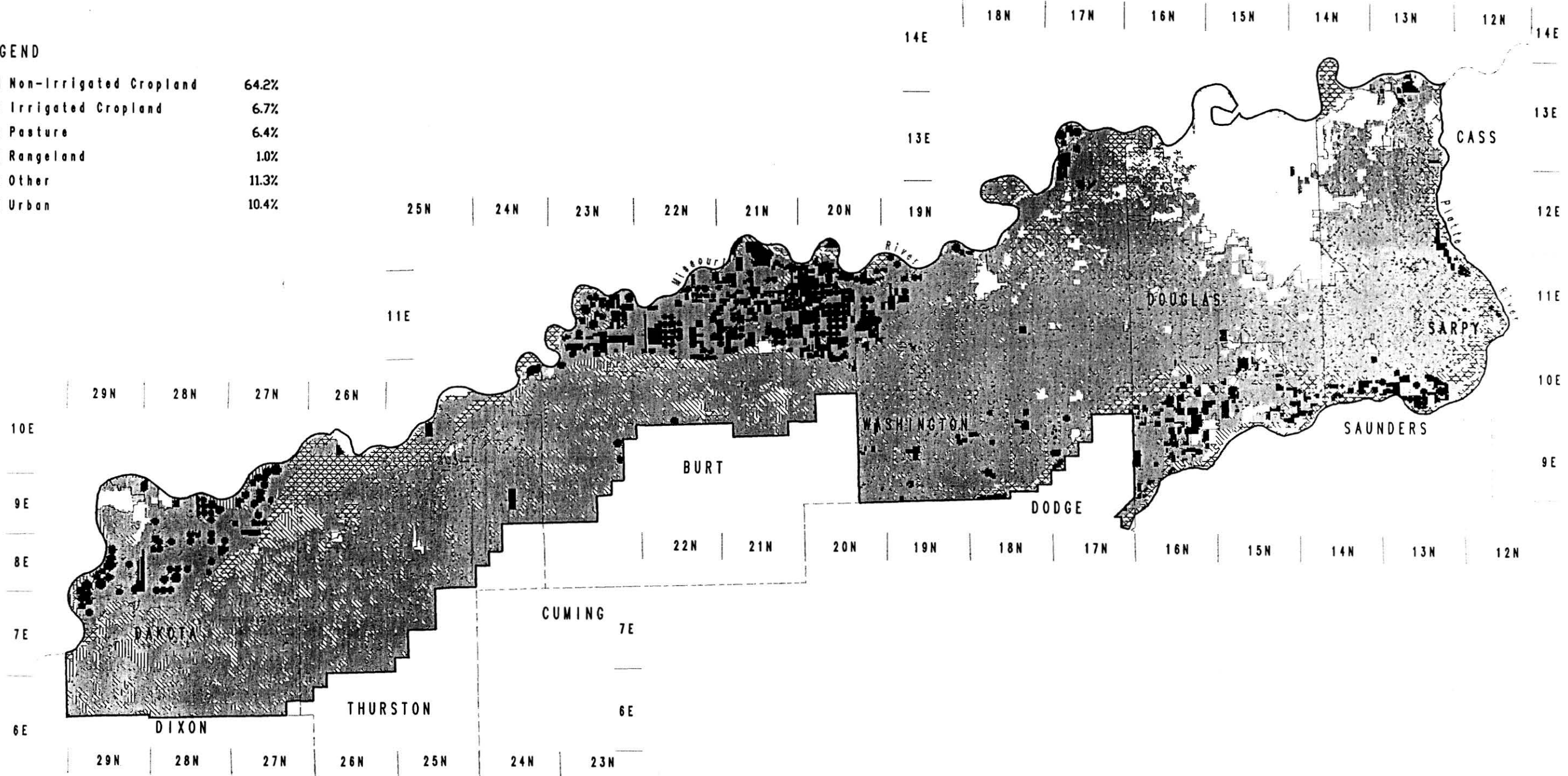
Date  
 JUNE 1993

Figure  
 17

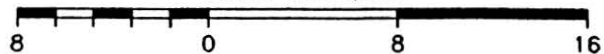
WELLUSGS

**LEGEND**

	Non-irrigated Cropland	64.2%
	Irrigated Cropland	6.7%
	Pasture	6.4%
	Rangeland	1.0%
	Other	11.3%
	Urban	10.4%



SCALE 1:500,000



Information Source:  
 Base Map Raw Data Provided by - Nebraska Natural Resources Commission, April 1993.  
 Topographic Date - TIGER Files, U.S. Bureau of the Census, 1990.  
 Land Use Data - SCS, Nebraska Resources Census, 1983-84.

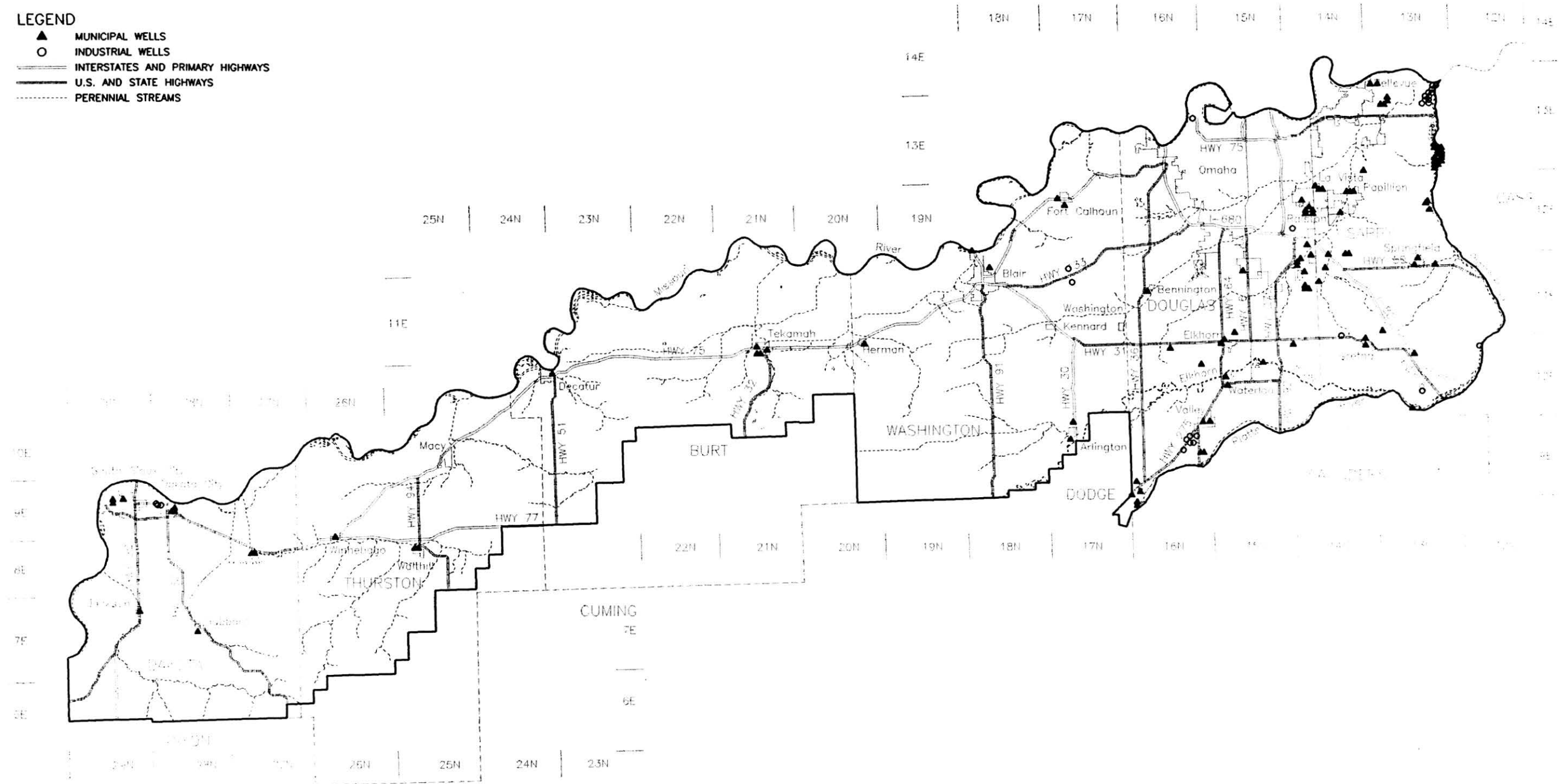


**LAND USE**  
 Groundwater Management Plan

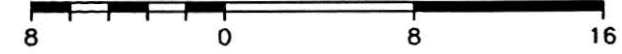
Date  
 JUNE 1993  
 Figure  
 18

**LEGEND**

- ▲ MUNICIPAL WELLS
- INDUSTRIAL WELLS
- INTERSTATES AND PRIMARY HIGHWAYS
- U.S. AND STATE HIGHWAYS
- PERENNIAL STREAMS



SCALE 1:500,000



Information Source:  
 Base Map Raw Data Provided by - Nebraska Natural Resources Commission, April 1993.  
 Topographic Date - TIGER Files, U.S. Bureau of the Census, 1990.  
 Wells Data - Nebraska Department of Water Resources, Dec 1991.



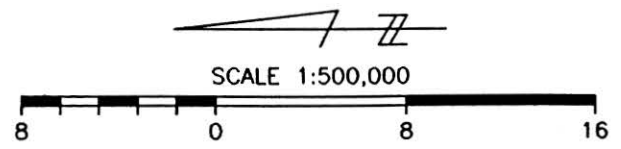
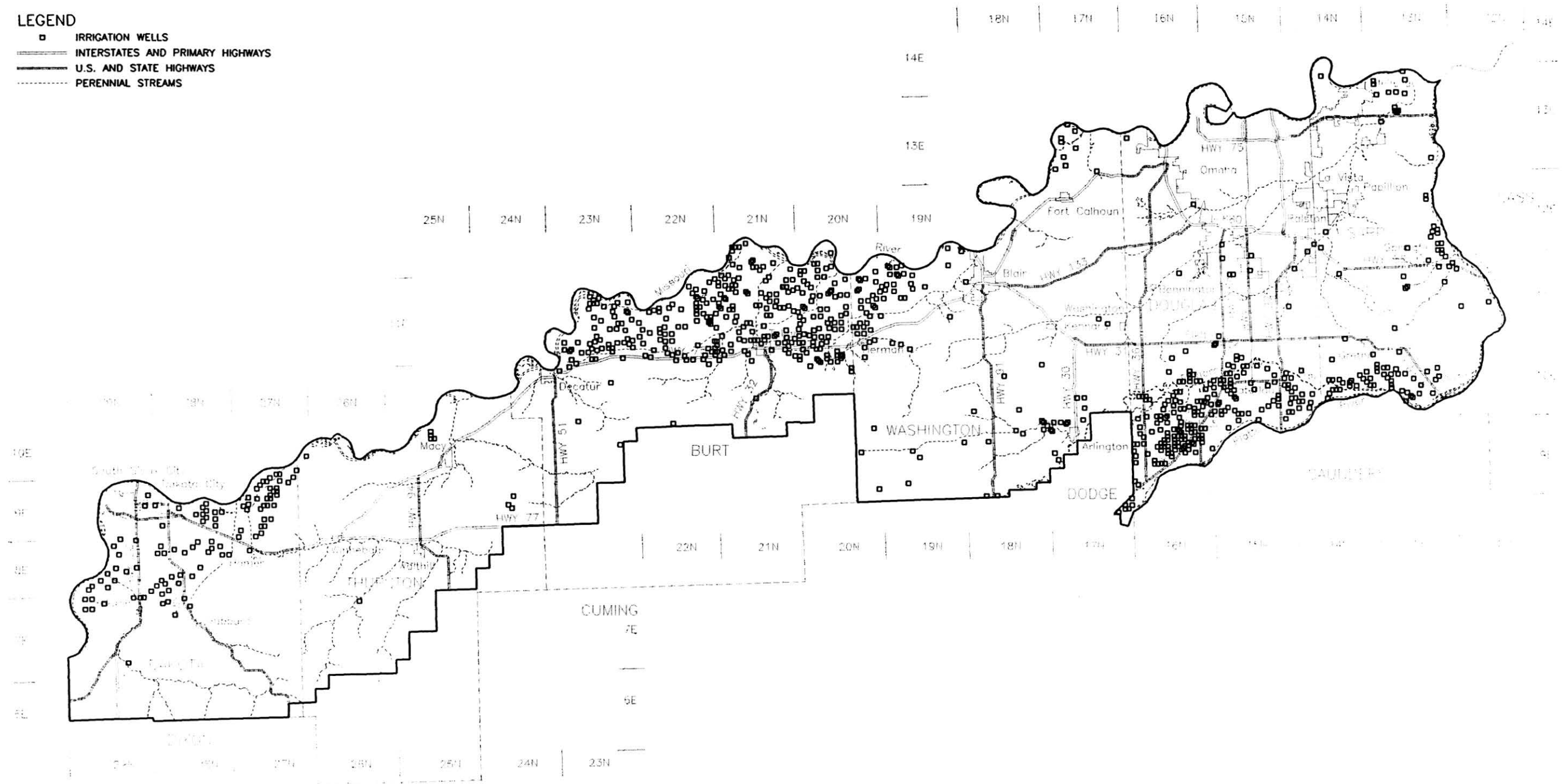
**REGISTERED MUNICIPAL/INDUSTRIAL WELLS**  
 Groundwater Management Plan

Date	JUNE 1993
Figure	19



**LEGEND**

- IRRIGATION WELLS
- ══ INTERSTATES AND PRIMARY HIGHWAYS
- U.S. AND STATE HIGHWAYS
- PERENNIAL STREAMS



Information Source:  
 Base Map Raw Data Provided by - Nebraska Natural Resources Commission, April 1993.  
 Topographic Date - TIGER Files, U.S. Bureau of the Census, 1990.  
 Wells Data - Nebraska Department of Water Resources, Dec 1991.

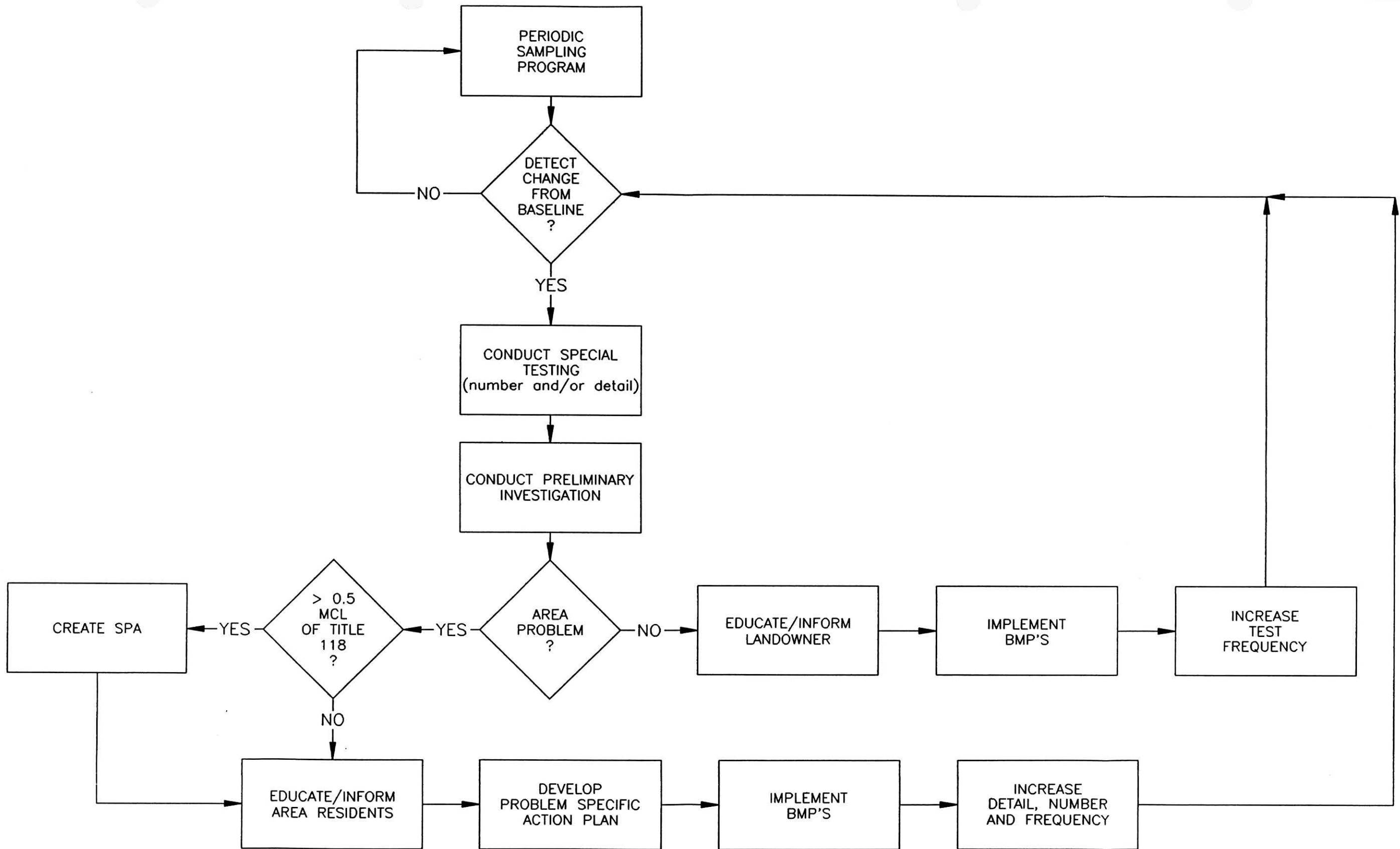


**REGISTERED  
 IRRIGATION WELLS**

Groundwater Management Plan

Date  
 JUNE 1993

Figure  
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## LIST OF APPENDICES

### Appendix

- A P-MRNRD Biannual Groundwater Level Monitoring Program
- B Volatile Synthetic Organic Compounds (VOC's)
- C Heavy Metals (Inorganic Compounds)
- D Nitrate/Sodium Monitoring of Community Water Systems
- E Nitrate Monitoring of Non Community Water Systems
- F USGS Monitoring Well Test Results
- G Title 118 - Maximum Contaminant Levels
- H Resource Conservation and Recovery Act Notifiers List
- I Title III Section 313 Toxic Chemical Release Inventory
- J CERCLIS
- K NPDES
- L All Ag Facilities
- M Glossary
- N Portions of the Nebraska Groundwater Management and Protection Act
- O References

**APPENDIX A**  
**P-MRNRD BIENNIAL GROUNDWATER LEVEL MONITORING PROGRAM**

**P-MRNRD Biannual Groundwater Level Monitoring Program**

<u>Sec.-Town.-Ran. Registration #</u>	<u>County</u>	<u>Spring Date</u>	<u>Depth in Feet</u>	<u>Fall Date</u>	<u>Depth in Feet</u>
2-12-11 G55657	Sarpy	May 05,'78	9.80	Nov.20,'79	11.20
		May 12,'80	10.25	Nov.04,'80	11.91
		May 14,'81	11.41	Nov.24,'81	11.83
		April 12,'82	10.75	Nov.29,'82	10.33
		May 11,'83	8.18	Nov.22,'83	10.66
		May 21,'84	6.75	Nov.12,'84	11.25
		Mar.21,'85	11.66	Nov.21,'85	11.25
		Mar.25,'86	10.00	Nov.24,'86	9.25
		April 9,'87	7.50	Nov.24,'87	11.08
		Mar.21,'88	10.16	Nov.01,'88	11.66
		Mar.24,'89	10.50	Dec. 4,'89	10.80
		Mar.26,'90	10.50	Nov.15,'90	16.16
		April 2,'91	11.00	Nov.19,'91	11.56
		April 8,'92	10.20	Nov.17,'92	10.30
		27-14-10 G00377	Sarpy	May 10,'78	34.03
				Dec.06,'79	36.10
May 12,'80	35.33			Nov.04,'80	36.25
May 21,'81	36.04			Nov.17,'81	35.34
April 12,'82	34.83			Nov.29,'82	34.75
May 13,'83	32.90			Nov.22,'83	35.00
May 17,'84	33.12			Nov.29,'84	35.20
Mar.25,'85	34.75			Nov.21,'85	35.34
Mar.25,'86	34.25			Oct.29,'86	33.48
April 9,'87	33.75			Nov.24,'87	34.66
Mar.21,'88	34.75			Nov.01,'88	36.50
Mar.24,'89	35.92			Dec. 4,'89	36.56
Mar.26,'90	36.25			Nov.15,'90	35.56
April 9,'91	34.66			Nov.19,'91	36.33
Mar.24,'92	34.60			Nov.17,'92	34.10
28-13-10 G55914	Sarpy	May 10,'78	8.08	Dec.06,'79	9.46
		May 12,'80	9.25	Nov.04,'80	9.66
		May 27,'81	9.48	Nov.17,'81	10.25
		April 12,'82	9.33	Nov.29,'82	9.33
		May 23,'83	8.15	Nov.22,'83	9.50
		May 17,'84	8.33	Nov.12,'84	9.42
		Mar. 25,'85	9.00	Nov.21,'85	8.88
		Mar.25,'86	7.80	Oct.29,'86	8.24
		April 9,'87	7.75	Nov.24,'87	9.25
		Mar.21,'88	9.50	Nov.01,'88	9.10
		Mar.24,'89	8.25	Dec. 4,'89	8.40
		Mar.26,'90	8.00	Dec.11,'90	8.75
		April 2,'91	7.92	Nov.19,'91	8.08
		Mar.24,'92	7.50	Nov.17,'92	7.60

P-MRNRD Biannual Groundwater Level Monitoring Program (Continued)

Sec.-Town.-Ran. Registration #	County	Spring Date	Depth in Feet	Fall Date	Depth in Feet		
11-19-11 G48892	Washington	May 10,'78	12.33	Nov.03,'78	13.60		
				Nov.20,'79	14.45		
		May 13,'80	16.08	Nov.05,'80	15.66		
		May 07,'81	17.33	Nov.17,'81	17.25		
		May 20,'82	14.92	Dec.06,'82	13.60		
		May 12,'83	10.20	Nov.22,'83	14.75		
		April 26,'84	11.17	Nov.12,'84	12.84		
		Mar.21,'85	15.75	Nov.22,'85	16.00		
		Mar.25,'86	15.50	Oct.29,'86	11.24		
		Mar.16,'87	15.80	Nov.11,'87	15.50		
		Mar.23,'88	18.00	Nov.15,'88	17.75		
		Mar.27,'89	20.00	Nov.14,'89	18.25		
		Mar.27,'90	20.00	Oct.30,'90	17.92		
		April 2,'91	19.00	Oct.25,'91	16.16		
		Mar.24,'92	18.40	Nov.17,'92	15.30		
22-16-9	Douglas			Nov.24,'82	7.40		
		May 10,'83	5.70	Nov.17,'83	6.16		
		April 27,'84	7.12	Nov.13,'84	8.50		
		Mar.21,'85	9.33	Nov.21,'85	6.67		
		Mar.25,'86	5.75	Oct.29,'86	10.00		
		Mar.16,'87	6.67	Nov.11,'87	6.56		
		Mar.23,'88	6.50	Nov.15,'88	8.24		
		Mar.27,'89	6.66	Nov.14,'89	6.75		
		Mar.27,'90	6.42	Oct.30,'90	7.50		
		April 3,'91	1.50	Nov.25,'91	7.50		
		Mar.24,'92	5.80	Nov.17,'92	5.10		
		7-17-10 G56161	Washington	May 22,'80	27.16	Nov.05,'80	18.08
				May 13,'81	19.25	Nov.17,'81	18.50
April 12,'82	17.00			Nov.24,'82	15.08		
May 10,'83	9.10			Nov.17,'83	16.00		
April 27,'84	9.85			Nov.12,'84	16.11		
Mar.21,'85	15.60			Nov.22,'85	17.00		
Mar.25,'86	15.80			Oct.29,'86	10.50		
Mar.16,'87	14.16			Nov.11,'87	16.60		
Mar.23,'88	17.16			Nov.15,'88	20.33		
Mar.27,'89	19.08			Nov.14,'89	18.25		
Mar.27,'90	19.16			Oct.30,'90	19.84		
April 3,'91	18.92			Oct.25,'91	20.00		
Mar.24,'92	17.30			Nov.17,'92	17.20		
3-17-9 G52340	Washington	May 10,'78	42.90	Nov.03,'78	48.70		
				Dec.12,'79	46.08		
		May 22,'80	49.17	Nov.05,'80	47.58		
		May 13,'81	46.50	Nov.17,'81	45.83		
		April 12,'82	45.58	Nov.24,'82	44.50		
		May 10,'83	39.90	Nov.17,'83	44.80		
		May 21,'84	39.84	Nov.12,'84	45.00		

**P-MRNRD Biannual Groundwater Level Monitoring Program (Continued)**

<b>Sec.-Town.-Ran. Registration #</b>	<b>County</b>	<b>Spring Date</b>	<b>Depth in Feet</b>	<b>Fall Date</b>	<b>Depth in Feet</b>
		Mar. 21,'85	43.50	Nov.22,'85	44.18
		Mar.25,'86	42.56	Oct.29,'86	48.00
		Mar.16,'87	43.16	Nov.11,'87	44.24
		Mar.23,'88	43.50	Nov.15,'88	46.56
		Mar.27,'89	44.32	Nov.14,'89	46.25
		Mar.27,'90	44.66	Oct.30,'90	46.00
		April 3,'91	45.33	Oct.25,'91	36.75
		Mar.24,'92	44.00	Nov.17,'92	41.50
<b>13-20-10</b>	<b>Burt</b>			Oct. 7,'76	33.42
		Mar.01,'77	30.37	Oct. 3,'77	30.03
		April 5,'78	25.79	Nov.13,'78	26.00
		April 18,'79	22.59	Oct.13,'79	26.58
		April 9,'80	23.34		
				Oct.21,'81	31.09
				Sept.23,'82	24.48
		April 25,'83	16.06	Dec.6,'83	22.20
				Nov.7,'84	22.04
		May 22,'85	20.30	Oct.11,'85	24.28
		May 8,'86	20.81	Oct.21,'86	21.86
		May 15,'87	19.77	Oct.5,'87	22.22
		May 10,'88	24.64	Oct.13,'88	30.70
		April 26,'89	29.09	Nov.30,'89	29.35
		Mar.22,'90	29.60	Sept.25,'90	28.06
		April 29,'91	23.78	Oct.15,'91	26.87
		May 1,'92	22.41	Oct.27,'92	21.89
<b>1-20-11</b>	<b>Burt</b>	June 1,'76	12.74	Oct.7,'76	17.08
		Mar.1,'77	15.70	Oct.3,'77	15.29
		April 5,'78	12.59	Nov.13,'78	12.40
		April 18,'79	9.40	Oct.13,'79	13.18
		April 9,'80	12.66		
				Oct.2,'81	16.60
		Mar.24,'82	14.68	Sept.23,'82	10.19
		April 25,'83	4.82	Dec.6,'83	11.84
				Nov.7,'84	11.27
		May 22,'85	7.03	Oct.11,'85	13.76
		May 8,'86	7.11	Oct.21,'86	10.52
		May 15,'87	8.56	Oct.5,'87	11.63
		May 10,'88	14.18	Oct.13,'88	16.11
		April 26,'89	17.06	Nov.30,'89	17.54
		Mar.22,'90	17.65	Sept.25,'90	15.18
		April 29,'91	13.71	Oct.15,'91	16.04
		May 1,'92	13.03	Oct.27,'92	11.67

**P-MRNRD Biannual Groundwater Level Monitoring Program (Continued)**

<b>Sec.-Town.-Ran. Registration #</b>	<b>County</b>	<b>Spring Date</b>	<b>Depth in Feet</b>	<b>Fall Date</b>	<b>Depth in Feet</b>
2-20-11	Burt			Oct.25,'67	7.20
				Oct.23,'68	6.25
				Oct.15,'69	7.14
				Oct.21,'70	8.32
				Oct.27,'71	8.29
				Oct.27,'72	5.57
				Oct.25,'73	5.12
				Nov.4,'74	7.29
				Nov.25,'75	7.60
				Nov.2,'76	11.17
				Nov.2,'77	6.47
				Nov.2,'78	6.98
				Oct.29,'79	6.98
				Nov.3,'80	8.80
				Nov.2,'81	10.69
				Nov.2,'82	5.59
				Oct.17,'83	5.68
				Oct.29,'84	5.40
				Oct.29,'85	5.72
				Oct.24,'86	4.27
		Nov.2,'87	5.30		
		Oct.20,'88	10.61		
14-20-11	Burt	April 5,'78	9.73	Oct. 3,'77	13.88
		April 18,'79	8.97		
		April 9,'80	10.92	Oct.13,'79	12.36
				Oct. 2,'81	15.37
				Sept.23,'82	9.09
		April 25,'83	6.35	Dec. 6,'83	12.20
				Nov. 7,'84	10.39
		May 22,'85	7.84	Oct.11,'85	13.01
		May 8,'86	7.28	Oct.21,'86	9.03
		May 15,'87	9.09	Oct. 5,'87	11.30
		May 10,'88	13.31	Oct.13,'88	16.03
		April 26,'89	16.36	Nov.30,'89	16.48
		Mar.22,'90	16.47	Sept.27,'90	14.52
		April 29,'91	11.20	Oct.15,'91	15.18
		May 1,'92	11.24	Oct.27,'92	10.76
18-20-11	Burt	June 1,'76	24.91	Oct. 7,'76	36.43
		Mar. 1,'77	33.33	Oct. 3,'77	34.43
		Apr. 5,'78	30.47	Nov.13,'78	31.07
		Apr.18,'79	27.40	Oct.13,'79	31.20
		Mar.24,'80	27.78		
				Oct. 2,'81	34.79
		Mar.24,'82	31.92	Sept.23,'82	26.44
		Apr.25,'83	21.15	Dec. 6,'83	26.55
				Nov. 7,'84	26.56
		May 22,'85	22.09	Oct.11,'85	26.96



**P-MRNRD Biannual Groundwater Level Monitoring Program (Continued)**

<b>Sec.-Town.-Ran. Registration #</b>	<b>County</b>	<b>Spring Date</b>	<b>Depth in Feet</b>	<b>Fall Date</b>	<b>Depth in Feet</b>
		May 8,'86	23.23	Oct.21,'86	23.90
		May 15,'87	20.71	Oct. 5,'87	23.44
		May 10,'88	26.83	Oct.13,'88	33.17
		April 26,'89	31.54	Nov.30,'89	31.78
		Mar.22,'90	31.73	Sept.25,'90	29.27
		April 29,'91	25.90	Oct.15,'91	28.73
		May 1,'92	23.88	Oct.27,'92	23.99
<b>6-21-11</b>	<b>Burt</b>	Mar. 1,'77	11.12	Oct. 3,'77	10.30
		Apr. 5,'78	6.67	Nov.13,'78	7.80
		Apr.18,'79	3.84	Oct.12,'79	8.75
		Apr. 9,'80	4.59		
				Oct. 2,'81	11.77
		Mar.29,'82	7.67		
		Apr.25,'83	1.46	Dec. 6,'83	4.52
				Nov. 7,'84	5.38
		May 21,'85	2.59	Oct.11,'85	7.57
		May 8,'86	2.50	Oct.21,'86	3.56
		May 15,'87	3.33	Oct. 5,'87	5.10
		May 10,'88	12.74	Oct.13,'88	9.23
		April 26,'89	9.21	Nov.30,'89	10.01
		Mar.22,'90	10.54	Sept.25,'90	9.78
		April 29,'91	4.65	Oct.15,'91	10.54
		May 1,'92	3.68	Oct.27,'92	4.97
<b>12-21-11</b>	<b>Burt</b>	May 28,'76	17.55	Oct. 7,'76	18.72
		Mar. 1,'77	19.77	Oct. 3,'77	20.46
		Apr. 5,'78	19.21	Nov.13,'78	17.41
		Apr.18,'79	16.39	Oct.12,'79	17.28
		Apr. 9,'80	17.98		
				Oct. 2,'81	21.09
		Mar.24,'82	21.09	Sept.23,'82	18.50
		Apr.25,'83	12.18	Dec. 6,'83	14.98
				Nov. 7,'84	13.95
		May 21,'85	14.34		
				Oct.21,'86	14.26
		May 15,'87	12.97	Oct. 5,'87	14.19
		May 10,'88	17.25	Oct.13,'88	19.00
		April 26,'89	20.59	Nov.30,'89	21.09
		Mar.22,'90	22.21	Sept.25,'90	21.05
		April 29,'91	21.48	Oct.15,'91	21.79
		May 1,'92	20.52	Oct.27,'92	18.83
<b>22-21-11</b>	<b>Burt</b>	May 28,'76	9.67	Oct. 7,'76	15.05
		Mar. 1,'77	14.38	Oct. 3,'77	14.74
		Apr. 5,'78	12.28	Nov.13,'78	11.10
		Apr.18,'79	9.07	Oct.12,'79	12.29
		Apr. 9,'80	9.70		
				Oct. 2,'81	16.31

**P-MRNRD Biannual Groundwater Level Monitoring Program (Continued)**

<b>Sec.-Town.-Ran. Registration #</b>	<b>County</b>	<b>Spring Date</b>	<b>Depth in Feet</b>	<b>Fall Date</b>	<b>Depth in Feet</b>
		Mar.24,'82	14.29	Sept.23,'82	10.87
		Apr.25,'83	5.82	Dec. 6,'83	8.47
				Nov. 7,'84	9.30
		May 21,'85	6.48	Oct.11,'85	11.37
		May 8,'86	7.19	Oct.21,'86	3.99
		May 15,'87	7.13	Oct. 5,'87	8.18
		May 10,'88	10.47	Oct.13,'88	14.18
		April 26,'89	14.10	Nov.30,'89	15.84
		Mar.22,'90	15.90	Sept.25,'90	14.62
		April 29,'91	11.74	Oct.15,'91	15.06
		May 1,'92	11.06	Oct.27,'92	9.94
<b>35-31-11</b>	<b>Burt</b>	June 1,'76	10.86	Oct. 7,'76	15.41
		Mar. 1,'77	14.43	Oct. 3,'77	13.92
		Apr. 5,'78	11.32	Nov.13,'78	11.25
		Apr.18,'79	7.65	Oct.13,'79	11.83
		Apr. 9,'80	9.68		
				Oct. 2,'81	15.85
		Mar.24,'82	12.63	Sept.23,'82	8.36
		Apr.25,'83	0.74	Dec. 6,'83	4.71
				Nov. 7,'84	8.86
		May 22,'85	4.36	Oct.11,'85	11.35
		May 8,'86	4.64	Oct.21,'86	7.80
		May 15,'87	5.79	Oct. 5,'87	8.52
		May 10,'88	11.11	Oct.13,'88	14.51
		April 26,'89	14.69	Nov.30,'89	14.18
		Mar.22,'90	15.29	Sept.25,'90	13.20
		April 29,'91	10.16	Oct.15,'91	14.28
		May 1,'92	9.72	Oct.27,'92	8.89
<b>24-22-10</b>	<b>Burt</b>			Sept.23,'82	12.71
		Apr.25,'83	9.23	Dec. 6,'83	11.80
				Nov. 7,'84	12.52
		May 21,'85	10.65	Oct.11,'85	15.58
		May 8,'86	10.83	Oct.21,'86	11.97
		May 15,'87	10.17	Oct. 5,'87	13.12
		May 10,'88	14.47	Oct.13,'88	17.00
		April 26,'89	18.17	Nov.30,'89	20.54
		Mar.21,'90	20.14	Sept.25,'90	18.29
		April 29,'91	14.37	Oct.15,'91	19.60
		May 1,'92	13.99	Oct.27,'92	13.01
<b>27-27-11</b>	<b>Burt</b>	May 28,'76	10.80	Oct. 7,'76	14.10
		Mar. 1,'77	15.21	Oct. 3,'77	14.96
		Apr. 5,'78	13.23	Nov.13,'78	11.46
		Apr.18,'79	10.18	Oct.12,'79	12.60
		Apr. 9,'80	12.63		
		Mar.24,'82	15.55	Sept.23,'82	12.12
		Apr.25,'83	1.91	Dec. 6,'83	5.31

P-MRNRD Biannual Groundwater Level Monitoring Program (Continued)

Sec.-Town.-Ran. Registration #	County	Spring Date	Depth in Feet	Fall Date	Depth in Feet
				Nov. 7,'84	9.33
		May 21,'85	8.87	Oct.11,'85	12.69
		May 8,'86	10.06	Oct.21,'86	13.25
		May 15,'87	8.21	Oct. 5,'87	11.00
		May 10,'88	15.04	Oct.13,'88	
		April 26,'89	15.96	Nov.30,'89	17.24
		Mar.21,'90	17.81	Sept.25,'90	16.15
		April 29,'91	16.15	Oct.15,'91	16.48
		May 1,'92	15.29	Oct.27,'92	13.81
27-23-11	Burt	May 27,'76	14.08		
				Oct. 3,'77	16.75
		Apr. 5,'78	15.89	Nov.13,'78	13.25
		Apr.18,'79	13.37	Oct.13,'79	15.30
		Apr. 9,'80	16.87		
				Oct. 2,'81	17.16
		Mar.29,'82	18.33	Sept.23,'82	14.84
		Apr.25,'83	11.24	Dec. 6,'83	13.18
				Nov. 6,'84	12.92
		May 21,'85	13.77	Oct.11,'85	16.40
		May 8,'86	13.19	Oct.21,'86	12.86
		May 15,'87	13.24	Oct. 5,'87	15.94
		May 10,'88	17.57	Oct.13,'88	17.54
		April 26,'89	19.60	Nov.30,'89	20.73
		Mar.21,'90	22.18	Sept.25,'90	17.88
		April 29,'91	19.85	Oct.15,'91	18.38
		April 28,'92	19.16	Oct.27,'92	17.26
30-23-11	Burt	April 5,'78	15.22	Oct. 3,'77	17.94
		May 10,'88	14.31		
				Nov.30,'89	18.35
				Sept.25,'90	15.77
		April 29,'91	13.83	Oct.15,'91	17.39
		May 1,'92	13.42	Oct.27,'92	11.75
1-27-8	Dakota	May 26,'76	23.10	Oct. 7,'76	22.08
		Mar. 1,'77	22.67	Oct. 3,'77	22.92
		Apr. 5,'78	22.87	Nov.13,'78	21.90
		Apr.17,'79	21.81	Oct.13,'79	22.02
		Apr.10,'80	22.17		
				Oct. 2,'81	23.70
		Mar.26,'82	24.15	Sept.22,'82	23.76
		Apr.25,'83	19.30	Dec. 5,'83	19.69
				Nov. 6,'84	16.72
		May 20,'85	17.51	Oct.15,'85	19.61
		May 7,'86	19.49	Oct.21,'86	18.93
		May 7,'87	18.18	Oct. 2,'87	19.62
		May 9,'88	21.43	Oct. 6,'88	22.48
		May 4,'89	23.58	Dec. 1,'89	22.66

P-MRNRD Biannual Groundwater Level Monitoring Program (Continued)

Sec.-Town.-Ran. Registration #	County	Spring Date	Depth in Feet	Fall Date	Depth in Feet
		Mar.21,'90	24.70	Sept.26,'90	23.74
		April 30,'91	25.10	Oct.16,'91	24.81
		May 1,'92	25.05	Oct.29,'92	23.94
23-27-9	Dakota	Sept.22,'82	9.76	Dec. 5,'83	7.35
				Nov. 6,'84	6.35
		May 20,'85	8.37	Oct.15,'85	9.43
		May 7,'86	8.50	Oct.21,'86	7.00
		May 7,'87	8.64	Oct. 2,'87	9.79
		May 9,'88	10.06	Oct. 6,'88	10.13
		May 4,'89	11.70	Dec. 1,'89	11.98
		Mar.21,'90	14.11	Sept.26,'90	10.23
		April 30,'91	13.01	Oct.16,'91	10.56
		May 1,'92	12.56	Oct.29,'92	11.44
1-28-8	Dakota	May 24,'76	19.64	Oct. 7,'76	19.90
		Mar. 1,'77	20.12	Oct. 3,'77	20.70
		Apr. 5,'78	20.34	Nov.13,'78	20.60
		Apr. 17,'79	19.91	Oct.13,'79	19.68
		Apr. 10,'80	19.20		
				Oct. 2,'81	20.98
		Mar.26,'82	20.82	Sep.22,'82	21.14
		Apr.25,'83	17.56	Dec. 5,'83	17.96
				Nov. 6,'84	12.38
		May 20,'85	12.81	Oct.10,'85	14.52
		May 7,'86	14.56	Oct.21,'86	13.92
		May 7,'87	13.33	Oct. 2,'87	14.53
		May 9,'88	16.53	Oct. 6,'88	18.19
		May 4,'89	19.20	Dec. 1,'89	19.98
		Mar.21,'90	20.91	Sept.26,'90	20.10
		April 30,'91	20.95	Oct.16,'91	21.31
		May 1,'92	20.70	Oct.29,'92	19.09
8-28-8	Dakota	Mar. 1,'77	17.55		
		Apr. 5,'78	16.28	Nov.13,'78	18.00
		Apr.17,'79	16.90	Oct.13,'79	17.05
		Apr.10,'80	16.21		
		Apr.25,'83	10.48	Dec. 5,'83	11.00
				Nov. 6,'84	8.51
		May 20,'85	5.03	Oct.10,'85	10.34
		May 7,'86	7.04	Oct.21,'86	10.19
		May 7,'87	8.40	Oct. 2,'87	10.92
		May 9,'88	13.51	Oct. 6,'88	14.93
		May 4,'89	16.39	Dec. 1,'89	17.83
		Mar.21,'90	18.17	Sept.26,'90	16.47
		April 30,'91	17.53	Oct.16,'91	18.52
		May 1,'92	17.26	Oct.29,'92	15.01

**P-MRNRD Biannual Groundwater Level Monitoring Program (Continued)**

Sec.-Town.-Ran. Registration #	County	Spring Date	Depth in Feet	Fall Date	Depth in Feet
25-28-8	Dakota			Oct.25,'67	20.26
				Oct.23,'68	22.35
				Oct.15,'69	20.21
				Oct.21,'70	20.91
				Oct.27,'71	20.77
				Oct.27,'72	20.38
				Oct.25,'73	20.81
				Oct.29,'74	23.11
				Nov.25,'75	22.75
				Nov. 2,'76	21.69
				Nov. 2,'77	22.53
				Nov. 2,'78	21.97
				Oct.29,'79	21.52
				Nov. 3,'80	21.52
				Nov. 4,'81	22.99
				Nov. 2,'82	22.83
				Oct.31,'83	17.53
				Oct.29,'84	14.19
				Oct.29,'85	17.51
		Oct.27,'86	17.00		
		Nov. 2,'87	17.83		
		Oct.20,'88	21.05		
36-29-7	Dakota	May 26,'76	23.24	Oct. 7,'76	22.90
		Mar. 1,'77	23.08	Oct. 3,'77	23.60
		Apr. 5,'78	22.91	Nov.13,'78	23.30
		Apr.17,'79	22.53	Oct.13,'79	22.45
		Apr.10,'80	22.78		
				Oct. 2,'81	23.95
		Mar.26,'82	23.42	Sep.22,'82	23.68
		Apr.25,'83	18.15	Dec. 5,'83	18.49
				Nov. 6,'84	15.58
		May 20,'85	14.65	Oct.15,'85	17.33
		May 7,'86	16.90	Oct.21,'86	17.68
		May 7,'87	16.67	Oct. 2,'87	18.26
		May 9,'88	20.23	Oct. 6,'88	20.60
		May 4,'89	22.43	Dec. 1,'89	22.54
		Mar.21,'90	23.84	Sept.26,'90	22.64
		April 30,'91	23.64	Oct.16,'91	24.04
		May 1,'92	23.58	Oct.29,'92	21.68
29-29-8	Dakota	May 26,'76	13.45	Oct. 7,'76	13.50
		Mar. 1,'77	13.53	Oct. 3,'77	14.16
		Apr. 5,'78	13.85	Nov.13,'78	13.55
		Apr.10,'79	12.91	Oct.13,'79	13.04
				Oct. 2,'81	14.99
		Mar.26,'82	14.84	Sep.22,'82	15.04
		Apr.25,'83	12.28	Dec. 5,'83	12.55
				Nov. 6,'84	8.77

P-MRNRD Biannual Groundwater Level Monitoring Program (Continued)

Sec.-Town.-Ran. Registration #	County	Spring Date	Depth in Feet	Fall Date	Depth in Feet
		May 20,'85	8.32	Oct.10,'85	10.32
		May 7,'86	11.03	Oct.21,'86	10.88
		May 7,'87	10.41	Oct. 2,'87	11.78
		May 9,'88	13.13	Oct. 6,'88	14.13
		May 4,'89	14.89	Dec. 1,'89	15.26
		Mar.21,'90	16.07	Sept.26,'90	15.33
		May 1,'92	13.25	Oct.16,'91	16.28
				Oct.29,'92	15.06
27-24-9	Thurston	Apr.25,'83	164.70	Dec. 2,'83	164.72
		May 20,'85	168.69	Oct.11,'85	169.20
		May 7,'86	169.09	Oct.20,'86	169.70
		May 7,'87	169.34	Oct. 2,'87	169.83
		May 11,'88	169.34	Oct.18,'88	169.82
		April 26,'89	164.61	Nov.30,'89	166.92
		Mar.21,'90	168.72	Sept.26,'90	169.41
		April 30,'91	169.52		
18-25-10	Thurston	May 27,'76	20.35		
				Oct. 3,'77	20.58
		Apr. 5,'78	20.91	Nov.13,'78	17.4
		Apr.17,'79	18.94	Oct.13,'79	19.22
		Apr. 9,'80	22.10		
				Oct. 2,'81	21.56
		Mar.30,'82	23.92	Sep.22,'82	20.82
		Apr.25,'83	16.60	Dec. 2,'83	17.82
				Nov. 6,'84	17.61
		May 20,'85	19.37	Oct.11,'85	20.61
		May 7,'86	24.19	Oct.20,'86	22.69
		May 7,'87	18.10	Oct. 2,'87	20.44
				Oct. 6,'88	23.27
		April 26,'89	22.21	Nov.30,'89	21.89
		Mar.21,'90	25.62	Sept.26,'90	20.65
		April 30,'91	23.55	Oct.16,'91	20.70
		April 28,'92	22.64	Oct.29,'92	20.56
19-25-10	Thurston	May 27,'76	22.60	Oct. 7,'76	21.95
		Mar. 1,'77	23.77	Oct. 3,'77	22.50
		Apr. 5,'78	23.28	Nov.13,'78	19.54
		Apr.17,'79	20.59	Oct.13,'79	21.05
		Apr. 9,'80	23.55		
				Oct. 2,'81	23.62
		Mar.30,'82	25.54	Sep.22,'82	22.74
		Apr.25,'83	19.19	Dec. 2,'83	20.24
				Nov. 6,'84	18.43
		May 20,'85	21.16	Oct.11,'85	21.98
		May 7,'86	22.75	Oct.20,'86	20.20
		May 7,'87	20.52	Oct. 2,'87	21.80
		May 11,'88	24.09	Oct. 6,'88	19.79

**P-MRNRD Biannual Groundwater Level Monitoring Program (Continued)**

<b>Sec.-Town.-Ran. Registration #</b>	<b>County</b>	<b>Spring Date</b>	<b>Depth in Feet</b>	<b>Fall Date</b>	<b>Depth in Feet</b>
		April 26,'89	25.70	Nov.30,'89	23.68
		Mar.21,'90	26.74	Sept.26,'90	24.26
		April 30,'91	27.03	Oct.16,'91	24.58
		April 28,'92	26.31	Oct.29,'92	23.22
<b>24-26-7</b>	<b>Thurston</b>			Sep.22,'82	12.52
		Apr.25,'83	7.71	Dec. 7,'83	9.41
				Nov. 6,'84	10.05
				Oct.10,'85	10.94
		May 7,'86	7.50	Oct.21,'86	10.95
		May 7,'87	8.33	Oct. 2,'87	11.10
		May 9,'88	11.49	Oct. 6,'88	11.71
		May 4,'89	12.02	Dec. 1,'89	9.38
		Mar.21,'90	12.32	Sept.26,'90	11.28
		April 30,'91	11.93	Oct.16,'91	11.80
		May 1,'92	9.36	Oct.29,'92	9.66

Source: Papio-Missouri River Natural Resources District, March, 1993.

**APPENDIX B**  
**VOLATILE SYNTHETIC ORGANIC COMPOUNDS (VOCs)**



PWS ID	PUBLIC WATER SYSTEM NAME	CITY	SAMPLE LOCATION		OPR	SAMPLE DATE	SAMPLING ENTITY	CONT		CONTAMINANT DETECTED	RESULT	UNITS
			TYP (3)	ID (1)				DESCRIPTION (5)	LAB (4)			
NE3117905	BLAIR, CITY OF	BLAIR	1	001	P	08/05/91	Blair	NDOH	V57	Dibromochloromethane	8.30	ppb
NE3117905					P				V57	Bromodichloromethane	19.10	ppb
NE3117905					P				V57	Bromoform	0.80	ppb
NE3117905					P				V57	Chloroform	45.20	ppb
NE3117905					P	04/04/89	NDOH	NDOH	V57	Dibromochloromethane	3.80	ppb
NE3117905					P				V57	Bromodichloromethane	15.30	ppb
NE3117905					P				V57	Bromoform	4.70	ppb
NE3117905					P				V57	Chloroform	45.20	ppb
NE3104301	DAKOTA CITY, CITY OF	DAKOTA CITY	1	001		04/11/91	NDOH	NDOH	V57	Chloroform	0.40	ppb
NE3105509	DOUGLAS CO. SID #157	OMAHA	1	601		01/08/92	DOUGLAS CO. SID #157	NDOH	V57	Dibromochloromethane	1.80	
NE3105509									V57	Bromodichloromethane	0.60	
NE3105509									V57	Bromoform	4.20	
NE3105509			771			01/08/92	DOUGLAS CO. SID #157	NDOH	V57	Bromoform	0.50	

NOTES

- 000 = Distribution system sample    00X = Treatment plant sample    0XY = Point where 2 or more sources blend but is not a treat plt.  
XYZ = I.D. of well sampled
- ppb = parts per billion (equivalent to micrograms per liter).
- i = for compliance with VOC regs; s = special requested by NDOH; p = special requested by PWS; sp = special project; n = unknown; o = other.
- See end of report for description of Contaminant Scan codes.
- Operating status codes: P = year-round; S = seasonal; E = emergency; A = abandoned; D = physically disconnected; O = other.

April 2, 1993

**ANALYTICAL RESULTS OF SAMPLING  
FOR VOLATILE SYNTHETIC ORGANIC COMPOUNDS  
IN NEBRASKA'S PUBLIC WATER SUPPLY SYSTEMS  
COMPLIANCE MONITORING SAMPLES ONLY**

PWS ID	PUBLIC WATER SYSTEM NAME	CITY	SAMPLE LOCATION		STS	SAMPLE DATE	SAMPLING ENTITY	CONT		UNITS	
			TYP (3)	ID (1)				DESCRIPTION (5)	LAB (4)		SCAN (4)
NE3150568	ARCADIAN CORP.	BELLEVUE	i	001	P	04/16/91	Arcadian Corporation	NDOH	V57	Chloroform	0.70 ppb
NE3117901	ARLINGTON, CITY OF	ARLINGTON	i	901	P	01/24/91	NDOH	NDOH	V57	Chloroform	1.20 ppb
NE3117901					P				V57	Chloromethane	6.80 ppb
NE3117905	BLAIR, CITY OF	BLAIR	i	001	P	02/04/92	Blair	NDOH	V57	Dibromochloromethane	1.10 ppb
NE3117905					P				V57	Bromodichloromethane	5.80 ppb
NE3117905					P				V57	Chloroform	19.70 ppb
NE3117905					P	10/22/91	BLAIR	NDOH	V57	Dibromochloromethane	9.70 ppb
NE3117905					P				V57	Bromodichloromethane	17.40 ppb
NE3117905					P				V57	Bromoform	1.10 ppb
NE3117905					P				V57	Chloroform	27.60 ppb

**NOTES**

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XYZ = I.D. of well sampled
2. ppb = parts per billion (equivalent to micrograms per liter).
3. i = for compliance with VOC regs; s = special requested by NDOH; p = special requested by FWS; sp = special project; n = unknown; o = other.
4. See end of report for description of Contaminant Scan codes.
5. Operating status codes: P = year-round; S = seasonal; E = emergency; A = abandoned; D = physically disconnected; O = other.

PWS ID	PUBLIC WATER SYSTEM NAME	CITY	SAMPLE LOCATION		OPR	SAMPLE DATE	SAMPLING ENTITY	CONT		CONTAMINANT DETECTED	RESULT	UNITS
			TYP (3)	ID (1)				STS (5)	LAB (4)			
NE3105508	DOUGLAS CO. SID #177	OMAHA	i	001	P	02/20/91	NDOH	NDOH	V57	Dibromochloromethane	2.90	ppb
NE3105508					P				V57	Bromodichloromethane	1.30	ppb
NE3105508					P				V57	Bromoform	1.50	ppb
NE3105508					P				V57	Chloroform	0.50	ppb
NE3150569	DOUGLAS CO. SID #52	OMAHA	i	791	P	01/15/91	NDOH	NDOH	V57	Carbon Tetrachloride	0.20	ppb
NE3120653	FLYING J TRAVEL PLAZA	VALLEY	i	911		01/09/92	FLYING "J"	NDOH	V57	Toluene	2.70	
NE3120653									V57	Chloroform	6.00	
NE3117907	FORT CALHOUN, CITY OF	FORT CALHOUN	i	091		01/09/92	KENNARD	NDOH	V57	Toluene	0.30	
NE3104303	HUBBARD, VILLAGE OF	HUBBARD	i	741	P	01/25/93	HUBBARD	NDOH	V57	Carbon Tetrachloride	3.50	ppb
NE3104303					P				V57	Chloroform	1.00	ppb
NE3104303					P	01/04/93	HUBBARD	NDOH	V57	Carbon Tetrachloride	2.20	ppb
NE3104303					P				V57	Chloroform	0.60	ppb
NE3104303					P	05/11/92	HUBBARD	NDOH	V57	Carbon Tetrachloride	2.60	ppb
NE3104303					P				V57	Chloroform	0.60	ppb
NE3104303					P	03/04/92	Hubbard	NDOH	V57	Carbon Tetrachloride	3.10	ppb

NOTES

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XYZ = I.D. of well sampled
- ppb = parts per billion (equivalent to micrograms per liter).
- i = for compliance with VOC regs; s = special requested by NDOH; p = special requested by PWS; sp = special project; n = unknown; o = other.
- See end of report for description of Contaminant Scan codes.
- Operating status codes: P = year-round; S = seasonal; E = emergency; A = abandoned; D = physically disconnected; O = other.

PWS ID	PUBLIC WATER SYSTEM NAME	CITY	SAMPLE LOCATION		OPR	SAMPLE DATE	SAMPLING ENTITY	CONT		UNITS	
			TYP (3)	ID (1)				DESCRIPTION (5)	STS		LAB (4)
NE3104303	HUBBARD, VILLAGE OF	HUBBARD	1	741		P	03/04/92	Hubbard	NDOH V57	Chloroform	0.70 ppb
NE3104303						P	12/23/91	HUBBARD	NDOH V57	Carbon Tetrachloride	3.40 ppb
NE3104303						P			V57	Chloroform	0.70 ppb
NE3104303						P	08/22/91	Hubbard	NDOH V57	Carbon Tetrachloride	3.80 ppb
NE3104303						P			V57	Chloroform	0.70 ppb
NE3104303						P	02/13/91	NDOH	NDOH V57	Carbon Tetrachloride	4.80 ppb
NE3104303						P			V57	Chloroform	0.90 ppb
NE3120002	IOWA BEEF PACKERS, DAKOTA CITY	DAKOTA CITY	1	001		P	05/08/92	NDOH	NDOH V57	Carbon Tetrachloride	1.40 ppb
NE3120002						P			V57	Dibromochloromethane	3.00 ppb
NE3120002						P			V57	Bromodichloromethane	7.90 ppb
NE3120002						P			V57	Chloroform	12.10 ppb
NE3120658	LOGAN EAST RURAL WATER SYSTEM	OAKLAND	1	911	WELL #1	P	02/17/93	LOGAN EAST RURAL WATER	NDOH V57	Dibromochloromethane	1.20 ppb
NE3120658					WELL #1	P			V57	Bromodichloromethane	0.50 ppb
NE3120658					WELL #1	P			V57	Bromoform	1.10 ppb

NOTES

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- 1 = for compliance with VOC regs; s = special requested by NDOH; p = special requested by PWS; sp = special project; n = unknown; o = other.
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- Operating status codes: P = year-round; S = seasonal; E = emergency; A = abandoned; D = physically disconnected; O = other.

PWS ID	PUBLIC WATER SYSTEM NAME	CITY	SAMPLE LOCATION		OPR	SAMPLE	SAMPLING	CONT		CONTAMINANT DETECTED	RESULT	UNITS
			TYP ID	STS				LAB	SCAN			
			(3)	(1)	(5)	DATE	ENTITY		(4)		(2)	
NE3120658	LOGAN EAST RURAL WATER SYSTEM	OAKLAND	1	911	P	01/18/93	LOGAN EAST RURAL WATER	NDOH	V57	Dibromochloromethane	0.80	ppb
NE3120658					P				V57	Bromodichloromethane	0.90	ppb
NE3120658					P				V57	Bromoform	0.30	ppb
NE3120658					P				V57	Chloroform	1.20	ppb
NE3120658					P	08/04/92	LOGAN EAST RURAL WATER	NDOH	V57	Dibromochloromethane	1.80	ppb
NE3120658					P				V57	Bromodichloromethane	0.70	ppb
NE3120658					P				V57	Bromoform	2.30	ppb
NE3120658					P	05/20/92	Logan E. R. Water Sys.	NDOH	V57	O- Xylene	1.20	ppb
NE3120658					P				V57	M-Xylene	1.70	ppb
NE3120658					P				V57	Ethylbenzene	0.80	ppb
NE3120658					P				V57	Dibromochloromethane	2.40	ppb
NE3120658					P				V57	Bromodichloromethane	0.80	ppb

NOTES

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- 1 = for compliance with VOC regs; s = special requested by NDOH; p = special requested by PWS; sp = special project; n = unknown; o = other.
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PWS ID	PUBLIC WATER SYSTEM NAME	CITY	SAMPLE LOCATION		OPR	SAMPLE	SAMPLING	CONT		UNITS		
			TYP	ID				STS	SCAN			
			(3)	(1)	(5)	DATE	ENTITY	LAB	(4)	CONTAMINANT DETECTED	RESULT	(2)
NE3120658	LOGAN EAST RURAL WATER SYSTEM	OAKLAND	1	911	P	05/20/92	Logan E. R. Water Sys.	NDOH	V57	Bromoform	3.40	ppb
NE3102103	LYONS, CITY OF	LYONS	1	761	P	05/12/92	LYONS	NDOH	V57	1,2-Dichloroethane	0.20	ppb
NE3102103					P	12/23/91	LYONS	NDOH	V57	O- Xylene	0.60	ppb
NE3102103					P				V57	M-Xylene	1.20	ppb
NE3102103					P				V57	Bromoform	0.60	ppb
NE3102103					P	08/27/91	Lyons	NDOH	V57	1,2-Dichloroethane	0.20	ppb
NE3102103					P	01/10/91	NDOH	NDOH	V57	1,2-Dichloroethane	0.60	ppb
NE3102103				781	P	05/12/92	LYONS	NDOH	V57	1,2-Dichloroethane	0.20	ppb
NE3102103					P	12/23/91	LYONS	NDOH	V57	O- Xylene	0.50	ppb
NE3102103					P				V57	M-Xylene	0.90	ppb
NE3102103					P				V57	Ethylbenzene	0.50	ppb
NE3102103					P	08/27/91	Lyons	NDOH	V57	1,2-Dichloroethane	0.30	ppb
NE3102103					P	01/10/91	NDOH	NDOH	V57	1,2-Dichloroethane	0.70	ppb
NE3102101	OAKLAND, CITY OF	OAKLAND	1	541		10/07/92	OAKLAND	NDOH	V57	Chloroform	0.30	

NOTES

- 000 = Distribution system sample    00X = Treatment plant sample    0XY = Point where 2 or more sources blend but is not a treat plt.  
XYZ = I.D. of well sampled
- ppb = parts per billion (equivalent to micrograms per liter).
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PWS ID	PUBLIC WATER SYSTEM NAME	CITY	SAMPLE LOCATION		OPR	SAMPLE DATE	SAMPLING ENTITY	CONT		CONTAMINANT DETECTED	RESULT	UNITS
			TYP ID	STS	LAB			SCAN				
			(3)	(1)	(5)			(4)			(2)	
NE3105507	OMAHA, CITY OF	OMAHA	1	001	P	03/30/92	MUD	NDOH	V57	Dibromochloromethane	7.30	ppb
NE3105507					P				V57	Bromodichloromethane	18.90	ppb
NE3105507					P				V57	Bromoform	0.30	ppb
NE3105507					P				V57	Chloroform	43.20	ppb
NE3105507					P	09/11/90	MUD	MUD	V42	Chlorobenzene	0.15	ppb
										0		
NE3105507					P				V42	Dibromochloromethane	5.54	ppb
										0		
NE3105507					P				V42	Bromodichloromethane	10.02	ppb
										0		
NE3105507					P				V42	Bromoform	0.73	ppb
										0		
NE3105507					P				V42	Chloroform	29.23	ppb
										0		
NE3105507					P	06/13/90	MUD	MUD	V42	Chlorobenzene	0.13	ppb
										0		
NE3105507					P				V42	Methylene Chloride	1.78	ppb
										0		

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PWS ID	PUBLIC WATER SYSTEM NAME	CITY	SAMPLE LOCATION		OPR	SAMPLE DATE	SAMPLING ENTITY	LAB	SCAN	CONTAMINANT DETECTED	RESULT	UNITS
			TYP (3)	ID (1)								
NE3105507	OMAHA, CITY OF	OMAHA	i	001	P	06/13/90	MUD	MUD	V42	Dibromochloromethane	3.77	ppb
										0		
NE3105507					P				V42	Bromodichloromethane	12.10	ppb
										0		
NE3105507					P				V42	Chloroform	71.71	ppb
										0		
NE3105507					P	03/05/90	MUD	MUD	V42	1,1,2-Trichloroethane	0.66	ppb
										0		
NE3105507					P				V42	Dibromochloromethane	2.34	ppb
										0		
NE3105507					P				V42	Bromodichloromethane	4.70	ppb
										0		
NE3105507					P				V42	Chloroform	31.99	ppb
										0		
NE3105507					P	12/21/89	NDOH	NDOH	V57	Dibromochloromethane	5.56	ppb
NE3105507					P				V57	Bromodichloromethane	5.94	ppb
NE3105507					P				V57	Bromoform	2.10	ppb
NE3105507					P				V57	Chloroform	1.73	ppb
NE3105507					P	12/01/89	MUD	MUD	V42	1,1,2-Trichloroethane	0.66	ppb

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PWS ID	PUBLIC WATER SYSTEM NAME	CITY	SAMPLE LOCATION		OPR	SAMPLE	SAMPLING	CONT		UNITS		
			TYP	ID				LAB	SCAN			
(3)	(1)	(3)	(1)	DESCRIPTION	(5)	DATE	ENTITY	(4)	CONTAMINANT DETECTED	RESULT	(2)	
NE3105507	OMAHA, CITY OF	OMAHA	1	001	P	12/01/89	MUD	MUD	V42	Methylene Chloride	0.16	ppb
NE3105507					P				V42	Dibromochloromethane	4.08	ppb
NE3105507					P				V42	Bromodichloromethane	6.88	ppb
NE3105507					P				V42	Bromoform	0.20	ppb
NE3105507					P				V42	Chloroform	33.86	ppb
NE3105507					P	05/01/89	MUD	MUD	V42	Toluene	0.72	ppb
NE3105507					P				V42	Trichloroethylene	0.05	ppb
NE3105507					P				V42	Dibromochloromethane	10.92	ppb
NE3105507					P				V42	Bromodichloromethane	10.54	ppb
NE3105507					P				V42	Bromoform	0.31	ppb
NE3105507					P				V42	Chloroform	40.60	ppb
NE3105507					P	02/01/89	MUD	MUD	V42	Chlorobenzene	0.51	ppb
NE3105507					P				V42	Trans-1,2-Dichloroethylene	0.31	ppb
NE3105507					P				V42	Dibromochloromethane	4.16	ppb
NE3105507					P				V42	Bromodichloromethane	11.92	ppb

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PWS ID	PUBLIC WATER SYSTEM NAME	CITY	SAMPLE LOCATION		OPR	SAMPLE DATE	SAMPLING ENTITY	CONT		UNITS		
			TYP ID	DESCRIPTION				LAB	SCAN			
			(3)	(1)	(5)			(4)	CONTAMINANT DETECTED	RESULT	(2)	
NE3105507	OMAHA, CITY OF	OMAHA	1	001	P	02/01/89	MUD	MUD	V42	Bromoform	0.17	ppb
NE3105507					P				V42	Chloroform	45.31	ppb
NE3105507					P				V42	Dibromomethane	0.16	ppb
NE3105507					P	10/01/88	MUD	MUD	V42	Chlorobenzene	0.39	ppb
NE3105507					P				V42	Carbon Tetrachloride	0.14	ppb
NE3105507					P				V42	Trans-1,2-Dichloroethylene	0.10	ppb
NE3105507					P				V42	O-Dichlorobenzene	0.11	ppb
NE3105507					P				V42	O-Chlorotoluene	0.11	ppb
NE3105507					P				V42	Methylene Chloride	0.18	ppb
NE3105507					P				V42	Dibromochloromethane	6.09	ppb
NE3105507					P				V42	Bromodichloromethane	10.20	ppb
NE3105507					P				V42	Bromoform	0.91	ppb
NE3105507					P				V42	Chloroform	22.29	ppb
NE3105507					P				V42	Dibromomethane	0.22	ppb
NE3105507					P	07/01/88	MUD	MUD	V42	Dibromochloromethane	21.40	ppb

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PWS ID	PUBLIC WATER SYSTEM NAME	CITY	SAMPLE LOCATION		OPR STS	SAMPLE DATE	SAMPLING ENTITY	CONT		CONTAMINANT DETECTED	RESULT	UNITS
			TYP ID (3) (1)	DESCRIPTION (5)				LAB	SCAN (4)			
NE3105507	OMAHA, CITY OF	OMAHA	1	001	P	07/01/88	MUD	MUD	V42	Bromodichloromethane	28.00	ppb
NE3105507					P				V42	Bromoform	5.50	ppb
NE3105507					P				V42	Chloroform	56.90	ppb
NE3105507					P	04/18/88	MUD	MUD	V42	Benzene	0.10	ppb
NE3105507					P				V42	Dibromochloromethane	4.80	ppb
NE3105507					P				V42	Bromodichloromethane	11.50	ppb
NE3105507					P				V42	Chloroform	26.40	ppb
NE3105507				002	P	03/30/92	MUD	NDOH	V57	Dibromochloromethane	7.80	ppb
NE3105507					P				V57	Bromodichloromethane	19.90	ppb
NE3105507					P				V57	Bromoform	0.40	ppb
NE3105507					P				V57	Chloroform	31.80	ppb
NE3105507					P	09/11/90	MUD	MUD	V42	Carbon Tetrachloride	0.28	ppb
										0		
NE3105507					P				V42	Dibromochloromethane	3.95	ppb
										0		
NE3105507					P				V42	Bromodichloromethane	6.77	ppb
										0		

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PWS ID	PUBLIC WATER SYSTEM NAME	CITY	SAMPLE LOCATION		OPR	SAMPLE DATE	SAMPLING ENTITY	CONT		UNITS		
			TYP (3)	ID (1)				DESCRIPTION (5)	SCAN (4)		LAB	CONTAMINANT DETECTED
NE3105507	OMAHA, CITY OF	OMAHA	1	002	P	09/11/90	MUD	MUD	V42	Chloroform	14.81	ppb
										0		
NE3105507					P	06/13/90	MUD	MUD	V42	Methylene Chloride	0.60	ppb
										0		
NE3105507					P				V42	Dibromochloromethane	2.07	ppb
										0		
NE3105507					P				V42	Bromodichloromethane	3.98	ppb
										0		
NE3105507					P				V42	Chloroform	7.98	ppb
										0		
NE3105507					P	03/05/90	MUD	MUD	V42	1,2-Dichloroethane	0.13	ppb
										0		
NE3105507					P				V42	Trans-1,2-Dichloroethylene	0.16	ppb
NE3105507					P				V42	Dibromochloromethane	0.65	ppb
										0		
NE3105507					P				V42	Bromodichloromethane	1.17	ppb
										0		
NE3105507					P				V42	Chloroform	5.90	ppb
										0		

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PWS ID	PUBLIC WATER SYSTEM NAME	CITY	SAMPLE LOCATION		OPR STS	SAMPLE DATE	SAMPLING ENTITY	CONT		CONTAMINANT DETECTED	RESULT	UNITS (2)
			TYP ID (3)	ID (1)				DESCRIPTION	(5)			
NE3105507	OMAHA, CITY OF	OMAHA	1	002	P	12/21/89	NDOH	NDOH	V57	Dibromochloromethane	6.34	ppb
NE3105507					P				V57	Bromodichloromethane	13.44	ppb
NE3105507					P				V57	Chloroform	19.90	ppb
NE3105507					P	12/01/89	MUD	MUD	V42	1,2-Dichloroethane	0.12	ppb
NE3105507					P				V42	Trans-1,2-Dichloroethylene	0.16	ppb
NE3105507					P				V42	Methylene Chloride	0.10	ppb
NE3105507					P				V42	Dibromochloromethane	2.53	ppb
NE3105507					P				V42	Bromodichloromethane	3.01	ppb
NE3105507					P				V42	Bromoform	2.62	ppb
NE3105507					P				V42	Chloroform	9.79	ppb
NE3105507					P	05/01/89	MUD	MUD	V42	Methylene Chloride	0.29	ppb
NE3105507					P				V42	Dibromochloromethane	7.04	ppb
NE3105507					P				V42	Bromodichloromethane	4.64	ppb
NE3105507					P				V42	Bromoform	0.67	ppb
NE3105507					P				V42	Chloroform	10.45	ppb

NOTES

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			TYP ID (3)	ID (1)					DESCRIPTION (5)	SCAN (4)		
NE3105507	OMAHA, CITY OF	OMAHA	1	002	P	02/01/89	MUD	MUD	V42	Chlorobenzene	0.23	ppb
NE3105507					P				V42	Trans-1,2-Dichloroethylene	0.44	ppb
NE3105507					P				V42	Dibromochloromethane	2.08	ppb
NE3105507					P				V42	Bromodichloromethane	2.75	ppb
NE3105507					P				V42	Chloroform	6.41	ppb
NE3105507					P	10/01/88	MUD	MUD	V42	Ethylbenzene	0.38	ppb
NE3105507					P				V42	1,1,2-Trichloroethane	7.07	ppb
NE3105507					P				V42	Methylene Chloride	6.62	ppb
NE3105507					P				V42	Dibromochloromethane	5.25	ppb
NE3105507					P				V42	Bromodichloromethane	7.25	ppb
NE3105507					P				V42	Chloroform	16.21	ppb
NE3105507					P	07/01/88	MUD	MUD	V42	Dibromochloromethane	7.00	ppb
NE3105507					P				V42	Bromodichloromethane	28.80	ppb
NE3105507					P				V42	Chloroform	25.90	ppb
NE3105507					P	04/18/88	MUD	MUD	V42	Benzene	0.40	ppb

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			TYP	ID				STS	SCAN				
(3)	(1)	(3)	(1)	DESCRIPTION	(5)	DATE	ENTITY	LAB	(4)	CONTAMINANT DETECTED	RESULT	(2)	
NE3105507	OMAHA, CITY OF	OMAHA	1	002		P	04/18/88	MUD	MUD	V42	1,2-Dichloroethane	0.10	ppb
NE3105507						P				V42	Dibromochloromethane	0.30	ppb
NE3105507						P				V42	Bromodichloromethane	3.50	ppb
NE3105507						P				V42	Chloroform	5.00	ppb
NE3105507			601	M-1 MILLARD WELL		P	10/20/92	OMAHA	NDOH	V57	Chloroform	1.20	MG/L
NE3105507			602			P	12/20/89	NDOH	NDOH	V57	Dibromochloromethane	2.10	ppb
NE3105507						P				V57	Bromodichloromethane	2.30	ppb
NE3105507						P				V57	Chloroform	2.50	ppb
NE3105507			851			P	09/09/92	METROPOLIT AN UTILITIES	NDOH	V57	Chloroform	0.40	ppb
NE3105507						P	12/20/89	NDOH	NDOH	V57	Dibromochloromethane	0.60	ppb
NE3105507						P				V57	Bromodichloromethane	0.40	ppb
NE3105507			862			P	10/20/92	OMAHA	NDOH	V57	Dibromochloromethane	2.20	MG/L
NE3105507						P				V57	Bromodichloromethane	9.10	MG/L

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PWS ID	PUBLIC WATER SYSTEM NAME	CITY	SAMPLE LOCATION		OPR	SAMPLE DATE	SAMPLING ENTITY	LAB	SCAN	CONTAMINANT DETECTED	RESULT	UNITS	
			TYP (3)	ID (1)									DESCRIPTION (5)
NE3105507	OMAHA, CITY OF	OMAHA	1	862		10/20/92	OMAHA	NDOH	V57	Chloroform	26.30	MG/L	
NE3150675	OPPD FORT CALHOUN STATION	FORT CALHOUN	1	001	WELL	P	02/02/93	OPPD FORT CALHOUN	NDOH	V57	Dibromochloromethane	5.60	ppb
NE3150675					WELL	P			V57	Bromodichloromethane	9.60	ppb	
NE3150675					WELL	P			V57	Bromoform	0.90	ppb	
NE3150675					WELL	P			V57	Chloroform	34.70	ppb	
NE3150675						P	01/12/93	OPPD FORT CALHOUN STATION	NDOH	V57	Dibromochloromethane	4.90	ppb
NE3150675						P			V57	Bromodichloromethane	9.80	ppb	
NE3150675						P			V57	Chloroform	27.00	ppb	
NE3150675						P			V57	Bromomethane	0.60	ppb	
NE3150675						P	08/03/92	OPPE FT CALHOUN STATION	NDOH	V57	Bromodichloromethane	13.20	ppb
NE3150675						P			V57	Bromoform	0.80	ppb	
NE3150675						P			V57	Chloroform	51.40	ppb	
NE3150675						P	05/19/92	OPPD Fort	NDOH	V57	Dibromochloromethane	3.60	ppb

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PWS ID	PUBLIC WATER SYSTEM NAME	CITY	SAMPLE LOCATION		STS	SAMPLE DATE	SAMPLING ENTITY	CONT		CONTAMINANT DETECTED	RESULT	UNITS
			TYP ID	DESCRIPTION				LAB	SCAN			
			(3)	(1)	(5)			(4)			(2)	
							Calhoun Sta.					
NE3150675	OPPD FORT CALHOUN STATION	FORT CALHOUN	1	001		P	05/19/92	NDOH	V57	Bromodichloromethane	4.50	ppb
NE3150675						P			V57	Bromoform	0.60	ppb
NE3150675						P			V57	Chloroform	8.40	ppb
NE3150675						P	04/30/92	NDOH	NDOH V57	Dibromochloromethane	3.70	ppb
NE3150675						P			V57	Bromodichloromethane	2.90	ppb
NE3150675						P			V57	Bromoform	2.10	ppb
NE3150675						P			V57	Chloroform	4.00	ppb
NE3115313	PAPILLION, CITY OF	PAPILLION	1	461		P	05/03/89	NDOH	NDOH V57	Dibromochloromethane	8.30	ppb
NE3115313						P			V57	Bromodichloromethane	10.00	ppb
NE3115313						P			V57	Bromoform	1.90	ppb
NE3115313						P			V57	Chloroform	6.30	ppb
NE3115313				462		P	09/14/92	PAPILLION	NDOH V57	Chloroform	2.00	ppb
NE3115313						P	05/03/89	NDOH	NDOH V57	Dibromochloromethane	11.00	ppb
NE3115313						P			V57	Bromodichloromethane	13.40	ppb

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PWS ID	PUBLIC WATER SYSTEM NAME	CITY	SAMPLE LOCATION		OPR	SAMPLE	SAMPLING	CONT		UNITS		
			TYP	ID				LAB	SCAN			
(3)	(1)	(3)	(1)	(5)	(5)	(4)	(4)	(2)	(2)			
				DESCRIPTION	DATE	ENTITY	LAB	CONTAMINANT DETECTED	RESULT			
NE3115313	PAPILLION, CITY OF	PAPILLION	1	462		P	05/03/89	NDOH	NDOH V57	Bromoform	2.20	ppb
NE3115313						P			V57	Chloroform	8.80	ppb
NE3115313				561		P	05/03/89	NDOH	NDOH V57	Dibromochloromethane	12.50	ppb
NE3115313						P			V57	Bromodichloromethane	17.60	ppb
NE3115313						P			V57	Bromoform	2.60	ppb
NE3115313						P			V57	Chloroform	13.10	ppb
NE3115313				621		P	09/14/92	PAPILLION	NDOH V57	Bromodichloromethane	0.30	ppb
NE3115313						P			V57	Chloroform	1.90	ppb
NE3115313						P	05/03/89	NDOH	NDOH V57	Dibromochloromethane	11.00	ppb
NE3115313						P			V57	Bromodichloromethane	14.50	ppb
NE3115313						P			V57	Bromoform	2.40	ppb
NE3115313						P			V57	Chloroform	10.20	ppb
NE3117308	PENDER, VILLAGE OF	PENDER	1	761		P	01/06/92	PENDER	NDOH V57	Toluene	0.30	
NE3117308						P	01/17/91	NDOH	NDOH V57	1,1,1-Trichloroethane	0.50	ppb
NE3150247	PINES COUNTRY CLUB HOMEOWNERS	VALLEY	1	791		S	03/07/91	NDOH	NDOH V57	1,2,4 - Trimethylbenzene	0.40	ppb

NOTES

- 000 = Distribution system sample OOX = Treatment plant sample OXY = Point where 2 or more sources blend but is not a treat plt.  
XYZ = I.D. of well sampled
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- i = for compliance with VOC regs; s = special requested by NDOH; p = special requested by PWS; sp = special project; n = unknown; o = other.
- See end of report for description of Contaminant Scan codes.
- Operating status codes: P = year-round; S = seasonal; E = emergency; A = abandoned; D = physically disconnected; O = other.

PWS ID	PUBLIC WATER SYSTEM NAME	CITY	SAMPLE LOCATION		SAMPLE DATE	SAMPLING ENTITY	LAB	CONT	SCAN	CONTAMINANT DETECTED	RESULT	UNITS
			TYP ID	STS								
NE3120299	SAC COMMUNICATIONS SITE (ELKHO	ELKHORN	1		10/27/92	SAC ELKHORN COMM SITE	NDOH	V57		Trichloroethylene	16.30	MG/L
NE3120299								V57		Trans-1,2- Dichloroethylene	21.90	MG/L
NE3120299								V57		Cis-1,2- Dichloroethylene	10.00	MG/L
NE3120299			010	P	01/25/93	ELKHORN	NDOH	V57		Trichloroethylene	52.70	ppb
NE3120299				P				V57		Trans-1,2- Dichloroethylene	53.20	ppb
NE3120299				P				V57		1,1-Dichloroethane	0.40	ppb
NE3120299				P				V57		Dibromochloromethane	5.60	ppb
NE3120299				P				V57		Bromodichloromethane	8.90	ppb
NE3120299				P				V57		Bromoform	0.60	ppb
NE3120299				P				V57		Chloroform	9.70	ppb
NE3120299				P				V57		Cis-1,2- Dichloroethylene	30.60	ppb
NE3120299					08/20/92	NDOH	NDOH	V57		Trichloroethylene	30.20	ppb

NOTES

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XYZ = I.D. of well sampled
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- 1 = for compliance with VOC regs; s = special requested by NDOH; p = special requested by PWS; sp = special project; n = unknown; o = other.
- See end of report for description of Contaminant Scan codes.
- Operating status codes: P = year-round; S = seasonal; E = emergency; A = abandoned; D = physically disconnected; O = other.

PWS ID	PUBLIC WATER SYSTEM NAME	CITY	SAMPLE LOCATION		STS	SAMPLE DATE	SAMPLING ENTITY	LAB	SCAN	CONTAMINANT DETECTED	RESULT	UNITS
			TYP (3)	ID (1)								
NE3120299	SAC COMMUNICATIONS SITE (ELKHO)	ELKHORN	1	010		08/20/92	NDOH	NDOH	V57	Trans-1,2- Dichloroethylene	45.90	ppb
NE3120299									V57	Dibromochloromethane	0.90	ppb
NE3120299									V57	Bromodichloromethane	1.40	ppb
NE3120299									V57	Chloroform	1.40	ppb
NE3120299									V57	Cis-1,2- Dichloroethylene	23.40	ppb
NE3120299						07/30/92	NDOH	NDOH	V57	Trichloroethylene	22.50	ppb
NE3120299									V57	Trans-1,2- Dichloroethylene	32.20	ppb
NE3120299									V57	Dibromochloromethane	1.70	ppb
NE3120299									V57	Bromodichloromethane	2.20	ppb
NE3120299									V57	Chloroform	1.50	ppb
NE3120299									V57	Cis-1,2- Dichloroethylene	14.00	ppb
NE3115301	SPRINGFIELD, CITY OF	GRETNA	1	751	P	01/15/91	NDOH	NDOH	V57	Carbon Tetrachloride	0.20	ppb
NE3102102	TEKAMAH, CITY OF	TEKAMAH	1	751	P	02/17/93	TEKAMAH	NDOH	V57	1,2,4 - Trimethylbenzene	0.30	ppb

NOTES

- 000 = Distribution system sample    00X = Treatment plant sample    OXY = Point where 2 or more sources blend but is not a treat plt.  
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- ppb = parts per billion (equivalent to micrograms per liter).
- i = for compliance with VOC regs; s = special requested by NDOH; p = special requested by PWS; sp = special project; n = unknown; o = other.
- See end of report for description of Contaminant Scan codes.
- Operating status codes: P = year-round; S = seasonal; E = emergency; A = abandoned; D = physically disconnected; O = other.

PWS ID	PUBLIC WATER SYSTEM NAME	CITY	SAMPLE LOCATION		OPR	SAMPLE DATE	SAMPLING ENTITY	CONT		CONTAMINANT DETECTED	RESULT	UNITS
			TYP ID	DESCRIPTION				LAB	SCAN			
NE3105510	THOMAS FITZBERALD VETS HOME	OMAHA	1	231	P	09/19/90	NDOH	NDOH	V57	Dibromochloromethane	2.90	ppb
NE3105510					P				V57	Bromodichloromethane	2.40	ppb
NE3105510					P				V57	Bromoform	2.80	ppb
NE3105510					P				V57	Chloroform	1.90	ppb
NE3105510				581	P	08/21/90	NDOH	NDOH	V57	Tetrachloroethylene	1.20	ppb
NE3105510					P				V57	Trichloroethylene	1.90	ppb
NE3105518	VALLEY, CITY OF	VALLEY	1	351	P	10/11/90	NDOH/Valle	NDOH	V57	1,1-Dichloroethane	0.90	ppb

Y

TOTAL NUMBER OF PWS'S SAMPLED FOR VOCs TO DATE: 24

TOTAL NUMBER OF POE'S SAMPLED FOR VOCs TO DATE: 35

CONTAMINANT

SCAN CODE	CONTAMINANT SCAN DESCRIPTION
V28	First 8 regulated VOCs listed in 141.61 plus 20 of 36 listed in 141.40(e)
V42	First 8 regulated VOCs listed in 141.61 plus first 34 listed in 141.40(e).
V57	First 8 regulated VOCs listed in 141.61 plus first 34 VOCs listed in 141.40(e) plus first 15 VOCs listed in 141.40(j)

NOTES

- 000 = Distribution system sample 00X = Treatment plant sample OXY = Point where 2 or more sources blend but is not a treat plt.  
XYZ = I.D. of well sampled
- ppb = parts per billion (equivalent to micrograms per liter).
- i = for compliance with VOC regs; s = special requested by NDOH; p = special requested by PWS; sp = special project; n = unknown; o = other.
- See end of report for description of Contaminant Scan codes.
- Operating status codes: P = year-round; S = seasonal; E = emergency; A = abandoned; D = physically disconnected; O = other.

**APPENDIX C**  
**HEAVY METALS (INORGANIC COMPOUNDS)**

NATURAL RESOURCES STATE OF NEBRASKA NATURAL RESOURCES COMMISSION DATA BANK

April 02, 1993

\*\*\*\*\* USER INFORMATION \*\*\*\*\*
PUBLIC DRINKING WATER CHEMICAL AND BACTERIOLOGICAL DATA ARE ACQUIRED FROM THE STATE DEPARTMENT OF HEALTH (DOH). SAMPLE DATA ARE COLLECTED AND ANALYZED BY THE DOH LAB, OR AT LABORATORIES CERTIFIED BY THE DEPARTMENT.
BASIC DATA ARE RECEIVED PERIODICALLY FROM THE DOH IN THE FORM OF ASCII FILES. THESE RECORDS ARE REORGANIZED AND PROCESSED IN THE DATA BANK. THE INFORMATION IS THEN RETRIEVED AND DISSEMINATED TO INTERESTED AGENCIES AND PERSONS.
CURRENTLY, THE OUTPUT RESULTS GENERATED FROM DOH ASCII FILES HAVE NOT GONE THROUGH ANY QA/QC PROCESSES. USERS NOTICING ANY QUESTIONABLE RESULTS OR HAVING ANY QUESTIONS REGARDING THE SOURCE OR VALIDITY OF DATA SHOULD CONTACT THE STATE DEPARTMENT OF HEALTH, DRINKING WATER AND ENVIRONMENTAL SANITATION DIVISION, P.O. BOX 95007, LINCOLN, NEBRASKA 68509 OR CALL THE DIVISION AT (402) 471-2541.
FOR OTHER INFORMATION CONCERNING DATA ACCESSING, UPDATING, LISTING, OUTPUT FORMATTING, AND DATA PROCESSING, PLEASE CONTACT:
NATURAL RESOURCES DATA BANK
NEBRASKA NATURAL RESOURCES COMMISSION
301 CENTENNIAL MALL SOUTH
P.O. BOX 94876
LINCOLN, NEBRASKA 68509
OR CALL THE DATA BANK DURING OFFICE HOURS AT (402) 471-2081.
\*\*\*\*\*

LEGEND: NEBRASKA COUNTIES

CODE	COUNTY	CODE	COUNTY	CODE	COUNTY	CODE	COUNTY
1	ADAMS	25	DEUEL	49	JOHNSON	73	RED WILLOW
2	ANTELOPE	26	DIXON	50	KEARNEY	74	RICHARDSON
3	ARTHUR	27	DODGE	51	KEITH	75	ROCK
4	BANNER	28	DOUGLAS	52	KEYA PAHA	76	SALINE
5	BLAINE	29	DUNDY	53	KIMBALL	77	SARPY
6	BONE	30	FILLMORE	54	KNOX	78	SAUNDERS
7	BOX BUTTE	31	FRANKLIN	55	LANCASTER	79	SCOTT'S BLUFF
8	BOYD	32	FRONTIER	56	LINCOLN	80	SEWARD
9	BROWN	33	FURNAS	57	LOGAN	81	SHERIDAN
10	BUFFALO	34	GAGE	58	LOUP	82	SHERMAN
11	BURT	35	GARDEN	59	MCPHERSON	83	STACY
12	BUTLER	36	GARFIELD	60	MADISON	84	STANTON
13	CASS	37	GOSPER	61	MERRICK	85	THAYER
14	CEDAR	38	GRANT	62	MORRILL	86	THOMAS
15	CHASE	39	GREELEY	63	NANCE	87	THURSTON
16	CHERRY	40	HALL	64	NEMAHA	88	VALLEY
17	CHEYENNE	41	HAMILTON	65	NUCKOLLS	89	WASHINGTON
18	CLAY	42	HARLAN	66	OTEO	90	WAYNE
19	COLFAX	43	HAYES	67	PAWNEE	91	WEBSTER
20	CUMING	44	HITCHCOCK	68	PERKINS	92	WHEELER
21	CUSTER	45	HOLT	69	PHELPS	93	YORK
22	DAKOTA	46	HOOKER	70	PIERCE		
23	DAWES	47	HOWARD	71	PLATTE		
24	DAWSON	48	JEFFERSON	72	POLK		



DRINKING WATER SAMPLING INFORMATION  
 STATE OF NEBRASKA  
 DATA SUMMARY - HEAVY METALS  
 (UPDATED THROUGH 1992)

PAPID-MISSOURI RIVER NRD

Client ID	Client Information	County	NRD	Sampling Parameters	No. of Obs.	Maximum Value	Minimum Value	Mean Value	Date Sample Beginning	Sample Collected Ending
02102	CITY OF TEKAMAH	011	09	Arsenic	2	<0.005	<0.005	<0.0050	01-14-86	08-31-88
				Barium	NNNN	0.130	0.160	0.1750		
				Cadmium	NNNN	<0.001	<0.001	<0.0010		
				Chromium	NNNN	<0.001	<0.001	<0.0010		
				Lead	NNNN	<0.001	<0.001	<0.0010		
				Mercury	NNNN	<0.001	<0.001	<0.0010		
				Selenium	NNNN	<0.005	<0.005	<0.0050		
				Silver	NNNN	<0.001	<0.001	<0.0010		
				Nitrate	NNNN	3.800	3.000	3.4000		
				Fluoride	2	0.420	0.380	0.4000		
02104	VILLAGE OF DECATUR	011	09	Arsenic	2	<0.005	<0.005	<0.0050	01-06-86	02-29-88
				Barium	NNNN	0.130	0.110	0.1200		
				Cadmium	NNNN	<0.001	<0.001	<0.0010		
				Chromium	NNNN	<0.001	<0.001	<0.0010		
				Lead	NNNN	<0.001	<0.001	<0.0010		
				Mercury	NNNN	<0.001	<0.001	<0.0010		
				Selenium	NNNN	<0.005	<0.005	<0.0050		
				Silver	NNNN	<0.001	<0.001	<0.0010		
				Nitrate	NNNN	0.600	0.100	0.3500		
				Fluoride	2	0.400	0.390	0.3950		
04301	CITY OF DAKOTA CITY	022	09	Arsenic	2	<0.005	<0.005	<0.0050	03-03-86	11-21-88
				Barium	NNNN	<0.130	<0.100	<0.1450		
				Cadmium	NNNN	<0.001	<0.001	<0.0010		
				Chromium	NNNN	0.003	0.001	0.0020		
				Lead	NNNN	<0.001	<0.001	<0.0010		
				Mercury	NNNN	<0.001	<0.001	<0.0010		
				Selenium	NNNN	<0.005	<0.005	<0.0050		
				Silver	NNNN	<0.001	<0.001	<0.0010		
				Nitrate	NNNN	0.900	0.900	0.9000		
				Fluoride	2	0.420	0.320	0.3700		
04302	VILLAGE OF JACKSON	022	09	Arsenic	2	<0.005	<0.005	<0.0050	03-03-86	11-21-88
				Barium	NNNN	0.150	0.120	0.1350		
				Cadmium	NNNN	<0.001	<0.001	<0.0010		
				Chromium	NNNN	0.002	0.001	0.0015		
				Lead	NNNN	0.001	0.001	0.0010		
				Mercury	NNNN	<0.001	<0.001	<0.0010		
				Selenium	NNNN	<0.005	<0.005	<0.0050		
				Silver	NNNN	<0.001	<0.001	<0.0010		
				Nitrate	NNNN	0.100	0.100	0.1000		
				Fluoride	2	1.100	1.010	1.0550		

DRINKING WATER SAMPLING INFORMATION  
STATE OF NEBRASKA  
DATA SUMMARY - HEAVY METALS  
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PAPID-MISSOURI RIVER NRD

Client ID	Client Information	County	NRD	Sampling Parameters	No. of Obs.	Maximum Value	Minimum Value	Mean Value	Date Sample Beginning	Sample Collected Ending
04303	VILLAGE OF HUBBARD	022	09	Arsenic	2	<0.005	<0.005	<0.0050	03-03-86	11-21-89
				Barium	2	0.150	0.140	0.1450		
				Cadmium	2	<0.001	<0.001	<0.0010		
				Chromium	2	0.005	0.003	0.0040		
				Lead	2	<0.001	<0.001	<0.0010		
				Mercury	2	<0.001	<0.001	<0.0010		
				Selenium	2	0.008	0.008	0.0080		
				Silver	2	<0.001	<0.001	<0.0010		
				Nitrate	2	7.900	5.700	6.8000		
				Fluoride	2	0.360	0.320	0.3400		
04304	VILLAGE OF HOMER	022	09	Arsenic	2	<0.005	<0.005	<0.0050	03-04-86	11-21-89
				Barium	2	<0.100	<0.100	<0.1000		
				Cadmium	2	<0.001	<0.001	<0.0010		
				Chromium	2	0.002	0.001	0.0015		
				Lead	2	0.012	0.003	0.0075		
				Mercury	2	<0.001	<0.001	<0.0010		
				Selenium	2	<0.005	<0.005	<0.0050		
				Silver	2	<0.001	<0.001	<0.0010		
				Nitrate	2	1.100	1.100	1.1000		
				Fluoride	2	0.490	0.480	0.4850		
04305	GATEWAY MOTEL	022	09	Arsenic	2	0.007	0.007	0.0070	11-21-88	XX-XX-XX
				Barium	2	0.150	0.100	0.1250		
				Cadmium	2	<0.001	<0.001	<0.0010		
				Chromium	2	0.002	0.002	0.0020		
				Lead	2	0.018	0.003	0.0105		
				Mercury	2	<0.001	<0.001	<0.0010		
				Selenium	2	<0.005	<0.005	<0.0050		
				Silver	2	<0.001	<0.001	<0.0010		
				Nitrate	2	0.100	0.100	0.1000		
				Fluoride	2	0.360	0.280	0.3200		
04308	LAKE VILLAGE MOBILE COURT	022	09	Arsenic	2	<0.005	<0.005	<0.0050	03-12-86	11-21-89
				Barium	2	0.120	0.110	0.1150		
				Cadmium	2	<0.001	<0.001	<0.0010		
				Chromium	2	0.003	0.001	0.0020		
				Lead	2	0.001	0.001	0.0010		
				Mercury	2	<0.001	<0.001	<0.0010		
				Selenium	2	<0.005	<0.005	<0.0050		
				Silver	2	<0.001	<0.001	<0.0010		
				Nitrate	2	0.100	0.100	0.1000		
				Fluoride	2	0.410	0.380	0.3950		

DRINKING WATER SAMPLING INFORMATION  
 STATE OF NEBRASKA  
 DATA SUMMARY - HEAVY METALS  
 (UPDATED THROUGH 1992)

PAPIO-MISSOURI RIVER NRD

Client ID	Client Information	County	NRD	Sampling Parameters	No. of Obs.	Maximum Value	Minimum Value	Mean Value	Date Sample Beginning	Collected Ending
04309	CITY OF SOUTH SIOUX CITY	022	09	Arsenic	2	<0.005	<0.005	<0.0050	03-04-86	11-22-88
				Barium	2	<0.140	<0.100	<0.1200		
				Cadmium	2	<0.001	<0.001	<0.0010		
				Chromium	2	0.003	0.001	0.0020		
				Lead	2	0.001	0.001	0.0010		
				Mercury	2	<0.001	<0.001	<0.0010		
				Selenium	2	<0.005	<0.005	<0.0050		
				Silver	2	<0.001	<0.001	<0.0010		
				Nitrate	2	0.500	0.300	0.4000		
				Fluoride	2	1.140	0.430	0.7850		
05501	CITY OF ELKHORN	028	09	Arsenic	2	<0.005	<0.005	<0.0050	04-01-86	12-06-88
				Barium	2	0.180	0.180	0.1800		
				Cadmium	2	<0.001	<0.001	<0.0010		
				Chromium	2	0.004	0.002	0.0030		
				Lead	2	<0.001	<0.001	<0.0010		
				Mercury	2	<0.001	<0.001	<0.0010		
				Selenium	2	<0.005	<0.005	<0.0050		
				Silver	2	<0.001	<0.001	<0.0010		
				Nitrate	2	5.300	4.700	5.0000		
				Fluoride	2	0.270	0.250	0.2600		
05502	GREENBRIER SUBDIVISION	028	09	Arsenic	2				04-16-86	CX-XX-88
				Barium	2					
				Cadmium	2					
				Chromium	2					
				Lead	2					
				Mercury	2					
				Selenium	2					
				Silver	2					
				Nitrate	2					
				Fluoride	2					
05503	BRUNN ACRES	028	09	Arsenic	2				04-15-86	CX-XX-88
				Barium	2					
				Cadmium	2					
				Chromium	2					
				Lead	2					
				Mercury	2					
				Selenium	2					
				Silver	2					
				Nitrate	2					
				Fluoride	2					

DRINKING WATER SAMPLING INFORMATION  
 STATE OF NEBRASKA  
 DATA SUMMARY - HEAVY METALS  
 (UPDATED THROUGH 1992)

PAPIO-MISSOURI RIVER NRD

Client ID	Client Information	County	NRD	Sampling Parameters	No. of Obs.	Maximum Value	Minimum Value	Mean Value	Date Sample Beginning	Collected Ending
05504	HILAND MOBILE HOME PARK, INC	028	09	Arsenic	2	<0.005	<0.005	<0.0050	04-15-86	12-07-88
				Barium	2	0.120	0.110	0.1150		
				Cadmium	2	<0.001	<0.001	<0.0010		
				Chromium	2	0.003	0.001	0.0020		
				Lead	2	0.001	0.001	0.0010		
				Mercury	2	<0.001	<0.001	<0.0010		
				Selenium	2	<0.005	<0.005	<0.0050		
				Silver	2	<0.001	<0.001	<0.0010		
				Nitrate	2	0.6	0.6			
				Fluoride	2	0.270	0.250	0.2600		
05506	FAWN HEIGHTS SUBDIVISION	028	09	Arsenic	1	<0.005	<0.005	<0.0050	04-14-86	04-14-86
				Barium	1	<0.100	<0.100	<0.1000		
				Cadmium	1	<0.001	<0.001	<0.0010		
				Chromium	1	0.001	0.001	0.0010		
				Lead	1	<0.001	<0.001	<0.0010		
				Mercury	1	<0.001	<0.001	<0.0010		
				Selenium	1	<0.005	<0.005	<0.0050		
				Silver	1	<0.001	<0.001	<0.0010		
				Nitrate	1	<0.100	<0.100	<0.1000		
				Fluoride	1	0.350	0.350	0.3500		
05507	CITY OF OMAHA	028	09	Arsenic	2				04-14-86	CX-XX-88
				Barium	2					
				Cadmium	2					
				Chromium	2					
				Lead	2					
				Mercury	2					
				Selenium	2					
				Silver	2					
				Nitrate	2					
				Fluoride	2					
05508	RIVERSIDE LAKE SUBDIVISION	028	09	Arsenic	2	<0.005	<0.005	<0.0050	04-16-86	12-07-88
				Barium	2	0.140	0.100	0.1200		
				Cadmium	2	<0.001	<0.001	<0.0010		
				Chromium	2	0.004	0.001	0.0025		
				Lead	2	0.001	0.001	0.0010		
				Mercury	2	<0.001	<0.001	<0.0010		
				Selenium	2	<0.005	<0.005	<0.0050		
				Silver	2	<0.001	<0.001	<0.0010		
				Nitrate	2	0.3	0.3			
				Fluoride	2	0.350	0.330	0.3400		

DRINKING WATER SAMPLING INFORMATION  
 STATE OF NEBRASKA  
 DATA SUMMARY - HEAVY METALS  
 (UPDATED THROUGH 1992)

PAPIO-MISSOURI RIVER NRD

Client ID	Client Information	County	NRD	Sampling Parameters	No. of Obs.	Maximum Value	Minimum Value	Mean Value	Date Sample Beginning	Sample Collected Ending
05509	SKYLINE WATER COMPANY	028	09	Arsenic	2	<0.005	<0.005	<0.0050	04-14-86	12-07-88
				Barium	2	0.160	0.140	0.1500		
				Cadmium	2	<0.001	<0.001	<0.0010		
				Chromium	2	0.004	0.001	0.0025		
				Lead	2	0.001	0.001	0.0010		
				Mercury	2	<0.001	<0.001	<0.0010		
				Selenium	2	<0.005	<0.005	<0.0050		
				Silver	2	<0.001	<0.001	<0.0010		
				Nitrate	2	1.200	1.000	1.1000		
				Fluoride	2	0.310	0.200	0.2550		
05510	THOMAS FITZBERALD VETS HM	028	09	Arsenic	2	<0.005	<0.005	<0.0050	04-14-86	12-12-88
				Barium	2	0.230	0.160	0.1950		
				Cadmium	2	<0.001	<0.001	<0.0010		
				Chromium	2	<0.001	<0.001	<0.0010		
				Lead	2	<0.001	<0.001	<0.0010		
				Mercury	2	<0.001	<0.001	<0.0010		
				Selenium	2	<0.005	<0.005	<0.0050		
				Silver	2	<0.001	<0.001	<0.0010		
				Nitrate	2	0.500	0.400	0.4500		
				Fluoride	2	0.260	0.220	0.2400		
05511	COUNTRY SQUIRE ESTATES	028	09	Arsenic	1	<0.005	<0.005	<0.0050	04-15-86	04-15-86
				Barium	1	<0.100	<0.100	<0.1000		
				Cadmium	1	<0.001	<0.001	<0.0010		
				Chromium	1	<0.001	<0.001	<0.0010		
				Lead	1	<0.001	<0.001	<0.0010		
				Mercury	1	<0.001	<0.001	<0.0010		
				Selenium	1	<0.005	<0.005	<0.0050		
				Silver	1	<0.001	<0.001	<0.0010		
				Nitrate	1	<0.100	<0.100	<0.1000		
				Fluoride	1	0.390	0.390	0.3900		
05512	CARAT HOMES SUBDIVISION	028	09	Arsenic	1	<0.005	<0.005	<0.0050	04-15-86	04-15-86
				Barium	1	0.170	0.170	0.1700		
				Cadmium	1	<0.001	<0.001	<0.0010		
				Chromium	1	0.001	0.001	0.0010		
				Lead	1	<0.001	<0.001	<0.0010		
				Mercury	1	<0.001	<0.001	<0.0010		
				Selenium	1	<0.005	<0.005	<0.0050		
				Silver	1	<0.001	<0.001	<0.0010		
				Nitrate	1	<0.100	<0.100	<0.1000		
				Fluoride	1	0.250	0.250	0.2500		

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05514	LAKELAND ESTATES WATER CO	089	09	Arsenic	2	<0.005	<0.005	<0.0050	04-16-86	12-13-88
				Barium	2	<0.100	<0.100	<0.1000		
				Cadmium	2	<0.001	<0.001	<0.0010		
				Chromium	2	<0.001	<0.001	<0.0010		
				Lead	2	<0.001	<0.001	<0.0010		
				Mercury	2	<0.001	<0.001	<0.0010		
				Selenium	2	<0.005	<0.005	<0.0050		
				Silver	2	<0.001	<0.001	<0.0010		
				Nitrate	2					
				Fluoride	2					
05515	GREEN MEADOWS SUBDIVISION	028	09	Arsenic	1	<0.005	<0.005	<0.0050	04-16-86	04-16-86
				Barium	1	0.140	0.140	0.1400		
				Cadmium	1	<0.001	<0.001	<0.0010		
				Chromium	1	0.004	0.004	0.0040		
				Lead	1	<0.001	<0.001	<0.0010		
				Mercury	1	<0.001	<0.001	<0.0010		
				Selenium	1	<0.005	<0.005	<0.0050		
				Silver	1	<0.001	<0.001	<0.0010		
				Nitrate	1					
				Fluoride	1	0.300	0.300	0.3000		
05516	VILLAGE OF BENNINGTON	028	09	Arsenic	2	<0.005	<0.005	<0.0050	04-09-85	12-12-88
				Barium	2	<0.100	<0.100	<0.1000		
				Cadmium	2	<0.001	<0.001	<0.0010		
				Chromium	2	<0.001	<0.001	<0.0010		
				Lead	2	<0.001	<0.001	<0.0010		
				Mercury	2	<0.001	<0.001	<0.0010		
				Selenium	2	<0.005	<0.005	<0.0050		
				Silver	2	<0.001	<0.001	<0.0010		
				Nitrate	2	0.1	0.1			
				Fluoride	2	0.300	0.290	0.2950		
05517	VILLAGE OF WATERLOO	028	09	Arsenic	2	<0.005	<0.005	<0.0050	04-21-86	12-12-88
				Barium	2	0.340	0.260	0.3000		
				Cadmium	2	<0.001	<0.001	<0.0010		
				Chromium	2	0.001	0.001	0.0010		
				Lead	2	<0.001	<0.001	<0.0010		
				Mercury	2	<0.001	<0.001	<0.0010		
				Selenium	2	<0.005	<0.005	<0.0050		
				Silver	2	<0.001	<0.001	<0.0010		
				Nitrate	2	0.400	0.100	0.2500		
				Fluoride	2	0.380	0.330	0.3550		

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08-17-92	--	497	0.68	1030	95.00	4.5	4.5	300	--	338
08-17-92	<0.05	501	0.68	1030	95.00	3.3	5.3	--	<0.05	344
07-21-92	--	--	--	1046	115.00	3.1	4.2	250	--	--
07-15-92	--	--	--	1368	300.00	--	--	--	--	--
07-14-92	--	--	--	1227	155.00	--	--	--	--	--
07-20-92	--	427	0.58	1270	100.00	11	5.3	1200	--	319
07-20-92	--	--	--	1070	93.00	5.7	9.2	300	--	--
07-14-92	--	--	--	1261	37.00	--	--	--	--	--
07-14-92	--	1220	1.66	1248	325.00	21	30	190	--	230
07-21-92	--	1240	1.68	1410	565.00	26	30	280	--	221
07-21-92	--	--	--	1091	153.00	--	--	--	--	--
07-15-92	--	791	1.08	1095	162.00	4.6	10	480	--	443
08-17-92	--	782	1.06	1080	105.00	4.5	12	320	--	546
07-21-92	--	1110	1.51	1100	270.00	7.7	19	--	--	382
07-21-92	--	1110	1.51	1100	270.00	15	17	--	--	382

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05518	CITY OF VALLEY	028	09	Arsenic	2	<0.005	<0.005	<0.0050	04-14-86	12-14-96
				Barium	2	0.350	0.300	0.3250		
				Cadmium	2	<0.001	<0.001	<0.0010		
				Chromium	2	0.004	0.001	0.0025		
				Lead	2	<0.001	<0.001	<0.0010		
				Mercury	2	<0.001	<0.001	<0.0010		
				Selenium	2	<0.005	<0.005	<0.0050		
				Silver	2	<0.001	<0.001	<0.0010		
				Nitrate	2	6.500	3.800	5.2000		
				Fluoride	2	0.300	0.290	0.2950		
05519	GINGER WOODS SUBDIVISION	028	09	Arsenic	1	<0.005	<0.005	<0.0050	04-14-86	04-14-86
				Barium	1	0.150	0.150	0.1500		
				Cadmium	1	<0.001	<0.001	<0.0010		
				Chromium	1	0.001	0.001	0.0010		
				Lead	1	<0.001	<0.001	<0.0010		
				Mercury	1	<0.001	<0.001	<0.0010		
				Selenium	1	<0.005	<0.005	<0.0050		
				Silver	1	<0.001	<0.001	<0.0010		
				Nitrate	1	<0.100	<0.100	<0.1000		
				Fluoride	1	0.340	0.340	0.3400		
05520	GINGER COVE SUBDIVISION	028	09	Arsenic	1	<0.005	<0.005	<0.0050	04-14-86	04-14-86
				Barium	1	0.150	0.150	0.1500		
				Cadmium	1	<0.001	<0.001	<0.0010		
				Chromium	1	0.001	0.001	0.0010		
				Lead	1	<0.001	<0.001	<0.0010		
				Mercury	1	<0.001	<0.001	<0.0010		
				Selenium	1	<0.005	<0.005	<0.0050		
				Silver	1	<0.001	<0.001	<0.0010		
				Nitrate	1	<0.100	<0.100	<0.1000		
				Fluoride	1	0.350	0.350	0.3500		
05522	TRAILRIDGE RANCHES	028	09	Arsenic	2	0.005	0.005		00-00-00	2-12-83
				Barium	2	0.120	0.120			
				Cadmium	2	0.001	0.001			
				Chromium	2	0.002	0.002			
				Lead	2	0.001	0.001			
				Mercury	2	0.001	0.001			
				Selenium	2	0.005	0.005			
				Silver	2	0.001	0.001			
				Nitrate	2	0.3	0.3			
				Fluoride	2	0.20	0.20			



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05523	TERRA LINDE ESTATES	028	09	Arsenic	2				00-00-00	CX-XX-35
				Barium	2					
				Cadmium	2					
				Chromium	2					
				Lead	2					
				Mercury	2					
				Selenium	2					
				Silver	2					
				Nitrate	2					
				Fluoride	2					
05524	CAMP MAHA G.S.C. INC.	028	09	Arsenic	2	0.006	0.005	0.0055	04-22-86	12-14-83
				Barium	2	0.790	0.115	0.4525		
				Cadmium	2	<0.001	<0.001	<0.0010		
				Chromium	2	<0.001	<0.001	<0.0010		
				Lead	2	<0.001	<0.001	<0.0010		
				Mercury	2	<0.001	<0.001	<0.0010		
				Selenium	2	<0.005	<0.005	<0.0050		
				Silver	2	<0.001	<0.001	<0.0010		
				Nitrate	2	0.1	0.1			
				Fluoride	2	0.390	0.310	0.3500		
05526	POLLING MEADOWS	028	09	Arsenic	2	<0.005	<0.005	<0.0050	04-28-86	12-13-83
				Barium	2	0.170	0.150	0.1600		
				Cadmium	2	<0.001	<0.001	<0.0010		
				Chromium	2	0.006	0.001	0.0035		
				Lead	2	<0.001	<0.001	<0.0010		
				Mercury	2	<0.001	<0.001	<0.0010		
				Selenium	2	<0.005	<0.005	<0.0050		
				Silver	2	<0.001	<0.001	<0.0010		
				Nitrate	2	0.100	0.100	0.1000		
				Fluoride	2	0.270	0.230	0.2500		
10920	SARPY HEIGHTS SUBDIVISION	077	09	Arsenic	3	<0.005	<0.005	<0.0050	12-10-86	06-05-90
				Barium	3	<0.100	<0.100	<0.1000		
				Cadmium	3	<0.001	<0.001	<0.0010		
				Chromium	3	0.001	0.001	0.0010		
				Lead	3	<0.001	<0.001	<0.0010		
				Mercury	3	<0.001	<0.001	<0.0010		
				Selenium	3	0.006	0.005	0.0060		
				Silver	3	<0.001	<0.001	<0.0010		
				Nitrate	3	0.200	0.100	0.1333		
				Fluoride	3	0.240	0.200	0.2133		

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15301	CITY OF SPRINGFIELD	077	09	Arsenic	2	<0.005	<0.005	<0.0050	09-08-87	10-24-90
				Barium	2	0.250	0.190	0.2200		
				Cadmium	2	<0.001	<0.001	<0.0010		
				Chromium	2	<0.001	<0.001	<0.0010		
				Lead	2	<0.001	<0.001	<0.0010		
				Mercury	2	<0.001	<0.001	<0.0010		
				Selenium	2	<0.005	<0.005	<0.0050		
				Silver	2	<0.001	<0.001	<0.0010		
				Nitrate	2	2.500	2.500	2.5000		
Fluoride	2	0.260	0.200	0.2300						
15302	MEADOW OAKS SIG # 79	077	09	Arsenic	1	0.008	0.008	0.0090	09-08-87	09-08-87
				Barium	1	0.280	0.280	0.2800		
				Cadmium	1	<0.001	<0.001	<0.0010		
				Chromium	1	0.002	0.002	0.0020		
				Lead	1	0.004	0.004	0.0040		
				Mercury	1	<0.001	<0.001	<0.0010		
				Selenium	1	0.008	0.005	0.0090		
				Silver	1	<0.001	<0.001	<0.0010		
				Nitrate	1	3.000	3.000	3.0000		
Fluoride	1	0.400	0.400	0.4000						
15303	CITY OF GRETNA	077	09	Arsenic	2	<0.005	<0.005	<0.0050	09-09-87	10-29-90
				Barium	2	0.200	0.130	0.1650		
				Cadmium	2	<0.001	<0.001	<0.0010		
				Chromium	2	0.002	0.001	0.0015		
				Lead	2	<0.001	<0.001	<0.0010		
				Mercury	2	<0.001	<0.001	<0.0010		
				Selenium	2	<0.006	<0.005	<0.0055		
				Silver	2	<0.001	<0.001	<0.0010		
				Nitrate	2	3.500	2.300	3.2000		
Fluoride	2	0.260	0.200	0.2300						
15304	WESTRIDGE FARMS INC.	077	09	Arsenic	2				09-08-87	CX-XX-90
				Barium	2					
				Cadmium	2					
				Chromium	2					
				Lead	2					
				Mercury	2					
				Selenium	2					
				Silver	2					
				Nitrate	2					
Fluoride	2									

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15305	SARPY CO. SID # 24	077	09	Arsenic	2	<0.005	<0.005	<0.0050	09-09-87	10-23-90
				Barium	2	0.200	0.100	0.1500		
				Cadmium	2	<0.001	<0.001	<0.0010		
				Chromium	2	0.002	0.001	0.0015		
				Lead	2	0.003	0.001	0.0020		
				Mercury	2	<0.001	<0.001	<0.0010		
				Selenium	2	0.006	0.005	0.0055		
				Silver	2	<0.001	<0.001	<0.0010		
				Nitrate	2	0.900	0.500	0.7000		
				Fluoride	2	0.360	0.300	0.3300		
15306	CITY OF BELLEVUE	077	09	Arsenic	1	0.005	0.005	0.0050	09-29-87	09-29-87
				Barium	1	<0.100	<0.100	<0.1000		
				Cadmium	1	<0.001	<0.001	<0.0010		
				Chromium	1	0.001	0.001	0.0010		
				Lead	1	<0.001	<0.001	<0.0010		
				Mercury	1	<0.001	<0.001	<0.0010		
				Selenium	1	<0.005	<0.005	<0.0050		
				Silver	1	<0.001	<0.001	<0.0010		
				Nitrate	1	0.700	0.900	0.9000		
				Fluoride	1	0.890	0.890	0.8900		
15307	SANDS MOBILE HOME PARK	028	09	Arsenic	2	0.008	0.007	0.0075	09-08-87	11-01-90
				Barium	2	0.220	0.200	0.2100		
				Cadmium	2	<0.001	<0.001	<0.0010		
				Chromium	2	<0.001	<0.001	<0.0010		
				Lead	2	<0.001	<0.001	<0.0010		
				Mercury	2	<0.001	<0.001	<0.0010		
				Selenium	2	<0.005	<0.005	<0.0050		
				Silver	2	<0.001	<0.001	<0.0010		
				Nitrate	2	11.50	0.300	5.9000		
				Fluoride	2	0.600	0.260	0.4300		
15308	HAWAIIAN VILLAGE STD 97	028	09	Arsenic	2				09-08-87	CX-XX-90
				Barium	2					
				Cadmium	2					
				Chromium	2					
				Lead	2					
				Mercury	2					
				Selenium	2					
				Silver	2					
				Nitrate	2					
				Fluoride	2					

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15309	FAIRVIEW HEIGHTS SUBDIV.	077	09	Arsenic	2	<0.005	<0.005	<0.0050	09-??-87	11-07-90
				Barium	2	0.290	0.210	0.2500		
				Cadmium	2	<0.001	<0.001	<0.0010		
				Chromium	2	<0.001	<0.001	<0.0010		
				Lead	2	<0.001	<0.001	<0.0010		
				Mercury	2	<0.001	<0.001	<0.0010		
				Selenium	2	<0.005	<0.005	<0.0050		
				Silver	2	<0.001	<0.001	<0.0010		
				Nitrate	2	3.000	2.700	2.8500		
				Fluoride	2	0.220	0.200	0.2100		
15311	LONG VIEW TRAILER COURT	077	09	Arsenic	1	<0.005	<0.005	<0.0050	09-09-87	09-09-87
				Barium	1	<0.100	<0.100	<0.1000		
				Cadmium	1	<0.001	<0.001	<0.0010		
				Chromium	1	0.001	0.001	0.0010		
				Lead	1	<0.001	<0.001	<0.0010		
				Mercury	1	<0.001	<0.001	<0.0010		
				Selenium	1	<0.005	<0.005	<0.0050		
				Silver	1	<0.001	<0.001	<0.0010		
				Nitrate	1	<0.1	<0.1			
				Fluoride,	1	<0.20	<0.20			
15312	WESTMONT SUBDIVISION (SID # 23)	028	09	Arsenic	2	0.005	0.005		04-25-88	00-00-90
				Barium	2	0.115	0.115			
				Cadmium	2	0.001	0.001			
				Chromium	2	0.002	0.002			
				Lead	2	0.001	0.001			
				Mercury	2	0.001	0.001			
				Selenium	2	0.005	0.005			
				Silver	2	0.001	0.001			
				Nitrate	2	0.1	0.1			
				Fluoride	2	0.23	0.23			
15313	CITY OF PAPILLION	077	09	Arsenic	2	<0.005	<0.005	<0.0050	09-23-87	11-07-90
				Barium	2	0.270	0.220	0.2450		
				Cadmium	2	<0.001	<0.001	<0.0010		
				Chromium	2	<0.001	<0.001	<0.0010		
				Lead	2	<0.001	<0.001	<0.0010		
				Mercury	2	<0.001	<0.001	<0.0010		
				Selenium	2	<0.005	<0.005	<0.0050		
				Silver	2	<0.001	<0.001	<0.0010		
				Nitrate	2	0.100	0.100	0.1000		
				Fluoride	2	1.010	0.900	0.9550		

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15514	FAIRHEADS SID 279	028	09	Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver Nitrate Fluoride	2 2 2 2 2 2 2 2 2 2				09-21-87	CX-XX-90
17301	VILLAGE OF WALTHILL	087	09	Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver Nitrate Fluoride	2 2 2 2 2 2 2 2 2 2				00-00-00	CX-XX-90
17302	CITY OF WINNEBAGO	087	09	Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver Nitrate Fluoride	2 2 2 2 2 2 2 2 2 2				11-02-87	CX-XX-90
17304	HACY SANITARY DISTRICT	087	09	Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver Nitrate Fluoride	2 2 2 2 2 2 2 2 2 2				11-02-87	CX-XX-90

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17306	WINNEBAGO AGENCY	087	09	Arsenic	2				11-02-87	CX-XX-90
				Barium	2					
				Cadmium	2					
				Chromium	2					
				Lead	2					
				Mercury	2					
				Selenium	2					
				Silver	2					
				Nitrate	2					
				Fluoride	2					
17901	ARLINGTON, CITY OF	089	09	Arsenic	2	0.005	0.005		11-02-87	CX-XX-90
				Barium	2	0.100	0.100			
				Cadmium	2	0.001	0.001			
				Chromium	2	0.001	0.001			
				Lead	2	0.001	0.001			
				Mercury	2	0.001	0.001			
				Selenium	2	0.005	0.005			
				Silver	2	0.001	0.001			
				Nitrate	2	0.2	0.2			
				Fluoride	2	0.38	0.38			
17902	PIONEER HILLS SUBDIVISION	089	09	Arsenic	2				11-03-87	CX-XX-90
				Barium	2					
				Cadmium	2					
				Chromium	2					
				Lead	2					
				Mercury	2					
				Selenium	2					
				Silver	2					
				Nitrate	2					
				Fluoride	2					
17903	COUNTRY ESTATES	089	09	Arsenic	2	0.005	0.005		11-18-87	CX-XX-90
				Barium	2	0.100	0.100			
				Cadmium	2	0.001	0.001			
				Chromium	2	0.004	0.004			
				Lead	2	0.001	0.001			
				Mercury	2	0.001	0.001			
				Selenium	2	0.005	0.005			
				Silver	2	0.001	0.001			
				Nitrate	2	<0.1	<0.1			
				Fluoride	2	0.29	0.29			

DRINKING WATER SAMPLING INFORMATION  
 STATE OF NEBRASKA  
 DATA SUMMARY - HEAVY METALS  
 (UPDATED THROUGH 1992)

PAPIO-MISSOURI RIVER NRD

Client ID	Client Information	County	NRD	Sampling Parameters	No. of Obs.	Maximum Value	Minimum Value	Mean Value	Date Sample Beginning	Collected Ending
17904	COUNTRY LAND ESTATES SUB.	089	09	Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver Nitrate Fluoride	2 N N N N N N N N N				11-02-87	CX-XX-90
17905	SLAIR, CITY OF	089	09	Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver Nitrate Fluoride	2 N N N N N N N N N	0.005 0.100 0.001 0.003 0.001 0.001 0.005 0.001 0.3 0.96	0.005 0.100 0.001 0.003 0.001 0.001 0.005 0.001 0.3 0.96		11-03-87	CX-XX-90
17906	KENNARD, VILLAGE OF	089	09	Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver Nitrate Fluoride	2 N N N N N N N N N	0.005 0.440 0.001 0.001 0.001 0.001 0.005 0.001 <0.1 0.40	0.005 0.440 0.001 0.001 0.001 0.001 0.005 0.001 <0.1 0.40		11-02-87	CX-XX-90
17907	CITY OF FORT CALHOUN	089	09	Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver Nitrate Fluoride	2 N N N N N N N N N				11-02-87	CX-XX-90

DRINKING WATER SAMPLING INFORMATION  
 STATE OF NEBRASKA  
 DATA SUMMARY - HEAVY METALS  
 (UPDATED THROUGH 1992)

PAPIO-MISSOURI RIVER NRD

Client ID	Client Information	County	NRD	Sampling Parameters	No. of Obs.	Maximum Value	Minimum Value	Mean Value	Date Sample Beginning	Collected Ending
17908	HERMAN, VILLAGE OF	089	09	Arsenic	2	0.005	0.005		11-10-87	CX-XX-90
				Barium	2	0.175	0.175			
				Cadmium	2	0.001	0.001			
				Chromium	2	0.001	0.001			
				Lead	2	0.003	0.003			
				Mercury	2	0.001	0.001			
				Selenium	2	0.005	0.005			
				Silver	2	0.001	0.001			
				Nitrate	2	0.3	0.3			
				Fluoride	2	0.38	0.38			
20002	IOWA BEEF PROCESSORS INC	022	09	Arsenic	1	<0.005	<0.005	<0.0050	11-18-87	11-18-87
				Barium	1	<0.100	<0.100	<0.1000		
				Cadmium	1	<0.001	<0.001	<0.0010		
				Chromium	1	<0.001	<0.001	<0.0010		
				Lead	1	<0.001	<0.001	<0.0010		
				Mercury	1	<0.001	<0.001	<0.0010		
				Selenium	1	<0.005	<0.005	<0.0050		
				Silver	1	<0.001	<0.001	<0.0010		
				Nitrate	1	<0.1	<0.1			
				Fluoride	1	0.400	0.400	0.4000		
20004	PAPIO NRD	028	09	Arsenic	2				05-03-88	CX-XX-90
				Barium	2					
				Cadmium	2					
				Chromium	2					
				Lead	2					
				Mercury	2					
				Selenium	2					
				Silver	2					
				Nitrate	2					
				Fluoride	2					
20040	SARPY CO CIVIL DEFENSE	077	05	Arsenic	1	0.005	0.005	0.0050	11-16-87	11-16-87
				Barium	1	0.150	0.150	0.1500		
				Cadmium	1	<0.001	<0.001	<0.0010		
				Chromium	1	0.001	0.001	0.0010		
				Lead	1	<0.001	<0.001	<0.0010		
				Mercury	1	<0.001	<0.001	<0.0010		
				Selenium	1	<0.005	<0.005	<0.0050		
				Silver	1	<0.001	<0.001	<0.0010		
				Nitrate	1	0.200	0.200	0.2000		
				Fluoride	1	0.870	0.870	0.8700		



DRINKING WATER SAMPLING INFORMATION  
 STATE OF NEBRASKA  
 DATA SUMMARY - HEAVY METALS  
 (UPDATED THROUGH 1992)

PAPIJ-MISSOURI RIVER NRD

Client ID	Client Information	County	NRD	Sampling Parameters	No. of Obs.	Maximum Value	Minimum Value	Mean Value	Date Sample Beginning	Sample Collected Ending
20046	MOUNT MICHAEL ABBEY	028	09	Arsenic	2				11-16-87	CX-XX-90
				Barium	2					
				Cadmium	2					
				Chromium	2					
				Lead	2					
				Mercury	2					
				Selenium	2					
				Silver	2					
				Nitrate	2					
				Fluoride	2					
20048	OMAHA REGENCY	028	09	Arsenic	2				12-12-87	CX-XX-90
				Barium	2					
				Cadmium	2					
				Chromium	2					
				Lead	2					
				Mercury	2					
				Selenium	2					
				Silver	2					
				Nitrate	2					
				Fluoride	2					
20055	ST AUGUSTINE INDIAN MISS.	087	09	Arsenic	1	<0.005	<0.005	<0.0050	12-01-87	12-01-87
				Barium	1	<0.100	<0.100	<0.1000		
				Cadmium	1	<0.001	<0.001	<0.0010		
				Chromium	1	<0.001	<0.001	<0.0010		
				Lead	1	0.001	0.001	0.0010		
				Mercury	1	<0.001	<0.001	<0.0010		
				Selenium	1	<0.005	<0.005	<0.0050		
				Silver	1	<0.001	<0.001	<0.0010		
				Nitrate	1	0.400	0.400	0.4000		
				Fluoride	1	1.400	1.400	1.4000		
20157	HIGHLAND ESTATES SUB. (SID # 38)	077	09	Arsenic	2	0.005	0.005		12-16-87	CX-XX-90
				Barium	2	0.210	0.210			
				Cadmium	2	0.001	0.001			
				Chromium	2	0.006	0.006			
				Lead	2	0.302	0.002			
				Mercury	2	0.001	0.001			
				Selenium	2	0.005	0.005			
				Silver	2	0.001	0.001			
				Nitrate	2	2.6	2.6			
				Fluoride	2	0.21	0.21			

DRINKING WATER SAMPLING INFORMATION  
 STATE OF NEBRASKA  
 DATA SUMMARY - HEAVY METALS  
 (UPDATED THROUGH 1992)

PAPID-MISSOURI RIVER NRD

Client ID	Client Information	County	NRD	Sampling Parameters	No. of Obs.	Maximum Value	Minimum Value	Mean Value	Date Sample Beginning	Sample Collected Ending
20176	WINNEBAGO POW WOW	087	09	Arsenic	2				12-08-87	CX-XX-90
				Barium	2					
				Cadmium	2					
				Chromium	2					
				Lead	2					
				Mercury	2					
				Selenium	2					
				Silver	2					
				Nitrate	2					
				Fluoride	2					
20299	SAC COMMUNICATIONS SITE	028	09	Arsenic	1	<0.005	<0.005	<0.0050	12-01-87	12-01-87
				Barium	1	<0.100	<0.100	<0.1000		
				Cadmium	1	<0.001	<0.001	<0.0010		
				Chromium	1	<0.001	<0.001	<0.0010		
				Lead	1	0.001	0.001	0.0010		
				Mercury	1	<0.001	<0.001	<0.0010		
				Selenium	1	<0.005	<0.005	<0.0050		
				Silver	1	<0.001	<0.001	<0.0010		
				Nitrate	1	<0.1	<0.1			
				Fluoride	1	0.220	0.220	0.2200		
20301	RURAL WATER PROJECT #2	087	09	Arsenic	1	<0.005	<0.005	<0.0050	12-01-87	12-01-87
				Barium	1	0.105	0.105	0.1050		
				Cadmium	1	<0.001	<0.001	<0.0010		
				Chromium	1	0.003	0.003	0.0030		
				Lead	1	<0.001	<0.001	<0.0010		
				Mercury	1	<0.001	<0.001	<0.0010		
				Selenium	1	0.015	0.015	0.0150		
				Silver	1	<0.001	<0.001	<0.0010		
				Nitrate	1	5.500	5.500	5.5000		
				Fluoride	1	0.280	0.280	0.2800		
20302	MIDDLE MO RURAL WATER	022	09	Arsenic	1	<0.005	<0.005	<0.0050	11-30-87	11-30-87
				Barium	1	<0.100	<0.100	<0.1000		
				Cadmium	1	<0.001	<0.001	<0.0010		
				Chromium	1	<0.001	<0.001	<0.0010		
				Lead	1	<0.001	<0.001	<0.0010		
				Mercury	1	<0.001	<0.001	<0.0010		
				Selenium	1	<0.005	<0.005	<0.0050		
				Silver	1	<0.001	<0.001	<0.0010		
				Nitrate	1	0.900	0.900	0.9000		
				Fluoride	1	0.360	0.350	0.3600		

DRINKING WATER ANALYSIS INFORMATION  
 STATE OF NEBRASKA  
 DATA SUMMARY - HEAVY METALS  
 (UPDATED THROUGH 1992)

PAPIO-MISSOURI RIVER NRD

Client ID	Client Information	County	NRD	Sampling Parameters	No. of Obs.	Maximum Value	Minimum Value	Mean Value	Date Sample Beginning	Sample Collected Ending
20574	133 ESTATES	089	09	Arsenic	1				CX-XX-90	CX-XX-90
				Barium	1					
				Cadmium	1					
				Chromium	1					
				Lead	1					
				Mercury	1					
				Selenium	1					
				Silver	1					
				Nitrate	1					
				Fluoride	1					
30005	THE FARM SUBDIV. SID #227	028	09	Arsenic	2				12-15-87	CX-XX-90
				Barium	2					
				Cadmium	2					
				Chromium	2					
				Lead	2					
				Mercury	2					
				Selenium	2					
				Silver	2					
				Nitrate	2					
				Fluoride	2					
50241	SKYLINE WOODS HOMEOWNERS ASSOC.	028	09	Arsenic	2				CX-XX-90	CX-XX-90
				Barium	2					
				Cadmium	2					
				Chromium	2					
				Lead	2					
				Mercury	2					
				Selenium	2					
				Silver	2					
				Nitrate	2					
				Fluoride	2					
50247	PINES COUNTRY CLUB HOMEOWNERS ASSOC	028	09	Arsenic	1				CX-XX-90	CX-XX-90
				Barium	1					
				Cadmium	1					
				Chromium	1					
				Lead	1					
				Mercury	1					
				Selenium	1					
				Silver	1					
				Nitrate	1					
				Fluoride	1					

**APPENDIX D**  
**NITRATE/SODIUM MONITORING OF COMMUNITY WATER SYSTEMS**

NATURAL RESOURCES

STATE OF NEBRASKA  
NATURAL RESOURCES COMMISSION

DATA BANK

April 02, 1993

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*
* PUBLIC DRINKING WATER CHEMICAL AND BACTERIOLOGICAL DATA ARE ACQUIRED
* FROM THE STATE DEPARTMENT OF HEALTH (DOH). SAMPLE DATA ARE COLLECTED
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* DEPARTMENT.
*
* BASIC DATA ARE RECEIVED PERIODICALLY FROM THE DOH IN THE FORM OF ASCII
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* THE INFORMATION IS THEN RETRIEVED AND DISSEMINATED TO INTERESTED
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*
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* ENVIRONMENTAL SANITATION DIVISION, P.O. BOX 95007, LINCOLN, NEBRASKA
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*
* FOR OTHER INFORMATION CONCERNING DATA ACCESSING, UPDATING, LISTING,
* OUTPUT FORMATTING, AND DATA PROCESSING, PLEASE CONTACT:
*
*     NATURAL RESOURCES DATA BANK
*     NEBRASKA NATURAL RESOURCES COMMISSION
*     301 CENTENNIAL WALL SOUTH
*     P.O. BOX 94975
*     LINCOLN, NEBRASKA 68509
*
* OR CALL THE DATA BANK DURING OFFICE HOURS AT (402) 471-2081.
*
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LEGEND: NEBRASKA COUNTIES

CODE	COUNTY	CODE	COUNTY	CODE	COUNTY	CODE	COUNTY
1	ADAMS	25	DEUEL	49	JOHNSON	73	RED WILLOW
2	ANTELOPE	26	DIXON	50	KEARNEY	74	RICHARDSON
3	ARTHUR	27	DODGE	51	KEITH	75	ROCK
4	BANNER	28	DOUGLAS	52	KEYA PAHA	76	SALINE
5	BLAINE	29	DUNDY	53	KIMBALL	77	SARPY
6	BODINE	30	FILLMORE	54	KNOX	78	SAUNDERS
7	BOX BUTTE	31	FRANKLIN	55	LANCASTER	79	SCOTTS BLUFF
8	BOYD	32	FRONTIER	56	LINCOLN	80	SEWARD
9	BROWN	33	FURNAS	57	LOGAN	81	SHERIDAN
10	BUFFALO	34	GAS	58	LOUISIANA	82	SHERMAN
11	BURT	35	GARDEN	59	MC PHERSON	83	SIOUX
12	BUTLER	36	GARFIELD	60	MADISON	84	STANTON
13	CASS	37	GOSPER	61	MERRICK	85	THAYER
14	CECIL	38	GRANT	62	MORRILL	86	THOMAS
15	CEMETER	39	GREELY	63	NANCE	87	THURSTON
16	CHERRY	40	HALL	64	NEMAHA	88	VALLEY
17	CHERRY WNE	41	HAMILTON	65	HUCKOLLS	89	WASHINGTON
18	CLAY	42	HARLAN	66	OTIE	90	WAYNE
19	COLFAX	43	HAYES	67	PAWNEE	91	WEBSTER
20	CUMING	44	HITCHCOCK	68	PERKINS	92	WHEELING
21	CUSTER	45	HOLT	69	PHELPS	93	YORK
22	JAKOTA	46	HODGKIN	70	PIERCE		
23	DAMES	47	HOWARD	71	PLATT		
24	JAKSON	48	JEFFERSON	72	POLK		

PAPID-MISSOURI RIVER NRD

Client ID	Client Information	County	NRD	Sampling Parameters	No. of Obs.	Maximum Value	Minimum Value	Mean Value	Date Sample Beginning	Sample Collected Ending
02102	CITY OF TEKAMAH	011	09	Nitrate Sodium	4	7.20 34.0	3.40 13.0	4.600 19.00	12-31-86	10-03-89
02104	DECATUR, VILLAGE OF	011	09	Nitrate Sodium	4	0.70 26.0	0.40 20.0	0.550 23.75	09-08-87	10-03-89
04301	CITY OF DAKOTA CITY	022	09	Nitrate Sodium	4	0.90 63.0	0.60 46.0	0.775 54.00	01-15-87	10-23-89
04302	JACKSON, VILLAGE OF	022	09	Nitrate Sodium	4	<0.20 49.0	<0.10 36.0	<0.125 42.50	01-21-87	10-24-89
04303	HUBBARD, VILLAGE OF	022	09	Nitrate Sodium	4	6.70 18.0	4.90 17.0	5.750 17.75	01-15-87	10-16-89
04304	HOMER, VILLAGE OF	022	09	Nitrate Sodium	4	<1.20 37.0	<0.10 11.0	<3.875 17.50	01-21-87	10-17-89
04306	GATEWAY HOTEL	022	09	Nitrate Sodium	4	<0.10 60.0	<0.10 55.0	<0.100 57.75	07-17-87	10-30-89
04308	LAKE VILLAGE MOBILE COURT	022	09	Nitrate Sodium	3	<0.80 57.0	<0.10 52.0	<0.333 53.66	5X-XX-86	10-17-89
04309	CITY OF SOUTH SIOUX CITY	022	09	Nitrate Sodium	4	0.40 80.0	0.20 65.0	0.275 72.25	01-15-87	10-16-89
05501	CITY OF ELKHORN	028	09	Nitrate Sodium	3	5.20 18.0	5.20 16.0	5.200 17.00	01-15-87	0X-XX-89
05502	GREENRIER SUBDIVISION	028	09	Nitrate Sodium	4	11.4 29.0	1.00 16.0	3.925 21.50	02-13-87	10-23-89
05503	BRUNN ACRES	023	09	Nitrate Sodium	1	<0.10 39.0	<0.10 39.0	<0.100 39.00	01-27-87	5X-XX-XX
05504	MILAND MOBILE HOME PARK, INC	028	09	Nitrate Sodium	3	0.50 26.0	0.20 17.0	0.366 20.33	02-05-87	10-24-89
05506	FAWN HEIGHTS SUBDIVISION	028	09	Nitrate Sodium	2	<0.10 33.0	<0.10 29.0	<0.100 31.00	02-05-87	02-05-87
05507	CITY OF OMAHA	028	09	Nitrate Sodium	3	<0.70 75.0	<0.10 62.0	<0.333 69.00	01-27-87	0X-XX-89
05508	RIVERSIDE LAKE SUBDIVISION	028	09	Nitrate Sodium	4	<0.80 31.0	<0.10 19.0	<0.275 27.00	01-27-87	10-23-89

DRINKING WATER SAMPLING INFORMATION  
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PAPIO-MISSOURI RIVER NRD

Client ID	Client Information	County	NRD	Sampling Parameters	No. of Obs.	Maximum Value	Minimum Value	Mean Value	Date Sample Beginning	Collected Ending
05509	SKYLINE WATER COMPANY	028	09	Nitrate Sodium	2 2	1.20 19.0	1.00 19.0	1.100 19.00	01-27-87	SX-XX-XX
05510	THOMAS FITZBERALD VETS HM	028	09	Nitrate Sodium	4 4	0.70 20.0	0.50 18.0	0.600 19.00	01-27-87	10-23-89
05511	COUNTRY SQUIRE ESTATES	028	09	Nitrate Sodium	2 2	<0.10 81.0	<0.10 77.0	<0.100 79.00	01-27-87	01-27-87
05512	CARAT HOMES SUBDIVISION	028	09	Nitrate Sodium	2 2	<0.10 23.0	<0.10 22.0	<0.100 22.50	02-02-87	02-02-87
05514	LAKELAND ESTATES WATER CO	089	09	Nitrate Sodium	4 4	<1.10 86.0	<0.10 72.0	<0.475 32.00	01-27-87	10-31-89
05515	GREEN MEADOWS SUBDIVISION	028	09	Nitrate Sodium	1 1	3.80 21.0	3.80 21.0	3.800 21.00	SX-XX-86	11-13-87
05516	BENNINGTON, VILLAGE OF	028	09	Nitrate Sodium	4 4	<0.20 25.0	<0.10 23.0	<0.125 24.00	01-27-87	10-23-89
05517	VILLAGE OF WATERLOO	028	09	Nitrate Sodium	4 4	1.10 24.0	0.20 23.0	0.675 23.50	01-27-87	10-24-89
05518	CITY OF VALLEY	028	09	Nitrate Sodium	4 4	7.20 35.0	2.60 31.0	5.025 33.00	01-27-87	10-30-89
05519	GINGER WOODS SUBDIVISION	028	09	Nitrate Sodium	2 2	<0.10 34.0	<0.10 24.0	<0.100 29.00	01-27-87	01-27-87
05520	GINGER COVE SUBDIVISION	028	09	Nitrate Sodium	2 2	<0.10 36.0	<0.10 33.0	<0.100 34.50	02-05-87	02-05-87
05522	TRAILRIDGE RANCHES	028	09	Nitrate Sodium	2 2	0.20 30.0	0.10 29.0	0.150 29.50	SX-XX-86	SX-XX-XX
05523	TERRA LINDE ESTATES	028	09	Nitrate Sodium	0 0				SX-XX-86	SX-XX-XX
05524	CAMP MAHA G.S.C. INC.	028	09	Nitrate Sodium	4 4	<0.10 171.	<0.10 44.0	<0.100 78.75	01-27-87	10-23-89
05526	ROLLING MEADOWS	028	09	Nitrate Sodium	4 4	0.20 20.0	0.10 19.0	0.125 19.25	01-27-87	10-24-89
10920	SARPY HEIGHTS SUBDIVISION	077	09	Nitrate Sodium	4 4	0.20 23.0	0.10 21.0	0.175 22.50	02-26-87	11-22-89



DRINKING WATER SAMPLING INFORMATION  
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PAPID-MISSOURI RIVER NRD

Client ID	Client Information	County	NRD	Sampling Parameters	No. of Obs.	Maximum Value	Minimum Value	Mean Value	Date Sample Beginning	Collected Ending
05509	SKYLINE WATER COMPANY	028	09	Nitrate Sodium	2 2	1.20 19.0	1.00 19.0	1.100 19.00	01-27-87	SX-XX-XX
05510	THOMAS FITZBERALD VETS HM	028	09	Nitrate Sodium	4 4	0.70 20.0	0.50 18.0	0.600 19.00	01-27-87	10-23-89
05511	COUNTRY SQUIRE ESTATES	028	09	Nitrate Sodium	2 2	<0.10 81.0	<0.10 77.0	<0.100 79.00	01-27-87	01-27-87
05512	CARAT HOMES SUBDIVISION	028	09	Nitrate Sodium	2 2	<0.10 23.0	<0.10 22.0	<0.100 22.50	02-02-87	02-02-87
05514	LAKELAND ESTATES WATER CO	089	09	Nitrate Sodium	4 4	<1.10 86.0	<0.10 72.0	<0.475 82.00	01-27-87	10-31-89
05515	GREEN MEADOWS SUBDIVISION	028	09	Nitrate Sodium	1 1	3.80 21.0	3.80 21.0	3.800 21.00	SX-XX-86	11-13-87
05516	BENNINGTON, VILLAGE OF	028	09	Nitrate Sodium	4 4	<0.20 25.0	<0.10 23.0	<0.125 24.00	01-27-87	10-23-89
05517	VILLAGE OF WATERLOO	028	09	Nitrate Sodium	4 4	1.10 24.0	0.20 23.0	0.675 23.50	01-27-87	10-24-89
05519	CITY OF VALLEY	028	09	Nitrate Sodium	4 4	7.20 35.0	2.60 31.0	5.025 33.00	01-27-87	10-30-89
05519	GINGER WOODS SUBDIVISION	028	09	Nitrate Sodium	2 2	<0.10 34.0	<0.10 24.0	<0.100 29.00	01-27-87	01-27-87
05520	GINGER COVE SUBDIVISION	028	09	Nitrate Sodium	2 2	<0.10 36.0	<0.10 33.0	<0.100 34.50	02-05-87	02-05-87
05522	TRAILRIDGE RANCHES	028	09	Nitrate Sodium	2 2	0.20 30.0	0.10 29.0	0.150 29.50	SX-XX-86	SX-XX-XX
05523	TERRA LINDE ESTATES	028	09	Nitrate Sodium	0 0				SX-XX-86	SX-XX-XX
05524	CAMP MAHA G.S.C. INC.	028	09	Nitrate Sodium	4 4	<0.10 171.	<0.10 44.0	<0.100 78.75	01-27-87	10-23-89
05526	ROLLING MEADOWS	028	09	Nitrate Sodium	4 4	0.20 20.0	0.10 19.0	0.125 19.25	01-27-87	10-24-89
10920	SARPY HEIGHTS SUBDIVISION	077	09	Nitrate Sodium	4 4	0.20 23.0	0.10 21.0	0.175 22.50	02-26-87	11-22-89

DRINKING WATER SAMPLING INFORMATION  
 STATE OF NEBRASKA  
 DATA SUMMARY - NITRATE/SODIUM DATA BASE  
 (UPDATED THROUGH 1992)

Processed: April 02, 1993

PAPIO-MISSOURI RIVER NRD

Client ID	Client Information	County	NRD	Sampling Parameters	No. of Obs.	Maximum Value	Minimum Value	Mean Value	Date Sample Beginning	Sample Collected Ending
15301	CITY OF SPRINGFIELD	077	09	Nitrate Sodium	4 4	2.40 19.0	2.20 18.0	2.300 19.25	03-04-87	01-03-89
15302	MEADOW OAKS SID # 79	077	09	Nitrate Sodium	3 3	1.90 32.0	1.20 27.0	1.600 29.66	02-26-87	08-08-86
15303	CITY OF GRETNA	077	09	Nitrate Sodium	4 4	2.40 25.0	0.20 22.0	1.475 23.75	02-26-87	01-10-89
15304	WESTRIDGE FARMS INC.	077	09	Nitrate Sodium	4 4	<0.10 21.0	<0.10 20.0	<0.100 20.25	02-26-87	12-13-89
15305	SARPY COUNTY SID #24	077	09	Nitrate Sodium	4 4	0.70 33.0	0.50 30.0	0.625 31.75	04-03-87	12-15-89
15306	BELLEVUE, CITY OF	077	09	Nitrate Sodium	4 4	1.10 51.0	0.40 27.0	0.800 44.00	02-26-87	12-19-89
15307	SANDS MOBILE HOME PARK	028	09	Nitrate Sodium	4 4	11.2 32.0	0.50 18.0	4.775 24.00	02-26-87	12-19-89
15308	HAWAIIAN VILLAGE SID 97	077	09	Nitrate Sodium	4 4	<0.10 43.0	<0.10 41.0	<0.100 42.00	02-26-87	12-13-89
15309	FAIRVIEW HEIGHTS SUBDIV.	077	09	Nitrate Sodium	2 2	2.80 23.0	2.60 21.0	2.700 22.00	02-26-87	SX-XX-XX
15311	LONG VIEW TRAILER COURT	077	09	Nitrate Sodium	4 4	<0.10 18.0	<0.10 18.0	<0.100 18.00	02-26-87	12-19-89
15312	WESTMONT SUBDIVISION	028	09	Nitrate Sodium	3 3	<0.10 27.0	<0.10 25.0	<0.100 25.66	02-26-87	00-00-90
15313	CITY OF PAPIILLION	077	09	Nitrate Sodium	4 4	<0.30 40.0	<0.10 33.0	<0.175 36.00	02-26-87	01-04-89
15514	FAIRMEADOWS SID 279	028	09	Nitrate Sodium	2 2	<0.10 20.0	<0.10 18.0	<0.100 19.00	02-26-87	SX-XX-XX
17301	VILLAGE OF WALTHILL	087	09	Nitrate Sodium	3 3	0.40 34.0	0.30 13.0	0.356 26.00	03-04-87	01-11-89
17302	CITY OF WINNEBAGO	087	09	Nitrate Sodium	3 3	0.70 114.	0.50 108.	0.600 112.0	03-09-87	01-23-89
17304	MACY SANITARY DISTRICT	087	09	Nitrate Sodium	3 3	<0.40 186.	<0.10 31.0	<0.200 132.3	03-09-87	08-09-88

Processed: April 02, 1993

DRINKING WATER SAMPLING INFORMATION  
STATE OF NEBRASKA  
DATA SUMMARY - NITRATE/SODIUM DATA BASE  
(UPDATED THROUGH 1992)

Processed: April 02, 1993

PAPIO-MISSOURI RIVER NRD

Client ID	Client Information	County	NRD	Sampling Parameters	No. of Obs.	Maximum Value	Minimum Value	Mean Value	Date Sample Beginning	Collected Ending
17306	WINNEBAGO AGENCY	087	09	Nitrate Sodium	1 1	0.40 128.	0.40 128.	0.400 128.0	03-09-87	03-09-87
17901	CITY OF ARLINGTON	089	09	Nitrate Sodium	3 3	0.40 41.0	0.20 40.0	0.300 40.33	03-09-87	01-09-89
17902	PIONEER HILLS SUBDIVISION	089	09	Nitrate Sodium	2 2	<0.10 50.0	<0.10 48.0	<0.100 49.00	03-13-87	03-13-87
17903	ROSE ANN PARK	089	09	Nitrate Sodium	3 3	<0.10 85.0	<0.10 38.0	<0.100 54.00	03-13-87	01-09-89
17904	COUNTRY LAND ESTATES SUB.	089	09	Nitrate Sodium	2 2	<0.60 86.0	<0.10 36.0	<0.350 86.00	03-04-87	SX-XX-XX
17905	CITY OF SLAIR	089	09	Nitrate Sodium	3 3	0.70 69.0	0.20 60.0	0.500 64.00	03-09-87	01-10-89
17906	VILLAGE OF KENNARD	089	09	Nitrate Sodium	3 3	<0.10 32.0	<0.10 28.0	<0.100 30.00	03-09-87	01-09-89
17907	CITY OF FGRT CALHOUN	089	09	Nitrate Sodium	3 3	0.60 66.0	0.40 59.0	0.500 63.66	03-04-87	01-10-89
17908	VILLAGE OF HERMAN	089	09	Nitrate Sodium	3 3	0.30 18.0	0.20 18.0	0.266 18.00	03-09-87	01-09-89
20002	IOWA BEEF PROCESSORS INC	022	09	Nitrate Sodium	3 3	<0.10 60.0	<0.10 58.0	<0.100 59.33	03-13-87	01-13-89
20004	PAPIO NRD	028	09	Nitrate Sodium	3 3	0.60 69.0	0.30 60.0	0.433 64.33	03-13-87	01-13-89
20040	SARPY CO CIVIL DEFENSE	077	09	Nitrate Sodium	1 1	0.40 34.0	0.40 34.0	0.400 34.00	03-13-87	03-13-87
20046	MOUNT MICHAEL ABBEY	028	09	Nitrate Sodium	3 3	2.00 23.0	0.60 21.0	1.500 22.00	03-13-87	01-17-89
20049	JMAHA REGENCY	028	09	Nitrate Sodium	2 2	0.20 22.0	0.20 21.0	0.200 21.50	03-13-87	SX-XX-XX
20055	ST AUGUSTINE INDIAN MISS.	087	09	Nitrate Sodium	3 3	0.40 258.	0.40 114.	0.400 163.0	03-13-87	01-17-89
20157	SID #38	077	09	Nitrate Sodium	3 3	2.20 21.0	2.00 21.0	2.133 21.00	07-06-87	10-26-88

DRINKING WATER SAMPLING INFORMATION  
 STATE OF NEBRASKA  
 DATA SUMMARY - NITRATE/SODIUM DATA BASE  
 (UPDATED THROUGH 1992)

PAPID-MISSOURI RIVER NRD

Client ID	Client Information	County	NRD	Sampling Parameters	No. of Obs.	Maximum Value	Minimum Value	Mean Value	Date Sample Beginning	Collected Ending
20178	WINNEBAGO POW WOW	087	09	Nitrate Sodium	1 1	2.00 13.0	2.00 18.0	2.000 18.00	03-13-87	03-13-87
20299	SAC COMMUNICATIONS SITE	028	09	Nitrate Sodium	1 1	<0.10 40.0	<0.10 40.0	<0.100 40.00	03-19-87	03-19-87
20301	RURAL WATER PROJECT #2	087	09	Nitrate Sodium	3 3	5.90 26.0	5.50 21.0	5.666 22.66	03-27-87	01-26-89
20302	MIDDLE MO RURAL WATER	022	09	Nitrate Sodium	3 3	0.90 52.0	0.80 49.0	0.866 50.33	03-13-87	01-24-89
30005	THE FARM SUBDIV. SID #227	028	09	Nitrate Sodium	2 2	0.70 25.0	0.50 24.0	0.660 24.50	07-31-87	5X-XX-XX
82221	GATEWAY MOBILE HOME PARK	022	09	Nitrate Sodium	1 1	<0.10 58.0	<0.10 58.0	<0.100 58.00	01-25-89	01-25-89
87711	WILLIAMS TRAILER COURT	028	09	Nitrate Sodium	0 0				CX-XX-89	CX-XX-89

**APPENDIX E**  
**NITRATE MONITORING OF NON COMMUNITY WATER SYSTEMS**

STATE OF NEBRASKA  
NATURAL RESOURCES COMMISSION  
NATURAL RESOURCES

DATA BANK

April 02, 1993

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***** USER INFORMATION *****
*
* PUBLIC DRINKING WATER CHEMICAL AND BACTERIOLOGICAL DATA ARE ACQUIRED
* FROM THE STATE DEPARTMENT OF HEALTH (DOH). SAMPLE DATA ARE COLLECTED
* AND ANALYZED BY THE DOH LAB, OR AT LABORATORIES CERTIFIED BY THE
* DEPARTMENT.
*
* BASIC DATA ARE RECEIVED PERIODICALLY FROM THE DOH IN THE FORM OF ASCII
* FILES. THESE RECORDS ARE REORGANIZED AND PROCESSED IN THE DATA BANK.
* THE INFORMATION IS THEN RETRIEVED AND DISSEMINATED TO INTERESTED
* AGENCIES AND PERSONS.
*
* CURRENTLY, THE OUTPUT RESULTS GENERATED FROM DOH ASCII FILES HAVE NOT
* GONE THROUGH ANY QA/QC PROCESSES. USERS NOTICING ANY QUESTIONABLE
* RESULTS OR HAVING ANY QUESTIONS REGARDING THE SOURCE OR VALIDITY OF
* DATA SHOULD CONTACT THE STATE DEPARTMENT OF HEALTH, DRINKING WATER AND
* ENVIRONMENTAL SANITATION DIVISION, P.O. BOX 95007, LINCOLN, NEBRASKA
* 68509 OR CALL THE DIVISION AT (402) 471-2541.
*
* FOR OTHER INFORMATION CONCERNING DATA ACCESSING, UPDATING, LISTING,
* OUTPUT FORMATTING, AND DATA PROCESSING, PLEASE CONTACT:
*
*     NATURAL RESOURCES DATA BANK
*     NEBRASKA NATURAL RESOURCES COMMISSION
*     301 CENTENNIAL MALL SOUTH
*     P.O. BOX 94876
*     LINCOLN, NEBRASKA 68509
*
* OR CALL THE DATA BANK DURING OFFICE HOURS AT (402) 471-2081.
*
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LEGEND: NEBRASKA COUNTIES

CODE	COUNTY	CODE	COUNTY	CODE	COUNTY	CODE	COUNTY
1	ADAMS	25	DEUEL	49	JOHNSON	73	RED WILLOW
2	ANTELOPE	26	DIXON	50	KEARNEY	74	RICHARDSON
3	ARTHUR	27	DODGE	51	KEITH	75	ROCK
4	SAHNER	28	DUNGLAS	52	KEYA PAHA	76	SALINE
5	BLAINE	29	DUNDY	53	KIMBALL	77	SARPY
6	BOONE	30	FILLMORE	54	KNOX	78	SAUNDERS
7	BOX BUTTE	31	FRANKLIN	55	LANCASTER	79	SCOTTS BLUFF
8	BOYD	32	FRONTIER	56	LINCOLN	80	SEWARD
9	BROWN	33	FURNAS	57	LOGAN	81	SHERIDAN
10	BUFFALO	34	GAGE	58	LOUP	82	SHERMAN
11	BURT	35	GARDEN	59	MCPHERSON	83	SIOUX
12	BUTLER	36	GARFIELD	60	MADISON	84	STANTON
13	CASS	37	GOSPER	61	MERRICK	85	TAYLOR
14	CEDAR	38	GRANT	62	MORRILL	86	THOMAS
15	CHASE	39	GREELEY	63	NANCE	87	THURSTON
16	CHERRY	40	HALL	64	NEMAHA	88	VALLEY
17	CHEYENNE	41	HAMILTON	65	NUCKOLLS	89	WASHINGTON
18	CLAY	42	HARLAN	66	OTOE	90	WAYNE
19	COLFAX	43	HAYES	67	PAWNEE	91	WEBSTER
20	CUMING	44	HITCHCOCK	68	PERKINS	92	WHEELER
21	CUSTER	45	HOLT	69	PIERCE	93	YORK
22	DAKOTA	46	HOOKER	70	PLATTE		
23	DAWES	47	HOWARD	71			
24	DAWSON	48	JEFFERSON	72	POLK		

DRINKING WATER SAMPLING INFORMATION  
 STATE OF NEBRASKA  
 DATA SUMMARY - NITRATE DATA BASE  
 (UPDATED THROUGH 1992)

PAPIO-MISSOURI RIVER NRD

Client ID	Client Information	County	NRD	Sampling Parameter(s)	No. of Obs.	Maximum Value	Minimum Value	Mean Value	Date Sample Beginning	Sample Collected Ending
03532	DOUGLAS CO SID #69	028	09	Nitrate	1	18.30	18.30	18.30	07-17-92	07-17-92
03562	DOUGLAS CO SID #69	028	09	Nitrate	1	15.30	15.30	15.30	06-11-92	06-11-92
03502	DOUGLAS CO SID #69	028	09	Nitrate	7	17.80	12.90	14.60	12-11-91	08-12-92
20317	HIGHWAY 50 CAFE	077	09	Nitrate	10	10.50	8.50	9.50	08-21-90	08-12-92
03514	LAKELAND ESTATES WATER CO.	089	09	Nitrate	2	0.60	0.60	0.60	10-31-89	10-31-89
50562	RICHFIELD CARRI	077	09	Nitrate	5	34.20	3.20	25.36	09-13-89	11-14-89
03562	SID #69	028	09	Nitrate	1	12.90	12.90	12.90	11-15-91	11-15-91
03532	SID #69	028	09	Nitrate	26	11.50	0.50	2.39	10-24-89	09-12-91
03502	SID# 69	028	09	Nitrate	1	0.50	0.50	0.50	02-14-91	02-14-91
23317	SPRINGFIELD	077	09	Nitrate	1	9.80	9.80	9.80	02-12-91	02-12-91
04303	VILLAGE OF HUBBARD	022	09	Nitrate	29	7.40	3.40	5.90	12-11-86	06-15-88



**APPENDIX F**  
**USGS MONITORING WELL TEST RESULTS**

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
 MULTIPLE STATION ANALYSES

PROCESS DATE 2-17-93

STATION NUMBER	LAT- I- TUDE	LONG- I- TUDE	GEO- LOGIC UNIT	DATE	TIME	TEMPER- ATURE WATER (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)
410525096081601	41 05 25 N	096 08 16 W	112SDGV	07-30-92	1359	17.0	623	7.6	<0.050
410535096174501	41 05 35 N	096 17 45 W	112SDGV	07-21-92	1700	12.5	579	7.4	<0.050
410411096175701	41 04 11 N	096 17 57 W	112SDGV	08-19-92	1350	12.5	706	7.4	<0.050
410405096182101	41 04 05 N	096 18 21 W	112SDGV	08-20-92	1040	11.5	736	7.1	<0.050
410651096134801	41 06 51 N	096 13 48 W	112SDGV	09-01-92	1100	12.5	795	6.5	30.0
410503096073801	41 05 03 N	096 07 38 W	211DKOT	07-29-92	1415	13.0	513	7.0	2.30
410350096081001	41 03 50 N	096 08 10 W	112SDGV	07-29-92	1327	22.0	532	7.3	2.40
410407096032701	41 04 07 N	096 03 27 W	112SDGV	07-20-92	1300	12.0	575	7.5	0.210
410327096061801	41 03 27 N	096 06 18 W	112SDGV	08-20-92	0850	12.0	561	7.2	1.50
410630095541301	41 06 30 N	095 54 13 W	112SDGV	08-13-92	1140	13.5	1090	7.0	<0.050
410343095580801	41 03 43 N	095 58 08 W	112SDGV	07-14-92	1100	12.5	655	7.4	0.070
410337095593701	41 03 37 N	095 59 37 W	112SDGV	07-14-92	1215	13.0	605	7.6	1.30
410332095594701	41 03 32 N	095 59 47 W	112SDGV	07-14-92	1345	23.5	511	7.9	1.10
410334095595701	41 03 34 N	095 59 57 W	112SDGV	07-14-92	1445	22.0	504	7.8	0.720
410457095523501	41 04 57 N	095 52 35 W	112SDGV	07-15-92	1350	15.0	1030	7.4	<0.050
410325095525901	41 03 25 N	095 52 59 W	112SDGV	07-15-92	1100	11.5	659	7.6	<0.050
411258096205801	41 12 58 N	095 20 58 W	112SDGV	07-16-92	1530	13.5	560	7.5	0.056
411014096174101	41 10 14 N	096 17 41 W	112SDGV	07-29-92	1122	12.0	710	7.0	0.770
410824096141901	41 08 24 N	096 14 19 W	211DKOT	07-23-92	0945	13.0	620	7.0	1.80
411125096093001	41 11 25 N	096 09 30 W	211DKOT	07-20-92	1530	13.0	519	7.4	0.800

410818096001201	41 08 18 N	096 00 12 W	211DKOT	07-29-92	1515	13.0	445	7.0	0.850
411723096211601	41 17 23 N	096 21 16 W	112SDGV	07-22-92	1305	13.0	614	7.3	<0.050
			112SDGV	07-22-92	1300	13.0	614	7.3	0.071
411741096173301	41 17 41 N	096 17 33 W	112SDGV	08-17-92	1400	12.5	733	7.3	<0.050
411656096200401	41 16 56 N	096 20 04 W	112SDGV	08-20-92	1435	12.0	570	6.9	0.480
411620096164001	41 16 20 N	096 16 40 W	112SDGV	08-17-92	1315	12.5	725	6.9	0.055
411507096154801	41 15 07 N	096 15 48 W	112SDGV	07-23-92	1240	15.5	563	7.4	<0.050
411719096135501	41 17 19 N	096 13 55 W	211DKOT	07-23-92	1137	12.0	684	6.9	5.00
412312096261601	41 23 12 N	096 26 16 W	112SDGV	07-23-92	1045	12.5	548	7.5	0.210
412333096264801	41 23 33 N	096 26 48 W	112SDGV	07-23-92	1000	12.5	511	7.4	0.680
412230096214501	41 22 30 N	096 21 45 W	112SDGV	07-21-92	1130	15.0	417	6.3	0.064
411937096213701	41 19 37 N	096 21 37 W	112SDGV	07-16-92	1330	23.5	505	7.4	1.90
412050096143101	41 20 50 N	096 14 31 W	211DKOT	07-15-92	1600	16.0	861	7.1	<0.050
411755096162801	41 17 55 N	096 16 28 W	112SDGV	08-17-92	1445	13.0	606	6.9	0.160
412018096084501	41 20 18 N	096 08 45 W	112SDGV	07-21-92	1400	13.0	739	6.9	9.90
411914096022401	41 19 14 N	096 02 24 W	112SDGV	07-16-92	1120	13.0	720	7.1	<0.050
411855095551901	41 18 55 N	095 55 19 W	112SDGV	07-16-92	1600	14.0	1680	6.9	<0.050
412752096204101	41 27 52 N	096 20 41 W	112SDGV	07-22-92	1030	12.0	891	6.9	17.0
412636096183201	41 26 36 N	096 18 32 W	112SDGV	09-03-92	1100	12.5	677	7.1	0.200
412454096122601	41 24 54 N	096 12 26 W	112SDGV	08-13-92	1649	12.0	656	7.2	8.80
412629096053001	41 26 29 N	096 05 30 W	112SDGV	07-20-92	1100	17.5	715	7.5	<0.050
412559096005601	41 25 59 N	096 00 56 W	110QRNR	08-19-92	0805	12.5	786	7.2	<0.050
412735095570101	41 27 35 N	095 57 01 W	112SDGV	08-13-92	1433	12.0	1400	7.1	<0.050
			112SDGV	08-13-92	1455	12.0	1400	7.1	<0.050
413240096213301	41 32 40 N	096 21 33 W	211DKOT	07-30-92	1120	13.5	741	7.7	0.190
413053096205401	41 30 53 N	096 20 54 W	112SDGV	08-19-92	1045	12.5	958	7.4	<0.050
414109096151101	41 41 09 N	096 15 11 W	211DKOT	07-15-92	1335	13.5	659	7.1	2.80
414200096133801	41 42 00 N	096 13 38 W	110QRNR	08-18-92	1035	13.5	756	6.8	1.40
414020096130601	41 40 20 N	096 13 06 W	112SDGV	07-15-92	1510	13.0	671	7.2	<0.050
414645096134301	41 46 45 N	096 13 43 W	211DKOT	07-14-92	1340	12.5	787	7.0	6.40

414601096130001	41 46 01 N	096 13 00 W	110QRNR	08-17-92	1320	12.0	790	7.1	0.290
			110QRNR	08-17-92	1325	12.0	791	7.1	0.320
415710096115701	41 57 10 N	096 11 57 W	112SDGV	07-21-92	1330	11.0	900	7.0	0.059
420519096273202	42 05 19 N	096 27 32 W	211DKOT	07-15-92	1035	13.5	719	7.0	<0.050
420825096292401	42 08 25 N	096 29 24 W	112SDGV	07-14-92	1133	12.0	826	7.1	<0.050
420848096245101	42 08 48 N	096 24 51 W	112PLSC	07-20-92	1110	12.5	683	7.1	6.70
420746096195701	42 07 46 N	096 19 57 W	112SDGV	07-20-92	1430	11.0	875	7.1	0.054
421317096262401	42 13 17 N	096 26 24 W	112PLSC	07-14-92	0840	12.0	1020	7.1	<0.050
421350096271301	42 13 50 N	096 27 13 W	211DKOT	07-14-92	0953	12.0	1800	7.1	<0.050
421848096371801	42 18 48 N	096 37 18 W	211DKOT	07-21-92	1555	15.0	1780	7.1	0.087
422033096274701	42 20 33 N	096 27 47 W	112SDGV	07-21-92	1035	11.5	1070	7.1	<0.050
422524096250701	42 25 24 N	096 25 07 W	112SDGV	07-15-92	0835	11.5	1330	7.0	<0.050
422301096262201	42 23 01 N	096 26 22 W	110QRNR	08-17-92	1035	11.0	1210	7.1	0.073
422758096243901	42 27 52 N	096 24 41 W	211DKOT	07-21-92	0847	12.0	1570	7.0	<0.050
			211DKOT	07-21-92	0850	--	--	--	<0.050

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
 MULTIPLE STATION ANALYSES

PROCESS DATE 2-17-93

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	SODIUM PERCENT (00932)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SI02) (00955)
07-30-92	--	--	--	--	--	--	--	--	--	--	--
07-21-92	260	79	14	23	0.6	16	5.8	12	59	0.30	37
08-19-92	310	96	18	25	0.6	14	7.6	12	110	0.30	35
08-20-92	320	97	18	28	0.7	16	8.4	13	120	0.40	34
09-01-92	280	76	21	25	0.7	16	4.0	6.3	18	0.30	32
07-29-92	--	--	--	--	--	--	--	--	--	--	--
07-29-92	240	68	17	21	0.6	16	3.5	6.0	9.6	0.30	25
07-20-92	240	66	19	25	0.7	18	6.7	21	75	0.30	23
08-20-92	270	77	18	17	0.5	12	3.0	1.1	24	0.30	30
08-13-92	550	150	41	25	0.5	9	6.2	0.80	55	0.30	32
07-14-92	--	--	--	--	--	--	--	--	--	--	--
07-14-92	--	--	--	--	--	--	--	--	--	--	--
07-14-92	170	47	12	35	1	30	11	29	55	0.40	25
07-14-92	170	50	12	29	1	25	11	24	60	0.40	24
07-15-92	--	--	--	--	--	--	--	--	--	--	--
07-15-92	180	52	12	59	2	40	8.6	54	79	0.40	25
07-16-92	200	60	11	35	1	27	8.3	16	95	0.40	32
07-29-92	350	100	25	17	0.4	9	5.0	3.2	31	0.30	35
07-23-92	280	84	16	25	0.7	16	4.1	5.6	27	0.20	32
07-20-92	250	76	14	16	0.4	12	4.1	5.2	11	0.30	30



08-17-92	370	100	29	27	0.6	14	4.1	17	88	0.40	26
08-17-92	370	100	29	27	0.6	14	4.2	17	88	0.40	26
07-21-92	450	110	42	18	0.4	--	--	--	--	--	30
07-15-92	--	--	--	--	--	--	--	--	--	--	--
07-14-92	--	--	--	--	--	--	--	--	--	--	--
07-20-92	370	100	28	10	0.2	6	2.4	1.9	39	0.40	24
07-20-92	420	120	30	18	0.4	--	--	--	--	--	25
07-14-92	--	--	--	--	--	--	--	--	--	--	--
07-14-92	680	210	36	130	2	29	21	110	560	1.3	11
07-21-92	650	200	35	140	2	31	22	100	590	1.8	9.1
07-21-92	--	--	--	--	--	--	--	--	--	--	--
07-15-92	600	160	47	57	1	17	8.9	20	200	0.30	24
08-17-92	560	160	39	48	0.9	15	12	14	140	0.40	32
07-21-92	700	200	49	84	1	20	12	43	470	0.40	16
07-21-92	700	200	49	84	1	20	12	43	470	0.50	16

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DATE	ARSENIC	BARIUM,	BERYL-	BORON,	CADMIUM	CHRO-	COBALT,	COPPER,	IRON,	LEAD,
	DIS- SOLVED (UG/L AS AS) (01000)	DIS- SOLVED (UG/L AS BA) (01005)	LIUM, DIS- SOLVED (UG/L AS BE) (01010)	DIS- SOLVED (UG/L AS B) (01020)	DIS- SOLVED (UG/L AS CD) (01025)	MIUM, DIS- SOLVED (UG/L AS CR) (01030)	DIS- SOLVED (UG/L AS CO) (01035)	DIS- SOLVED (UG/L AS CU) (01040)	DIS- SOLVED (UG/L AS FE) (01046)	DIS- SOLVED (UG/L AS PB) (01049)
07-30-92	--	--	--	--	--	--	--	--	--	--
07-21-92	4	160	<0.5	50	2.0	<5	<3	<10	690	<10
08-19-92	6	250	<0.5	50	<1.0	<5	<3	<10	1500	<10
08-20-92	2	270	<0.5	60	<1.0	<5	<3	<10	3500	<10
09-01-92	2	180	<0.5	60	<1.0	<5	<3	<10	8	<10
07-29-92	--	--	--	--	--	--	--	--	--	--
07-29-92	<1	160	<0.5	730	<1.0	<5	<3	210	<3	<10
07-20-92	3	150	<0.5	60	<1.0	<5	<3	<10	11	<10
08-20-92	2	240	<0.5	60	<1.0	<5	<3	<10	6	<10
08-13-92	3	400	<0.5	130	2.0	<5	<3	<10	9400	<10
07-14-92	--	--	--	--	--	--	--	--	--	--
07-14-92	--	--	--	--	--	--	--	--	--	--
07-14-92	5	90	0.8	70	<1.0	<5	<3	10	<3	<10
07-14-92	5	91	0.8	70	<1.0	<5	<3	<10	<3	<10
07-15-92	--	--	--	--	--	--	--	--	--	--
07-15-92	9	210	0.8	70	<1.0	<5	<3	<10	180	<10
07-16-92	4	94	0.7	80	<1.0	<5	<3	<10	32	<10
07-29-92	3	190	<0.5	590	<1.0	<5	<3	<10	10	<10
07-23-92	<1	99	<0.5	50	<1.0	<5	<3	<10	3	<10
07-20-92	2	170	<0.5	50	2.0	<5	<3	20	5	<10





08-17-92	1	220	<0.5	90	<1.0	<5	<3	<10	580	<10
08-17-92	1	230	<0.5	100	<1.0	<5	<3	<10	590	<10
07-21-92	--	170	<0.5	--	<1.0	<5	6	<10	5900	<10
07-15-92	--	--	--	--	--	--	--	--	--	--
07-14-92	--	--	--	--	--	--	--	--	--	--
07-20-92	1	160	<0.5	50	<1.0	<5	<3	<10	<3	<10
07-20-92	--	380	<0.5	--	1.0	<5	6	<10	6100	<10
07-14-92	--	--	--	--	--	--	--	--	--	--
07-14-92	1	21	0.6	370	<1.0	<5	6	<10	2200	<10
07-21-92	1	14	<0.5	490	<1.0	<5	<3	<10	160	<10
07-21-92	--	--	--	--	--	--	--	--	--	--
07-15-92	6	73	0.6	210	<1.0	<5	10	<10	5700	<10
08-17-92	13	63	<0.5	220	<1.0	<5	<3	<10	6100	<10
07-21-92	<1	20	<0.5	210	<1.0	<5	<3	<10	1300	<10
07-21-92	<1	19	<0.5	200	<1.0	<5	<3	<10	1300	<10

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DATE	MANGANESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	SELE- NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)
07-30-92	--	--	--	--	--	--	--	--	--	--
07-21-92	310	<10	<10	<1.0	380	<6	7	17	<1	<0.05
08-19-92	550	<10	<10	<1.0	520	<6	8	25	<1	--
08-20-92	1200	<10	<10	1.0	530	<6	<3	25	<1	--
09-01-92	<1	<10	<10	<1.0	300	<6	<3	14	2	<0.05
07-29-92	--	--	--	--	--	--	--	--	--	--
07-29-92	6	<10	<10	2.0	260	<6	460	12	2	--
07-20-92	1100	<10	<10	<1.0	320	<6	6	15	<1	--
08-20-92	11	<10	<10	<1.0	290	<6	7	17	5	--
08-13-92	1100	<10	<10	3.0	1400	<6	17	67	<1	--
07-14-92	--	--	--	--	--	--	--	--	--	<0.05
07-14-92	--	--	--	--	--	--	--	--	--	<0.05
07-14-92	2	<10	<10	<1.0	310	9	6	17	4	0.07
07-14-92	11	<10	<10	<1.0	320	<6	4	16	3	0.07
07-15-92	--	--	--	--	--	--	--	--	--	--
07-15-92	850	<10	<10	<1.0	340	<6	3	19	<1	<0.05
07-16-92	110	<10	<10	<1.0	400	<6	15	18	<1	<0.05
07-29-92	130	<10	<10	1.0	390	<6	9	19	1	<0.05
07-23-92	<1	<10	<10	1.0	370	<6	7	17	5	--
07-20-92	4	<10	<10	<1.0	260	<6	15	15	2	--



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DATE	PRO- METRYN, WATER, DISS, REC (UG/L) (04036)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	DEISO- PROPYL ATRAZIN WATER, DISS, REC (UG/L) (04038)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L) (09511)	AMETRYN WATER, DISS, REC, (UG/L) (38401)	PROP- AZINE WATER DISS REC (UG/L) (38535)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)
07-30-92	--	--	--	--	--	--	--	--	--	--
07-21-92	<0.05	<0.05	<0.05	<0.05	<0.20	0.52	<0.05	<0.05	<0.05	0.16
08-19-92	--	--	--	--	--	0.44	--	--	--	--
08-20-92	--	--	--	--	--	0.46	--	--	--	--
09-01-92	<0.05	0.14	<0.05	<0.05	<0.20	0.94	<0.05	<0.05	<0.05	0.11
07-29-92	--	--	--	--	--	--	--	--	--	--
07-29-92	--	--	--	--	--	0.26	--	--	--	--
07-20-92	--	--	--	--	--	0.20	<0.05	<0.05	0.17	0.82
08-20-92	--	--	--	--	--	0.24	--	--	--	--
08-13-92	--	--	--	--	--	0.65	--	--	--	--
07-14-92	<0.05	<0.05	0.08	0.12	0.20	--	<0.05	<0.05	0.05	0.47
07-14-92	<0.05	<0.05	0.09	0.10	0.30	--	<0.05	<0.05	0.09	0.58
07-14-92	<0.05	0.05	0.29	0.26	0.60	0.07	<0.05	<0.05	0.18	1.8
07-14-92	<0.05	0.06	0.19	0.24	1.0	0.09	<0.05	<0.05	0.24	1.8
07-15-92	--	--	--	--	--	--	--	--	--	--
07-15-92	<0.05	<0.05	0.05	0.10	0.30	0.45	<0.05	<0.05	0.07	0.38
07-16-92	<0.05	<0.05	<0.05	0.11	<0.20	0.26	<0.05	<0.05	<0.05	0.27
07-29-92	<0.05	0.44	0.12	0.05	<0.20	1.3	<0.05	<0.05	<0.05	<0.05
07-23-92	--	--	--	--	--	0.49	--	--	--	--
07-20-92	--	--	--	--	--	0.28	--	--	--	--

08-17-92	430	<10	<10	<1.0	600	<6	5	37	<1	--
08-17-92	430	<10	<10	<1.0	610	<6	4	38	<1	<0.05
07-21-92	270	<10	<10	<1.0	900	<6	6	56	--	--
07-15-92	--	--	--	--	--	--	--	--	--	--
07-14-92	--	--	--	--	--	--	--	--	--	--
07-20-92	1	<10	<10	<1.0	460	<6	38	21	12	--
07-20-92	670	<10	<10	<1.0	770	<6	6	42	--	--
07-14-92	--	--	--	--	--	--	--	--	--	--
07-14-92	170	<10	<10	<1.0	4100	<6	8	160	<1	--
07-21-92	77	<10	<10	<1.0	4500	<6	19	190	<1	--
07-21-92	--	--	--	--	--	--	--	--	--	--
07-15-92	610	10	<10	<1.0	1700	<6	7	80	<1	--
08-17-92	420	<10	<10	<1.0	1800	<6	5	95	<1	--
07-21-92	440	<10	<10	<1.0	2100	<6	3	73	<1	--
07-21-92	440	<10	<10	<1.0	2000	<6	7	73	<1	--



08-17-92	--	--	--	--	--	0.32	--	--	--	--
08-17-92	<0.05	0.10	<0.05	<0.05	<0.20	0.34	<0.05	<0.05	<0.05	<0.05
07-21-92	--	--	--	--	--	0.71	--	--	--	--
07-15-92	--	--	--	--	--	--	--	--	--	--
07-14-92	--	--	--	--	--	--	--	--	--	--
07-20-92	--	--	--	--	--	0.66	--	--	--	--
07-20-92	--	--	--	--	--	0.56	--	--	--	--
07-14-92	--	--	--	--	--	--	--	--	--	--
07-14-92	--	--	--	--	--	3.9	--	--	--	--
07-21-92	--	--	--	--	--	3.9	--	--	--	--
07-21-92	--	--	--	--	--	--	--	--	--	--
07-15-92	--	--	--	--	--	0.91	--	--	--	--
08-17-92	--	--	--	--	--	0.42	--	--	--	--
07-21-92	--	--	--	--	--	2.2	--	--	--	--
07-21-92	--	--	--	--	--	2.2	--	--	--	--



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DATE	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	GROSS ALPHA, DIS- SOLVED (UG/L AS (80030)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90) (80050)	RADON 222 TOTAL (PCI/L) (82303)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	ALKA- LINITY LAB (MG/L AS CAC03) (90410)
07-30-92	--	--	--	1250	206.00	--	--	--	--	--
07-21-92	<0.05	353	0.48	1060	84.00	1.4	6.2	480	<0.05	202
08-19-92	--	465	0.63	1058	43.00	3.1	9.1	300	--	263
08-20-92	--	477	0.65	1055	52.00	4.0	9.7	220	--	255
09-01-92	<0.05	444	0.60	1270	198.00	3.4	4.5	390	<0.05	213
07-29-92	--	--	--	1144	195.00	--	--	--	--	--
07-29-92	--	329	0.45	1035	66.00	6.1	4.3	440	--	277
07-20-92	0.05	362	0.49	1000	74.00	7.2	7.7	340	<0.05	205
08-20-92	--	348	0.47	1005	68.00	6.1	5.8	450	--	284
08-13-92	--	610	0.83	965	125.00	2.0	7.8	--	--	479
07-14-92	<0.05	--	--	980	45.00	--	--	--	<0.05	--
07-14-92	<0.05	--	--	1020	46.00	--	--	--	<0.05	--
07-14-92	<0.05	318	0.43	990	62.00	8.9	10	310	0.07	163
07-14-92	<0.05	308	0.42	990	52.00	3.4	13	450	<0.05	157
07-15-92	--	--	--	960	97.00	--	--	--	--	--
07-15-92	<0.05	399	0.54	970	126.00	7.0	11	470	<0.05	179
07-16-92	<0.05	363	0.49	1115	65.00	8.6	11	530	<0.05	174
07-29-92	<0.05	441	0.60	1097	61.00	8.7	7.3	460	<0.05	367
07-23-92	--	386	0.52	1260	315.00	6.9	7.4	460	--	306
07-20-92	--	324	0.44	1100	235.00	4.5	5.7	200	--	272

07-29-92	--	278	0.38	1078	134.00	2.3	3.2	390	--	245
07-22-92	<0.05	--	--	1135	58.00	<0.6	<0.6	--	<0.05	6.1
07-22-92	<0.05	397	0.54	1135	58.00	5.6	9.9	170	<0.05	208
08-17-92	--	449	0.61	1125	70.00	4.8	9.7	400	--	232
08-20-92	--	366	0.50	1130	70.00	7.7	11	330	--	212
08-17-92	--	342	0.46	1120	87.00	6.9	10	400	--	120
07-23-92	<0.05	344	0.47	--	50.00	2.1	8.5	240	<0.05	242
07-23-92	--	426	0.58	1265	238.00	9.0	9.2	350	--	317
07-23-92	<0.05	--	--	1174	91.00	--	--	--	<0.05	--
07-23-92	<0.05	329	0.45	1170	91.00	10	12	500	<0.05	165
07-21-92	--	--	--	1150	39.00	--	--	--	--	--
07-16-92	<0.05	--	--	1145	82.00	--	--	--	<0.05	--
07-15-92	--	518	0.70	1290	325.00	8.3	5.1	420	--	361
08-17-92	<0.05	348	0.47	1125	55.00	6.4	9.6	97	<0.05	232
07-21-92	--	454	0.62	1090	56.00	7.6	4.5	420	--	312
07-16-92	--	--	--	1105	141.00	--	--	--	--	--
07-16-92	--	965	1.31	979	80.00	4.0	10	230	--	346
07-22-92	--	557	0.76	1180	164.00	3.9	8.4	900	--	302
09-03-92	<0.05	--	--	1290	316.00	--	--	--	<0.05	--
08-13-92	--	406	0.55	1160	144.00	3.2	3.6	430	--	314
07-20-92	--	--	--	1200	330.00	--	--	--	--	--
08-19-92	--	467	0.63	1100	--	1.2	4.6	350	--	433
08-13-92	--	845	1.15	992	82.00	3.1	7.9	270	--	647
08-13-92	--	812	1.10	992	82.00	3.7	8.4	--	--	604
07-30-92	--	--	--	1230	172.00	--	--	--	--	--
08-19-92	--	--	--	1178	131.00	--	--	--	--	--
07-15-92	<0.05	402	0.55	1108	133.00	5.4	4.1	370	<0.05	334
08-18-92	<0.05	--	--	1050	168.00	--	--	--	<0.05	--
07-15-92	--	403	0.55	1052	63.00	3.3	4.2	270	--	327
07-14-92	--	--	--	1148	172.00	--	--	--	--	--

**APPENDIX G**  
**TITLE 118-MAXIMUM CONTAMINANT LEVELS**

**Maximum Contaminant Levels**

Public Health Parameters	Maximum Contaminant Level
<b>Inorganics:</b>	
Arsenic	0.05 mg/l
Barium	1 mg/l
Cadmium	0.005 mg/l
Chromium	0.1 mg/l
Fluoride	4.0 mg/l
Lead	0.05 mg/l
Mercury	0.002 mg/l
Nitrate-nitrogen	10 mg/l
Nitrite-nitrogen	1 mg/l
Selenium	0.05 mg/l
Silver	0.05 mg/l
Aluminum	(Reserved)
Antimony	(Reserved)
Molybdenum	(Reserved)
Vanadium	(Reserved)
Sodium	(Reserved)
Nickel	(Reserved)
Thallium	(Reserved)
Beryllium	(Reserved)
Cyanide	(Reserved)
Asbestos	7 million fibers/liter with fiber length > 10 microns
<b>Organics:</b>	
Endrin	0.0002 mg/l
Lindane	0.0002 mg/l
Methoxychlor	0.04 mg/l
Toxaphene	0.003 mg/l
2,4-D	0.07 mg/l
2,4,5-TP Silvex	0.05 mg/l
Total trihalomethanes	0.10 mg/l
Trichloroethylene	0.005 mg/l
Carbon tetrachloride	0.005 mg/l
Vinyl chloride	0.002 mg/l
1,2-Dichloroethane	0.005 mg/l
Benzene	0.005 mg/l
1,1-Dichloroethylene	0.007 mg/l
1,1,1-Trichloroethane	0.20 mg/l
p-Dichlorobenzene	0.075 mg/l
Tetrachloroethylene	0.005 mg/l
Methylene chloride	(Reserved)
Chlorobenzene	0.1 mg/l
Trichlorobenzene	(Reserved)

Maximum Contaminant Levels (Continued)

Public Health Parameters	Maximum Contaminant Level
trans-1,2-Dichloroethylene	0.1 mg/l
cis-1,2-Dichloroethylene	0.07 mg/l
Ethylbenzene	0.7 mg/l
o-Dichlorobenzene	0.6 mg/l
Styrene	0.1 mg/l
Aldicarb	(Reserved)
Chlordane	0.002 mg/l
Dalapon	(Reserved)
Diquat	(Reserved)
Endothall	(Reserved)
Heptachlor	0.0004 mg/l
Heptachlor epoxide	0.0002 mg/l
Glyphosate	(Reserved)
Carbofuran	0.04 mg/l
Alachlor	0.002 mg/l
Epichlorohydrin	(Reserved)
Toluene	1 mg/l
Adipates	(Reserved)
2,3,7,8-TCDD (Dioxin)	(Reserved)
1,1,2-Trichloroethane	(Reserved)
Vydate	(Reserved)
Simazine	(Reserved)
PAH's	(Reserved)
PCB's	0.0005 mg/l
Atrazine	0.003 mg/l
Phthalates	(Reserved)
Acrylamide	(Reserved)
Dibromochloropropane (DBCP)	0.0002 mg/l
1,2-Dichloropropane	0.005 mg/l
Pentachlorophenol	(Reserved)
Pichloram	(Reserved)
Dinoseb	(Reserved)
Ethylene dibromide	0.00005 mg/l
Dibromomethane	(Reserved)
Xylenes	10 mg/l
Hexachlorocyclopentadiene	(Reserved)
<b>Radionuclides:</b>	
Combined radium-226 and radium-228	5 pCi/l
Gross alpha particle activity (including radium-226 but excluding radon and uranium)	15 pCi/l
Gross beta particle activity	
Uranium	
Radon	50 pCi/l (Reserved) (Reserved)

**Maximum Contaminant Levels (Continued)**

<b>Public Health Parameters</b>	<b>Maximum Contaminant Level</b>
<b>Microbiology:</b>	
Total coliforms	(Reserved)
<b>Other Parameters Affecting Use:</b>	
Chloride	250 mg/l
Copper	1 mg/l
Foaming agents (methylene-blue-active substances)	0.5 mg/l
Iron	0.3 mg/l
Manganese	0.05 mg/l
Sulfate	250 mg/l
Zinc	5 mg/l
pH	6.5-8.5

Source: Title 118, Nebraska Department of Environmental Quality, September 3, 1991.

"Reserved" indicates that a standard will be promulgated for this standard.

**APPENDIX H**  
**RESOURCE CONSERVATION AND RECOVERY ACT NOTIFIERS LIST**

\*\*\*\* RCRA Notifiers List \*\*\*\*

Run 12.53.27 , 04/05/93

Data from the Region VII Merge Database.

RIN #651

This run used the following selection criteria (blank means all values accepted, except for facility types):

States: NE (Select 1 - 3 or all)  
 Counties: NE021 NE043 NE055 NE153 (Select 1 - 4 or all)  
 ZIP Codes: (Select 1 - 5 or all)  
 Facility: (Select one or all)  
 Leg. district: (Select one or all)

Facility types: LQG: X SQG: X CEG: X  
 (X - selected) TSD: X Trans.: X BBL: X REC: X

NOTE: '-N-' in the report indicates the facility notified for that activity but is not now engaged in that activity.

Sort: State, County, Name, ID (See below for sort choices)  
 TC Rule facilities: (Waste codes D018 - D043)  
 Waste codes: (Select 1 - 6 or all)  
 SIC Codes: (Select 1 - 5 or all)  
 Owner type: (Select one or all)  
 Facilities which accept wastes from offsite:  
 Notification date range: from 010180 to 040593

Individual ID's selected: (1 - 15)

- 
- LQG - Large quantity generator (more than 1000 kg per month)
  - SQG - Small quantity generator (100 - 1000 kg per month)
  - CEG - Limited quantity generator (less than 100 kg per month)
  - TSD - Treat, store, or disposal facility
  - Trans. - Transporter
  - BBL - Burner/blender
  - REC - Recycler

- |                                     |                     |
|-------------------------------------|---------------------|
| Sort choices:                       | Owner type choices: |
| 1 - State, Name, ID                 | P - Private         |
| 2 - State, County, Name, ID         | F - Federal         |
| 3 - State, ZIP, Name, ID            | S - State           |
| 4 - State, Legislative District, ID | C - County          |
| 5 - Name, ID                        | M - Municipal       |
| 6 - ID Number                       |                     |

Total number of handlers is 482

93-651



Facility/ID Leg. Dist	Contact - Name	- Phone	Notif.Date	Facility Type	TSD	GEN	TRNS	BBL	RECI
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NORTHEAST TRACTOR SALVAGE NED986385797 Fac1.: EAST OF HWY 77 EAST OF Mail: RR1 BOX 2A	GARY COOPER LYONS LYONS	(402)687-2022 NE NE	07/23/92 68038 68038	BURT CO.	-	SQG	-	-	-
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Number of handlers for BURT county: 1

Facility/ID Leg. Dist	Contact - Name	- Phone	Notif. Date	Facility Type	TSR	GEN	TRNS	BBL	RECI
BORT AUTO BODY NED981717416 Facility: 745 W 21 ST Mail: 745 W 21 ST	G.L. BORTSCHELLER SOUTH SIOUX CITY SOUTH SIOUX CITY	(402)494-5520 NE NE	11/21/86 68776 68776	- DAKOTA CO.	-	-	-	-	-
CARGO INC NET320010283 Facility: 2400 US 77 Mail: P.O. BOX 206	MICHAEL RATKIEWICZ SOUTH SIOUX CITY SIOUX CITY	(800)228-8600 NE IA	04/10/81 68776 51102	- DAKOTA CO.	-	-	TRNS	-	-
IBP, INC. CONSTRUCTION SHOP NED981722275 Facility: 3/4 MI. S. HWY. 20 ON HWY 35 Mail: P. O. BOX 515	BRUCE GEORGE DAKOTA CITY DAKOTA CITY	(402)241-2036 NE NE	03/24/88 68731 68731	- DAKOTA CO.	-	-	-	-	-
IOWA BEEF PROCESSORS INC NED007296056 Facility: HWY 35 S Mail: P O BOX 511	LARRY ONNEN DAKOTA CITY DAKOTA CITY	(402)494-2061 NE NE	08/18/80 68731 68731	- DAKOTA CO.	-	-	-	BBL	-
LAHANN BODY SHOP INC NED035180694 Facility: 1009 DAKOTA AVE Mail: 1009 DAKOTA AVE	DICK HUDSON SOUTH SIOUX CITY SOUTH SIOUX CITY	(402)494-3211 NE NE	08/19/87 68776 68776	- DAKOTA CO.	-	-	-	-	-
NORTHERN NATURAL GAS COMPANY NED986369064 Facility: IBP AVE. 1 MI. S. Mail: P. O. BOX 217	RICK CRAIG SOUTH SIOUX CITY SOUTH SIOUX CITY	(402)494-4271 NE NE	10/16/89 68776 68776	- DAKOTA CO.	-	-	-	-	-
ROYAL COLLISION AND REFINISHING NED986377653 Facility: 2211 CORNHUSKER DRIVE Mail: 2211 CORNHUSKER DRIVE	MICHAEL JOHNSTON SOUTH SIOUX CITY SOUTH SIOUX CITY	(402)494-4259 NE NE	09/16/91 68776 68776	- DAKOTA CO.	-	-	-	-	-
SIOUX CITY FOUNDRY COMPANY NED050154293 Facility: 2500 G STREETS Mail: P. O. BOX 3067	LARRY SILBERNAGEL SOUTH SIOUX CITY SIOUX CITY	(402)494-2491 NE IA	10/07/91 68776 51102	- DAKOTA CO.	-	-	-	BBL	-
SUN MFG INC NED986381663 Facility: 1224 LOGAN STREET Mail: P O BOX 372	PAT DOHRMAN EMERSON EMERSON	(402)695-2855 NE NE	12/20/91 68733 68733	- DAKOTA CO.	-	-	-	-	-
TEAM FORD USED CARS NED986385698 Facility: 900 DAKOTA AVE Mail: 900 DAKOTA AVE	BRUCE SAMUELSON SOUTH SIOUX CITY SOUTH SIOUX CITY	(402)494-1145 NE NE	06/08/92 68776 68776	- DAKOTA CO.	-	-	-	-	-

Number of handlers for DAKOTA county: 10

Facility/ID Leg. Dist	Contact - Name	- Phone	Notif. Date	Facil. Type				
				TSD	GEN	TRNS	BBL	REC
A BODY SHOP NED986384659	Fac11.: 2905 STATE STREET Mail: 2905 STATE STREET GARY SHEPHERD OMAHA OMAHA	(402)453-6077 NE NE	04/10/92 68102 DOUGLAS CO. 68102	-	SQG	-	-	-
A FLORENCE BODY COMPANY NED058806076	Fac11.: 2859 CLAY STREET Mail: 2859 CLAY STREET RICHARD HORSENS OMAHA OMAHA	(402)451-3566 NE NE	03/30/88 68112 DOUGLAS CO. 68112	-	SQG	-	-	-
A 1 DIRECT MARKETING NED986381523	Fac11.: 9101 F STREET Mail: 9101 F STREET DON FRIIS OMAHA OMAHA	(402)592-5000 NE NE	10/28/91 68127 DOUGLAS CO. 68127	-	SQG	-	-	-
A&L MIDWEST LABORATORIES, INC. NED981126824	Fac11.: 13611 B STREET Mail: 13611 B ST JEROME KING OMAHA OMAHA	(402)334-7770 NE NE	01/03/86 68144 DOUGLAS CO. 68144	-	SQG	-	-	-
A-1 BODY NED072897382	Fac11.: 4224 SO. 89TH STREET Mail: 4224 SO. 89TH STREET MATT TRAYNOWICZ OMAHA OMAHA	(402)331-8200 NE NE	10/31/88 68127 DOUGLAS CO. 68127	-	CEG	-	-	-
A-1 DISCOUNT CLEANERS NED179189634	Fac11.: 4105 SOUTH 84TH STREET Mail: 4105 SOUTH 84TH STREET DON BAKER OMAHA OMAHA	(402)339-1890 NE NE	12/21/88 68127 DOUGLAS CO. 68127	-	SQG	-	-	-
A-1 DISCOUNT CLEANERS NED986374643	Fac11.: 9006 MAPLE STREET Mail: 9006 MAPLE STREET KATHY SHUNK OMAHA OMAHA	(402)573-1108 NE NE	03/04/91 68134 DOUGLAS CO. 68134	-	CEG	-	-	-
AAA AUTOMOTIVE INC NED981128184	Fac11.: 4902 SOUTH 33 ST Mail: 4902 SOUTH 33 ST DONALD PEERS OMAHA OMAHA	(402)734-7705 NE NE	02/13/86 68107 DOUGLAS CO. 68107	-	SQG	-	-	-
AAMCO TRANSMISSIONS NED180310534	Fac11.: 4301 DODGE STREET Mail: 4301 DODGE STREET CHARLIE VELINSKY OMAHA OMAHA	(402)733-8700 NE NE	12/23/88 68131 DOUGLAS CO. 68131	-	SQG	-	-	-
AAMCO TRANSMISSIONS NED180362527	Fac11.: 6061 L STREET Mail: 6061 L STREET CHARLIE VELINSKY OMAHA OMAHA	(402)233-8700 NE NE	12/23/88 68117 DOUGLAS CO. 68117	-	SQG	-	-	-
AAMCO TRANSMISSIONS NED981727662	Fac11.: 4301 DODGE STREET Mail: 3330 N 72ND STREET CHARLIE VELINSKY OMAHA OMAHA	(402)733-8700 NE NE	07/03/89 68131 DOUGLAS CO. 68134	-	SQG	-	BBL	-
AAMCO TRANSMISSIONS NED986368199	Fac11.: 3330 N. 72ND STREET Mail: 3330 N. 72ND STREET CHARLES VELINSKY OMAHA OMAHA	(402)733-8700 NE NE	07/03/89 68134 DOUGLAS CO. 68134	-	SQG	-	-	-
AARON FERER AND SONS COMPANY NET320010093	Fac11.: 909 ABBOTT DR Mail: 909 ABBOTT DRIVE WHITNEY FERER OMAHA OMAHA	(402)342-2436 NE NE	08/18/80 68102 DOUGLAS CO. 68102	-	LQG	-	-	-

Facility/ID Leg. Dist	Contact - Name	- Phone	Notif. Date	Facil. Type	-----	-----	-----	-----	-----
					TSDB	GEN	TRNS	BBL	REC
ACURA OF OMAHA NED986385490	Facil.: 4040 S 84TH Mail: 4040 S 84TH JERRY HOUSE OMAHA OMAHA	(402)331-9100 NE NE	06/17/92 68127 68127	SQG	-	-	-	-	-
AIRLITE PLASTICS CO NED007259617	Facil.: 914 N 18TH ST Mail: 914 N 18TH ST LEN SCHRAG OMAHA OMAHA	(402)341-7313 NE NE	04/18/84 68102 68102	SQG	-	-	-	-	-
ALL FOREIGN AUTO SALVAGE NED986384667	Facil.: 5800 SOUTH 60TH STREET Mail: 5800 SOUTH 60TH STREET MICHAEL SCHOENING OMAHA OMAHA	(402)734-2460 NE NE	04/06/92 68117 68117	SQG	-	-	-	-	-
ALL MAKES OFFICE EQUIPMENT CO NED986370559	Facil.: 2558 FARNAM STREET Mail: 2558 FARNAM STREET RANDY GEISTFELD OMAHA OMAHA	(402)341-2413 NE NE	07/30/90 68131 68131	SQG	-	-	-	-	-
AMERICAN DRIVER SVC INC NED072900640	Facil.: 4428 S 108TH ST Mail: 4428 S. 108TH ROGER SIMONSEN OMAHA OMAHA	(402)331-6061 NE NE	04/17/87 68137 68137	-	-	TRNS	-	-	-
AMERICAN ENVELOPE COMPANY NED007285794	Facil.: 915 N 43RD AVE Mail: 915 N 43RD AVE CAROL BURKNAP OMAHA OMAHA	(402)553-1234 NE NE	08/18/80 68131 68131	SQG	-	-	-	-	-
AMERICAN HYDAULICS INC NED986385516	Facil.: 3701 N 16TH ST Mail: 3701 N 16TH ST JAMES ECKERMAN OMAHA OMAHA	(402)453-8281 NE NE	06/04/92 68110 68110	SQG	-	-	-	-	-
AMERICAN HYDRAULICS INC NED981719032	Facil.: 1926 N 11TH ST Mail: 1926 N 11TH ST JIM ECKERMAN OMAHA OMAHA	(402)346-6255 NE NE	10/02/87 68110 68110	SQG	-	-	-	-	-
AMERICAN TELEPHONE AND TELEGRAPH COMPANY NED007259054	Facil.: 120TH & I ST Mail: 120TH & I STREET MICHAEL COMMONS OMAHA OMAHA	(402)691-3722 NE NE	01/17/91 68137 68137	LQG	-	-	-	-	-
AMSA 35 G NE7210090034	Facil.: 2101 WOOLWORTH AVE Mail: 2101 WOOLWORTH AVE WILLIAM SCHULTZ OMAHA OMAHA	(402)554-2023 NE NE	12/10/87 68108 68108	CEG	-	-	-	-	-
ANACOMP INC. NED980965974	Facil.: 11616 I STREET Mail: 11616 I STREET PATRICIA GREENE OMAHA OMAHA	(402)334-8090 NE NE	10/24/84 68137 68137	LQG	-	-	-	-	-
ANDERSON AMOCO NED986375848	Facil.: 9002 WEST CENTER ROAD Mail: 9002 WEST CENTER ROAD LARRY GERDING OMAHA OMAHA	(402)393-9884 NE NE	05/14/91 68124 68124	SQG	-	-	-	-	-
ANDERSON AMOCO NED986375889	Facil.: 2630 SOUTH 140 STREET Mail: 2630 SOUTH 140 STREET RAY ANDERSON OMAHA OMAHA	(402)333-2810 NE NE	06/01/91 68144 68144	SQG	-	-	-	-	-

RCRA Notifiers List State: NE Region VII Merge Database

Run 13.27.38 04/05/93

Facility/ID Leg. Dist	Contact - Name	- Phone	Notif. Date	Facility Type	TSR	GEN	TRNS	BBL	REC1
ANDERSON AMOCO NED986375897	Fac11.: 15635 WEST DODGE ROAD Mail: 15635 WEST DODGE ROAD RAY ANDERSON OMAHA OMAHA	(402)697-0431 NE NE	06/01/91 68118 68118	- DOUGLAS CO.	-	SGQ	-	-	-
ANDERSON AMOCO NED986375913	Fac11.: 14403 FRONTIER ROAD Mail: 14403 FRONTIER ROAD RAY ANDERSON OMAHA OMAHA	(402)333-2810 NE NE	06/01/91 68137 68137	- DOUGLAS CO.	-	SGQ	-	-	-
ANDERSON AMOCO NED986375921	Fac11.: 14111 PACIFIC STREET Mail: 14111 PACIFIC STREET RAY ANDERSON OMAHA OMAHA	(402)333-2810 NE NE	06/01/91 68154 68154	- DOUGLAS CO.	-	SGQ	-	-	-
ANDERSON AMOCO NED986375954	Fac11.: 10202 MAPLE STREET Mail: 10202 MAPLE STREET RAY ANDERSON OMAHA OMAHA	(402)571-0134 NE NE	06/01/91 68134 68134	- DOUGLAS CO.	-	SGQ	-	-	-
ANDERSON AMOCO NED986375988	Fac11.: 3423 SOUTH 72ND STREET Mail: 3423 SOUTH 72ND STREET WARREN ANDERSON OMAHA OMAHA	(402)391-8611 NE NE	05/13/91 68124 68124	- DOUGLAS CO.	-	SGQ	-	-	-
ANDERSON CONOCO NED986375855	Fac11.: 8602 WEST DODGE ROAD Mail: 8602 WEST DODGE ROAD ERIC REYNOLDS OMAHA OMAHA	(402)393-4007 NE NE	06/01/91 68114 68114	- DOUGLAS CO.	-	SGQ	-	-	-
ANDERSON EXCAVATING & WRECKING CO NED007292568	Fac11.: S 20TH ST Mail: S 20TH ST DON REYNOLDS OMAHA OMAHA	(402)345-8811 NE NE	07/07/80 68108 68108	- DOUGLAS CO.	-	TRNS	-	-	-
ANTIR FREEZE RECYCLERS NED986384675	Fac11.: 3 MI N HWY 275 ON CTY RD 92 Mail: RR 2, BOX 192 MARY EGLER VALLEY VALLEY	(402)359-5657 NE NE	03/09/92 68064 68064	- DOUGLAS CO.	-	TRNS	-	-	-
APPLEWOOD CLEANERS NED986374585	Fac11.: 5407 SOUTH 96TH Mail: 5407 SOUTH 96TH YOUNGSOON PARK OMAHA OMAHA	(402)571-7546 NE NE	02/13/91 68127 68127	- DOUGLAS CO.	-	CEG	-	-	-
APS INC NED134774611	Fac11.: 4454 SOUTH 67TH STREET Mail: 4454 SOUTH 67TH STREET PHIL BOYSEN OMAHA OMAHA	(402)331-1611 NE NE	06/29/89 68117 68117	- DOUGLAS CO.	-	SGQ	-	-	-
ARCHBISHOP BERGAN MERCY HOSPITAL NED078005147	Fac11.: 7500 MERCY RD Mail: 700 MERCY RD KEN JOHNSON OMAHA OMAHA	(402)398-6060 NE NE	08/19/80 68124 68124	- DOUGLAS CO.	-	SGQ	-	-	-
ARCHIES AMOCO NED074302829	Fac11.: 9601 Q STREET Mail: 9601 Q STREET STEVE BURKE OMAHA OMAHA	(402)339-5759 NE NE	01/12/89 68127 68127	- DOUGLAS CO.	-	SGQ	-	-	-
ARMATURE & ELECTRIC MACHINE CO NED007494545	Fac11.: 4425 S 87TH ST Mail: 4425 S 87TH ST BRIAN PETERSEN OMAHA OMAHA	(402)331-0700 NE NE	04/17/91 68127 68127	- DOUGLAS CO.	-	SGQ	-	-	-

Facility/ID Leg. Dist	Contact - Name	- Phone	Notif.Date	Facility Type	TSR	GEN	TRNS	BBL	REC
ARMSTRONG CLEANERS NED035105550	Fac11.: 3872 LEAVENWORTH ST Mail: 3872 LEAVENWORTH ST CURT ARMSTRONG OMAHA OMAHA	(402)345-4500 NE NE	02/05/91 68105 68105	-	SGQ	-	-	-	-
ARROW STAGE LINE NED986385532	Fac11.: 7728 F ST Mail: 7728 F ST GENE WORDEKEMPER OMAHA OMAHA	(402)339-9966 NE NE	06/05/92 68127 68127	-	SGQ	-	-	-	-
ART'S AUTO PARTS NED986374023	Fac11.: 8420 G STREET Mail: 8420 G STREET SCOTT MILLARD OMAHA OMAHA	(402)345-1797 NE NE	12/20/90 68127 68127	-	SGQ	-	-	-	-
ASH BATTERY SYSTEMS INC NED057529661	Fac11.: 4525 SOUTH 134TH STREET Mail: 4525 SOUTH 134TH STREET JAMES ASH OMAHA OMAHA	(402)334-0250 NE NE	02/20/91 68137 68137	-	-	TRNS	-	-	-
AT & T NED986370120	Fac11.: 3604 D STREET Mail: ONE SOUTH WACKER DR E PRESTON OMAHA CHICAGO	(312)592-6862 NE IL	06/18/90 68107 60606	-	SGQ	-	-	-	-
ATCHLEY FORD INC NED980968176	Fac11.: 3633 NO 72ND Mail: 3633 NO 72ND DAVID CLARK OMAHA OMAHA	(402)571-8801 NE NE	01/18/91 68134 68134	-	LQG	-	-	-	-
AUTO FINESSE NED986382281	Fac11.: 6701 HARRISON STREET Mail: 6701 HARRISON STREET RAY JUDAH OMAHA OMAHA	(402)341-5380 NE NE	02/14/92 68157 68157	-	SGQ	-	-	-	-
A1 AMOCO NED986375152	Fac11.: 4855 SOUTH 108TH STREET Mail: 4855 SOUTH 108TH STREET STEVE BURKE OMAHA OMAHA	(402)339-5759 NE NE	04/21/91 68137 68137	-	SGQ	-	-	-	-
B C I INC NED098391550	Fac11.: 1919 N 11TH ST Mail: 1919 N 11TH ST JOHN ROBINSON OMAHA OMAHA	(402)344-7990 NE NE	02/27/91 68110 68110	-	SGQ	-	-	-	-
B STREET BODY SHOP NED986386761	Fac11.: 13520 B STREET Mail: 13520 B STREET ROBERT WIESE OMAHA OMAHA	(402)333-9872 NE NE	10/10/92 68144 68144	-	SGQ	-	-	-	-
BADGER BODY AND TRUCK EQUIPMENT NED059745901	Fac11.: 6336 GROVER Mail: 6336 GROVER DAVID NEWCOMB OMAHA OMAHA	(402)558-5300 NE NE	02/28/91 68106 68106	-	CEG	-	-	-	-
BALLANTYNE OF OMAHA, INC. NED085826485	Fac11.: 4350 MCKINLEY ROAD Mail: 4350 MCKINLEY ROAD HAROLD SCHUMAN OMAHA OMAHA	(402)453-4444 NE NE	03/05/91 68112 68112	-	SGQ	-	-	-	-
BARNETT & RAMEL OPTICAL NED007258460	Fac11.: 7154 N 16TH ST Mail: PO BOX 3488 LEO HERGENRODER OMAHA OMAHA	(402)453-4900 NE NE	03/31/87 68110 68103	-	SGQ	-	-	-	-

Facility/ID Leg. Dist	Contact - Name	- Phone	Notif. Date	Facil. Type				
				ITSD	GEN	TRNS	BBL	REC
BAXTER CHRYSLER PLYMOUTH NED035106814	TAL ANDERSON Fac11.: 11910 W DODGE ROAD Mail: 11910 W DODGE ROAD OMAHA OMAHA	(402)493-7800 NE NE	10/18/88 68154 DOUGLAS CO. 68154	-	SQG	-	-	-
BEEF AMERICA NED082719709	WALTER ADAMS Fac11.: 4003 DAHLMAN AVENUE Mail: 4003 DAHLMAN AVENUE OMAHA OMAHA	(402)731-7269 NE NE	03/05/91 68107 DOUGLAS CO. 68107	-	SQG	-	-	-
BEMIS CO INC NED007261340	BOYD WEST Fac11.: 3514 S 25TH ST Mail: PO BOX 9066 OMAHA OMAHA	(402)734-6262 NE NE	02/26/91 68105 DOUGLAS CO. 68109	-	SQG	-	-	-
BENSON BODY AND PAINT NED986370310	JOHN KRIEGHAUSER Fac11.: 2430 NORTH 84TH STREET Mail: 2430 NORTH 84TH STREET OMAHA OMAHA	(402)391-5875 NE NE	02/28/91 68134 DOUGLAS CO. 68134	-	SQG	-	-	-
BLUE CHIP AUTO CO NED035107986	PAUL KNIEVEL Fac11.: 2924 N 84TH ST Mail: 2924 N 84 ST OMAHA OMAHA	(402)572-8383 NE NE	09/03/86 68134 DOUGLAS CO. 68134	-	SQG	-	-	-
BODYCRAFT NED986368389	MICHAEL MCMAHAN Fac11.: 2425 NORTH 84TH STREET Mail: 2425 NORTH 84TH STREET OMAHA OMAHA	(402)391-0300 NE NE	03/01/91 68134 DOUGLAS CO. 68134	-	SQG	-	-	-
BRUMKO MAGNETICS CORP NED082727637	RICHARD NICOTERO Fac11.: 150 BINFIELD ST Mail: 150 BINFIELD ST ELKHORN ELKHORN	(402)289-2400 NE NE	07/27/87 68022 DOUGLAS CO. 68022	-	SQG	-	-	-
BUDGET PAINTING INC NED980962880	MICHAEL HOWELL Fac11.: 6129 MILITARY AVENUE Mail: 6129 MILITARY AVENUE OMAHA OMAHA	(402)558-2704 NE NE	12/17/92 68104 DOUGLAS CO. 68104	-	CEG	-	-	-
BULK, INC. NED056051915	GARY KING Fac11.: 2565 "A" ST MARYS AVENUE Mail: P O BOX 189 OMAHA OMAHA	(402)346-8092 NE NE	06/17/81 68105 DOUGLAS CO. 68101	-	-	TRNS	-	-
BURNS BIOTEC NED065114365	Fac11.: 8530 K ST Mail: 8530 K OMAHA OMAHA	( ) - NE NE	08/15/80 68127 DOUGLAS CO. 68124	-	SQG	-	-	-
BUSINESS PRINTING SERVICE INC NED986382364	LOUIS RICH Fac11.: 4012 SOUTH 24TH STREET Mail: 4012 SOUTH 24TH STREET OMAHA OMAHA	(402)733-5353 NE NE	01/07/92 68107 DOUGLAS CO. 68107	-	SQG	-	-	-
CAMELOT CLEANERS NED109106450	VINCE COURTNEY Fac11.: 8415 WEST CENTER Mail: 8415 WEST CENTER OMAHA OMAHA	(402)393-5257 NE NE	12/29/88 68124 DOUGLAS CO. 68124	-	SQG	-	-	-
CAMPBELL SOUP COMPANY NED007268980	STEPHEN LEWIS Fac11.: 1202 DOUGLAS STREET Mail: P.O. BOX 778 OMAHA OMAHA	(402)342-8118 NE NE	03/24/92 68101 DOUGLAS CO. 681010778	-	SQG	-	-	-

Facility/ID Leg. Dist	Contact - Name	- Phone	Notif.Date	Facil. Type				
				ITSD	GEN	TRNS	BBL	REC
CANNONBALL EXPRESS INC NEDO58055815 Fac11.: 9100 F STREET Mail: 9100 F STREET	BRUCE MEYERS OMAHA OMAHA	(402)331-4313 NE NE	05/16/84 68127 68127	-	-	TRNS	-	-
CAPITAL OIL CO NEDO20201075 Fac11.: 1128 N. 11TH STREET Mail: 1128 N. 11TH STREET	RICHARD STEPHENS OMAHA OMAHA	(402)346-7441 NE NE	08/18/80 68102 68102	-	-	-	BBL	-
CAR PRIDE NED986369163 Fac11.: 348 N. 115TH STREET Mail: 348 N. 115TH STREET	JIM VANOSDALL OMAHA OMAHA	(402)330-9575 NE NE	11/30/89 68154 68154	-	SQG	-	-	-
CARLSON SYSTEMS NEDO74270901 Fac11.: 8990 F ST Mail: 8990 F ST	PETER KANE OMAHA OMAHA	(402)339-4100 NE NE	10/09/86 68127 68127	-	SQG	-	-	-
CARLSON SYSTEMS ENGINEERING NED986370047 Fac11.: 4125 S. 94TH STREET Mail: 4125 S. 94TH STREET	FRED BARBER OMAHA OMAHA	(402)339-4100 NE NE	05/23/90 68103 68103	-	SQG	-	-	-
CARRIAGE CLEANERS NED986375046 Fac11.: 11923 PACIFIC Mail: 2112 FRANKLIN	JOHN ESTEY OMAHA BELLEVUE	(402)291-0132 NE NE	08/17/92 68144 68005	-	SQG	-	-	-
CARRIER SERVICE CENTER NED981719560 Fac11.: 13321 F ST Mail: 13321 F ST	TOM PETERSON OMAHA OMAHA	(312)986-4225 NE NE	12/01/87 68137 68137	-	SQG	-	-	-
CASE POWER AND EQUIPMENT NED986375038 Fac11.: 10415 J STREET Mail: 10415 J STREET	SAM ALLEN OMAHA OMAHA	(402)331-0490 NE NE	03/07/91 68127 68127	-	SQG	-	-	-
CENTRAL CYLINDER SERVICE INC NED001896364 Fac11.: 6315 AIRPORT DR Mail: 6315 AIRPORT DR	GEORGE CZARNECKI OMAHA OMAHA	(402)451-6468 NE NE	08/08/86 68110 68110	-	SQG	-	-	-
CENTRAL WASTE SYSTEMS INC NED051023158 Fac11.: 3720 LEAVENWORTH Mail: 3720 LEAVENWORTH	WILLIAM SCHAFER OMAHA OMAHA	(402)345-3004 NE NE	12/15/81 68105 68106	-	-	TRNS	-	-
CENTRAL WASTE SYSTEMS INC NED981126600 Fac11.: 4303 SOUTH 79TH CIRCLE Mail: 4303 SOUTH 79TH CIRCLE	DAVID PETERS OMAHA OMAHA	(402)331-4300 NE NE	01/28/86 68127 68127	-	-	TRNS	-	-
CHEMLAWN SERVICES NET320010291 Fac11.: 14554 GROVER ST Mail: 14554 GROVER ST	ROGER STUDEBAKER OMAHA OMAHA	(402)330-4664 NE NE	08/18/80 68144 68144	-	SQG	-	-	-
CHOIS DRYLEAN NED122008584 Fac11.: 14493 WEST CENTER Mail: 14493 WEST CENTER	WOO TEK OMAHA OMAHA	(402)333-8804 NE NE	12/12/88 68144 68144	-	SQG	-	-	-



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CITY OF OMAHA TRAFFIC MAINTANANCE NED981119548	Fac11.: 4303 SO 50 ST Mail: 4303 SO 50 ST	TOM MCDONALD OMAHA OMAHA	(402)444-5162 NE NE	08/08/85 68117 DOUGLAS CO. 68117	- LQG	-	-	-
CLARKLIFT OF NEBRASKA INC NED986384824	Fac11.: 4601 F STREET Mail: 4601 F STREET	BILL MEISENHEIMER OMAHA OMAHA	(402)734-1260 NE NE	05/06/92 68117 DOUGLAS CO. 68117	- SQG	-	-	-
CLASSIC CADILLAC INC NED981703119	Fac11.: 2526 DOUGLAS ST Mail: 2526 DOUGLAS ST	GENE LOWTHER OMAHA OMAHA	(402)348-1666 NE NE	09/26/86 68131 DOUGLAS CO. 68131	- SQG	-	-	-
COCKLE PRINTING NED986375731	Fac11.: 2311 DOUGLAS Mail: 2311 DOUGLAS	ANDY COCKLE OMAHA OMAHA	(402)342-2831 NE NE	06/03/91 68102 DOUGLAS CO. 68102	- SQG	-	-	-
COLLEGE OF SAINT MARY NED068675388	Fac11.: 1901 S. 72ND STREET Mail: 1901 S. 72ND STREET	STEPHEN DYER OMAHA OMAHA	(402)399-2400 NE NE	06/05/90 68124 DOUGLAS CO. 68124	- SQG	-	-	-
CONTINENTAL AIRLINES OMA NED986385250	Fac11.: ABBOTT DRIVE N END OF BLDG Mail: PO BOX 19010	RICK DUNLOP OMAHA OMAHA	(402)422-6180 NE NE	05/07/92 68119 DOUGLAS CO. 68119	- SQG	-	-	-
CONTINENTAL CAN CO - USA PLANT 40 NED007263353	Fac11.: 4133 S 72ND Mail: 4133 S 72ND	JERALD NELSON OMAHA OMAHA	(402)331-4400 NE NE	08/18/80 68127 DOUGLAS CO. 68127	TSD LQG	-	BBL	-
CREIGHTON UNIVERSITY NED053309332	Fac11.: CALIFORNIA AT 24TH STREETS Mail: CALIFORNIA AT 24TH STS	RICHARD WADLEIGH OMAHA OMAHA	(402)280-2104 NE NE	02/10/86 68131 DOUGLAS CO. 68131	- SQG	-	-	-
CUMMINS GREAT PLAINS DIESEL NED089573588	Fac11.: 5515 CENTER ST Mail: 5515 CENTER ST	MIKE PATTERSON OMAHA OMAHA	(402)551-7678 NE NE	09/11/86 68106 DOUGLAS CO. 68106	- SQG	-	-	-
CURZON ADVERTISING NED087074233	Fac11.: 1013 S 75TH ST Mail: 1013 S 75TH ST	RAY SERFASS OMAHA OMAHA	(402)393-2020 NE NE	05/15/92 681144658 DOUGLAS CO. 68114	- SQG	-	-	-
CUSTOM CARRIERS INC NED980851695	Fac11.: 8205 F ST Mail: 8205 "F" STREET	JAMES HOGARTH OMAHA OMAHA	(402)331-2720 NE NE	08/30/83 68127 DOUGLAS CO. 68127	-	-	TRNS	-
DATA DOCUMENTS NED007260987	Fac11.: 9503 F STREET Mail: 4205 SOUTH 96TH ST	RON JENSEN OMAHA OMAHA	(402)339-0900 NE NE	09/05/85 68127 DOUGLAS CO. 68127	- SQG	-	-	-
DAVIE DISPOSAL SYSTEMS, INC. NED062258405	Fac11.: 2205 N. 88TH STREET Mail: 2205 N. 88TH STREET	PAUL NAVIE OMAHA OMAHA	(402)393-1583 NE NE	03/14/88 68134 DOUGLAS CO. 68134	-	-	TRNS	-

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DEAN RAWSON NISSAN NED981507346 Facil.: 11550 DODGE ST Mail: 11550 DODGE ST	MAURICE CLARK OMAHA OMAHA	(402)572-6000 NE NE	07/25/86 68134 68134	DOUGLAS CO.	-	-	-	-	-
DELTA AIR LINES-OMAHA NED981715147 Facil.: EPPLEY FIELD Mail: DEPT 581, ATLANTA INTL AIRPORT	CARLO AMATO OMAHA ATLANTA	(404)422-6127 NE GA	07/14/87 68119 30320	DOUGLAS CO.	-	-	-	-	-
DELUXE BODY COMPANY NED986381788 Facil.: 8606 G STREET Mail: 8606 G STREET	JOHN CHIN OMAHA OMAHA	(402)339-6200 NE NE	11/20/91 68127 68127	DOUGLAS CO.	-	-	-	-	-
DIESEL POWER EQUIPMENT NED986368272 Facil.: 15225 INDUSTRIAL ROAD Mail: 15225 INDUSTRIAL ROAD	WALTER PRICE OMAHA OMAHA	(402)330-5100 NE NE	01/26/89 68144 68144	DOUGLAS CO.	-	-	-	-	-
DIESEL SPECIALTIES INC NED981721087 Facil.: 13325 B STREET Mail: 4505 HARBOR DR PO BOX 3625	WILLIAM PRY OMAHA SIOUX CITY	(402)330-0580 NE IA	12/30/87 68144 51102	DOUGLAS CO.	-	-	-	-	-
DJ ENTERPRISES NED986368355 Facil.: 2417 S. 3RD PLAZA Mail: 2417 S. 4RD PLAZA	DENNIS BROWNE OMAHA OMAHA	(402)345-8053 NE NE	08/20/90 68108 68108	DOUGLAS CO.	-	-	TRNS	-	-
DONS LEATHER CLEANERS, INC. NED102306814 Facil.: 4510 LEAVENWORTH Mail: 4510 LEAVENWORTH	DONALD POACH OMAHA OMAHA	(402)553-5213 NE NE	12/21/88 68106 68106	DOUGLAS CO.	-	-	-	-	-
DORSEY TRAILER SALES, INC. NED084622075 Facil.: 10502 SO. 147TH STREET Mail: 10502 SO. 147TH STREET	WAYNE SCHUMANN OMAHA OMAHA	(402)895-5555 NE NE	11/14/88 68138 68138	DOUGLAS CO.	-	-	-	-	-
DOUGLAS COUNTY LANDFILL NET320010234 Facil.: 126 STATE ST Mail: 3015 MENKE CIRCLE	JERRY LEAHY OMAHA OMAHA	(402)444-6181 NE NE	08/18/80 68112 68134	DOUGLAS CO.	TSD	-	-	-	-
DRUM INDUSTRIES, INC. NED981707730 Facil.: 2623 CENTER ST Mail: 7921 S. 84TH STREET #18	K.W. HINDMAN OMAHA OMAHA	(402)592-2340 NE NE	11/26/86 68105 68128	DOUGLAS CO.	-	SQG	TRNS	-	-
E A PEDERSEN CO NED062238167 Facil.: 3900 DAHLMAN AVE Mail: 3900 DAHLMAN AVE	LARRY BINAU OMAHA OMAHA	(402)734-3900 NE NE	02/11/91 68107 68107	DOUGLAS CO.	-	SQG	-	-	-
EAGLE SYSTEMS NED981723307 Facil.: 3101 BLAKE STREET Mail: P. O. BOX 7224	RICHARD SCHWEITZER OMAHA OMAHA	(402)474-6401 NE NE	03/10/88 68108 68108	DOUGLAS CO.	-	SQG	-	-	-
ELANCO PRODUCTS CO-OMAHA LABS NED041244492 Facil.: 5600 S 42ND S Mail: PO BOX 3008	J.E. CHRIST OMAHA OMAHA	(402)734-0500 NE NE	08/18/80 68107 68103	DOUGLAS CO.	-	SQG	-	-	-

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ELECTRIC OPERATIONS DIV HQ NED981700685	Facil.: 4302 LEAVENWORTH STREET Mail: 444 S 16TH STREET	DONOVAN HUTCHENS OMAHA OMAHA	(402)636-2313 NE NE	08/11/86 68105 DOUGLAS CO. 68102	-	SQG	TRNS	BBL	-
ELECTROSTATIC PAINTING INC. NED981727696	Facil.: 2110 MILITARY AVENUE Mail: 2110 MILITARY AVENUE	JANINE GULIZIA OMAHA OMAHA	(402)553-6394 NE NE	09/27/88 68111 DOUGLAS CO. 68111	-	CEG	-	-	-
ELITE AUTO BODY NED981505530	Facil.: 2019 N 84TH ST Mail: 2019 N 84TH ST	VERN LARSON OMAHA OMAHA	(402)393-0312 NE NE	06/23/86 68134 DOUGLAS CO. 68134	-	SQG	-	-	-
ELKHORN COMM SITE, OFFUTT AFB NE3571990040	Facil.: 21011 RAINWOOD ROAD Mail: 1ST ACOMM WING, DET 2	JENS CHRISTENSEN ELKHORN ELKHORN	(402)294-4087 NE NE	01/15/91 68022 DOUGLAS CO. 681135000	-	SQG	TRNS	BBL	-
ELKHORN SERVICE CENTER NED981717820	Facil.: 1101 N 180TH STREET Mail: 444 S 16TH STREET	DONOVAN HUTCHENS ELKHORN OMAHA	(402)636-2313 NE NE	09/17/87 68022 DOUGLAS CO. 68102	-	SQG	TRNS	BBL	-
ELKHORN SOLVENTS NED980969430	Facil.: MAIN ST & RR 1 ROAD Mail: 605 SKYLINE DR	LAUREN FEDDE ELKHORN ELKHORN	(402)289-3663 NE NE	03/20/85 68022 DOUGLAS CO. 68022	-	LQG	TRNS	-	-
EMJAY ORGANICS INC NED980861009	Facil.: 9447 J STREET Mail: 505 CROWN AVENUE PT. AVE.	MIKE GITTINGS OMAHA OMAHA	(402)331-1020 NE NE	07/10/84 68127 DOUGLAS CO. 68110	-	SQG	-	-	-
ENVIRONMENTAL SERVICES INC NED000610576	Facil.: 1521 N 11TH ST Mail: 1521 NORTH 11TH ST	HARRY SEARLE III OMAHA OMAHA	(402)345-6543 NE NE	07/07/80 68110 DOUGLAS CO. 68110	-	LQG	TRNS	-	-
EPSEN HILLMER GRAPHICS NED085823417	Facil.: 2020 CALIFORNIA STREET Mail: 2020 CALIFORNIA STREET	JOHN MELOCCARO OMAHA OMAHA	(402)422-1162 NE NE	08/14/85 68102 DOUGLAS CO. 68102	-	LQG	-	-	-
EPSEN LITHOGRAPHING CO NED058971094	Facil.: 2000 CALIFORNIA ST Mail: 2000 CALIFORNIA ST	L.L. WEWEL OMAHA OMAHA	(402)342-7000 NE NE	08/18/80 68102 DOUGLAS CO. 68102	-	SQG	-	-	-
EVANS CLEANERS NED986373991	Facil.: 3401 SOUTH 84TH Mail: 3401 SOUTH 84TH	CHARLES KLITZ OMAHA OMAHA	(402)393-1560 NE NE	11/01/90 68127 DOUGLAS CO. 68127	-	SQG	-	-	-
EXCEL AUTO BODY NED986375053	Facil.: 14639 GROVER STREET Mail: 14639 GROVER STREET	RUSSELL MCCORMICK OMAHA OMAHA	(402)330-6896 NE NE	03/26/91 68144 DOUGLAS CO. 68144	-	CEG	-	-	-
FAR WEST SYSTEMS INC NED986387132	Facil.: 1011 SOUTH 117TH COURT Mail: 1011 SOUTH 117TH COURT	WILLIAM HALES OMAHA OMAHA	(402)333-0819 NE NF	12/07/92 68154 DOUGLAS CO. 68154	-	-	TRNS	-	-

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FARNAM COMPANIES INC NED068640747 Fac11.: 6847 N 16TH Mail: 6847 N 16TH	DEAN GILBERTSON OMAHA OMAHA	(402)453-9100 NE NE	08/18/80 68112 DOUGLAS CO. 68112	- LQG	-	-	-	-	-
FASHION CLEANERS NED986370187 Fac11.: 3031 LEAVENWORTH ST Mail: 3031 LEAVENWORTH ST	KERMIT ENGH OMAHA OMAHA	(402)342-3491 NE NE	07/24/92 68105 DOUGLAS CO. 68105	- SQG	-	-	-	-	-
FAUVER CO NED986386662 Fac11.: 10171 J STREET Mail: 1500 E ST AVIS DRIVE	JIME GORES OMAHA MADISON HEIGHTS	(402)331-5240 NE MI	10/01/92 68127 DOUGLAS CO. 48071	- SQG	-	-	-	-	-
FEDERAL EXPRESS CORPORATION NED986370211 Fac11.: 7128 F STREET Mail: 7128 F STREET	BOB PORTER OMAHA OMAHA	(402)331-4976 NE NE	06/14/90 68117 DOUGLAS CO. 68117	- CEG	-	-	-	-	-
FEDERAL EXPRESS CORPORATION NED986370328 Fac11.: 1820 FORT COURT Mail: 1820 FORT COURT	JOHN STEWART OMAHA OMAHA	(402)345-0739 NE NE	07/18/90 68110 DOUGLAS CO. 68110	- CEG	-	-	-	-	-
FEDERAL EXPRESS CORPORATION NED986370336 Fac11.: 1802 FORT COURT Mail: 1802 FORT COURT	JOHN STEWART OMAHA OMAHA	(402)345-0739 NE NE	07/18/90 68110 DOUGLAS CO. 68110	- CEG	-	-	-	-	-
FIRST DATA RESOURCE INC NED986377802 Fac11.: 7301 PACIFIC STREET Mail: 7301 PACIFIC STREET	PAUL BARDEN OMAHA OMAHA	(402)222-3240 NE NE	02/25/92 68114 DOUGLAS CO. 68114	- SQG	-	-	-	-	-
FIRST DATA RESOURCES INC NED986370849 Fac11.: 7330 PACIFIC STREET Mail: 7330 PACIFIC STREET	PAUL BARDEN OMAHA OMAHA	(402)222-3240 NE NE	08/15/90 68114 DOUGLAS CO. 68114	- SQG	-	-	-	-	-
FIRST DATA RESOURCES INC NED986386621 Fac11.: 10642 BURT STREET Mail: 10642 BURT STREET	LORI MINDRUP OMAHA OMAHA	(402)493-1115 NE 681141208 NE 681141208	10/05/92 DOUGLAS CO. DOUGLAS CO.	- SQG	-	-	-	-	-
FLEETWOOD TRAVEL TRAILER OF NE INC NED986373942 Fac11.: 13737 INDUSTRIAL ROAD Mail: P. O. BOX 37638	ROBERT HOHLER OMAHA OMAHA	(402)895-1850 NE NE	05/31/91 68137 DOUGLAS CO. 68137	- LQG	-	-	-	-	-
FLINT INK CORP NED986385540 Fac11.: 7738 I PLAZA Mail: 7738 I PLAZA	STEVE MASON OMAHA OMAHA	(402)597-1535 NE NE	05/29/92 68127 DOUGLAS CO. 68127	- SQG	-	-	-	-	-
FRANK MCGILL INC NED981709942 Fac11.: 1735 N 42ND ST Mail: 1735 N 41ND ST	ED SWANEK OMAHA OMAHA	(402)558-7397 NE NE	02/03/87 68111 DOUGLAS CO. 68111	- SQG	-	-	BBL	-	-
FRIENDLY AUTO SALES INC NED986381762 Fac11.: 3902 SOUTH 42ND STREET Mail: 3902 SOUTH 42ND STREET	RUSS OBRIEN OMAHA OMAHA	(402)733-7955 NE NE	09/11/91 68107 DOUGLAS CO. 68107	- SQG	-	-	-	-	-

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FRITZ'S AMOCO SERVICE NED986375871 Fac11.: 445 N 114 STREET Mail: 445 N 114 STREET	SHIRLEY FRITZ OMAHA OMAHA	(402)333-9711 NE NE	06/04/91 68154 DOUGLAS CO. 68154	-	SQG	-	-	-
FRUEHAUF TRAILER REPAIR NED980965156 Fac11.: 4550 SO 96TH STREET Mail: 4550 SO 96TH STREET	RANDY BELLER OMAHA OMAHA	(402)339-2120 NE NE	11/02/84 68127 DOUGLAS CO. 68127	-	SQG	-	-	-
GLENCO RAILCAR SERVICE NED981117153 Fac11.: 13810 L STREET Mail: 13810 L STREET	GERALD WAGNER OMAHA OMAHA	(402)895-0719 NE NE	08/28/85 68137 DOUGLAS CO. 68137	TSD	LQG	-	-	-
GRA-GAR INC NED981704174 Fac11.: 10409 CONESTOGA RD Mail: 10409 CONESTOGA RD	MIKE SLAYDEN OMAHA OMAHA	(402)895-6847 NE NE	10/02/86 68138 DOUGLAS CO. 68138	-	SQG	-	-	-
GREAT PLAINS AUTO BODY, INC. NED986369122 Fac11.: 7845 F STREET Mail: 7845 F STREET	BRUCE HANSEN OMAHA OMAHA	(402)331-8422 NE NE	11/08/89 68127 DOUGLAS CO. 68127	-	SQG	-	-	-
GROSS AND ASSOCIATES NED986368256 Fac11.: 4744 S. 83RD STREET #13 Mail: P. O. BOX 27505	G. NULL OMAHA OMAHA	(402)339-0677 NE NE	12/08/88 68127 DOUGLAS CO. 68127	-	-	TRNS	-	-
H & H CHEVROLET GEO CO NED035120864 Fac11.: 4645 SOUTH 84TH STREET Mail: 4645 SOUTH 84TH STREET	STEVE HINCHCLIFF OMAHA OMAHA	(402)339-2222 NE NE	06/03/85 68127 DOUGLAS CO. 68127	-	SQG	-	-	-
H P SMITH MOTORS INC NED008910739 Fac11.: 5051 L STREET Mail: 5051 L STREET	CHARLES OLSON OMAHA OMAHA	(402)733-8100 NE NE	01/30/86 68117 DOUGLAS CO. 68117	-	LQG	-	-	-
HDR ENGINEERING INCORPORATED NED986370344 Fac11.: 8401 WEST DODGE RD 1ST FLOOR Mail: 8404 INDIAN HILLS	LEROY MEYER OMAHA OMAHA	(402)399-1000 NE NE	03/29/90 68114 DOUGLAS CO. 68114	-	SQG	-	-	-
HERMAN BROTHERS INC NED007290885 Fac11.: 2565 ST MARYS AVE Mail: 2565 ST MARYS AVENUE	RICHARD PAPA OMAHA OMAHA	(402)346-8092 NE NE	08/18/80 68105 DOUGLAS CO. 68101	-	-	TRNS	-	-
HOLT FOUR T SERVICE NED980970461 Fac11.: 2716 NORTH 22ND ST EAST Mail: PO BOX 19106	JON WARD OMAHA OMAHA	(402)341-3286 NE NE	04/17/85 68110 DOUGLAS CO. 68110	-	SQG	-	-	-
HOWELL'S AMOCO NED986375863 Fac11.: 5203 NORTH WEST RADIAL HIGHWAY Mail: 5203 NORTH WEST RADIAL HIGHWAY	CRAIG HOWELL OMAHA OMAHA	(402)551-0630 NE NE	05/20/91 68104 DOUGLAS CO. 68104	-	SQG	-	-	-
HUBER CHEVROLET CO INC NED035114644 Fac11.: 11102 W DODGE RD Mail: 11102 W DODGE RD	JERRI SCHOMERS OMAHA OMAHA	(402)496-0220 NE NE	02/19/86 68154 DOUGLAS CO. 68154	-	SQG	-	BBL	-

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ICI AMERICAS AG PRODUCTS NED007263486 Facil.: 4111 GIBSON RD Mail: 4111 GIBSON RD	HARRY COLLINS OMAHA OMAHA	(402)734-8324 NE NE	08/13/80 68107 DOUGLAS CO. 68107	-	LQG	-	BBL	-
IDEAL TRUCK LINES NED986385854 Facil.: 7410 F STREET Mail: 7410 F STREET	RICHARD G NELSON OMAHA OMAHA	(402)339-7500 NE NE	07/28/92 68127 DOUGLAS CO. 68127	-	SQG	-	-	-
IMPORT BODY WORKS, INC. NED180318131 Facil.: 13353 A STREET Mail: 13353 A STREET	JAMES RYAN OMAHA OMAHA	(402)330-0654 NE NE	04/25/89 68144 DOUGLAS CO. 68144	-	CEG	-	-	-
INDUSTRIAL CHEMICAL LABS INC NED007260110 Facil.: 1015 N 14TH ST Mail: 1015 N 14TH ST	GARY BRANDT OMAHA OMAHA	(402)342-4248 NE NE	08/06/80 68102 DOUGLAS CO. 68102	-	CEG	-	-	-
INDUSTRIAL ELECTRIC REEL NED007266687 Facil.: 10102 F STREET Mail: 10102 F STREET	GARY NIELSEN OMAHA OMAHA	(402)339-9300 NE NE	11/06/89 68127 DOUGLAS CO. 68127	-	SQG	-	-	-
INDUSTRIAL LABEL CORP NED007266646 Facil.: 4130 S 94TH Mail: 4130 SOUTH 94TH ST.	DAVID BOYD OMAHA OMAHA	(402)339-9944 NE NE	04/10/85 68127 DOUGLAS CO. 68127	-	SQG	-	-	-
INDUSTRIAL PLATING INC NED007494966 Facil.: 1149 FLORENCE BLVD Mail: 1149 FLORENCE BLVD	RANDYE CHICKINELLI OMAHA OMAHA	(402)344-4684 NE NE	08/19/80 68102 DOUGLAS CO. 68102	-	CEG	-	-	-
INGERSOLL-RAND CENTER NED986376002 Facil.: 4501 SOUTH 119TH CIRCLE Mail: 4501 SOUTH 119TH CIRCLE	JEFF CRETORS OMAHA OMAHA	(816)921-7000 NE NE	05/16/91 68137 DOUGLAS CO. 68137	-	SQG	-	-	-
INLAND TRUCK PARTS CO NED986387181 Facil.: 9737 I STREET Mail: 9737 I STREET	SAM WILLIAMS OMAHA OMAHA	(402)331-1222 NE NE	12/10/92 68127 DOUGLAS CO. 68127	-	SQG	-	-	-
INLAND TRUCK PARTS CO NED986387199 Facil.: 8710 1/2 L STREET Mail: 8710 1/2 L STREET	SAM WILLIAMS OMAHA OMAHA	(402)331-1222 NE NE	12/10/92 68127 DOUGLAS CO. 68127	-	SQG	-	-	-
INTERNATIONAL GAMCO INC NED986375236 Facil.: 9335 NORTH 48TH STREET Mail: 9335 NORTH 48TH STREET	ROGER FRANKLIN OMAHA OMAHA	(402)571-2449 NE NE	03/20/91 681521541 DOUGLAS CO. 681521541	-	SOG	-	-	-
INTERSTATE DETROIT DIESEL INC NED035122589 Facil.: 6969 S 107TH Mail: 6969 S 107TH	TOM BERG OMAHA OMAHA	(402)331-4104 NE NE	09/03/86 68128 DOUGLAS CO. 68128	-	SOG	-	-	-
INTERSTATE INDUSTRIAL VACUUM SERVICE NED981723463 Facil.: 8702 N. 30TH STREET Mail: 8702 N. 30TH STREET	JACK KAPPEL JR OMAHA OMAHA	(402)978-8724 NE NE	01/20/88 68112 DOUGLAS CO. 68112	-	-	TRNS	-	-

Facility/ID Leg. Dist	Contact - Name	- Phone	Notif. Date	Facility Type	TS	GEN	TRNS	BBL	REC
INTERSYSTEMS, INC. NED035124148 Fac11.: 13330 I STREET Mail: 13330 I STREET	RON MAJORS OMAHA OMAHA	(402)330-1500 NE NE	05/01/89 68137 68137	DOUGLAS CO.	-	SQG	-	-	-
IRVINGTON SERVICE CENTER NED986368173 Fac11.: 10407 STATE STREET Mail: 444 S 16TH STREET MALL	DONOVAN HUTCHENS OMAHA OMAHA	(402)636-2313 NE NE	11/06/91 68122 68102	DOUGLAS CO.	-	-	TRNS	BBL	-
JAMES WARREN AMOCO NED986375244 Fac11.: 4414 N 30TH STREET Mail: 4414 N 30TH STREET	JOYCE WARREN OMAHA OMAHA	(402)455-8686 NE NE	04/22/91 68111 68111	DOUGLAS CO.	-	SQG	-	-	-
JANKE DIESEL NED078019478 Fac11.: 14001 L STREET Mail: 14001 L STREET	ERIC JANKE OMAHA OMAHA	(402)895-9032 NE NE	10/25/88 68137 68137	DOUGLAS CO.	-	SQG	-	-	-
JIFFY LUBE NED986373819 Fac11.: 8008 WEST DODGE ROAD Mail: 7811 L STREET SUITE 220	PHIL MEYERS OMAHA OMAHA	(402)592-0909 NE NE	09/20/90 68114 68127	DOUGLAS CO.	-	SQG	-	-	-
JIFFY LUBE NED986373827 Fac11.: 5819 MAPLE STREET Mail: 7811 L STREET SUITE 220	PHIL MEYERS OMAHA OMAHA	(402)592-0909 NE NE	09/20/90 68104 68127	DOUGLAS CO.	-	SQG	-	-	-
JIFFY LUBE NED986373835 Fac11.: 4635 SOUTH 85TH STREET Mail: 7811 L STREET SUITE 220	PHIL MEYERS OMAHA OMAHA	(402)592-0909 NE NE	09/20/90 68127 68127	DOUGLAS CO.	-	SQG	-	-	-
JIFFY LUBE NED986373843 Fac11.: 13720 P STREET Mail: 7811 L STREET SUITE 220	PHIL MEYERS OMAHA OMAHA	(402)592-0909 NE NE	09/20/90 68137 68127	DOUGLAS CO.	-	SQG	-	-	-
JIMS DODGE COUNTRY NED035143213 Fac11.: 5402 L STREET Mail: 5402 L STREET	DON HALL OMAHA OMAHA	(402)734-5402 NE NE	05/25/90 68117 68117	DOUGLAS CO.	-	SQG	-	-	-
JOHN KRAFT CHEVROLET NED135133205 Fac11.: 8505 MILITARY AVE Mail: 8505 MILITARY AVE	STEVE MOLLAR OMAHA OMAHA	(402)572-8080 NE NE	10/03/86 68134 68134	DOUGLAS CO.	-	SQG	-	-	-
JOHN MARKEL INC NED035131176 Fac11.: 716 N 102ND ST Mail: 716 N 102ND ST	GARY MOHR OMAHA OMAHA	(402)393-9701 NE NE	09/22/86 68114 68114	DOUGLAS CO.	-	SQG	-	-	-
JULIAN TALLEN FURRIER INC NED986375749 Fac11.: 2411 FARNAM STREET Mail: 2411 FARNAM STREET	GUY MCREYNOLDS OMAHA OMAHA	(402)346-4863 NE NE	06/27/91 68131 68131	DOUGLAS CO.	-	SQG	-	-	-
K-MART #9663 NEL986386332 Fac11.: 10930 EMMET STREET Mail: 10930 EMMET STREET	STEVE SCHMIDT OMAHA OMAHA	(402)493-9261 NE NE	08/17/92 68164 68164	DOUGLAS CO.	-	SQG	-	-	-

Facility/ID Leg. Dist	Contact - Name	- Phone	Notif. Date	Facil. Type					
				ITSD	GEN	TRNS	BBL	REC1	
K-MART 7493 NED986385573	Fac11.: 5808 S 144 ST Mail: 5808 S 144 ST	STEVE OVERLY OMAHA OMAHA	(402)895-6708 NE NE	06/30/92 68137 68137	-	SGQ	-	-	-
KEE SUPPORT CO NED981508633	Fac11.: 1812 FORT COURT Mail: 1812 FORT COURT	DARRELL KEE OMAHA OMAHA	(402)422-6114 NE NE	08/08/86 68119 68119	-	SGQ	-	-	-
KENWORTH OF OMAHA NEDO41565540	Fac11.: 7502 L STREET Mail: 7502 L STREET	HOWARD PURDY OMAHA OMAHA	(402)331-6000 NE NE	02/10/86 68127 68127	-	SGQ	-	-	-
KEVEES AMOCO #1 NED986375384	Fac11.: 7140 DODGE STREET Mail: 7140 DODGE STREET	KEVEE KIRSHENBAUM OMAHA OMAHA	(402)397-7700 NE NE	05/10/91 68132 68132	-	SGQ	-	-	-
KEVEES AMOCO #2 NED986375368	Fac11.: 2605 SOUTH 160TH STREET Mail: 2605 SOUTH 160TH STREET	KEVEE KIRSHENBAUM OMAHA OMAHA	(402)397-7700 NE NE	05/10/91 68130 68130	-	SGQ	-	-	-
KEVEES AMOCO #2 NED986375376	Fac11.: 3052 SOUTH 84TH STREET Mail: 3052 SOUTH 84TH STREET	KEVEE KIRSHENBAUM OMAHA OMAHA	(402)397-7700 NE NE	05/10/91 68124 68124	-	SGQ	-	-	-
KEVEES AMOCO #4 NED986375350	Fac11.: 11944 BLONDO STREET Mail: 11944 BLONDO STREET	KEVEE KIRSHENBAUM OMAHA OMAHA	(402)397-7700 NE NE	05/10/91 68164 68164	-	SGQ	-	-	-
KEY CLEANERS NED986370062	Fac11.: 6305 MILITARY Mail: 6305 MILITARY	ROSEMARY BAUMWART OMAHA OMAHA	(402)553-1543 NE NE	05/29/90 68104 68104	-	SGQ	-	-	-
KIEWIT CONSTRUCTION CO NED135203859	Fac11.: 3921 MASON ST Mail: 3921 MASON ST	BOB EDICK OMAHA OMAHA	(402)977-4538 NE NE	10/28/87 68105 68105	-	SGQ	-	-	-
KIEWIT WESTERN COMPANY NED986369049	Fac11.: 4004 S. 60TH STREET Mail: 4004 S. 60TH STREET	KERRY SUDRLA OMAHA OMAHA	(402)734-1505 NE NE	09/18/89 68117 68117	-	SGQ	-	-	-
KLOPP PRINTING CO NED007260243	Fac11.: 6161 GROVER Mail: 6161 GROVER	JOHN BIGA OMAHA OMAHA	(402)558-2100 NE NE	03/21/91 68106 68106	-	SGQ	-	-	-
KMART AUTO SERVICE NED986383156	Fac11.: 7100 AMES AVENUE Mail: 7100 AMES AVENUE	KENNETH ALDRIDGE OMAHA OMAHA	(402)571-2932 NE NE	02/28/92 68104 68104	-	SGQ	-	-	-
KMART CORPORATION 3006 NED986384717	Fac11.: 12303 WEST CENTER ROAD Mail: 12303 WEST CENTER ROAD	SAM FIGNOTTI OMAHA OMAHA	(402)333-2145 NE NE	07/25/92 68144 68144	-	SGQ	-	-	-



Facility/ID  
Leg. Dist

Contact - Name

- Phone

Notif. Date |-----| Faci]. Type -----|  
|TSD GEN TRNS BBL REC|

KMART 4130 NED986384709	Fac11.: 5000 L STREET Mail: 5000 L STREET	JACK LUBASH OMAHA OMAHA	(402)733-4554 NE NE	04/20/92 68117 DOUGLAS CO. 68117	-	SQG	-	-	-
KOLEYS MEDICAL SUPPLY INC. NED986373736	Fac11.: 505 CROWN POINT AVENUE Mail: 505 CROWN POINT AVENUE	MIKE LACROIX OMAHA OMAHA	(402)475-4444 NE NE	10/17/90 68110 DOUGLAS CO. 68110	-	-	TRNS	-	-
KUKER INDUSTRIES, INC. NED007497555	Fac11.: 13709 INDUSTRIES RD. Mail: P. O. BOX 37589	JOHN PATTERSON OMAHA OMAHA	(402)895-3050 NE NE	03/09/89 68137 DOUGLAS CO. 68137	-	SQG	-	-	-
LACKAWANNA LEATHER CO NED080209950	Fac11.: 2420 Z STREET Mail: 2420 Z STREET	STEVEN NORTH OMAHA OMAHA	(402)734-2360 NE NE	06/27/80 68107 DOUGLAS CO. 68107	-	LOG	-	BBL	-
LAIDLAW TRANSIT INC NED007842107	Fac11.: 13811 L ST Mail: 13811 "L" STREET	MICHAEL JOHNSON OMAHA OMAHA	(712)322-0671 NE NE	08/18/80 68137 DOUGLAS CO. 68137	-	SQG	-	-	-
LEO A DALY CORPORATION NED986381507	Fac11.: 8600 INDIAN HILLS Mail: 8600 INDIAN HILLS	CHARLES TVRDIK DRIVE OMAHA OMAHA	(402)391-8111 NE NE	08/26/91 68114 DOUGLAS CO. 68114	-	SQG	-	-	-
LIQUID AND BULK TANK DIVISION NED042578609	Fac11.: 11502 I ST Mail: P O BOX 14209	ROGER REESE OMAHA OMAHA	(402)333-4900 NE NE	08/18/80 68137 DOUGLAS CO. 68124	-	LOG	-	-	-
LOZIER CORP NED000610691	Fac11.: 6316 PERSHING DR Mail: P. O. BOX 188	MIKE BREFDELDT OMAHA OMAHA	(402)541-5236 NE NE	07/31/80 68112 DOUGLAS CO. 68110	-	LQG	-	-	-
LOZIER CORPORATION WEST PLANT NED000610709	Fac11.: 4224 N 22ND ST Mail: 4401 NORTH 21ST STREET	STEVE BACHELLOR OMAHA OMAHA	(402)457-8236 NE NE	07/31/80 68110 DOUGLAS CO. 68110	-	LOG	-	-	-
LYMAN RICHEY SAND AND GRAVEL NED986368231	Fac11.: 4229 NICHOLAS Mail: 4315 CUMMINGS	BILL POST OMAHA OMAHA	(402)558-2727 NE NE	01/13/80 68131 DOUGLAS CO. 68131	-	SQG	-	-	-
M & D INDUSTRIES NED986369148	Fac11.: 505 NORTH 15TH STREET Mail: 505 NORTH 15TH STREET	DELBERT SMOCK OMAHA OMAHA	(402)341-8252 NE NE	02/04/91 68102 DOUGLAS CO. 68102	-	LOG	-	-	-
M.S.M. PRINTING NED986386736	Fac11.: 730 SOUTH 75TH ST Mail: 730 SOUTH 75TH ST	FRANK BACON OMAHA OMAHA	(402)392-2400 NE NE	09/08/92 68114 DOUGLAS CO. 68114	-	SQG	-	-	-
MAACO AUTO PAINTING NED981499775	Fac11.: 4505 S 84TH ST Mail: 4505 S 84TH ST	MARTY BUTCHER OMAHA OMAHA	(402)322-5529 NE NE	02/25/91 68124 DOUGLAS CO. 68124	-	SQG	-	-	-

Facility/ID Leg. Dist	Contact - Name	- Phone	Notif. Date	Facility Type	TSR	GEN	TRNS	BBL	REC
MAACO AUTO PAINTING NED986369619	BOB MACKINTOSH 13704 P STREET OMAHA 13704 P STREET OMAHA	(402)896-1494 NE NE	10/22/90 68137 DOUGLAS CO. 68137	- SQG	-	-	-	-	-
MAACO AUTO PAINTING #192 NED981499122	JOHN RODIS 2309 N 73RD ST OMAHA 2309 N 73RD ST OMAHA	(402)392-1527 NE NE	02/13/91 68134 DOUGLAS CO. 68134	- SQG	-	-	-	-	-
MAINLAND LAND & EQUIPMENT CO NED980971741	JERRY STAHLNECKER 2722 SOUTH 87TH AVE. OMAHA P.O. BOX 24806 OMAHA	(402)390-1114 NE NE	05/24/85 68124 DOUGLAS CO. 68124	- -	-	TRNS	-	-	-
MAINLINER MTR EXPRESS NED055078364	CHARLES NAYLOR 4202 DAHLMAN AVENUE OMAHA 4202 DAHLMAN OMAHA	(402)734-3500 NE NE	02/26/91 68107 DOUGLAS CO. 68107	- LQG	-	-	-	-	-
MAJERS CORP NED076982594	ANN WILLIAMS 10202 'F' ST OMAHA 10202 'F' ST OMAHA	(402)339-3100 NE NE	07/08/87 68127 DOUGLAS CO. 68127	- SQG	-	-	-	-	-
MALNOVE INC NED007258213	JOSEPH LAMPICH 13434 F ST OMAHA 13434 F ST OMAHA	(402)330-1100 NE NE	02/06/91 68137 DOUGLAS CO. 68137	- LQG	-	-	-	-	-
MARIANNA IMPORTS NED986374668	BILL COSENTINO 11222 I STREET OMAHA 11222 I STREET OMAHA	(402)593-0211 NE NE	02/08/91 68137 DOUGLAS CO. 68137	- SQG	-	-	-	-	-
MARIANNA INCORPORATED NED045570736	JAMES DIMAURO 14112 INDUSTRIAL ROAD OMAHA 14112 INDUSTRIAL ROAD OMAHA	(402)330-4900 NE NE	06/18/86 68144 DOUGLAS CO. 68144	- CEG	-	-	-	-	-
MARTEL LIFT SYSTEMS NED986385821	ANITA REWOLINSKI 13336 B STREET OMAHA PO BOX 37799 OMAHA	(402)330-1690 NE NE	07/31/92 68144 DOUGLAS CO. 68137	- SQG	-	-	-	-	-
MARTIN AVENUE AMOCO NED986375251	GREGORY JONES 7166 N 30TH STREET OMAHA 7166 N 30TH STREET OMAHA	(402)451-6656 NE NE	04/06/91 68112 DOUGLAS CO. 68112	- SQG	-	-	-	-	-
MARYLAND CLUB FOODS, INC. NED007287618	JAMES A. SCHNERINGER 711 S. 10TH STREET OMAHA 7105 KATY ROAD BOX 4613 HOUSTON	(713)868-8211 NE TX	05/17/89 69101 DOUGLAS CO. 77210	- -N-	-	-	-	-	-
MAX I WALKER NED980973598	KEITH RALL 724 NORTH 16TH ST OMAHA 4919 UNDERWOOD AVENUE OMAHA	(402)558-3677 NE NE	03/06/91 68102 DOUGLAS CO. 68132	- SQG	-	-	-	-	-
MAX I WALKER NED986370351	RALL KEITH 4651 LEAVENWORTH OMAHA 4919 UNDERWOOD AVE OMAHA	(402)558-3677 NE NE	07/24/90 68106 DOUGLAS CO. 68132	- SQG	-	-	-	-	-

RCRA Notifiers List

State: NE

Region VII Merge Database

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- Phone

Notif. Date |-----| Faci. Type |-----|  
|TSD GEN TRNS BBL REC|

MAX I WALKER NED986370369	Fac11.: 2055 ST MARYS Mail: 4919 UNDERWOOD AVENUE	KEITH RALL OMAHA OMAHA	(402)558-3677 NE NE	07/24/90 68102 DOUGLAS CO. 68132	-	SQG	-	-	-
MAX I WALKER NED986370393	Fac11.: 13205 Q STREET Mail: 4919 UNDERWOOD AVENUE	KEITH RALL OMAHA OMAHA	(402)558-3677 NE NE	07/24/90 68137 DOUGLAS CO. 68132	-	SQG	-	-	-
MAX I WALKER NED986370401	Fac11.: 2928 S 132ND STREET Mail: 4919 UNDERWOOD AVENUE	KEITH RALL OMAHA OMAHA	(402)558-3677 NE NE	07/24/90 68144 DOUGLAS CO. 68132	-	SQG	-	-	-
MAX I WALKER NED986370419	Fac11.: 7816 DODGE Mail: 4919 UNDERWOOD AVENUE	KEITH RALL OMAHA OMAHA	(402)558-3677 NE NE	07/24/90 68114 DOUGLAS CO. 68132	-	SQG	-	-	-
MAX I WALKER NED986370427	Fac11.: 9211 MAPLE Mail: 4919 UNDERWOOD AVENUE	KEITH RALL OMAHA OMAHA	(402)558-3677 NE NE	07/24/90 68134 DOUGLAS CO. 68132	-	SQG	-	-	-
MAX I WALKER NED986370435	Fac11.: 5413 N 90TH Mail: 4919 UNDERWOOD AVENUE	KEITH RALL OMAHA OMAHA	(402)558-3677 NE NE	07/24/90 68134 DOUGLAS CO. 68132	-	SQG	-	-	-
MAX I WALKER NED986370443	Fac11.: 2302 L STREET Mail: 4919 UNDERWOOD AVENUE	KEITH RALL OMAHA OMAHA	(402)558-3677 NE NE	07/24/90 68107 DOUGLAS CO. 68132	-	SQG	-	-	-
MAX I WALKER NED986370450	Fac11.: 5908 MAPLE Mail: 4919 UNDERWOOD AVENUE	KEITH RALL OMAHA OMAHA	(402)558-3677 NE NE	07/24/90 68104 DOUGLAS CO. 68132	-	SQG	-	-	-
MAX I WALKER NED986370468	Fac11.: 7102 NORTH 30TH Mail: 4919 UNDERWOOD AVENUE	KEITH RALL OMAHA OMAHA	(402)558-3677 NE NE	07/24/90 68112 DOUGLAS CO. 68132	-	SQG	-	-	-
MAX I WALKER NED986370476	Fac11.: 4923 UNDERWOOD AVENUE Mail: 4919 UNDERWOOD AVENUE	KEITH RALL OMAHA OMAHA	(402)558-3677 NE NE	07/24/90 68132 DOUGLAS CO. 68132	-	SQG	-	-	-
MAX I WALKER NED986374544	Fac11.: 7808 DODGE STREET Mail: 4919 UNDERWOOD AVENUE	KEITH RALL OMAHA OMAHA	(402)558-3677 NE NE	03/06/91 68114 DOUGLAS CO. 68132	-	SQG	-	-	-
MAXS BODY SHOP NED035131689	INC Fac11.: 13909 L ST Mail: PO BOX 37097	MAX FISCHER OMAHA OMAHA	(402)895-9100 NE NE	02/05/91 68137 DOUGLAS CO. 68137	-	SQG	-	-	-
MCCALL PRESS NED007259914	Fac11.: 1810 S 51ST ST Mail: 1810 S 51ST ST	PATRICK MCCALL OMAHA OMAHA	(402)553-5333 NE NE	08/06/80 68106 DOUGLAS CO. 68106	-	SQG	-	-	-

Facility/ID Leg. Dist	Contact - Name	- Phone	Notif. Date	Facil. Type				
				TSD	GEN	TRNS	BBL	REC1
METRO AREA TRANSIT NED137920450	CURT SIMON Facil.: 2222 CUMING ST Mail: 2222 CUMING ST OMAHA OMAHA	(402)341-7560 NE NE	02/14/91 68102 68102	-	CEG	-	-	-
METRO UTILITIES CONSTRUCTION CENTER NED152604021	LYNN WEGEHAUPT Facil.: 3100 S. 61ST AVENUE Mail: 3100 S. 61ST AVENUE OMAHA OMAHA	(402)554-7700 NE NE	03/15/88 68106 68106	-	CEG	-	-	-
METROPOLITAN LINCOLN MERCURY, INC. NED986369312	RANDY RIDGEWAY Facil.: 808 N. 102ND STREET Mail: 808 N. 102ND STREET OMAHA OMAHA	(402)397-8200 NE NE	02/23/90 68114 68114	-	SQG	-	-	-
METROPOLITAN TECHNICAL COMMUNITY COLLEGE NED120532163	W.R. SIMANDL Facil.: 27TH & GOMEZ AVE Mail: 27TH & GOMEZ AVE OMAHA OMAHA	(402)457-5100 NE NE	08/08/86 68107 68107	-	SQG	-	-	-
METROPOLITAN UTILITIES DISTRICT NED986381804	JAMES GATHMANN Facil.: 3100 SOUTH 61 AVE Mail: 1723 HARNEY STREET OMAHA OMAHA	(402)449-8037 NE NE	12/02/91 68106 68102	-	SQG	-	-	-
MIDLANDS BUSINESS JOURNAL PRINTING NED986382273	MARTHA PEARSON Facil.: 11924 POPPLETON PLAZA Mail: 11924 POPPLETON PLAZA OMAHA OMAHA	(402)333-4023 NE NE	02/04/92 68144 68144	-	SQG	-	-	-
MIDLANDS INTERNATIONAL TRUCKS INC NED122124639	ED KARBOWSKI Facil.: 110TH AND J STS Mail: PO BOX 37545 OMAHA OMAHA	(402)331-8800 NE NE	09/02/86 68137 68137	-	SQG	-	-	-
MIDWEST CLINICAL LABORATORIES NED091993899	PAT DERRINGTON Facil.: 804 SOUTH 75TH STREET Mail: 804 SOUTH 75TH STREET OMAHA OMAHA	(402)399-8365 NE NE	05/31/90 68114 68114	-	SQG	-	-	-
MIDWEST CLINICAL LABORATORIES NED986374502	PAT DERRINGTON Facil.: 8601 W DODGE ROAD Mail: 8601 W DODGE ROAD OMAHA OMAHA	(402)399-8365 NE NE	01/09/91 68114 68114	TSD	SQG	-	-	-
MIDWEST MFG & WELDING NED000002857	JOHN KIPER JR Facil.: 912 SEWARD ST Mail: 912 SEWARD ST OMAHA OMAHA	(402)345-5555 NE NE	06/04/84 68110 68110	-	SQG	-	-	-
MIDWEST RADIATOR, INC NED986386910	BRAD WERTH Facil.: 8544 I STREET Mail: 8544 "I" STREET OMAHA OMAHA	(402)339-3009 NE NE	10/20/92 68127 68127	-	SQG	-	-	-
MIKE GORGES PONTIAC GMC INC NED035132083	JERRY RECORD Facil.: I-80 AT 24TH ST Mail: I-80 AT 24TH ST OMAHA OMAHA	(402)733-4455 NE NE	09/25/86 68108 68108	-	SQG	-	-	-
MILDER OIL COMPANY NED986374528	KATHLEEN TROTTER Facil.: 1940 SOUTH 26TH STREET Mail: PO BOX 3707 OMAHA OMAHA	(402)342-2111 NE NE	01/28/91 68105 68103	-	-	TRNS	-	-

Facility/ID  
Leg. Dist

Contact - Name

- Phone

Notif. Date |-----| Faci. Type -----|  
|TSD GEN TRNS BBL REC|

Facility/ID Leg. Dist	Contact - Name	- Phone	Notif. Date	Faci. Type	TSD	GEN	TRNS	BBL	REC
MILLARD RADIATOR NED986386324	CLIFF FLEISCHMAN 13419 C STREET OMAHA 13419 C STREET OMAHA	(402)330-0454 NE NE	08/03/92 68144 68144	DOUGLAS CO.	-	SGQ	-	-	-
MILLARD U HAUL NED986382265	ROBERT DORMAN 18200 4868 SOUTH 135TH STREET OMAHA 4868 SOUTH 135TH STREET OMAHA	(402)896-2411 NE NE	01/31/92 68137 68137	DOUGLAS CO.	-	SGQ	-	-	-
MILLS CLEANERS AND DRAPERIES NED056048044	SAMUEL LOVEJOY 6009 MAPLE STREET OMAHA 6009 MAPLE STREET OMAHA	(402)571-0841 NE NE	05/20/85 68104 68104	DOUGLAS CO.	-	SGQ	-	-	-
MISSOURI RIVER WASTEWATER PLANT NED000640169	MARTY GRATE 5600 S 10TH ST OMAHA 5600 SO 10TH OMAHA	(402)734-6060 NE NE	09/24/92 68107 68107	DOUGLAS CO.	-	SGQ	-	-	-
MO RE CO PLATING NED044100204	LEO BENSCOTER 1608 WEBSTER OMAHA 1608 WEBSTER OMAHA	(712)366-9062 NE NE	03/01/91 68102 68102	DOUGLAS CO.	-	CEG	-	-	-
MO RE CO PLATING NED135203529	LEO BENSCOTER 1619 WEBSTER OMAHA 1619 WEBSTER OMAHA	(712)366-9062 NE NE	03/01/91 68102 68102	DOUGLAS CO.	-	CEG	-	-	-
MODERN BUSINESS SYSTEMS NED040914913	GARY HENLEY 8410 K STREET OMAHA 8410 K STREET OMAHA	(314)634-1800 NE NE	02/15/91 68127 68127	DOUGLAS CO.	-	SGQ	-	-	-
MODERN TRANSPORTATION SUPPLIES NED986375103	CHRIS SCHRUNK 10552 BONDESSON CIRCLE OMAHA 10552 BONDESSON CIRCLE OMAHA	(402)572-9008 NE NE	04/23/91 68122 68122	DOUGLAS CO.	-	SGQ	-	-	-
MODERN TRANSPORTATION SUPPLIES NED986384741	DAVIS EBERHART 5404 DAYTON STREET OMAHA 5404 DAYTON STREET OMAHA	(402)731-0662 NE NE	02/04/93 68117 68117	DOUGLAS CO.	-	-	-	BBL	-
MONARCH OIL INC. STEAM GENERATOR BOILER NED035134154	MARV WALENZ E22 AND AVENUE H OMAHA P. O. BOX 3189 OMAHA	(402)341-5254 NE NE	04/27/88 68103 68103	DOUGLAS CO.	-	-	TRNS	BBL	-
MONTGOMERY WARD AUTO EXPRESS NED980741383	GARRETT TREDWAY 707 N 102 W END OF W RDS MALL OMAHA 102ND AND DODGE OMAHA	(402)390-7255 NE NE	05/26/92 68114 68114	DOUGLAS CO.	-	SGQ	-	-	-
MUTUAL OF OMAHA NED986386753	MARY FINN MUTUAL OF OMAHA PLAZA OMAHA MUTUAL OF OMAHA PLAZA OMAHA	(515)276-3642 NE NE	06/14/92 68175 68175	DOUGLAS CO.	-	SGQ	-	-	-
NASHUA LABEL DIVISION NED045275260	THOMAS SENNE 3838 S 108TH ST OMAHA 3838 S 108TH ST OMAHA	(402)392-6027 NE NE	03/19/91 681444998 68144	DOUGLAS CO.	-	LQG	-	-	-

Facility/ID Leg. Dist	Contact - Name	- Phone	Notif.Date	Facil. Type	TSDB	GEN	TRNS	BBL	REC1
NAVAL & MARINE CORPS RESERVE NE1172890047 Fac11.: 5808 N 30TH STREET Mail: 5808 N 30TH STREET	ROBERT DCI RUIZ OMAHA OMAHA	(402)451-2098 NE 681111603 NE 681111603	10/31/91 DOUGLAS CO.	- SQG	-	-	-	-	-
NAVAL AND MARINE CORPS RESERVE CENTER NE8170090031 Fac11.: 1312 ABBOTT DR Mail: 30TH & LAUREL ST	ROBERT RIEGLE OMAHA OMAHA	(402)221-4227 NE 68102 NE 68111	09/07/90 DOUGLAS CO.	-N-	-	-	-	-	-
NEBRASKA FURNITURE MART WAREHOUSE NED007875040 Fac11.: 400 SOUTH 77TH STREET Mail: P.O. BOX 3456	ANDREW HARMDEN OMAHA OMAHA	(402)392-7183 NE 68114 NE 68103	02/25/91 DOUGLAS CO.	- CEG	-	-	-	-	-
NEBRASKA MACHINERY CO NED006969919 Fac11.: 401 N 12TH Mail: 401 N 12TH	TIM REES OMAHA OMAHA	(402)346-6500 NE 68102 NE 68102	03/08/91 DOUGLAS CO.	- SQG	-	-	-	-	-
NEBRASKA MACHINERY COMPANY NED986370302 Fac11.: 4918 F STREET Mail: 4918 F STREET	DAELYNN SCHMITZ OMAHA OMAHA	(402)734-5438 NE 68117 NE 68117	03/06/91 DOUGLAS CO.	- SQG	-	-	-	-	-
NEBRASKA TESTING LABORATORY NED020189023 Fac11.: 4453 S 67TH Mail: 4453 S 67TH	OMAHA OMAHA	( ) - NE 68117 NE 68117	08/15/80 DOUGLAS CO.	- SQG	-	-	-	-	-
NEON PRODUCTS CO INC NED007258676 Fac11.: 1331 PARK AVE Mail: 1331 PARK AVE	HAROLD MARVIN OMAHA OMAHA	(402)346-5447 NE 68105 NE 68105	01/28/92 DOUGLAS CO.	- CEG	-	-	-	-	-
NEXUS ASBESTOS DISPOSAL INC. NED986370922 Fac11.: 3031 NORTH 93RD STREET Mail: 3031 NORTH 93RD STREET	MIKE TAYLOR OMAHA OMAHA	(402)571-4525 NE 68134 NE 68134	08/27/90 DOUGLAS CO.	- TRNS	-	-	-	-	-
NORTH OMAHA POWER STATION NED000822908 Fac11.: 7475 PERSHING DRIVE Mail: 444 SOUTH 16TH STREET MALL	DONOVAN HUTCHENS OMAHA OMAHA	(402)636-2313 NE 68112 NE 681022247	03/28/91 DOUGLAS CO.	- SQG	TRNS	BBL	-	-	-
NOX-CRETE OF NEBRASKA INC NED007284128 Fac11.: 1444 SOUTH 20TH STREET Mail: P.O. BOX 3764	MICHAEL LINN OMAHA OMAHA	(402)341-2080 NE 68108 NE 68103	03/25/91 DOUGLAS CO.	- SQG	-	-	-	-	-
NU TREND CLEANERS NED986369254 Fac11.: 7647 CASS STREET Mail: 7647 CASS STREET	MICHAEL MCKERNAN OMAHA OMAHA	(402)391-3222 NE 68114 NE 68114	03/04/91 DOUGLAS CO.	- SQG	-	-	-	-	-
NU TREND DRY CLEANERS NED986386258 Fac11.: 3144 NORTH 84TH STREET Mail: 7617 CASS STREET	MICHAEL MCKERNAN OMAHA OMAHA	(402)573-8909 NE 68134 NE 68114	08/19/92 DOUGLAS CO.	- SQG	-	-	-	-	-
ODANIEL OLDSMOBILE, INC NED035136472 Fac11.: 7801 DODGE STREET Mail: 7801 DODGE STREET	CLAIR HAUSMAN OMAHA OMAHA	(402)393-7801 NE 68114 NE 68114	02/28/91 DOUGLAS CO.	- SQG	-	-N-	-	-	-

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OLD MILL TOYOTA NED986384592	Fac11.: 601 N. 108TH STREET Mail: 601 N. 108TH STREET	WILLIAM WOODALL OMAHA OMAHA	(402)496-4444 NE NE	05/05/92 68154 DOUGLAS CO. 68154	-	CEG	-	-	-
OLSEN DODGE INC. NEDO42579656	Fac11.: 1010 NO. 102 STREET Mail: 1010 NO. 102 STREET	RONALD OLSEN OMAHA OMAHA	(402)397-8400 NE NE	04/25/89 68114 DOUGLAS CO. 68114	-	SQG	-	-	-
OMAHA AUTO AUCTION INC NED136316932	Fac11.: 7835 F ST Mail: 7835 F ST	GARY HARMS OMAHA OMAHA	(402)331-9000 NE NE	06/25/87 68127 DOUGLAS CO. 68127	-	SQG	-	-	-
OMAHA CENTRAL GARAGE NED981704117	Fac11.: 2608 LAKE ST Mail: 2608 LAKE ST	ROY MCCORD OMAHA OMAHA	(402)444-4936 NE NE	10/08/86 68111 DOUGLAS CO. 68111	-	SQG	-	-	-
OMAHA FIRE MAINTENANCE NED981507379	Fac11.: 2204 AMES AVE Mail: 2204 AMES AVE	STEVE FREYER OMAHA OMAHA	(402)444-5737 NE NE	07/25/86 68110 DOUGLAS CO. 68110	-	SQG	-	-	-
OMAHA LACE LAUNDRY - FRENCH CLEANERS NEDO35137116	Fac11.: 5007 LEAVENWORTH ST Mail: 5007 LEAVENWORTH ST	JANET JOHNSTON OMAHA OMAHA	(402)556-1522 NE NE	06/08/90 68106 DOUGLAS CO. 68106	-	SQG	-	-	-
OMAHA NEON SIGN CO NED054302492	Fac11.: 1120 N 18TH ST Mail: 1120 N 18TH ST	RICHARD WESTON OMAHA OMAHA	(402)341-6077 NE NE	03/15/91 68102 DOUGLAS CO. 68102	-	SQG	-	-	-
OMAHA PRINTING COMPANY, INC. NED007267289	Fac11.: 4700 F STREET Mail: 4700 F STREET	JAMES MARCUM OMAHA OMAHA	(402)734-4400 NE NE	02/15/91 681571482 DOUGLAS CO. 68157	-	SQG	TRNS	-	-
OMAHA PUBLIC POWER DISTRICT NED000822866	Fac11.: 4TH & MARCY ST Mail: 1623 HARNEY STREET	RICHARD ANDREWS OMAHA OMAHA	(402)536-4501 NE NE	08/18/80 68108 DOUGLAS CO. 68102	-	SQG	-	-	-
OMAHA PUBLIC SCHOOLS - DEPT OF TRANSPORT NED981707623	Fac11.: 3833 N 72ND ST Mail: 3833 N 72ND ST	AL WILLIAMS OMAHA OMAHA	(402)554-6009 NE NE	12/01/86 68134 DOUGLAS CO. 68134	-	SQG	-	-	-
OMAHA STEEL CASTINGS CO INC NED068646678	Fac11.: 4601 FARNAM ST Mail: BOX 6222 ELMWOOD STATION	PHILIP GAFFNEY OMAHA OMAHA	(402)558-6000 NE NE	03/28/91 68132 DOUGLAS CO. 68106	-	LOG	TRNS	-	-
OMAHA WORLD HERALD NED007269616	Fac11.: 1400 DODGE STREET Mail: 14TH & DODGE STS	STEPHEN MCWILLIAMS OMAHA OMAHA	(402)444-1000 NE NE	02/18/91 68102 DOUGLAS CO. 68102	-	SQG	-	-	-
ONE HOUR MARTINIZING NED135203560	Fac11.: 13919 S PLAZA Mail: 3305 SOUTH 66 AVE	BARNEY DEDEN OMAHA OMAHA	(402)391-7373 NE NE	02/15/91 68137 DOUGLAS CO. 68106	-	SQG	-	-	-

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ONE HOUR MARTINIZING NED164447393 Fac11.: 5624 AMES AVENUE Mail: 3305 S. 66TH AVENUE	BARNEY DEDEN OMAHA OMAHA	(402)391-7373 NE NE	02/15/91 68104 DOUGLAS CO. 68106	-	SQG	-	-	-
ONE HOUR MARTINIZING NED169873619 Fac11.: 5213 LEAVENWORTH STREET Mail: 3305 S. 66TH AVENUE	BARNEY DEDEN OMAHA OMAHA	(402)391-7373 NE NE	02/15/91 68106 DOUGLAS CO. 68106	-	SQG	-	-	-
ONE HOUR MARTINIZING NED981726516 Fac11.: 10910 Q STREET Mail: 3305 S. 66TH AVENUE	BARNEY DEDEN OMAHA OMAHA	(402)391-7373 NE NE	02/15/91 68137 DOUGLAS CO. 68106	-	SQG	-	-	-
ONE HOUR MARTINIZING NED981726524 Fac11.: 214 NORTH 114TH STREET Mail: 3305 SO. 66TH AVENUE	BARNEY DEDEN OMAHA OMAHA	(402)391-7373 NE NE	02/15/91 68154 DOUGLAS CO. 68106	-	SQG	-	-	-
ONE HOUR MARTINIZING NED986369890 Fac11.: 14430 W. CENTER ROAD Mail: 3305 S. 66TH AVENUE	BARNEY DEDEN OMAHA OMAHA	(402)391-7373 NE NE	02/15/91 68144 DOUGLAS CO. 68106	-	SQG	-	-	-
ONE HOUR MARTINIZING NED986369908 Fac11.: 8728 PACIFIC STREET Mail: 3305 S. 66TH AVENUE	BARNEY DEDEN OMAHA OMAHA	(402)391-7373 NE NE	02/15/91 68114 DOUGLAS CO. 68106	-	SQG	-	-	-
ONE HOUR MARTINIZING NED986369916 Fac11.: 10809 PRAIRIEBROOK ROAD Mail: 3305 S. 66TH AVENUE	BARNEY DEDEN OMAHA OMAHA	(402)391-7373 NE NE	02/15/91 68144 DOUGLAS CO. 68106	-	SQG	-	-	-
ORENT GRAPHIC ARTS NED097345979 Fac11.: 4805 G ST Mail: 4805 G STREET	TIM DANAHY OMAHA OMAHA	(402)733-6400 NE NE	07/29/92 68117 DOUGLAS CO. 68117	-	SQG	-	-	-
OTIS ELEVATOR COMPANY NED986374577 Fac11.: 4725 F STREET Mail: 4725 F STREET	LARRY BECKER OMAHA OMAHA	(402)733-2910 NE NE	02/09/91 68117 DOUGLAS CO. 68117	-	SQG	-	-	-
OTIS ELEVATOR COMPANY NED986375517 Fac11.: 5366 F STREET Mail: 5366 F STREET	LARRY BECKER OMAHA OMAHA	(402)733-2910 NE NE	04/29/91 68117 DOUGLAS CO. 68117	-	SQG	-	-	-
PACKAGING CORP OF AMERICA NED007269426 Fac11.: 1002 MISSOURI AVE Mail: 1002 MISSOURI AVE	STANLEY FLAK OMAHA OMAHA	(402)733-3333 NE NE	09/11/86 68107 DOUGLAS CO. 68107	-	SQG	-	-	-
PALCO-DIAGRAPH ADVANCED MARKING SYSTEM NED068645480 Fac11.: 2001 S 55TH ST Mail: PO BOX 6145	DAN TOBIN OMAHA OMAHA	(402)556-7000 NE NE	10/19/87 68106 DOUGLAS CO. 68106	-	SQG	-	-	-
PAMIDA INC NED050357789 Fac11.: 8800 F STREET Mail: 8800 F STREET	TOM FISCUS OMAHA OMAHA	(402)339-2400 NE NE	01/07/91 68127 DOUGLAS CO. 68127	-	SQG	-	-	-



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PAMIDA INC NED986374486 Fac11.: 10330 I STREET Mail: 8800 F STREET	TOM FISCUS OMAHA OMAHA	(402)339-2400 NE NE	01/07/91 68127 68127	-	SQG	-	-	-
PARK DRIVE GARAGE INC NED986386316 Fac11.: 5734 SOUTH 86TH CIRCLE Mail: 5734 SOUTH 86TH CIRCLE	ANDY ANDERSON OMAHA OMAHA	(402)592-1710 NE NE	08/06/92 681274146 681274146	-	SQG	-	-	-
PAUL LUCHT AND SONS, INC. NED035130335 Fac11.: 1519 S 3RD STREET Mail: P. O. BOX 3527	DONELLA KOPASKA OMAHA OMAHA	(402)342-5630 NE NE	12/20/89 68108 68103	-	SQG	-	-	-
PAYLESS CASHWAYS INC NED986387207 Fac11.: 15001 WEST CENTER Mail: PO BOX 419466	DAVE MCKEE ROAD OMAHA KANSAS CITY	(816)234-6000 NE MO	08/10/92 68144 641410466	-	CEG	-	-	-
PAYLESS CASHWAYS INC NED986387223 Fac11.: 6110 IRVINGTON ROAD Mail: PO BOX 419466	DAVE MCKEE OMAHA KANSAS CITY	(816)234-6000 NE MO	08/10/92 68134 64141	-	CEG	-	-	-
PEPSI COLA CO - OMAHA NED986377695 Fac11.: 4603 SOUTH 72ND STREET Mail: 4603 SOUTH 72ND STREET	JULIE DAUGHTERY OMAHA OMAHA	(402)331-5600 NE NE	07/25/91 68127 68127	-	SQG	-	-	-
PETER KIEWIT SONS' NED006970255 Fac11.: 1000 KIEWIT PLAZA Mail: 1000 KIEWIT PLAZA	MIKE SCHRAD OMAHA OMAHA	(402)342-2052 NE NE	08/17/90 68131 68131	-	CEG	-	-	-
PHILLIPS MANUFACTURING CO NED053311197 Fac11.: 4601 S 76 ST Mail: 4601 S 76 ST	ROLAND KUNZ OMAHA OMAHA	(402)339-3800 NE NE	03/21/91 68127 68127	-	SQG	TRNS	-	-
PHILLIPS PET CO STATION #27273 NED986385847 Fac11.: 7117 WEST MAPLE Mail: PO BOX 2400	THOMAS KOSEL OMAHA BARTLESVILLE	(918)661-7439 NE OK	07/24/92 68104 74005	-	SQG	-	-	-
PHILLIPS PET CO STATION 20415 NED986385870 Fac11.: 9004 FORT STREET Mail: PO BOX 2400	THOMAS KOSEL OMAHA BARTLESVILLE	(918)661-7439 NE NE	07/24/92 68134 74005	-	SQG	-	-	-
PHILLIPS PET CO STATION 23807 NED986385862 Fac11.: 7530 PACIFIC Mail: PO BOX 2400	THOMAS KOSEL OMAHA BARTLESVILLE	(918)661-7439 NE OK	07/24/92 68114 74005	-	SQG	-	-	-
PHILLIPS PET CO STATION 25850 NED986385839 Fac11.: 3362 SOUTH 13TH Mail: PO BOX 2400	THOMAS KOSEL OMAHA BARTLESVILLE	(918)661-7439 NE OK	07/24/92 68108 74005	-	SQG	-	-	-
PONY EXPRESS COURIER CORP NED986370146 Fac11.: 4969 F STREET Mail: 4969 F STREET	ERIC DAVIS OMAHA OMAHA	(402)733-4210 NE NE	02/08/91 68117 68117	-	SQG	-	-	-

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PRINT A SHIRT INC NED986383222	JEFF HUFF Fac11.: 1322 HARTMAN AVENUE EAST Mail: 1322 HARTMAN AVENUE EAST OMAHA OMAHA	(402)493-4864 NE NE	03/30/92 68110 DOUGLAS CO. 68110	-	SQG	-	-	-
PRINT A SHIRT INC NED986387355	LARRY FOX Fac11.: 4330 SOUTH 102 STREET Mail: 4330 SOUTH 102 STREET OMAHA OMAHA	(402)331-4906 NE NE	02/02/93 681271030 DOUGLAS CO. 681271030	-	SQG	-	-	-
PRO-SIGN AND SCREENPRINTING, INC NED986369031	DAVID OSTER Fac11.: 8704 WASHINGTON Mail: 8704 WASHINGTON OMAHA OMAHA	(402)592-1473 NE NE	02/26/91 68127 DOUGLAS CO. 68127	-	SQG	-	-	-
PROFESSIONAL SERVICE INDUSTRIES NED109104588	CINDY WILBUR Fac11.: 2917 DOUGLAS STREET Mail: 2917 DOUGLAS STREET OMAHA OMAHA	(913)865-9437 NE NE	07/31/92 68131 DOUGLAS CO. 68131	-	SQG	-	-	-
PUBLICATION PRINTING OF NEBRASKA NED986370492	TOM FENCL Fac11.: 208 3RD STREET Mail: 208 3RD STREET WATERLOO WATERLOO	(402)779-4696 NE NE	02/27/91 68069 DOUGLAS CO. 68069	-	SQG	-	-	-
PURITAN MFG INC NED007258221	JOSEPH WATERS Fac11.: 1301 WILLIS AVE Mail: 1301 WILLIS AVE OMAHA OMAHA	(402)341-3753 NE NE	02/18/91 68110 DOUGLAS CO. 68110	-	SQG	-	-	-
OO CHEMICALS, INC. NED007264138	ROBERT BJORKMAN Fac11.: 302 PIERCE ST Mail: 302 PIERCE ST OMAHA OMAHA	(402)341-8505 NE NE	04/04/91 68108 DOUGLAS CO. 68108	-	SQG	-	-	-
QUALITY LINCOLN MERCURY NED102302502	TOM SLOBOTH Fac11.: 6503 L ST Mail: 6503 L ST OMAHA OMAHA	(402)592-1044 NE NE	04/23/87 68127 DOUGLAS CO. 68127	-	SQG	-	-	-
QUANDT TRANSPORT SERVICE INC NED980862007	KAREN WEELBORG Fac11.: 2606 NOTH 11TH STREET Mail: 2606 NOTH 11TH STREET OMAHA OMAHA	(402)344-2304 NE NE	07/31/84 68110 DOUGLAS CO. 68110	-	-	TRNS	-	-
RADIO ACCESSORY CO NED082726928	WILLIAM HAYS Fac11.: 8939 F STREET Mail: 8939 F STREET OMAHA OMAHA	(402)592-4270 NE NE	04/15/86 68127 DOUGLAS CO. 68127	-	SQG	-	-	-
RADIO ENGINEERING INDUSTRIES, IN NED096369007	KIRK RASMUSSEN Fac11.: 6534 L STREET Mail: 6534 L STREET OMAHA OMAHA	(402)339-2200 NE NE	03/21/91 681171112 DOUGLAS CO. 681171112	-	SQG	-	-	-
RAILCAR OF NEBRASKA NED986369098	CARL SEDLACEK Fac11.: 28TH AND N Mail: 28TH AND N OMAHA OMAHA	(402)731-5660 NE NE	10/08/92 68107 DOUGLAS CO. 68107	-	SQG	-	-	-
RAILCAR SPECIALTIES INC NED072904675	DOUGLAS SAMSON Fac11.: 13840 L ST Mail: 13840 L ST OMAHA OMAHA	(402)895-1155 NE NE	04/02/91 68137 DOUGLAS CO. 68137	-	SQG	-	-	-

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RAPID PRINTING AND MAILING INC NED007264807	GREGG BAXTER Fac11.: 9320 J ST Mail: 9320 J ST OMAHA OMAHA	(402)331-0600 NE NE	08/07/86 68127 DOUGLAS CO. 68127	TSD SQG	-	-	-	-	-
RAPID PRINTING AND MAILING INC WEB DIV NED981719073	APPI ALLA Fac11.: 155 IDA ST Mail: 9320 J STREET OMAHA OMAHA	(402)453-1402 NE NE	10/16/87 68110 DOUGLAS CO. 68127	- SQG	-	-	-	-	-
RATIGAN FORD NED986368405	DAVID JAMESON Fac11.: 9203 S. 145TH STREET Mail: P. O. BOX 371037 OMAHA OMAHA	(402)896-6000 NE NE	03/01/91 68138 DOUGLAS CO. 68137	- SQG	-	-	-	-	-
RAYS BODY SHOP INC NED986377745	TOM OR RAY VOYCHESKE Fac11.: 2655 EDWARD BABE GOMEZ AVENUE Mail: 2655 EDWARD BABE GOMEZ AVENUE OMAHA OMAHA	(402)731-9992 NE NE	09/04/91 68107 DOUGLAS CO. 68107	- SQG	-	-	-	-	-
REAGAN BUICK INC NED035120260	DAN RABBASS Fac11.: 6603 L ST Mail: 6603 L ST OMAHA OMAHA	(402)592-1000 NE NE	02/22/91 68117 DOUGLAS CO. 68117	- LQG	-	-	BBL	-	-
REAGAN OLDSMOBILE NED986375285	JOE TISTHAMMER Fac11.: 14705 WRIGHT Mail: 14703 WRIGHT OMAHA OMAHA	(402)330-0400 NE NE	04/23/91 68144 DOUGLAS CO. 68144	- SQG	-	-	BBL	-	-
REDFIELD & COMPANY, INC. NED007265093	SAM DEMARE Fac11.: 1901 HOWARD STREET Mail: 1901 HOWARD STREET OMAHA OMAHA	(402)341-0364 NE NE	02/28/91 68102 DOUGLAS CO. 68102	- SQG	-	-	-	-	-
REGAL PRINTING CO., INC. NED082541095	JIM BOSCO Fac11.: 10123 L. STREET Mail: 10123 L. STREET OMAHA OMAHA	(402)339-9797 NE NE	04/19/90 68127 DOUGLAS CO. 68127	- SQG	-	-	-	-	-
REGENCY AMOCO NED986375293	DUANE HOVENDICK Fac11.: 10802 PACIFIC STREET Mail: 10802 PACIFIC STREET OMAHA OMAHA	(402)391-9809 NE NE	04/19/91 68154 DOUGLAS CO. 68154	- SQG	-	-	-	-	-
RICHMAN GORDMAN DISTRIBUTION CEN NED980741482	LEE BLEDSOE Fac11.: 9202 F STREET Mail: 9202 F STREET OMAHA OMAHA	(402)339-6464 NE NE	08/22/89 68127 DOUGLAS CO. 68127	- SQG	-	-	-	-	-
RILEY ADVERTISING LANCER LABEL DIV NED045575552	JOH MADER Fac11.: 301 SO 74TH STREET Mail: PO BOX 3637 OMAHA OMAHA	(402)390-9119 NE NE	03/12/91 68144 DOUGLAS CO. 68103	- SQG	-	-	-	-	-
ROLLINS LEASING CORP #421 NED986381960	GORDON BURNS Fac11.: 7830 "F" STREET Mail: ONE ROLLINS PLAZA OMAHA WILMINGTON	(402)339-8000 NE DE	02/10/92 68127 DOUGLAS CO. 19803	- SQG	-	-	-	-	-
RONS GARAGE NED986386308	RONALD CARPENTER Fac11.: 4545 LEAVENWORTH Mail: 4545 LEAVENWORTH OMAHA OMAHA	(402)553-7670 NE NE	08/13/92 68106 DOUGLAS CO. 68106	- SQG	-	-	-	-	-

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				TSD	GEN	TRNS	BBL	REC
RYDER TRUCK RENTAL NED986387306	Fac11.: 4603 SOUTH 72ND STREET Mail: 4603 SOUTH 72ND STREET MATTHEW WILLIS OMAHA OMAHA	(402)593-7829 NE NE	01/04/92 68127 68127	-	CEG	-	-	-
S & M IMPORT AUTO NED986387280	Fac11.: 8829 IRVINGTON ROAD Mail: 8829 IRVINGTON ROAD SCOTT MCCOPPIN OMAHA OMAHA	(402)571-4504 NE NE	01/13/93 68122 68122	-	SQG	-	-	-
SAFETY-KLEEN CORP NED981495724	Fac11.: LAMONT AND 139TH Mail: 777 BIG TIMBER RD KEVIN HERSEY OMAHA ELGIN	(312)697-8460 NE IL	11/15/85 68144 60120	TSD	-	-	-	-
SAFETY-KLEEN CORP 5-127-01 NED020185138	Fac11.: 14564 GROVER ST Mail: 655 BIG TIMBER ROAD JEFFREY SIMPSON OMAHA ELGIN	(312)697-8460 NE IL	08/18/80 68144 60120	TSD	LQG	TRNS	-	-
SAPP BROTHERS FORD CENTER NED034990564	Fac11.: I 80 AND HWY 50 Mail: PO BOX 37569 DEAN SAPP OMAHA OMAHA	(402)895-9555 NE NE	04/21/86 68137 68137	-	SQG	-	-	-
SCHOLZ INC NED065133191	Fac11.: 7800 SERUM AVENUE Mail: BOX 27067 MIKE ZELANSNEY RALSTON RALSTON	(402)339-7600 NE NE	02/07/92 68127 68127	-	SQG	-	-	-
SEAGATE TECHNOLOGY (FORMERLY IMPRIMIS) NED072901945	Fac11.: 11615 I ST Mail: 11615 I ST STEVE COX OMAHA OMAHA	(402)333-0850 NE NE	07/11/80 68137 68137	TSD	LQG	TRNS	-	-
SEARL AUTO BODY INC NED035144252	Fac11.: 2515 NO 85TH ST Mail: 2515 NO 85TH STREET JOHN SEARL OMAHA OMAHA	(402)393-2532 NE NE	01/16/86 68134 68134	-	SQG	-	-	-
SEARLE PETROLEUM CO NET320010267	Fac11.: 1521 N 11TH ST Mail: PO BOX A SECTON 3 FRED GALVANI OMAHA COUNCIL BLUFFS	(712)323-2441 NE IA	02/20/81 68110 51502	-	-	TRNS	-	-
SENFEO AUTO CENTER OF OMAHA NED035152032	Fac11.: 730 N 102ND ST Mail: 730 N 102ND ST PAUL PASSAVER OMAHA OMAHA	(402)393-7000 NE NE	09/03/86 68114 68114	-	SQG	-	-	-
SENTRY BUICK BODY SHOP NED048733554	Fac11.: 11525 W DODGE RD Mail: 11525 W DODGE RD MICHAEL WOLF OMAHA OMAHA	(402)333-8000 NE NE	02/20/91 68154 68154	-	SQG	-	-	-
SHERWIN-WILLIAMS NED986369171	Fac11.: 10236 L STREET Mail: 10236 L STREET THOMAS KWIATKOWSKI OMAHA OMAHA	(402)593-1886 NE NE	11/17/89 68127 68127	-	SQG	-	-	-
SHERWIN-WILLIAMS CO NED981698111	Fac11.: 4424 S 102ND ST Mail: 4424 S 102ND ST MIKE DEUTH OMAHA OMAHA	(402)592-0770 NE NE	02/25/91 68127 68127	-	SQG	-	-	-

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				ITSD	GEN	TRNS	BBL	REC
SILVER HAMMER BODY COMPANY NED986375756 Fac11.: 2725 NORTH 85TH STREET Mail: 2725 NORTH 85TH STREET	BOB KEITH OMAHA OMAHA	(402)397-4423 NE NE	07/02/91 68134 DOUGLAS CO. 68134	-	SQG	-	-	-
SINCLAIR & VALENTINE, LP NED000687236 Fac11.: 1414 - 1516 WEBSTER Mail: 1414 - 1516 WEBSTER	ROBERT CARR OMAHA OMAHA	(612)455-1261 NE NE	08/15/88 68102 DOUGLAS CO. 68102	-	SQG	-	-	-
SKINNER MACARONI NED980328637 Fac11.: 6848 F STREET Mail: 6848 F STREET	JOHN JACHYM OMAHA OMAHA	(402)331-7000 NE NE	05/24/90 68117 DOUGLAS CO. 68117	-	SQG	-	-	-
SKY HARBOR AIR SERVICE NED006860084 Fac11.: 3737 ORVILLE PLAZA Mail: PO BOX 19083	KENNETH PITZL OMAHA OMAHA	(402)422-6633 NE NE	08/08/86 68110 DOUGLAS CO. 68119	-	SQG	-	-	-
SMALL ENGINE SERVICES INC NED981506793 Fac11.: 5705 S. 77TH STREET Mail: 5705 S. 77TH STREET	DAVID COTTON RALSTON RALSTON	(402)592-3588 NE NE	02/18/91 68127 DOUGLAS CO. 68127	-	SQG	-	-	-
SMITHKLINE BEECHAM ANIMAL HEALTH NED986377265 Fac11.: 4444 SOUTH 76 CIRCLE Mail: 4444 SOUTH 76 CIRCLE	DOUGLAS WILLIAMS OMAHA OMAHA	(402)339-4900 NE NE	11/04/92 68127 DOUGLAS CO. 68127	-	SQG	-	-	-
SOUTHWEST AUTO BODY NED180577231 Fac11.: 8530 I STREET Mail: 8530 I STREET	TIM TVRDY OMAHA OMAHA	(402)331-8852 NE NE	09/14/89 68127 DOUGLAS CO. 68127	-	SQG	-	-	-
SOUTHWEST TIRE COMPANY NED986383131 Fac11.: 2720 SOUTH 148TH STREET Mail: 2720 SOUTH 148TH STREET	THOMAS CULLINANE OMAHA OMAHA	(402)330-1555 NE NE	03/10/92 68144 DOUGLAS CO. 68144	-	SQG	-	-	-
SOUTHWEST TIRE COMPANY NED986383230 Fac11.: 13736 Q STREET Mail: 13736 Q STREET	THOMAS CULLINANE OMAHA OMAHA	(402)895-6555 NE NE	03/10/92 68137 DOUGLAS CO. 68137	-	SQG	-	-	-
SPECIALTY AUTO SALES INCORPORATED NED986387108 Fac11.: 5409 SOUTH 70TH STREET Mail: 5409 SOUTH 70TH STREET	RICH CERVENY OMAHA OMAHA	(402)593-7339 NE NE	12/24/92 68117 DOUGLAS CO. 68117	-	CEG	-	-	-
SPECTRACOM DBA COMET EQUIPMENT NED986383149 Fac11.: 5716 SOUTH 27TH STREET Mail: P.O. BOX 7358	SCOTT HUGHBANKS OMAHA OMAHA	(402)733-6115 NE NE	01/23/90 68107 DOUGLAS CO. 68107	-	SQG	-	-	-
SPIC AND SPAN LINEN SUPPLY COMPANY NED986374056 Fac11.: 1228 SOUTH 16TH STREET Mail: 1228 SOUTH 16TH STREET	DELWYN RINGLING OMAHA OMAHA	(402)342-7181 NE NE	01/03/91 68108 DOUGLAS CO. 68108	-	SQG	-	-	-
ST JOSEPH HOSPITAL NED062259551 Fac11.: 601 NO. 30TH STREET Mail: 601 NO. 30TH STREET	RAY DUNLAP OMAHA OMAHA	(402)449-4387 NE NE	05/06/85 68131 DOUGLAS CO. 68131	-	SQG	-	-	-

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				TSR	GEN	TRNS	BBL	REC
STAN OLSEN PONTIAC, INC. NED035136670	PAT NORRIS Fac11.: 908 N. 102ND STREET Mail: 908 N. 102ND STREET OMAHA OMAHA	(402)397-8300 NE NE	03/29/89 68114 68114	-	SQG	-	-	-
STANDARD BLUE CO NED007496292	SCOTT SWANSON Fac11.: 10011 J STREET Mail: 10011 J STREET OMAHA OMAHA	(402)592-5900 NE NE	02/19/86 68127 68127	-	SQG	-	-	-
STATE OF NEBRASKA NED986368223	LARRY WARNER Fac11.: 221 N. STATE STRET Mail: 221 N. STATE STREET ELKHORN ELKHORN	(402)289-4444 NE NE	01/06/89 68022 68022	-	SQG	-	-	-
STATS INC NED981715154	LARRY TIGHE Fac11.: 7577 BURLINGTON Mail: BOX 3373 RALSTON OMAHA	(402)592-0230 NE NE	07/14/87 68127 68108	-	SQG	-	-	-
STATS INC NED986386746	MICKEY WHEELER Fac11.: 812 SOUTH 24TH Mail: 812 SOUTH 24TH OMAHA OMAHA	(402)345-9549 NE NE	09/04/92 68104 68104	-	SQG	-	-	-
STEPANEK CLEANERS NED986370484	KEITH RALL Fac11.: 2523 S 90TH STREET Mail: 4919 UNDERWOOD AVENUE OMAHA OMAHA	(402)558-3677 NE NE	03/06/91 68124 68132	-	SQG	-	-	-
SUBURBAN AIR FREIGHT INC NED986385680	BRYON BROCK Fac11.: 4010 EARHART PLZ Mail: 4010 EARHART PLZ OMAHA OMAHA	(402)344-4100 NE NE	06/05/92 68119 68119	-	SQG	-	-	-
SUN CHEMICAL CORP GENERAL PRINTING INK NED089565576	PETER AITORO Fac11.: 4433 S 134TH ST Mail: 4433 S 134 STREET OMAHA OMAHA	(201)933-4500 NE NE	08/18/80 68137 68131	-	SQG	-	-	-
SUPER AUTO WORKS, LTD NED174414292	EDWARD SPENCER Fac11.: 8444 "I" STREET Mail: 8520 "I" STREET OMAHA OMAHA	(402)339-2859 NE NE	04/01/91 68127 68127	-	SQG	-	-	-
SUPER AUTO WORKS, LTD. NED986369924	EDWARD SPENCER Fac11.: 8520 I STREET Mail: 10413 JEFFERSON CR OMAHA OMAHA	(402)339-6430 NE NE	03/29/90 68127 68127	-	SQG	-	-	-
SUPERIOR BODY SHOP NED986374510	PAUL WARREN Fac11.: 7002 L STREET Mail: 7002 L STREET OMAHA OMAHA	(402)331-2140 NE NE	01/23/91 68117 68117	-	SQG	-	-	-
SUPERIOR REPAIR SERVICE NED986374635	MITCH BOLTE Fac11.: 4306 SOUTH 79TH Mail: 4306 SOUTH 79TH OMAHA OMAHA	(402)331-5547 NE NE	02/23/91 68127 68127	-	SQG	-	-	-
SUPRA COLOR LABS INC NED986387041	DAVID POSTHUMUS Fac11.: 3123 NCRTH 93RD STREET Mail: 7125 OHMS LANE OMAHA EDINA	(612)835-3505 NE MN	11/25/92 68143 55439	-	LQG	-	-	-

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SWIFT ADHESIVES & COATINGS NED094681749	WILLIAM LARSEN Facil.: 9828 J ST Mail: 9828 J STREET OMAHA OMAHA	(402)331-1330 NE NE	08/15/80 68127 68127	-	LQG	-	-	-
TARASCIO AUTO BODY, INC. NED122112519	GARY TARASCIO Facil.: 4619 S. 88TH STREET Mail: 4619 S. 88TH STREET OMAHA OMAHA	(402)331-0186 NE NE	03/23/88 68127 68127	-	SQG	-	-	-
THE CLOTHES HAMPER NED986387314	RONALD LINNELL Facil.: 14210 ARBOR STREET Mail: 14210 ARBOR STREET OMAHA OMAHA	( ) - NE NE	08/19/92 68144 68144	-	CEG	-	-	-
THE RENZE CO INC NED981724677	JUDITH SOLIZ Facil.: 2023 HARNEY STREET Mail: 2023 HARNEY STREET OMAHA OMAHA	(402)342-1111 NE NE	03/14/91 68102 68102	-	SQG	-	-	-
THOMPSON HAYWARD CHEMICAL CO NED041244104	THOMAS DEHNER Facil.: 9000 F ST Mail: 9000 F STREET OMAHA OMAHA	(402)331-4525 NE NE	08/18/80 68127 68127	-	LQG	-	-	-
TOP NOTCH BODY SHOP, INC. NED035149012	GARY KIRK Facil.: 4205 HAMILTON STREET Mail: 4205 HAMILTON STREET OMAHA OMAHA	(402)553-6021 NE NE	03/12/91 68131 68131	TSD	SQG	-	-	-
TRACY'S AUTO BODY NED986381770	DON MILLER Facil.: 4952 SOUTH 36TH Mail: 4952 SOUTH 36TH OMAHA OMAHA	(402)731-8825 NE NE	11/20/91 68107 68107	-	SQG	-	-	-
TRAJET PRODUCTS, INC. NED000687087	DAVE WIGGINS Facil.: 7025 SARPY AVENUE Mail: 7025 SARPY AVENUE BELLEVUE OMAHA	(402)734-2268 NE NE	03/18/91 68005 68147	-	SQG	-	-	-
TRANS PEC LEASING NED986374627	RICHARD NEVINS Facil.: 2501 NORTH 11TH Mail: 5332 SOUTH 138TH SUITE 300 OMAHA OMAHA	(402)345-4041 NE NE	02/19/91 68119 68110	-	SQG	-	-	-
TRI SALES ASSOCIATES, INC. NED072903545	TOM WITT Facil.: 14901 CHANDLER ROAD Mail: P. O. BOX 37129 OMAHA OMAHA	(402)895-5212 NE NE	02/27/91 68138 68137	-	SQG	-	-	-
TRI-V TOOL AND DIE COMPANY NED986375905	JAMES VYHLIDAL Facil.: 14633 GROVER STREET Mail: 14633 GROVER STREET OMAHA OMAHA	(402)330-6030 NE NE	07/01/91 68144 68144	-	SQG	-	-	-
TRIANGLE BODY NED096399746	LARRY FROST Facil.: 6132 1/2 MILITARY AVENUE Mail: 6132 1/2 MILITARY AVENUE OMAHA OMAHA	(402)553-1040 NE NE	01/09/89 68104 68104	-	SQG	-	-	-
TURNER AUTO BODY NED093403582	STEVE TURNER Facil.: 15424 SO 2ND ST Mail: 15424 SO 2ND ST BENNINGTON BENNINGTON	(402)238-2345 NE NE	11/12/87 68007 68007	-	SQG	-	-	-

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				ITSD	GEN	TRNS	BBL	REC
U S WEST COMMUNICATIONS NED986387140	Fac11.: 7404 N 78TH ST Mail: 250 BELL PLAZA RM 611 WALTER WILLIAMS OMAHA SALT LAKE CITY	(801)359-0142 NE UT	12/10/92 68122 84111	-	SQG	-	-	-
U S WEST COMMUNICATIONS NED986387330	Fac11.: 1819 FARNAM STREET Mail: 250 BELL PLAZA RM 611 WALTER WILLIAMS OMAHA SALT LAKE CITY	(801)359-0142 NE UT	02/04/93 68183 84111	-	SQG	-	-	-
UNION PACIFIC FRUIT EXPRESS CO NED089564785	Fac11.: 1416 DODGE STREET Mail: 1416 DODGE STREET ARMAND CHIASSON OMAHA OMAHA	(402)271-4645 NE NE	08/19/80 68179 68179	-	-	TRNS	-	-
UNION PACIFIC RAILROAD CO NED000829754	Fac11.: 9TH & CASS Mail: 1416 DODGE STREET L.R. TIERNEY OMAHA OMAHA	(402)271-4400 NE NE	08/18/80 68102 68179	-	LQG	-	-	-
UNION PACIFIC RAILROAD CO NED001792910	Fac11.: 1416 DODGE STREET Mail: 1416 DODGE STREET L.R. TIERNEY OMAHA	(402)271-4400 NE NE	08/18/80 99999 68179	-	-	TRNS	-	-
UNITED AG STORES TRUCK SHOP NED119530020	Fac11.: 4228 S 72ND Mail: PO BOX 1131 JOHN TREANTOS OMAHA OMAHA	(402)339-7300 NE NE	02/19/91 68127 68101	-	SQG	-	BBL	-
UNITED PARCEL SERVICE NED138036686	Fac11.: 2535 GOMEZ Mail: 2535 GOMEZ ED ROMERO OMAHA OMAHA	(402)293-6442 NE NE	07/14/86 68106 68106	-	SQG	-	-	-
UNITED STATES CHECKBOOK CO NED007274459	Fac11.: 1201 S 16TH ST Mail: PO BOX 3644 JOSEPH WIECZOREK OMAHA OMAHA	(402)345-3162 NE NE	06/05/92 68108 681030644	-	SQG	-	-	-
UNIVAR CORPORATION NED986375327	Fac11.: 4120 BUCKINGHAM PLACE Mail: 6100 CARILL POINT SUSAN SCMID OMAHA KIRKLAND	(206)447-5954 NE WA	05/06/91 68107 98033	-	SQG	-	-	-
UNIVERSAL NEON SIGN CO NED986370195	Fac11.: 10722 180 FRONTAGE ROAD Mail: 10722 180 FRONTAGE ROAD DANIEL FLUD OMAHA OMAHA	(402)895-7080 NE NE	06/05/90 68138 68138	-	SQG	-	-	-
UNIVERSAL TECHNICAL INSTITUTE NED996385268	Fac11.: 902 CAPITOL AVE Mail: 902 CAPITOL AVE VERN LARSON OMAHA OMAHA	(402)345-2422 NE NE	05/14/92 68102 68102	-	SQG	-	-	-
UNIVERSITY OF NEBRASKA NED076974468	Fac11.: 60TH & DODGE STREET Mail: 60TH AND DODGE STREET MERLE KENNY OMAHA OMAHA	(402)554-2548 NE NE	09/26/91 68182 68182	-	SQG	-	BBL	-
UNIVERSITY OF NEBRASKA MEDICAL CENTER NED000809475	Fac11.: 600 SOUTH 42ND STREET Mail: 600 SOUTH 42ND STREET JAMES R RHONE OMAHA OMAHA	(402)559-8200 NE NE	04/02/92 681985491 681985491	-	SQG	-	-	-



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US ARMY CORPS OF ENGINEERS NE7210890029 Fac11.: 420 S 18TH ST Mail: 420 S 18TH ST	JOSEPH SOLSKY OMAHA OMAHA	(402)221-3211 NE NE	10/03/86 68102 DOUGLAS CO. 68102	-	SGQ	-	-	-
US WEST BUSINESS RESOURCES INC NED981707524 Fac11.: 4400 S 76 CIRCLE Mail: 250 BELL PLAZA RM 611	WALTER WILLIAMS OMAHA SALT LAKE CITY	(801)359-0142 NE UT	08/10/90 68127 DOUGLAS CO. 84111	-	SGQ	-	-	-
US WEST COMMUNICATIONS DOUGLAS NED986374726 Fac11.: 100 S 19TH STREET Mail: 250 BELL PLAZA RM 611	W. WILLIAMS OMAHA SALT LAKE CITY	(801)359-0142 NE UT	04/02/91 68102 DOUGLAS CO. 84111	-	SGQ	-	-	-
USCGC GASCONADE (WLR 75401) NE3690390015 Fac11.: 9800 N JOHN PERSHING DRIVE Mail: PO BOX 12337	WILLIAM LYNCH JR OMAHA OMAHA	(402)451-7681 NE NE	02/22/91 68112 DOUGLAS CO. 68112	-	SGQ	-	-	-
VALMONT INDUSTRIES INC NED007267214 Fac11.: WEST US HWY 275 Mail: WEST US HWY 275	WILLIAM TAYLOR VALLEY VALLEY	(402)359-2201 NE NE	02/27/91 68064 DOUGLAS CO. 68064	-	LQG	-	-	-
VAN WATERS & ROGERS - DIV OF UNIVAR NED000809483 Fac11.: 3002 F ST Mail: PO BOX 7900	DENNIS SMITH OMAHA OMAHA	(402)733-3266 NE NE	08/18/80 68107 DOUGLAS CO. 68107	TSD	-	-	-	-
VAN WATERS AND ROGERS NED040906729 Fac11.: 3900 D ST Mail: 3002 F STREET	DENNIS SMITH OMAHA OMAHA	(402)733-3266 NE NE	03/04/91 68107 DOUGLAS CO. 68107	TSD	SGQ	TRNS	-	-
VEHICLE MAINTENANCE FACILITY NE4180090025 Fac11.: 1124 PACIFIC ST Mail: 1124 PACIFIC ST	DAVE FOLDA OMAHA OMAHA	(402)348-2803 NE NE	02/08/91 68108 DOUGLAS CO. 68108	-	SGQ	-	-	-
VETERANS ADMINISTRATION MEDICAL R NE3360010315 Fac11.: 4101 WOOLWORTH Mail: 4101 WOOLWORTH	JAN VALLERY OMAHA OMAHA	(402)346-8800 NE NE	02/28/91 68105 DOUGLAS CO. 68105	-	SGQ	-	-	-
VICKERS, INC NED007286198 Fac11.: 6600 N 72ND ST Mail: 6600 N 72ND STREET	RONALD VORTHMANN OMAHA OMAHA	(402)572-4567 NE NE	02/15/91 68122 DOUGLAS CO. 68122	TSD	LQG	TRNS	-	-
VILLAGE CLEANERS NED986374593 Fac11.: 711 NO. 120TH Mail: 711 NO. 120TH	KWANG SIN OMAHA OMAHA	(402)498-0805 NE NE	07/23/92 68154 DOUGLAS CO. 68154	-	SGQ	-	-	-
VIP CLEANERS NED986381978 Fac11.: 2941 SOUTH 108TH Mail: 2941 SOUTH 108TH	JUNG SEU OMAHA OMAHA	(402)390-0701 NE NE	01/14/92 68124 DOUGLAS CO. 68124	-	SGQ	-	-	-
WALDINGER CORPORATION NED986382562 Fac11.: 4226 SOUTH 87TH Mail: 4226 SOUTH 87TH	MICHAEL KELLEY OMAHA OMAHA	(402)339-2666 NE NE	01/28/92 68127 DOUGLAS CO. 68127	-	SGQ	-	-	-

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Leg. Dist

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- Phone

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WAYNE AND JEFF AUTO BODY NED986375335 Fac11.: 7856 SERUM Mail: 7856 SERUM	WAYNE BERGEN RALSTON RALSTON	(402)331-8547 NE NE	05/10/91 68127 68127	- SQG	-	-	-	-	-
WEBCO PRINTING COMPANY NED986370815 Fac11.: 1508 CHANDLER ROAD Mail: 1508 CHANDLER ROAD	GIL WITTLAND OMAHA OMAHA	(402)731-7577 NE NE	02/04/91 68147 68147	- SQG	-	-	-	-	-
WERNER ENTERPRISES INC NED980687222 Fac11.: 14507 FRONTIER RD Mail: P.O. BOX 37308	RICHARD HORST OMAHA OMAHA	(402)895-6640 NE NE	02/11/83 68138 68137	- -	-	TRNS	-	-	-
WEST CENTER INC NED986375947 Fac11.: 12300 WEST CENTER ROAD Mail: 12300 WEST CENTER ROAD	RICH THOMSON OMAHA OMAHA	(402)334-1166 NE NE	06/27/91 68144 68144	- SQG	-	-	-	-	-
WEST OMAHA AUTO BODY NED088626254 Fac11.: 4220 S. 90TH STREET Mail: 4220 S. 90TH STREET	JOHN KINNEY OMAHA OMAHA	(402)331-3870 NE NE	05/03/89 68127 68127	- SQG	-	-	-	-	-
WEST Q SERV AND PARTS NED986375939 Fac11.: 13746 Q STREET Mail: 13746 Q STREET	THOMAS KYRAL OMAHA OMAHA	(402)895-1165 NE NE	06/27/91 68137 68137	- SQG	-	-	-	-	-
WESTERN OUTDOOR ADVERTISING NED986375319 Fac11.: 4000 GRANT Mail: 4000 GRANT	BYRON BARNES OMAHA OMAHA	(402)558-2900 NE NE	04/24/91 68111 68111	- SQG	-	-	-	-	-
WESTERN PRINTING CO INC NED007260979 Fac11.: 10609 I ST Mail: 10609 I ST	RALPH BRUEGGEMANN OMAHA OMAHA	(402)331-7510 NE NE	10/29/86 68127 68137	- SQG	-	-	-	-	-
WHEELER TRANSPORT SERVICE INC NED005851498 Fac11.: 7722 F STREET Mail: P O BOX 14248 W O S	JAMES SPACKMAN OMAHA OMAHA	(402)331-1600 NE NE	10/03/84 68114 68124	- -	-	TRNS	-	-	-
WILLIAM H. HARVEY COMPANY NED003906716 Fac11.: 4334 S 67TH ST Mail: 4334 SOUTH 67TH STREET	TOM NAVE OMAHA OMAHA	(402)331-1175 NE NE	08/18/80 68117 68117	- SQG	-	-	-	-	-
WILLIAMS MACHINE & TOOL CO# NED007259351 Fac11.: 9314 N 45TH ST Mail: PO BOX 12217 FLORENCE STA	FRANK TALACKO OMAHA OMAHA	(402)451-5553 NE NE	08/18/80 68152 68112	- SQG	-	-	-	-	-
WILLIAMS PIPE LINE CO NED040917569 Fac11.: 7TH & YATES Mail: BOX 3448	RAY KEEARNS OMAHA TULSA	(918)588-3248 NE OK	08/18/80 68110 74101	- LQG	-	-	-	-	-
WILLIAMS PIPE LINE CO NED054300207 Fac11.: 7202 N 16TH ST Mail: BOX 3448	RAY KEEARNS OMAHA TULSA	(918)588-3248 NE OK	08/18/80 68112 74101	- LQG	-	-	-	-	-

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				TSD	GEN	TRNS	BBL	REC
WILLSIE CAP AND GOWN NED007273881 Fac11.: 1220 SO. 13TH STREET Mail: 1220 SO. 13TH STREET	DOUGLAS COX OMAHA OMAHA	(402)341-6536 NE NE	02/18/91 68108 DOUGLAS CO. 68108	-	SQG	-	-	-
WISE MACK INC NED072896228 Fac11.: 7210 L ST Mail: 7210 L ST	DWAYNE ZELUG OMAHA OMAHA	(402)331-7700 NE NE	10/15/86 68127 DOUGLAS CO. 68127	-	SQG	-	-	-
WITCO CORP KENDALL/AMALIE DIV NED039059860 Fac11.: 6200 NORTH 16TH ST Mail: 6200 NORTH 16TH STREET	JOSEPH M FASSERO OMAHA OMAHA	(402)455-5040 NE NE	02/22/91 68110 DOUGLAS CO. 68110	-	SQG	-	-	-
WRIGHT PRINTING CO NED986374007 Fac11.: 13426 B STREET Mail: 13426 B STREET	RON BUBOLTZ OMAHA OMAHA	(402)330-2356 NE NE	11/23/90 68144 DOUGLAS CO. 68144	-	SQG	-	-	-
WYNNE TRANSPORT SERVICE INC NED005851514 Fac11.: 222 N 11TH ST Mail: 2222 NORTH 11TH STREET	SUSAN VICTOR OMAHA OMAHA	(402)342-4001 NE NE	04/03/81 68110 DOUGLAS CO. 68110	-	-	TRNS	-	-
YELLOW FREIGHT SYSTEM INC NED045274800 Fac11.: 4480 S 90TH STREET Mail: PO BOX 3603	BOB HOEFT OMAHA OMAHA	(402)339-1600 NE NE	10/04/85 68127 DOUGLAS CO. 68103	-	-	-	BBL	-
YOO'S DRY CLEANER NED986375830 Fac11.: 14455 W CENTER STREET Mail: 14455 W CENTER STREET	YOO YEK WOO OMAHA OMAHA	(402)333-8804 NE NE	07/03/91 68144 DOUGLAS CO. 68144	-	SQG	-	-	-
YOUNG'S SERVICE INC NED986386183 Fac11.: 6911 C STREET Mail: PO BOX 6191 ELMWOOD STATION	WALTER YOUNG OMAHA OMAHA	(402)393-7900 NE NE	08/13/92 681060191 DOUGLAS CO. 681060191	-	-	-	BBL	-
3M NATIONAL ADVERTISING NED986381515 Fac11.: 8427 MADISON STREET Mail: 8427 MADISON STREET	DARYL HUGGETT OMAHA OMAHA	(612)778-6386 NE NE	07/01/91 68127 DOUGLAS CO. 68127	-	SQG	-	-	-
3M VALLEY OH & SP DIV. NED028196103 Fac11.: 600 E MEIGS ST Mail: BLDG. 21-2W-05 P.O. BOX 33331	S. J. ZOSS VALLEY ST. PAUL	(612)778-4263 NE MN	06/10/83 68064 DOUGLAS CO. 55133	-	SQG	-	-	-
370 DRY CLEANING AND COIN LAUNDR NED981724503 Fac11.: 11509 S. 36TH STREET Mail: P. O. BOX 24916	DONALD YECHOUT JR. OMAHA OMAHA	(402)558-7423 NE NE	06/16/88 68123 DOUGLAS CO. 68124	-	SQG	-	-	-

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				TSD	GEN	TRNS	BBL	REC
AERO INDUSTRIES INC. NED072896509 Fac11.: 10308 S. 144TH STREET Mail: P. O. BOX 37598	LARRY GATZ OMAHA OMAHA	(402)895-6550 NE NE	11/04/83 68137 68137	-	SQG	-	-	-
ALL PURPOSE UTILITIES NED072897507 Fac11.: 7010 S 66TH ST Mail: 7010 S 66TH ST	DEBRA MATHEWS LA VISTA LAVISTA	(402)331-2550 NE NE	07/14/86 68157 68157	-	SQG	-	-	-
AMOCO FOOD SHOP NED986375459 Fac11.: 501 GALVIN ROAD Mail: 501 GALVIN ROAD	RICK EKWALL BELLEVUE BELLEVUE	(402)292-2290 NE NE	05/08/91 68005 68005	-	SQG	-	-	-
ARCADIAN CORP NED007268626 Fac11.: US HWY 73-75 Mail: CS 7354	BOYD ARNOLD LAPLATTE BELLEVUE	(402)291-0090 NE NE	08/19/80 68123 68005	-	SQG	-	BBL	-
BAZIS AUTO BODY NED986375822 Fac11.: 9224 SOUTH 97TH STREET Mail: 9224 SOUTH 97TH STREET	TIM BAZIS PAPILLION PAPILLION	(402)331-3911 NE NE	07/31/91 68128 68128	-	SQG	-	-	-
BEARDMORE CHEVROLET INC NED986374601 Fac11.: 418 FORT CROOK ROAD NORTH Mail: PO BOX 459	STEVE WOOD BELLEVUE BELLEVUE	(402)734-2525 NE NE	02/12/91 68005 68005	-	SQG	-	-	-
C S COMPANY NED981700594 Fac11.: 22222 FISHERY RD Mail: RR 1, BOX 163	ROGER WEBLEMOE GRETNA GRETNA	(402)332-3828 NE NE	09/15/86 68028 68028	-	-	TRNS	-	-
CARRIAGE CLEANERS INC NED062249040 Fac11.: 2112 FRANKLIN Mail: 2112 FRANKLIN	JOHN ESTEV BELLEVUE BELLEVUE	(402)291-0133 NE NE	01/23/86 68005 68005	-	SQG	-	-	-
CHANDLER CLEANERS NED986387264 Fac11.: 2611 CHANDLER ROAD Mail: 2611 CHANDLER ROAD	RICHARD DURAND BELLEVUE BELLEVUE	(402)392-7822 NE NE	01/06/93 68147 68147	-	SQG	-	-	-
CITY WIDE ROCK NED986368264 Fac11.: 43RD AND LA PLATT ROAD Mail: MAIN STREET	PETER LEAVITT LA PLATT LA PLATT	(402)291-8070 NE NE	01/09/89 68123 68123	-	SQG	-	-	-
COLONIAL PRESS INC NED986375673 Fac11.: 10607 HARRISON Mail: 10607 HARRISON	LARRY BENESCH OMAHA OMAHA	(402)593-0580 NE NE	06/14/91 681282900 681282900	-	SQG	-	-	-
DPC INDUSTRIES INC NED980850069 Fac11.: 11202 SOUTH 25TH STREET Mail: 11202 SOUTH 25TH STREET	WAYNE PENICK BELLEVUE BELLEVUE	(713)457-421 NE NE	10/14/91 68005 68005	-	SQG	-	-	-
EHRLING BERGQUIST STRATEGIC HOSPITAL NE9570090036 Fac11.: CAPEHART RD. AND 25TH STREET Mail: 55 CSG/DEEV	JENS CHRISTENSEN BELLEVUE OFFUTT AIR FORCE BASE	(402)294-4087 NE NE	06/20/90 68113 68113	-	LQG	TRNS	-	-

Facility/ID Leg. Dist	Contact - Name	- Phone	Notif. Date	Facility Type	TS	GEN	TRNS	BBL	REC1
FLATBED EXPRESS NED986384584	KELLY MOSLANDED 1014 LAPLATTE ROAD OMAHA OMAHA	(402)291-7607 NE NE	04/27/92 68123 SARPY CO. 68123	-	-	-	TRNS	-	-
FRANK MCGILL, INC. NED986373900	ED SWANEK 9918 S. 148TH STREET OMAHA OMAHA	(402)895-3440 NE NE	11/09/90 68138 SARPY CO. 68138	-	-	-	SQG	TRNS	BBL -
GRA - GAR INC NED986386340	SCOTT REED 10607 SOUTH 147TH PO BOX 37659 OMAHA OMAHA	(402)895-6847 NE NE	08/25/92 68137 SARPY CO. 68137	-	-	-	SQG	-	-
HELM'S BODY REPAIR NED986386605	HOWARD HELM 3411 HARLAN LEWIS DRIVE BELLEVUE BELLEVUE	(402)291-4848 NE NE	09/22/92 68005 SARPY CO. 68005	-	-	-	SQG	-	-
HONDA CARS OF BELLEVUE NED058822818	RICK YOUNG 510 FORT CROOK ROAD NORTH PO BOX 1285 BELLEVUE BELLEVUE	(402)734-3330 NE NE	04/23/87 68005 SARPY CO. 68005	-	-	-	SQG	-	BBL -
JIFFY LUBE NED986373777	PHIL MEYERS 1417 FORT CROOK ROAD 7811 L STREET SUITE 220 BELLEVUE OMAHA	(402)592-0909 NE NE	09/20/90 68005 SARPY CO. 68127	-	-	-	SQG	-	-
LA VISTA AMOCO FOOD SHOP NED986375970	GORDON BRIF 7301 SOUTH 85TH STREET 7301 SOUTH 85TH STREET LA VISTA LA VISTA	(402)339-6615 NE NE	06/17/91 68128 SARPY CO. 68128	-	-	-	SQG	-	-
MAX I WALKER NED986370377	KEITH RALL 1003 GALVIN ROAD 4919 UNDERWOOD AVENUE BELLEVUE OMAHA	(402)558-3677 NE NE	07/24/90 68005 SARPY CO. 68132	-	-	-	SQG	-	-
MAX I WALKER NED986370385	KEITH RALL 815 TARA PLAZA 4919 UNDERWOOD AVENUE PAPILLION OMAHA	(402)558-3677 NE NE	07/24/90 68046 SARPY CO. 68132	-	-	-	SQG	-	-
MIKES AUTO REPAIR NED986383180	MIKE KIEFFER 608 ANGUS STREET 608 ANGUS STREET GRETNA GRETNA	(402)332-3255 NE NE	03/06/92 68028 SARPY CO. 68028	-	-	-	SQG	-	-
MILES INC SPRINGFIELD RES FARM NED986385607	WILLIAM MORAN HWY 50 CORNISH ROAD PO BOX 308 SPRINGFIELD SPRINGFIELD	(816)242-2156 NE NE	06/04/92 680590308 SARPY CO. 680590308	-	-	-	SQG	-	-
MILLARD MANUFACTURING CORP NED986381754	MICHAEL PRICE 10602 OLIVE STREET 10602 OLIVE STREET OMAHA OMAHA	(402)331-8010 NE NE	12/29/91 68128 SARPY CO. 68128	-	-	-	SQG	-	-
MOTHERS BODY SHOP NED986381499	REX REED 1221 ROYAL DRIVE 1221 ROYAL DRIVE PAPILLION PAPILLION	(402)335-0135 NE NE	10/14/91 68046 SARPY CO. 68046	-	-	-	SQG	-	-

Facility/ID Leg. Dist	Contact - Name	- Phone	Notif. Date	Facil. Type	ITSD	GEN	TRNS	BBL	REC1
NORTHERN NATURAL GAS COMPANY NED986370542 Fac11.: 8300 CEDAR ISLAND ROAD Mail: 8300 CEDAR ISLAND ROAD	GARY PAUL ROAD OMAHA OMAHA	(402)633-4200 NE NE	02/25/91 68147 68147	- CEG SARPY CO.	-	-	-	-	-
OFFUTT AIR FORCE BASE NE8571924648 Fac11.: 3902 ABW/DEEV Mail: 3902 ABW/DEEV	EDWARD LUENINGHOENER OFFUTT AIR FORCE BASE BELLEVUE	(402)294-4087 NE NE	04/01/91 68113 68113	TSD SARPY CO.	LQG	-	-	-	-
OFFUTT CARSTAR COLLISION REPAIR NED986368991 Fac11.: 3714 S. FORT CROOK RD. Mail: 3714 S. FORT CROOK RD.	GEORGE RYBAR JR. BELLEVUE BELLEVUE	(402)291-5599 NE NE	02/26/91 68005 68005	- SARPY CO.	LQG	-	-	-	-
ONE HOUR MARTINIZING NED986369783 Fac11.: 2209 CAPEHART ROAD Mail: 3305 S. 66TH AVENUE	BARNEY DEDEN BELLEVUE OMAHA	(402)391-7373 NE NE	02/15/91 68123 68106	- SARPY CO.	SQG	-	-	-	-
ONE HOUR MARTINIZING NED986369791 Fac11.: 2301 LINCOLN ROAD Mail: 3305 S. 66TH AVENUE	BARNEY DEDEN BELLEVUE OMAHA	(402)391-7373 NE NE	02/15/91 68005 68106	- SARPY CO.	SQG	-	-	-	-
ORION ENGINEERING INC NED986386795 Fac11.: 517 NORTH JACKSON Mail: 517 NORTH JACKSON	IRWIN BECK PAPILLION PAPILLION	(402)331-5913 NE NE	08/31/92 68046 68046	- SARPY CO.	SQG	-	-	-	-
PAPILLION FOREIGN MOTORS NED986381796 Fac11.: 219 EAST 1ST STREET Mail: 219 EAST 1ST STREET	RICKEY HALEY PAPILLION PAPILLION	(402)339-6460 NE NE	12/26/91 680462456 680462456	- SARPY CO.	SQG	-	-	-	-
PAPILLION LAVISTA PUBLIC SCHOOLS NED986382315 Fac11.: 420 SOUTH WASHINGTON Mail: 7552 SOUTH 84TH STREET	ARTHUR MCENEARNY PAPILLION LAVISTA	(402)339-3411 NE NE	01/28/92 68046 68128	- SARPY CO.	SQG	-	-	-	-
PAPILLION SERVICE CENTER NED986368165 Fac11.: 1210 W. 6TH STREET Mail: 444 S 16TH STREET MALL	DONOVAN HUTCHENS PAPILLION OMAHA	(402)636-2313 NE NE	12/21/88 68128 68102	- SARPY CO.	-	TRNS	BBL	-	-
PAPIO-MISSOURI RIVER NRD NED986387157 Fac11.: 15604 GILES ROAD Mail: 15604 GILES ROAD	RON LEHMAN OMAHA OMAHA	(402)444-1967 NE NE	12/18/92 68135 68135	- SARPY CO.	SQG	-	-	-	-
PAYLESS CASHWAYS INC NED986387215 Fac11.: 1001 CORNHUSKER ROAD Mail: PO BOX 419466	DAVE MCKEE BELLEVUE KANSAS CITY	(816)234-6000 NE MO	08/10/92 68005 64141	- SARPY CO.	CEG	-	-	-	-
PHILLIPS PET CO STATION 20819 NED986385722 Fac11.: 12701 SOUTH 28TH Mail: PO BOX 2400	THOMAS KOSEL BELLEVUE BARTLESVILLE	(918)661-7439 NE OK	07/24/92 68123 74005	- SARPY CO.	SQG	-	-	-	-
PROFESSIONAL AUTOMOTIVE SERVICE NEE986375707 Fac11.: 10105 SOUTH 23RD STREET Mail: 10105 SOUTH 23RD STREET	BILL FREDENBURG BELLEVUE BELLEVUE	(402)293-1154 NE NE	06/20/91 68123 68123	- SARPY CO.	SQG	-	-	-	-

RCRA Notifiers List State: NE Region VII Merge Database

Run 13.27.38 04/05/93

Facility/ID Leg. Dist	Contact - Name	- Phone	Notif.Date	Facil. Type				
				TSR	GEN	TRNS	BBL	REC
SARPY CITY FLEET SVC NED986386191 Fac11.: 15100 SOUTH 84TH Mall: 15100 SOUTH 84TH	PATRICK CLARKE PAPILLION PAPILLION	(402)593-4348 NE NE	08/12/92 68128 SARPY CO. 68128	-	SQG	-	-	-
SCHOOL DISTRICT 46 NED986384402 Fac11.: 14803 SOUTH 108TH Mall: 14803 SOUTH 108TH	DOUG MANN SPRINGFIELD SPRINGFIELD	(402)339-3646 NE NE	04/06/92 68059 SARPY CO. 68059	-	SQG	-	-	-
THE RAILS COMPANY INC NED032057119 Fac11.: 511 E 16TH AVE BOX 177 Mall: PO BOX 177	M.DONNA JOHNSON BELLEVUE BELLEVUE	(402)292-6080 NE NE	02/18/91 68005 SARPY CO. 68005	-	SQG	-	-	-
THORPE'S BODY SHOP INC NED986383248 Fac11.: 546 NORTH JACKSON Mall: 546 NORTH JACKSON	RICHARD THORPE PAPILLION PAPILLION	(402)339-4321 NE NE	03/19/92 68046 SARPY CO. 68046	-	SQG	-	-	-
WION SVC CO NED981507957 Fac11.: HWY 50 & I80 Mall: HWY 50 & I80	KEVIN MEADOR PAPILLION PAPILLION	(402)895-9111 NE NE	07/14/86 68107 SARPY CO. 68107	-	SQG	-	-	-

Number of handlers for SARPY county: 44

\*\*\*\* RCRA Notifiers List \*\*\*\*

Run 12.53.27 , 04/05/93

Data from the Region VII Merge Database.

RIN #651

This run used the following selection criteria (blank means all values accepted, except for facility types):

States: NE (Select 1 - 3 or all)  
 Counties: NE173 NE177 (Select 1 - 4 or all)  
 ZIP Codes: (Select 1 - 5 or all)  
 Facility: (Select one or all)  
 Leg. district: (Select one or all)

Facility types: LQG: X SQG: X CEG: X  
 (X - selected) TSD: X Trans.: X BBL: X REC: X

NOTE: '-N-' in the report indicates the facility notified for that activity but is not now engaged in that activity.

Sort: State, County, Name, ID (See below for sort choices)  
 TC Rule facilities: (Waste codes D018 - D043)  
 Waste codes: (Select 1 - 6 or all)  
 SIC Codes: (Select 1 - 5 or all)  
 Owner type: (Select one or all)  
 Facilities which accept wastes from offsite:  
 Notification date range: from 010180 to 040593

Individual ID's selected: (1 - 15)

- 
- LQG - Large quantity generator (more than 1000 kg per month)
  - SQG - Small quantity generator (100 - 1000 kg per month)
  - CEG - Limited quantity generator (less than 100 kg per month)
  - TSD - Treat, store, or disposal facility
  - Trans. - Transporter
  - BBL - Burner/blender
  - REC - Recycler

- |                                     |  |                     |
|-------------------------------------|--|---------------------|
| Sort choices:                       |  | Owner type choices: |
| 1 - State, Name, ID                 |  | P - Private         |
| 2 - State, County, Name, ID         |  | F - Federal         |
| 3 - State, ZIP, Name, ID            |  | S - State           |
| 4 - State, Legislative District, ID |  | C - County          |
| 5 - Name, ID                        |  | M - Municipal       |
| 6 - ID Number                       |  |                     |

Total number of handlers is 14



Facility/ID  
Leg. Dist

Contact - Name

- Phone

Notif.Date |-----| Faci1. Type |-----|  
|TSD GEN TRNS BBL REC|

AUTOMATIC EQUIP MFG CO  
NED007259237 Faci1.: ONE MILL ROAD  
Mail: PO BOX P

DENNIS FILLIPI  
PENDER  
PENDER

(402)385-3051  
NE  
NE

08/18/80 - SQG - - -  
68047 THURSTON CO.  
68047

Number of handlers for THURSTON county: 1

Facility/ID Leg. Dist	Contact - Name	- Phone	Notif.Date	Fac11. Type	-----				
					TSDB	GEN	TRNS	BBL	REC
AG BAG CORPORATION NED986373934 Fac11.: 206 N 12TH STREET Mail.: 206 N 12TH STREET	WALTER JAY BLAIR BLAIR	(402)426-4855 NE NE	02/14/91 68008 68008	- SQG WASHINGTON CO.	-	-	-	-	-
ALL ENGINES WASTE OIL PUMPING NED986386647 Fac11.: 211 SOUTH 15TH ST Mail.: PO BOX 86	RICHARD STEPHENS FT CALHOUN FT CALHOUN	(402)468-5794 NE NE	09/08/92 68023 68023	- WASHINGTON CO.	-	-	-	BBL	-
BELL CREEK INC NED007491129 Fac11.: 720 W ELKHORN Mail.: 720 W ELKHORN	HAROLD MEYER ARLINGTON ARLINGTON	(402)478-4155 NE NE	08/08/86 68002 65002	- SQG WASHINGTON CO.	-	-	-	-	-
CONCRETE EQUIP CO NED007258338 Fac11.: 237 N 13TH ST Mail.: PO BOX 430	HENRY SMITH BLAIR BLAIR	(402)426-4181 NE NE	07/08/87 68008 68008	- CEG WASHINGTON CO.	-	-	-	-	-
CRYSTAL TAILORING NED058838087 Fac11.: 1449 WASHINGTON ST Mail.: 1449 WASHINGTON ST	GLADYS PLUGGE BLAIR BLAIR	( ) - NE NE	07/14/86 68008 68008	- SQG WASHINGTON CO.	-	-	-	-	-
DESOTO ENGINEERING NED986375004 Fac11.: 1225 LINCOLN ST Mail.: POB 158	DAVID FREBURG BLAIR BLAIR	(402)426-5555 NE NE	03/20/91 68008 68008	- CEG WASHINGTON CO.	-	-	-	-	-
FORT CALHOUN POWER STATION NED006970453 Fac11.: HIGHWAY 75 Mail.: 444 S 16TH STREET MALL	DONOVAN HUTCHENS FORT CALHOUN OMAHA	(402)636-2313 NE NE	08/18/80 68023 68102	- SQG WASHINGTON CO.	TRNS	BBL	-	-	-
KELLY RYAN MANUFACTURING NED007282429 Fac11.: 929 WASHINGTON ST Mail.: 929 WASHINGTON ST	JAMES RYAN BLAIR BLAIR	(402)426-2151 NE NE	08/18/80 68008 68008	- SQG WASHINGTON CO.	-	-	-	-	-
SID DILLON CHEV OLDS PONT INC NED986381671 Fac11.: 1762 WASHINGTON STREET Mail.: 1762 WASHINGTON STREET	BOB LEEHY BLAIR BLAIR	( ) - NE NE	12/10/91 68008 68008	- SQG WASHINGTON CO.	-	-	BBL	-	-
STEPHENS WASTE OIL NED981128697 Fac11.: 1 BLK W OF HWY 30 Mail.: RR 2 BOX 229A	DANIEL STEPHENS BLAIR BLAIR	(402)426-4872 NE NE	02/10/86 68008 68008	- WASHINGTON CO.	TRNS	BBL	-	-	-
TRC INC NED986386472 Fac11.: 1405 LINCOLN Mail.: PO BOX 398	TERRY CARUSO FORT CALHOUN FORT CALHOUN	(402)468-5308 NE NE	09/08/92 68023 68023	- WASHINGTON CO.	TRNS	-	-	-	-
WASHINGTON COUNTY ROAD DEPT NED986382158 Fac11.: SW HWY 30. 1/8 MI Mail.: P O BOX 130	RICHARD MASLOWSKY BLAIR BLAIR	(402)426-5844 NE NE	02/13/92 680080130 680090130	- SQG WASHINGTON CO.	-	-	-	-	-
WILKENSON MFG. NED007278831 Fac11.: 12TH MADISON STREET Mail.: 12TH AND MADISON	LARRY PETERSON FORT CALHOUN FORT CALHOUN	(402)468-5511 NE NE	02/26/91 68023 68023	- SQG WASHINGTON CO.	-	-	-	-	-

Number of handlers for WASHINGTON county: 13

**APPENDIX I**  
**TITLE III SECTION 313 TOXIC CHEMICAL RELEASE INVENTORY**

**PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT**  
**TITLE III - SECTION 313 TOXIC CHEMICAL RELEASE INVENTORY**  
**US ENVIRONMENTAL PROTECTION AGENCY, REGION VII , KANSAS CITY, KS**  
**REPORT DATED: APRIL 16, 1993**

FACILITY	STREET	CITY	COUNTY	ZIP	ST	CHEM NAME
CENTRAL SOYA CO. INC.	39TH & DAKOTA AVE.	SOUTH SIOUX CITY	DAKOTA	68776	NE	MANGANESE COMPOUNDS
CENTRAL SOYA CO. INC.	39TH & DAKOTA AVE.	SOUTH SIOUX CITY	DAKOTA	68776	NE	ZINC COMPOUNDS
CENTRAL SOYA CO. INC.	39TH & DAKOTA AVE.	SOUTH SIOUX CITY	DAKOTA	68776	NE	COPPER COMPOUNDS
IBP INC.	HWY. 35 S.	DAKOTA CITY	DAKOTA	68731	NE	AMMONIUM SULFATE (SOLUTION)
IBP INC.	HWY. 35 S.	DAKOTA CITY	DAKOTA	68731	NE	SULFURIC ACID
IBP INC.	HWY. 35 S.	DAKOTA CITY	DAKOTA	68731	NE	CHROMIUM
IBP INC.	HWY. 35 S.	DAKOTA CITY	DAKOTA	68731	NE	PHOSPHORIC ACID
IBP INC.	HWY. 35 S.	DAKOTA CITY	DAKOTA	68731	NE	CHLORINE
IBP INC.	HWY. 35 S.	DAKOTA CITY	DAKOTA	68731	NE	AMMONIA
SIOUX CITY FOUNDRY CO.	25TH & G ST.	SOUTH SIOUX CITY	DAKOTA	68776	NE	PHENOL
SIOUX CITY FOUNDRY CO.	25TH & G ST.	SOUTH SIOUX CITY	DAKOTA	68776	NE	NICKEL
SIOUX CITY FOUNDRY CO.	25TH & G ST.	SOUTH SIOUX CITY	DAKOTA	68776	NE	CHROMIUM
SIOUX CITY FOUNDRY CO.	25TH & G ST.	SOUTH SIOUX CITY	DAKOTA	68776	NE	METHYLENEBIS(PHENYLISOCYANATE)
AARON OMAHA	3811 DAHLMAN AVE.	OMAHA	DOUGLAS	68107	NE	AMMONIA
AIRLITE PLASTICS CO.	914 N. 18TH ST.	OMAHA	DOUGLAS	681021649	NE	1,1,1-TRICHLOROETHANE
AIRLITE PLASTICS CO.	914 N. 18TH ST.	OMAHA	DOUGLAS	681021649	NE	DICHLORODIFLUOROMETHANE (CFC-12)
ANACOMP INC.	11616 "I" ST.	OMAHA	DOUGLAS	68137	NE	ACETONE
ANACOMP INC.	11616 "I" ST.	OMAHA	DOUGLAS	68137	NE	METHYL ETHYL KETONE
ANACOMP INC.	11616 "I" ST.	OMAHA	DOUGLAS	68137	NE	CHROMIUM COMPOUNDS
ANACOMP INC.	11616 "I" ST.	OMAHA	DOUGLAS	68137	NE	COBALT COMPOUNDS
ASARCO INC.	500 DOUGLAS ST.	OMAHA	DOUGLAS	681021895	NE	ZINC COMPOUNDS
ASARCO INC.	500 DOUGLAS ST.	OMAHA	DOUGLAS	681021895	NE	LEAD COMPOUNDS
ASARCO INC.	500 DOUGLAS ST.	OMAHA	DOUGLAS	681021895	NE	ARSENIC COMPOUNDS
ASARCO INC.	500 DOUGLAS ST.	OMAHA	DOUGLAS	681021895	NE	COPPER COMPOUNDS
ASARCO INC.	500 DOUGLAS ST.	OMAHA	DOUGLAS	681021895	NE	SILVER COMPOUNDS
ASARCO INC.	500 DOUGLAS ST.	OMAHA	DOUGLAS	681021895	NE	ANTIMONY COMPOUNDS
ASARCO INC.	500 DOUGLAS ST.	OMAHA	DOUGLAS	681021895	NE	CHLORINE
AT&T NETWORK SYSTEMS	120TH & "I" STS.	OMAHA	DOUGLAS	68137	NE	LEAD COMPOUNDS
AT&T NETWORK SYSTEMS	120TH & "I" STS.	OMAHA	DOUGLAS	68137	NE	ANTIMONY COMPOUNDS
AT&T NETWORK SYSTEMS	120TH & "I" STS.	OMAHA	DOUGLAS	68137	NE	PHOSPHORIC ACID
AT&T NETWORK SYSTEMS	120TH & "I" STS.	OMAHA	DOUGLAS	68137	NE	1,1,1-TRICHLOROETHANE
AT&T NETWORK SYSTEMS	120TH & "I" STS.	OMAHA	DOUGLAS	68137	NE	METHYL ETHYL KETONE
AT&T NETWORK SYSTEMS	120TH & "I" STS.	OMAHA	DOUGLAS	68137	NE	DICHLOROMETHANE
AT&T NETWORK SYSTEMS	120TH & "I" STS.	OMAHA	DOUGLAS	68137	NE	STYRENE
AT&T NETWORK SYSTEMS	120TH & "I" STS.	OMAHA	DOUGLAS	68137	NE	CHLORINE
AT&T NETWORK SYSTEMS	120TH & "I" STS.	OMAHA	DOUGLAS	68137	NE	TOLUENE
AT&T NETWORK SYSTEMS	120TH & "I" STS.	OMAHA	DOUGLAS	68137	NE	FREON 113
AT&T NETWORK SYSTEMS	120TH & "I" STS.	OMAHA	DOUGLAS	68137	NE	HYDROCHLORIC ACID
AT&T NETWORK SYSTEMS	120TH & "I" STS.	OMAHA	DOUGLAS	68137	NE	BARIUM COMPOUNDS
AT&T NETWORK SYSTEMS	120TH & "I" STS.	OMAHA	DOUGLAS	68137	NE	COPPER COMPOUNDS

**PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT**  
**TITLE III - SECTION 313 TOXIC CHEMICAL RELEASE INVENTORY**  
**US ENVIRONMENTAL PROTECTION AGENCY, REGION VII , KANSAS CITY, KS**  
**REPORT DATED: APRIL 16, 1993**

FACILITY	STREET	CITY	COUNTY	ZIP	ST	CHEM NAME
AT&T NETWORK SYSTEMS	120TH & "I" STS.	OMAHA	DOUGLAS	68137	NE	SULFURIC ACID
AT&T NETWORK SYSTEMS	120TH & "I" STS.	OMAHA	DOUGLAS	68137	NE	CHROMIUM COMPOUNDS
AT&T NETWORK SYSTEMS	120TH & "I" STS.	OMAHA	DOUGLAS	68137	NE	METHYLENEBIS(PHENYLISOCYANATE)
BRUMKO MAGNETICS CORP.	150 BINFIELD ST.	ELKHORN	DOUGLAS	68022	NE	FREON 113
CAMPBELL SOUP CO.	1202 DOUGLAS ST.	OMAHA	DOUGLAS	68102	NE	PHOSPHORIC ACID
CAMPBELL SOUP CO.	1202 DOUGLAS ST.	OMAHA	DOUGLAS	68102	NE	AMMONIA
CARGILL INC.	701 ABBOTT DR.	OMAHA	DOUGLAS	68102	NE	PHOSPHORIC ACID
CARGILL INC.	701 ABBOTT DR.	OMAHA	DOUGLAS	68102	NE	AMMONIA
CARGILL INC.	701 ABBOTT DR.	OMAHA	DOUGLAS	68102	NE	SULFURIC ACID
CROWN BEVERAGE PACKAGING INC.	4133 S. 72ND ST.	OMAHA	DOUGLAS	68127	NE	GLYCOL ETHERS
CROWN BEVERAGE PACKAGING INC.	4133 S. 72ND ST.	OMAHA	DOUGLAS	68127	NE	METHYL ETHYL KETONE
CROWN BEVERAGE PACKAGING INC.	4133 S. 72ND ST.	OMAHA	DOUGLAS	68127	NE	METHYL ISOBUTYL KETONE
CROWN BEVERAGE PACKAGING INC.	4133 S. 72ND ST.	OMAHA	DOUGLAS	68127	NE	N-BUTYL ALCOHOL
CROWN BEVERAGE PACKAGING INC.	4133 S. 72ND ST.	OMAHA	DOUGLAS	68127	NE	TOLUENE
CROWN BEVERAGE PACKAGING INC.	4133 S. 72ND ST.	OMAHA	DOUGLAS	68127	NE	XYLENE (MIXED ISOMERS)
FLEETWOOD TRAVEL TRAILERS	13737 INDUSTRIAL RD.	OMAHA	DOUGLAS	68137	NE	1,1,1-TRICHLOROETHANE
FRUEHAUF TRAILER CORP.	11502 I ST.	OMAHA	DOUGLAS	68137	NE	XYLENE (MIXED ISOMERS)
FRUEHAUF TRAILER CORP.	11502 I ST.	OMAHA	DOUGLAS	68137	NE	PHOSPHORIC ACID
FRUEHAUF TRAILER CORP.	11502 I ST.	OMAHA	DOUGLAS	68137	NE	1,1,1-TRICHLOROETHANE
FRUEHAUF TRAILER CORP.	11502 I ST.	OMAHA	DOUGLAS	68137	NE	METHYL ISOBUTYL KETONE
ICI AMERICAS INC.	4111 GIBSON RD.	OMAHA	DOUGLAS	681072399	NE	N-BUTYL ALCOHOL
ICI AMERICAS INC.	4111 GIBSON RD.	OMAHA	DOUGLAS	681072399	NE	1,2,4-TRIMETHYLBENZENE
ICI AMERICAS INC.	4111 GIBSON RD.	OMAHA	DOUGLAS	681072399	NE	XYLENE (MIXED ISOMERS)
INDUSTRIAL CHEMICAL	1015 N. 14TH ST.	OMAHA	DOUGLAS	68102	NE	GLYCOL ETHERS
INTERNATIONAL NUTRITION INC.	6664 L ST.	OMAHA	DOUGLAS	681171096	NE	ZINC COMPOUNDS
INTERNATIONAL NUTRITION INC.	6664 L ST.	OMAHA	DOUGLAS	681171096	NE	COPPER COMPOUNDS
INTERNATIONAL NUTRITION INC.	6664 L ST.	OMAHA	DOUGLAS	681171096	NE	MANGANESE COMPOUNDS
KUKER INDUSTRIES INC.	13709 INDUSTRIAL RD.	OMAHA	DOUGLAS	68137	NE	XYLENE (MIXED ISOMERS)
LACKAWANNA LEATHER CO.	2420 Z ST.	OMAHA	DOUGLAS	68107	NE	CHROMIUM COMPOUNDS
LACKAWANNA LEATHER CO.	2420 Z ST.	OMAHA	DOUGLAS	68107	NE	AMMONIA
LACKAWANNA LEATHER CO.	2420 Z ST.	OMAHA	DOUGLAS	68107	NE	SULFURIC ACID
LACKAWANNA LEATHER CO.	2420 Z ST.	OMAHA	DOUGLAS	68107	NE	N-BUTYL ALCOHOL
LACKAWANNA LEATHER CO.	2420 Z ST.	OMAHA	DOUGLAS	68107	NE	METHYL ETHYL KETONE
LACKAWANNA LEATHER CO.	2420 Z ST.	OMAHA	DOUGLAS	68107	NE	TOLUENE
LACKAWANNA LEATHER CO.	2420 Z ST.	OMAHA	DOUGLAS	68107	NE	ACETONE
LACKAWANNA LEATHER CO.	2420 Z ST.	OMAHA	DOUGLAS	68107	NE	XYLENE (MIXED ISOMERS)
LACKAWANNA LEATHER CO.	2420 Z ST.	OMAHA	DOUGLAS	68107	NE	GLYCOL ETHERS
LOZIER CORP.	4224 N. 22ND ST.	OMAHA	DOUGLAS	681101100	NE	TOLUENE
LOZIER CORP.	4224 N. 22ND ST.	OMAHA	DOUGLAS	681101100	NE	XYLENE (MIXED ISOMERS)
LOZIER CORP.	4224 N. 22ND ST.	OMAHA	DOUGLAS	681101100	NE	METHYL ETHYL KETONE

**PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT**  
**TITLE III - SECTION 313 TOXIC CHEMICAL RELEASE INVENTORY**  
**US ENVIRONMENTAL PROTECTION AGENCY, REGION VII , KANSAS CITY, KS**  
**REPORT DATED: APRIL 16, 1993**

FACILITY	STREET	CITY	COUNTY	ZIP	ST	CHEM NAME
LOZIER CORP.	6316 PERSHING DR.	OMAHA	DOUGLAS	681101100	NE	ACETONE
LOZIER CORP.	6316 PERSHING DR.	OMAHA	DOUGLAS	681101100	NE	N-BUTYL ALCOHOL
LOZIER CORP.	6316 PERSHING DR.	OMAHA	DOUGLAS	681101100	NE	TOLUENE
LOZIER CORP.	6316 PERSHING DR.	OMAHA	DOUGLAS	681101100	NE	METHYL ETHYL KETONE
LOZIER CORP.	6316 PERSHING DR.	OMAHA	DOUGLAS	681101100	NE	XYLENE (MIXED ISOMERS)
MAJORS PLASTICS INC.	10305 I ST.	OMAHA	DOUGLAS	681271182	NE	STYRENE
MALNOVE INC.	13434 F ST.	OMAHA	DOUGLAS	68137	NE	TOLUENE
NASHUA CORP.	3838 S. 108TH ST.	OMAHA	DOUGLAS	681444998	NE	NAPHTHALENE
NASHUA CORP.	3838 S. 108TH ST.	OMAHA	DOUGLAS	681444998	NE	TOLUENE
NASHUA CORP.	3838 S. 108TH ST.	OMAHA	DOUGLAS	681444998	NE	XYLENE (MIXED ISOMERS)
NASHUA CORP.	3838 S. 108TH ST.	OMAHA	DOUGLAS	681444998	NE	1,1,1-TRICHLOROETHANE
NOX-CRETE OF NEBRASKA INC.	1444 S. 20TH ST.	OMAHA	DOUGLAS	68108	NE	1,2,4-TRIMETHYLBENZENE
NOX-CRETE OF NEBRASKA INC.	1444 S. 20TH ST.	OMAHA	DOUGLAS	68108	NE	TOLUENE
OMAHA EDIBLE OILS	4734 S. 27TH ST.	OMAHA	DOUGLAS	68107	NE	SULFURIC ACID
OMAHA STEEL CASTINGS CO.	4601 FARNAM ST.	OMAHA	DOUGLAS	68132	NE	PHENOL
OMAHA STEEL CASTINGS CO.	4601 FARNAM ST.	OMAHA	DOUGLAS	68132	NE	METHYLENEBIS(PHENYLISOCYANATE)
OMAHA STEEL CASTINGS CO.	4601 FARNAM ST.	OMAHA	DOUGLAS	68132	NE	CHROMIUM
OMAHA STEEL CASTINGS CO.	4601 FARNAM ST.	OMAHA	DOUGLAS	68132	NE	MANGANESE
OMEGA CHEMICAL CO. INC.	7577 BURLINGTON	RALSTON	DOUGLAS	68127	NE	AMMONIA
OO CHEMICALS INC.	302 PIERCE ST.	OMAHA	DOUGLAS	68108	NE	METHANOL
OO CHEMICALS INC.	302 PIERCE ST.	OMAHA	DOUGLAS	68108	NE	SULFURIC ACID
OO CHEMICALS INC.	302 PIERCE ST.	OMAHA	DOUGLAS	68108	NE	COPPER COMPOUNDS
RADIO ENGINEERING INDUSTRIES	6534 L ST.	OMAHA	DOUGLAS	681171199	NE	TETRACHLOROETHYLENE
ROBERTS DAIRY CO.	2901 CUMING ST.	OMAHA	DOUGLAS	68131	NE	PHOSPHORIC ACID
SOPHIR CO.	4221 S. 90 ST.	OMAHA	DOUGLAS	681271303	NE	ETHYLENE GLYCOL
SWIFT ADHESIVES INC.	9828 J ST.	OMAHA	DOUGLAS	681721175	NE	1,1,1-TRICHLOROETHANE
VALMONT INDUSTRIES INC.	US HWY. 275	VALLEY	DOUGLAS	68064	NE	LEAD
VALMONT INDUSTRIES INC.	US HWY. 275	VALLEY	DOUGLAS	68064	NE	ZINC COMPOUNDS
VALMONT INDUSTRIES INC.	US HWY. 275	VALLEY	DOUGLAS	68064	NE	SULFURIC ACID
VALMONT INDUSTRIES INC.	US HWY. 275	VALLEY	DOUGLAS	68064	NE	METHYL ETHYL KETONE
VALMONT INDUSTRIES INC.	US HWY. 275	VALLEY	DOUGLAS	68064	NE	XYLENE (MIXED ISOMERS)
VALMONT INDUSTRIES INC.	US HWY. 275	VALLEY	DOUGLAS	68064	NE	MANGANESE
VALMONT INDUSTRIES INC.	US HWY. 275	VALLEY	DOUGLAS	68064	NE	CHROMIUM
VALMONT INDUSTRIES INC.	US HWY. 275	VALLEY	DOUGLAS	68064	NE	NICKEL
VICKERS INC.	6600 N. 72ND ST.	OMAHA	DOUGLAS	68122	NE	AMMONIA
VICKERS INC.	6600 N. 72ND ST.	OMAHA	DOUGLAS	68122	NE	METHANOL
VICKERS INC.	6600 N. 72ND ST.	OMAHA	DOUGLAS	68122	NE	1,1,1-TRICHLOROETHANE
WELLS DAIRY OMAHA MILK PLANT	7122 J ST.	OMAHA	DOUGLAS	68117	NE	PHOSPHORIC ACID
3M	600 E. MEIGS ST.	VALLEY	DOUGLAS	68064	NE	ACRYLIC ACID
ARCADIAN FERTILIZER L.P.	HWY. 75	LAPLATTE	SARPY	68123	NE	AMMONIA

**PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT**  
**TITLE III - SECTION 313 TOXIC CHEMICAL RELEASE INVENTORY**  
**US ENVIRONMENTAL PROTECTION AGENCY, REGION VII , KANSAS CITY, KS**  
**REPORT DATED: APRIL 16, 1993**

FACILITY	STREET	CITY	COUNTY	ZIP	ST	CHEM NAME
ARCADIAN FERTILIZER L.P.	HWY. 75	LAPLATTE	SARPY	68123	NE	AMMONIUM NITRATE (SOLUTION)
ARCADIAN FERTILIZER L.P.	HWY. 75	LAPLATTE	SARPY	68123	NE	AMMONIUM SULFATE (SOLUTION)
ARCADIAN FERTILIZER L.P.	HWY. 75	LAPLATTE	SARPY	68123	NE	CHLORINE
ARCADIAN FERTILIZER L.P.	HWY. 75	LAPLATTE	SARPY	68123	NE	HYDROCHLORIC ACID
ARCADIAN FERTILIZER L.P.	HWY. 75	LAPLATTE	SARPY	68123	NE	NITRIC ACID
ARCADIAN FERTILIZER L.P.	HWY. 75	LAPLATTE	SARPY	68123	NE	METHANOL
ARCADIAN FERTILIZER L.P.	HWY. 75	LAPLATTE	SARPY	68123	NE	SULFURIC ACID
ARCADIAN FERTILIZER L.P.	HWY. 75	LAPLATTE	SARPY	68123	NE	COPPER COMPOUNDS
ARCADIAN FERTILIZER L.P.	HWY. 75	LAPLATTE	SARPY	68123	NE	NICKEL COMPOUNDS
ARCADIAN FERTILIZER L.P.	HWY. 75	LAPLATTE	SARPY	68123	NE	ZINC COMPOUNDS
ARCADIAN FERTILIZER L.P.	HWY. 75	LAPLATTE	SARPY	68123	NE	CHROMIUM COMPOUNDS
DPC INDUSTRIES INC.	11202 SOUTH 25TH ST.	BELLEVUE	SARPY	68005	NE	AMMONIA
DPC INDUSTRIES INC.	11202 SOUTH 25TH ST.	BELLEVUE	SARPY	68005	NE	CHLORINE
DPC INDUSTRIES INC.	11202 SOUTH 25TH ST.	BELLEVUE	SARPY	68005	NE	HYDROCHLORIC ACID
NATIONAL BY PRODUCTS INC.	14401 S. 5TH ST.	OMAHA	SARPY	68123	NE	AMMONIA
CONCRETE EQUIPMENT CO. INC.	237 N. 13TH ST.	BLAIR	WASHINGTON	68008	NE	XYLENE (MIXED ISOMERS)

**APPENDIX J**  
**CERCLIS**



U.S. EPA SUPERFUND PROGRAM

\*\* C E R C L I S \*\*

LIST 8: SITE/EVENT LISTING

REPORT OPTIONS: EXTERNAL REPORT  
SELECTION: \*\* SPECIAL \*\*  
SEQUENCE: STATE, CNTY CODE, SITE NAME  
EVENTS: ALL

WHERE CLAUSE: C0002 EQ NE AND (C0120 EQ DAKOTA OR C0120 EQ DOUGLAS OR  
C0120 EQ SARPY OR C0120 EQ WASHINGTON):

*no data (Houston)*

93-651

RUN DATE: 04/05/93 10:05:03  
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 \*\* C E R C L I S \*\*  
 LIST 08: SITE/EVENT LISTING

PAGE: 1  
 CERHELP DATA BASE DATE: N/A  
 CERHELP DATA BASE TIME: N/A

SELECTION: \*\* SPECIAL \*\*  
 SEQUENCE: STATE, CNTY CODE, SITE NAME

EVENTS: ALL

EPA ID NO.	SITE NAME STREET CITY COUNTY CODE AND NAME	STATE ZIP CONG DIST.	OPRBLE UNIT	EVENT TYPE	EVENT QUAL	ACTUAL START DATE	ACTUAL COMPL DATE	CURRENT EVENT LEAD
NED981129059	HUBBARD PUBLIC WATER SUPPLY HUBBARD HUBBARD 043 DAKOTA	NE 68741	00	RS1 DS1 PA1 SI1		08/07/87  02/24/87 04/15/87	04/26/88 02/21/86 02/24/87 07/20/87	EPA (FUND) EPA (FUND) EPA (FUND) EPA (FUND)
NED051947695	WILLIS PYROLIZER CO RR 1 JACKSON 043 DAKOTA	NE 68743	00	RV1 DS1 PA1	NFA	01/01/85	10/01/86 08/01/80 01/22/87	RESP. PARTY EPA (FUND) EPA (FUND)
NED007268436	AIR PRODUCTS 9TH & GRACE ST OMAHA 055 DOUGLAS	NE 68102	00	DS1 PA1	NFA		11/01/79 02/01/84	EPA (FUND) STATE(FUND)
NED007268626	ALLIED CHEMICAL CORP US HWY 73 75 LA PLATTE 055 DOUGLAS	NE 68123	00	DS1 PA1	NFA		10/01/79 03/01/82	EPA (FUND) EPA (FUND)
NED007292568	ANDERSON EXCAVATING & WRECKING CO S 20TH ST OMAHA 055 DOUGLAS	NE 68108	00	DS1 PA1	NFA		07/01/80 02/01/84	EPA (FUND) STATE(FUND)
NED005925235	ARMOR INDUSTRIES 9215 FREMONT ST OMAHA 055 DOUGLAS	NE 68122	00	DS1 PA1	NFA	07/15/87	03/13/86 12/15/87	EPA (FUND) EPA (FUND)
NED000676882	BELLEVUE CURING & BLUING INC CAPEHART & 16TH ST OMAHA 055 DOUGLAS	NE 68123	00	DS1 PA1	NFA		12/01/79 02/01/84	EPA (FUND) STATE(FUND)

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 \*\* CERCLIS \*\*  
 LIST 8: SITE/EVENT LISTING

PAGE 2  
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 CERHELP DATA BASE TIME: N/A

SELECTION: \*\* SPECIAL \*\*  
 SEQUENCE: STATE, CNTY CODE, SITE NAME

EVENTS: ALL

EPA ID NO.	SITE NAME STREET CITY COUNTY CODE AND NAME	STATE ZIP CONG DIST.	OPRBLE UNIT	EVENT TYPE	EVENT QUAL	ACTUAL START DATE	ACTUAL COMPL DATE	CURRENT EVENT LEAD
NED981127905	BLAZEK, DON AUTO PARTS 1020 S 20TH ST OMAHA 055 DOUGLAS	NE 68108	00	DS1 PA1	NFA	11/14/87	02/11/85 12/15/87	EPA (FUND) STATE(FUND)
NED980966428	CALIFORNIA SPRAY CHEMICAL CO 4424 MCKINLEY ST OMAHA 055 DOUGLAS	NE 68112	00	DS1 PA1 SI1 SI2	NFA	04/01/86	12/01/84 04/01/86 04/01/86 08/03/92	EPA (FUND) EPA (FUND) EPA (FUND) EPA (FUND)
NED020201075	CAPITAL OIL CO 1128 N 11TH ST OMAHA 055 DOUGLAS	NE 68102	00	DS1 PA1 SI1 SI2	NFA NFA	03/01/83 07/09/84	08/01/80 03/01/83 03/01/83 09/30/85	EPA (FUND) EPA (FUND) EPA (FUND) EPA (FUND)
NED078002920	CARGILL GRAIN ELEVATOR 7621 DODGE ST OMAHA 055 DOUGLAS	NE 68114	00	DS1 PA1 SI1		01/19/91	03/15/90 01/09/91 09/20/91	STATE(FUND) STATE(FUND) STATE(FUND)
NED981712060	CELLTILE CO 803 S 15TH ST OMAHA 055 DOUGLAS	NE 68108	00	DS1 PA1	NFA	07/15/87	03/13/86 12/15/87	EPA (FUND) EPA (FUND)
NED000687020	CONTOUR LANDSCAPING CO 2114 S 43TH ST OMAHA 055 DOUGLAS	NE 68106	00	DS1 PA1	NFA		02/01/84 02/01/84	EPA (FUND) STATE(FUND)
NED072901945	CONTROL DATA CORP : OMAHA 11615 I ST OMAHA 055 DOUGLAS	NE 68137	00	DS1 PA1 PA2 SI1		02/19/87 06/09/87	07/01/80 04/01/84 05/27/87 07/21/87	EPA (FUND) EPA (FUND) STATE(FUND) STATE(FUND)

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 LIST 08: SITE/EVENT LISTING

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SELECTION: \*\* SPECIAL \*\*  
 SEQUENCE: STATE, CNTY CODE, SITE NAME

EVENTS: ALL

EPS ID NO.	SITE NAME STREET CITY COUNTY CODE AND NAME	STATE ZIP CONG. DIST.	OPRBLE UNIT	EVENT TYPE	EVENT QUAL	ACTUAL START DATE	ACTUAL COMPL DATE	CURRENT EVENT LEAD
NED035113653	CYRGUS CO INC 3712 D ST OMAHA 055 DOUGLAS	NE 68107	00	DS1 PA1	NFA		08/01/80 02/01/84	EPA (FUND) STATE(FUND)
NED981707730	DRUM INDUSTRIES 2623 CENTER OMAHA 055 DOUGLAS	NE 68105	00	RV1 DS1		06/15/89	06/23/89 02/03/88	CTHER EPA (FUND)
NED065122087	ECONOMY PRODUCTS CO INC 1126 N 11TH ST OMAHA 055 DOUGLAS	NE 68102	00	RV1 RV3 DS1 PA1 SI1 SI2 AR1		07/16/84 09/15/89	10/28/85 12/01/90 06/01/81 12/01/81 10/24/85 04/14/87 09/01/89 09/10/90	EPA (FUND) EPA (FUND) EPA (FUND) EPA (FUND) EPA (FUND) EPA (FUND) EPA (FUND)
NED041244492	ELANCO PRODUCTS CO 5600 S 42ND ST OMAHA 055 DOUGLAS	NE 68107	00	DS1 PA1	NFA	04/01/84	08/01/80 04/01/84	EPA (FUND) EPA (FUND)
NET320010044	ELECTRO PAINTERS INC 4357 S 89TH ST OMAHA 055 DOUGLAS	NE 68127	00	DS1 PA1	NFA	02/01/84	08/01/80 02/01/84	EPA (FUND) STATE(FUND)
NE3571990040	ELKHORN COMMUNICATION FACILITY 21011 RAINWOOD RD ELKHORN 055 DOUGLAS	NE 68022	00	DS1			03/30/91	EPA (FUND)
NED000610576	ENVIRONMENTAL SERVICES INC 1521 N 11TH ST OMAHA 055 DOUGLAS	NE 68110	00	RV1 RV2 DS1 PA1		09/06/84 09/14/84	10/12/84 10/12/84 07/01/80 03/01/81	EPA (FUND) RESP. PARTY EPA (FUND) EPA (FUND)

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 LIST 8: SITE/EVENT LISTING

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SELECTION: \*\* SPECIAL \*\*  
 SEQUENCE: STATE, CNTY CODE, SITE NAME

EVENTS: ALL

EPA ID NO.	SITE NAME STREET CITY COUNTY CODE AND NAME	STATE ZIP CONG DIST.	OPRBLE UNIT	EVENT TYPE	EVENT QUAL	ACTUAL START DATE	ACTUAL COMPL DATE	CURRENT EVENT LEAD
NED000610576 (CONTINUED)	ENVIRONMENTAL SERVICES INC OMAHA		(00)	SI1 SI2 MA1		03/01/81 06/29/87 01/26/90	03/01/81 08/10/87	EPA (FUND) EPA (FUND) RESP. PARTY
NED000822825	ESB INC 9423 I ST OMAHA 055 DOUGLAS	NE 68127	00	DS1 PA1	NFA	04/01/84	08/01/80 04/01/84	EPA (FUND) EPA (FUND)
NED007262223	EXIDE CORPORATION 4012 4024 N 30TH ST OMAHA 055 DOUGLAS	NE 68111	00	DS1 PA1	NFA	03/01/83	11/01/81 03/01/83	EPA (FUND) EPA (FUND)
NED007260094	FUCHS MACHINERY 2401 N 11TH ST OMAHA 055 DOUGLAS	NE 68112	00	DS1 PA1	NFA	08/05/91	10/26/90 10/01/91	EPA (FUND) EPA (FUND)
NED007257892	HARVEY CO 4350 LAFAYETTE OMAHA 055 DOUGLAS	NE 68131	00	DS1 PA1	NFA	08/07/87	03/14/86 11/13/87	EPA (FUND) EPA (FUND)
NED981713480	HEFLINGER PARK 112 W MAPLE RD OMAHA 055 DOUGLAS	NE 68164	00	DS1 PA1 SI1		07/27/87 07/01/88	05/15/87 10/02/87 12/30/88	EPA (FUND) STATE(FUND) STATE(FUND)
NED007493836	HUNT TRANSPORTATION INC 10777 I ST OMAHA 055 DOUGLAS	NE 68127	00	DS1 PA1	NFA	04/01/84	09/01/80 04/01/84	EPA (FUND) EPA (FUND)

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 LIST 8: SITE/EVENT LISTING

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SELECTION: \*\* SPECIAL \*\*  
 SEQUENCE: STATE, CNTY CODE, SITE NAME

EVENTS: ALL

EPA ID NO.	SITE NAME STREET CITY COUNTY CODE AND NAME	STATE ZIP CONG DIST.	OPRBLE UNIT	EVENT TYPE	EVENT QUAL	ACTUAL START DATE	ACTUAL COMPL DATE	CURRENT EVENT LEAD
NED007275241	INLAND MANUFACTURING CO 1108 JACKSON ST OMAHA 055 DOUGLAS	NE 68102	00	DS1 PA1	NFA	11/01/84	08/01/80 11/01/84	EPA (FUND) STATE(FUND)
NED980859862	LORENZ-MARCY STREET SITE 39TH & MARCY ST OMAHA 055 DOUGLAS	NE 68105	00	RV1 RV2 DS1 PA1	NFA	03/19/84 03/24/84	03/31/84 04/08/84 04/01/84 06/09/87	RESP. PARTY EPA (FUND) EPA (FUND) EPA (FUND)
NED007258213	MALNOVE 13434 F ST OMAHA 055 DOUGLAS	NE 68137	00	DS1 PA1 PA2		06/21/91 10/06/91	06/21/91 12/18/91 09/29/92	EPA (FUND) EPA (FUND) EPA (FUND)
NED980685457	MIDLANDS CHEMICAL CO 1521 N 11TH ST OMAHA 055 DOUGLAS	NE 68110	00	DS1 PA1 S11	NFA NFA		09/01/80 02/01/84 04/01/81	EPA (FUND) STATE(FUND) EPA (FUND)
NED045274552	MIDWEST PIPE CLEANING CORP INC 4343 S 67TH ST OMAHA 055 DOUGLAS	NE 68117	00	DS1 PA1	NFA		08/01/80 04/01/84	EPA (FUND) EPA (FUND)
NED035134154	MONARCH ASPHALT OILS INC 22ND & AVE H OMAHA 055 DOUGLAS	NE 68101	00	DS1 PA1	NFA		08/01/85 10/27/86	EPA (FUND) EPA (FUND)
NED045275260	NASHUA CORP 3838 S 108TH ST OMAHA 055 DOUGLAS	NE 68144	00	DS1 PA1	NFA	07/01/81	07/01/80 07/01/81	EPA (FUND) EPA (FUND)

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 U.S. EPA SUPERFUND PROGRAM  
 \*\* CERCLIS \*\*  
 LIST-8: SITE/EVENT LISTING

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 CERHELP DATA BASE DATE: N/A  
 CERHELP DATA BASE TIME: N/A

SELECTION: \*\* SPECIAL \*\*  
 SEQUENCE: STATE, CNTY CODE, SITE NAME

EVENTS: ALL

EPA ID NO.	SITE NAME STREET CITY COUNTY CODE AND NAME	STATE ZIP CONG DIST.	OPRBLE UNIT	EVENT TYPE	EVENT QUAL	ACTUAL START DATE	ACTUAL COMPL DATE	CURRENT EVENT LEAD
NE8170090031	NAVAL & MARINE CORP RESERVE CENTER 30TH & LAUREL OMAHA 055 DOUGLAS	NE 68111	00	DS1 PA1 PA2	NFA NFA	11/01/81 03/24/88	06/30/87 11/01/81 01/03/89	EPA (FUND) FED. FAC. FED. FAC.
NED007296171	NEBRASKA MACHINE PRODUCTS INC 9370 N 45TH ST OMAHA 055 DOUGLAS	NE 68112	00	DS1 PA1	NFA		12/01/80 11/01/84	EPA (FUND) STATE(FUND)
NEDJ00687087	OKLAHOMA BATTERY RECYCLING CO 7025 SARPY AVE OMAHA 055 DOUGLAS	NE 68147	00	DS1 PA1 SI1		11/01/84 09/06/89	11/01/84 11/01/84 12/11/89	EPA (FUND) STATE(FUND) STATE(FUND)
NED986370005	OMAHA CAR WASH 9500 CALHOUN RD OMAHA 055 DOUGLAS	NE 51510	00	RV1 DS1 PA1 SI1 AR1	NFA	07/03/90 09/20/90	07/11/90 06/18/90 01/02/91 01/02/91	EPA (FUND) EPA (FUND) EPA (FUND) EPA (FUND) EPA (FUND)
NED986367530	OMAHA GAS CO 20TH & CENTER ST OMAHA 055 DOUGLAS	NE 68102	00	DS1 PA1	NFA	06/30/89	08/02/88 09/14/89	EPA (FUND) EPA (FUND)
NED000822866	OMAHA PUBLIC POWER DISTRICT 4TH & MARCY ST OMAHA 055 DOUGLAS	NE 68108	00	DS1 PA1	NFA		08/01/80 04/01/84	EPA (FUND) EPA (FUND)
NED000822908	OMAHA PUBLIC POWER DISTRICT 24TH & CRAIG ST OMAHA 055 DOUGLAS	NE 68112	00	DS1 PA1	NFA		08/01/80 04/01/84	EPA (FUND) EPA (FUND)

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 LIST 8: SITE/EVENT LISTING

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SELECTION: \*\* SPECIAL \*\*  
 SEQUENCE: STATE, CNTY CODE, SITE NAME

EVENTS: ALL

EPA ID NO.	SITE NAME STREET CITY COUNTY CODE AND NAME	STATE CONG DIST.	ZIP	OPRBLE UNIT	EVENT TYPE	EVENT QUAL	ACTUAL START DATE	ACTUAL COMPL DATE	CURRENT EVENT LEAD
NED980630354	OMAHA SHOT & LEAD 2810 A ST OMAHA 055 DOUGLAS	NE	68105	00	DS1 PA1 SI1 SI2	NFA NFA	02/01/83 03/31/88	06/01/81 02/01/83 03/01/83 09/30/88	EPA (FUND) EPA (FUND) EPA (FUND) STATE(FUND)
NED986386845	PIPE & PILING SUPPLIES 14110 GILES RD OMAHA 055 DOUGLAS	NE	68113	00	DS1			10/24/92	EPA (FUND)
NED980630289	POND, MAURICE L SITE 13305 N 47TH ST OMAHA 055 DOUGLAS	NE	68152	00	DS1 PA1 SI1	NFA	03/01/84	06/01/81 01/01/84 04/01/84	EPA (FUND) EPA (FUND) EPA (FUND)
NED007264807	RAPID PRINT & MAIL 9320 J ST OMAHA 055 DOUGLAS	NE	68127	00	DS1 PA1		06/21/91	06/21/91	EPA (FUND) EPA (FUND)
NED020185138	SAFETY KLEEN CORP 14564 GROVER ST OMAHA 055 DOUGLAS	NE	68144	00	DS1 PA1			02/09/88 08/31/92	EPA (FUND) EPA (FUND)
NED078008019	SARPY COUNTY LANDFILL 8902 CEDAR ISLAND RD PAPILLION 055 DOUGLAS	NE	68046	00	DS1 PA1	NFA	04/01/84	11/01/79 04/01/84	EPA (FUND) STATE(FUND)
NED980503254	SARPY COUNTY LANDFILL 1 4930 CAPEHART RD OMAHA 055 DOUGLAS	NE	68123	00	DS1 PA1	NFA	04/01/84	11/01/79 04/01/84	EPA (FUND) STATE(FUND)



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 LIST 08: SITE/EVENT LISTING

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SELECTION: \*\* SPECIAL \*\*  
 SEQUENCE: STATE, CNTY CODE, SITE NAME

EVENTS: ALL

EPA ID NO.	SITE NAME STREET CITY COUNTY CODE AND NAME	STATE ZIP CONG DIST.	OPRBLE UNIT	EVENT TYPE	EVENT QUAL	ACTUAL START DATE	ACTUAL COMPL DATE	CURRENT EVENT LEAD
NED980503262	SARPY COUNTY LANDFILL 2 8902 CEDAR ISLAND RD OMAHA 055 DOUGLAS	NE 68147	00	DS1 PA1	NFA	04/01/84	11/01/79 04/01/84	EPA (FUND) STATE(FUND)
NED0035144526	SHAFFER DISPLAYS INC 1325 PARK AVE OMAHA 055 DOUGLAS	NE 68105	00	DS1 PA1	NFA		08/01/80 02/01/84	EPA (FUND) STATE(FUND)
NED980859797	SILLICK, FRANK LANDFILL 2510 N 18TH ST E OMAHA 055 DOUGLAS	NE 68110	00	DS1 PA1 PA2 SI1		11/01/84 06/24/88 02/27/89	04/01/84 11/01/84 10/06/88 09/26/89	EPA (FUND) STATE(FUND) EPA (FUND) EPA (FUND)
NED078041928	SIMPLOT SOILBUILDERS 301 N FRONT ST WATERLOO 055 DOUGLAS	NE 68069	00	DS1 PA1	NFA		05/01/81 04/01/84	EPA (FUND) EPA (FUND)
NED062259551	ST JOSEPH HOSPITAL 601 N 30TH ST OMAHA 055 DOUGLAS	NE 68131	00	DS1 PA1	NFA		09/01/80 04/01/84	EPA (FUND) EPA (FUND)
NED007263486	STAUFFER CHEMICAL CO 4111 GIBSON RD OMAHA 055 DOUGLAS	NE 68107	00	DS1 PA1	NFA		11/01/79 10/01/81	EPA (FUND) EPA (FUND)
NED980633531	STAUFFER CHEMICAL CO 5TH & BANCROFT OMAHA 055 DOUGLAS	NE 68108	00	DS1 PA1	NFA		11/01/79 02/01/84	EPA (FUND) STATE(FUND)

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EVENTS: ALL

EPA_ID_NO.	SITE NAME STREET CITY COUNTY CODE AND NAME	STATE ZIP CONG DIST.	OPRBLE UNIT	EVENT TYPE	EVENT QUAL	ACTUAL START DATE	ACTUAL COMPL DATE	CURRENT EVENT LEAD
NED094681749	SWIFT ADHESIVES & COATINGS 9828 J ST OMAHA 055 DOUGLAS	NE 68107	00	DS1 PA1	NFA		06/01/81 02/01/84	EPA (FUND) STATE(FUND)
NED000610808	TOMANIO, MICHAEL P 851 S 28TH ST OMAHA 055 DOUGLAS	NE 68105	00	DS1 PA1	NFA		07/01/80 04/01/84	EPA (FUND) STATE(FUND)
NED072904675	UNARCO INDUSTRIES INC 13840 L ST OMAHA 055 DOUGLAS	NE 68137	00	DS1 PA1	NFA		08/01/80 04/01/84	EPA (FUND) EPA (FUND)
NED980685440	UNION PACIFIC RAILROAD PROPERTY 36TH & GILMORE RD OMAHA 055 DOUGLAS	NE 68147	00	DS1 PA1 S11	NFA NFA		07/01/81 04/01/84 03/01/82	EPA (FUND) STATE(FUND) EPA (FUND)
NE7210890029	US ARMY CORP OF ENGINEERS 420 S 10TH ST OMAHA 055 DOUGLAS	NE 68102	00	DS1			06/30/87	EPA (FUND)
NE3690390015	USCGC GASCOMADE (WLR75401) 9800 RIVER RD OMAHA 055 DOUGLAS	NE 68112	00	DS1			06/30/87	EPA (FUND)
NE4180090025	VEHICLE MAINTENANCE FACILITY 1124 PACIFIC ST OMAHA 055 DOUGLAS	NE 68109	00	DS1			06/30/87	EPA (FUND)

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EPA ID NO.	SITE NAME STREET CITY COUNTY CODE AND NAME	STATE ZIP CONG DIST.	OPRBLE UNIT	EVENT TYPE	EVENT QUAL	ACTUAL START DATE	ACTUAL COMPL DATE	CURRENT EVEBTL LEAD
NE3360010315	VETERANS ADMINISTRATION MEDICAL CENTER 4101 WOOLWORTH OMAHA 055 DOUGLAS	NE 68105	00	DS1 PA1	NFA	04/01/84	08/01/80 04/01/84	EPA (FUND) FED. FAC.
NED007286198	VICKERS 6600 N 72ND OMAHA 055 DOUGLAS	NE 68122	00	DS1 PA1 PA2		06/21/91 10/06/91	06/21/91 09/29/92	EPA (FUND) EPA (FUND) EPA (FUND)
NED986370013	WEHRSPANN LAKE PAPIO DAM SITE #2 MILLARD 055 DOUGLAS	NE 68144	00	DS1 PA1 SI1	NFA	09/27/90 11/01/90	04/16/90 12/20/90 02/01/91	EPA (FUND) EPA (FUND) EPA (FUND)
NED007259054	WESTERN ELECTRIC CO INC 120TH & I ST OMAHA 055 DOUGLAS	NE 68137	00	DS1 PA1	NFA		10/01/79 02/01/84	EPA (FUND) STATE(FUND)
NED041522632	WEYERHAEUSER CO SHIPPING CONTAINER PLANT 7517 F ST OMAHA 055 DOUGLAS	NE 68127	00	DS1 PA1	NFA		08/01/80 11/01/84	EPA (FUND) STATE(FUND)
NED040917569	WILLIAMS PIPE LINE CO - OMAHA 7TH & YATES OMAHA 055 DOUGLAS	NE 68110	00	DS1 PA1 SI1 SI2	NFA	03/01/84	06/01/81 03/01/84 05/01/84 10/28/91	EPA (FUND) EPA (FUND) EPA (FUND) EPA (FUND)
NED980685432	YOSTEN, KEITH RESIDENCE 3120 N 58TH ST OMAHA 055 DOUGLAS	NE 68104	00	DS1 PA1	NFA		06/01/80 02/01/84	EPA (FUND) STATE(FUND)

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EPA ID NO.	SITE NAME STREET CITY COUNTY CODE AND NAME	STATE ZIP CONG DIST.	OPRBLE UNIT	EVENT TYPE	EVENT QUAL	ACTUAL START DATE	ACTUAL COMPL DATE	CURRENT EVENT LEAD
NED980503288	CITY WIDE ROCK & EXCAVATION HWY 370 & 42ND ST BELLEVUE 153 SARPY	NE 68005	00	DS1 PA1	NFA		04/01/79 02/01/84	EPA (FUND) STATE(FUND)
NE9570090036	EHRLING BERGQUIST STRATEGIC HOSPITAL CAPEHART RD & 25TH ST BELLEVUE 153 SARPY	NE 68005	00	DS1			03/30/91	EPA (FUND)
NE8571924648	OFFUTT AIR FORCE BASE 3902 ABW/DEEV OFFUTT AFB 153 SARPY	NE 68113	00	DS1 PA1 SI1		08/01/85	08/01/80 10/01/81 12/18/89	EPA (FUND) FED. FAC. EPA (FUND)
NED000640219	OMAHA WWTP PAPILLION CREEK PLANT 15705 HARLAND LEWIS RD BELLEVUE 153 SARPY	NE 68005	00	DS1 PA1	NFA		11/01/79 03/01/84	EPA (FUND) EPA (FUND)
NED986368918	WASHINGTON STREET BELLEVUE 301 WASHINGTON ST BELLEVUE 153 SARPY	NE 68005	00	DS1 PA1 SI1		11/16/89	07/27/89 12/15/89 03/31/92	EPA (FUND) STATE(FUND) STATE(FUND)
NED006970453	OMAHA PUBLIC POWER DISTRICT - FT CALHOUN HWY 73-75 5 MI N OF FT CALHOUN 177 WASHINGTON	NE 68023	00	DS1 PA1	NFA		08/01/80 04/01/84	EPA (FUND) EPA (FUND)
NET320010218	RADIUM PETROLEUM CO RR FT CALHOUN 177 WASHINGTON	NE 68023	00	DS1 PA1	NFA		11/01/80 02/01/84	EPA (FUND) STATE(FUND)

**APPENDIX K  
NPDES**

WATER COMPLIANCE - NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES)  
POINT SOURCE DISCHARGE

PERMIT NUMBER	FACILITY NAME	OWNERSHIP	NAME	ADDRESS	CITY	STATE	ZIP	COUNTY
NE0084719	BROMM CATTLE CO INC RR2	PRI	JOHN BROWN	RR 2	TEKAMAH	NE	68061	BURT
NE0049140	CRAIG WWTF	PUB			CRAIG			BURT
NE0049123	DECATUR WWTF	PUB	JACK DUNNING, MAYOR	P.O. BOX 156	DECATUR	NE	68020	BURT
NE0121444	JOHNSON OIL COMPANY	PRI	RONALD L. JOHNSON, OWNER	300 MAIN ST.	LYONS	NE	68038	BURT
NE0049182	LYONS WWTF	PUB	FLOYD A. BENSON, MAYOR	335 MAIN ST.	LYONS	NE	68038	BURT
NE0111520	OAKLAND WTP	PUB	CHESTER ANDREASEN, MAYOR	401 NORTH OAKLAND AVE.	OAKLAND	NE	68045	BURT
NE0024023	OAKLAND WWTF	PUB	CHESTER ANDREASEN, MAYOR	401 NO. OAKLAND AVE.	OAKLAND	NE	68045	BURT
NE0104485	S QUARTER CIRCLE FARM	PRI	MR. LELAND G. SUNDERMAN	ROUTE 2	LYONS	NE	68038	BURT
NE0123072	TEKAMAH WWTF	PUB	JAY F. BACON	13TH AND K	TEKAMAH	NE	68061	BURT
NE0039390	WESELY, ELDON D	PRI	ELDEN D. WESELY	ROUTE 1	OAKLAND	NE	68045	BURT
NE0113778	DAKOTA CITY WATER TRMT PLANT	PUB	RONALD BRUNTON, MAYOR	P.O. BOX 482	DAKOTA CITY	NE	68731	DAKOTA
NE0024236	DAKOTA CITY WWTF	PUB	RONALD BRUNTON, MAYOR	P.O. BOX 482	DAKOTA CITY	NE	68731	DAKOTA
NE0060356	DAKOTA FOUNDRY PROD. INC.		STAN ALBRECHT, PRESIDENT	W HWY 20	DAKOTA CITY	NE	68731	DAKOTA
NE0111406	EMERSON WTP	PUB	DICK MCCABE, UTIL. SUPT.	BOX 339	EMERSON	NE	68733	DAKOTA
NE0041351	EMERSON WWTF	PUB	DALE DETKEN, CHAIRPERSON	306 MAPLE STREET	EMERSON	NE	68733	DAKOTA
NE0121347	FREEWAY HOMES	PRI	RONALD NUTT, PARTNER	RR #1	SOUTH SIOUX CITY	NE	68776	DAKOTA
NE0025453	HOMER WWTF	PUB	BUD VASSAR, CHAIRMAN	P.O. BOX 328	HOMER	NE	68030	DAKOTA
NE0041319	HUBBARD WWTF	PUB	JAMES HARRAL, CHAIRMAN	IOWA ST.	HUBBARD	NE	68741	DAKOTA
NE0001392	IBP INC DAKOTA CITY	PRIM	R. GOODRICH, V.P. BEEF PROD.	HIGHWAY 35 SOUTH	DAKOTA CITY	NE	68731	DAKOTA
NE0044822	JACKSON WWTF							DAKOTA
NE0129437	LAKE VILLAGE WHEEL ESTATES							DAKOTA
NE0000841	NORTHERN NAT GAS SO SIOUX CITY	PRI	E D BERDINE AREA MANAGER	704 SECOND AVENUE	DES MOINES	IA	50309	DAKOTA
NE0122386	NORTHERN NATURAL GAS OF ENRON		LEO NICHOLS	1400 SMITH	HOUSTON	TX	772511188	DAKOTA
NE0112569	SOUTH SIOUX CITY WTP #1	PUB	DAVID A. LANE, PUB WRKS DIR	1615 DAKOTA AVENUE	SOUTH SIOUX CITY	NE	68776	DAKOTA
NE0110736	SOUTH SIOUX CITY WTP #2	PUB	DAVID A. LANE, PUB WRKS DIR	1615 DAKOTA AVENUE	SOUTH SIOUX CITY	NE	68776	DAKOTA
NE0000507	AMERICAN TELEPHONE & TELEGRAPH	PRIM	J.W. CARTER, V.P. MFG.	P.O. BOX 37000	OMAHA	NE	68137	DOUGLAS
NE0123889	BALLANTYNE OF OMAHA, INC.	PRI	RONALD ECHTENKAMP, PRESIDENT	4350 MCKINLEY	OMAHA	NE	68112	DOUGLAS
NE0024317	BENNINGTON WWTF	PUB	MR. WILLIAM BOHN, MAYOR	P.O. BOX 221	BENNINGTON	NE	68007	DOUGLAS
NE0052485	BIRCH LANE FEEDING	PRI	C FREDRICK KUEHL	5306 SOUTH 204TH	OMAHA	NE	68126	DOUGLAS
NE0110892	CARGILL INCORPORATED	PRI			OMAHA			DOUGLAS
NE0060283	CONTINENTAL CAN COMPANY		JACK CRAWFORD, LEG. AFFAIRS	921 11TH STREET, SUITE 902	SACRAMENTO	CA	95814	DOUGLAS
NE0123447	DAM SITE 18 WW. REC. PROJECT	PUB	P. J. MORGAN, MAYOR	1819 FARNAM STREET	OMAHA	NE	68183	DOUGLAS
NE0060071	DRAKE-WILLIAMS STEEL	PRI		2301 HICKORY STREET	OMAHA	NE	68108	DOUGLAS
NE0123960	DUPACO OF NEBRASKA INC.	PRI	MR. ROBERT NORTON, V.P.	5600 HARRY ANDERSON AVE.	OMAHA	NE	68137	DOUGLAS
NE0040096	ELKHORN WWTF	PUB	PHILLIP KLEIN, MAYOR	401 GLENN ST.	ELKHORN	NE	68022	DOUGLAS
NE0122041	ELLIOTT BEECHCRAFT OF OMAHA		MIKE ELLIS, LINE SERVICE MGR.		OMAHA AIRPORT AUTHORITY			DOUGLAS
NE0024031	FATHER FLANAGANS BOYS HOME	PRI	LEROY WITTROCK, UTIL. SUPT.	BOX 14	BOYS TOWN	NE	68010	DOUGLAS
NE0001031	FERER, AARON & SONS OMAHA	PRI			OMAHA			DOUGLAS
NE0030180	FRUEHAUF CORPORATION	PRI	IAN MACDOWALL, VP WELDED PROD.	P.O. BOX 14209	OMAHA	NE	68124	DOUGLAS
NE0128309	G&G MANUFACTURING COMPANY	PRI	LELAND GRASKE, EXEC. V.P.	4432 MCKINLEY STREET	OMAHA	NE	68112	DOUGLAS
NE0105422	GOTTSCH, ROBERT	PRI		931 PACIFIC			68022	DOUGLAS
NE0123846	GREAT PLAINS POLYMERS, INC.	PRI	LARRY HALLDORSON, PRESIDENT	3385 NORTH 88TH PLAZA	OMAHA	NE	68134	DOUGLAS
NE0112186	HI LAND MOBILE HOME PARK INC	PRI	BERNARD W. BUSH, PROPERTY MGR.	20600 WEST DODGE ROAD #65	ELKHORN	NE	68022	DOUGLAS
NE0024066	IBM	PRI						DOUGLAS
NE0113930	ICI AMERICANS - AGRI. PRODUCTS	PRI	JAMES HUDSON, VICE PRESIDENT	ROUTE 202	WILMINGTON	DE	19897	DOUGLAS
NE0114642	INDUSTRIAL PLATING	PRI	ALBERT CHICKINELLI, OWNER	1149 FLORENCE BLVD.	OMAHA	NE	68102	DOUGLAS
NE0110876	KNIGHTS OF AK-SAR-BEN	PRI	ROD WOLTER, DIR OF PHYS PLANT	AK-SAR-BEN FIELD	OMAHA	NE	68106	DOUGLAS
NE0123731	KOLEY'S INC.	PRI	E.W. KOLEY, PRESIDENT	2951-57 HARNEY STREET	OMAHA	NE	68131	DOUGLAS

WATER COMPLIANCE - NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES)  
POINT SOURCE DISCHARGE

PERMIT NUMBER	FACILITY NAME	OWNERSHIP	NAME	ADDRESS	CITY	STATE	ZIP	COUNTY
NE0129291	KUKER INDUSTRIES, INC.	PRI	JOHN PATTERSON, VICE PRESIDENT	13709 INDUSTRIAL ROAD	OMAHA	NE	68137	DOUGLAS
NE0060291	LACKAWANNA LEATHER COMPANY	PRI	BARRY SPAULDING, V.P. OF MFG.	2420 Z STREET	OMAHA	NE	68107	DOUGLAS
NE0113361	LAKE AERO WWTF	PRI			VALLEY			DOUGLAS
NE0114731	LOZIER CORP.-NORTH PLANT	PRI	JIM SEDLACEK, V.P. MANUFACT.	6336 PERSHING DRIVE	OMAHA	NE	68110	DOUGLAS
NE0114723	LOZIER CORP.-WEST PLANT	PRI	JIM SEDLACEK, V. P. MANUFACT.	6336 PERSHING DRIVE	OMAHA	NE	68110	DOUGLAS
NE0000914	M.U.D. FLORENCE WTP	PUB	J. P. LAFERLA, GENERAL MANAGER	1723 HARNEY STREET	OMAHA	NE	68102	DOUGLAS
NE0111775	M.U.D. TRUCK WASH	PUB	R.D. HAWES	1723 HARNEY STREET	OMAHA	NE	68102	DOUGLAS
NE0000370	MCCANN CONCRETE COMPANY	PRI			OMAHA			DOUGLAS
NE0124290	MILLARD MFG. CORP.	PRI	J. MICHAEL PRICE, V.P.	10602 OLIVE STREET	OMAHA	NE	68128	DOUGLAS
NE0001023	MILLARD WAREHOUSE	PRI	ROBERT J. SMOLA PRESIDENT	4715 S. 132ND STREET	OMAHA	NE	68137	DOUGLAS
NE0113476	MISSOURI PORTLAND CEMENT	PRI	ROBERT HINES	7711 CORODELETE AVE	ST LOUIS	MO	63105	DOUGLAS
NE0060178	MO RE CO IND. PLATING '1608'	PRI	LEO W. BENSCOTER, PRESIDENT	1608 WEBSTER AVE.	OMAHA	NE	68102	DOUGLAS
NE0060208	MO RE CO IND. PLATING '1619'	PRI	LEO W. BENSCOTER	1608 WEBSTER	OMAHA	NE	68102	DOUGLAS
NE0122602	MONARCH ASPHALT OILS INC.		MARV WALENZ	BOX 1257	OMAHA	NE	68101	DOUGLAS
NE0122025	NDOR FUEL DISCHARGE SITE	PUB	R.H. HEEDUM MAINT. MGR.	P.O. BOX 94759	LINCOLN	NE	68509	DOUGLAS
NE0113310	NDOR PLATTE RIVER EB RA	PUB	ROLAND H. HEEDUM	PO BOX 94759	LINCOLN	NE	68509	DOUGLAS
NE0127710	NIELSEN CONSTRUCTION	PRI	RAY NIELSEN, PRESIDENT	ROUTE 1	WATERLOO	NE	68061	DOUGLAS
NE0111848	OMAHA AIRPORT AUTHORITY	PUB	RALPH B. HOLTSMANN, DIR.PLN/ENG	PLANNING & ENGINEERING SERV.P.	OMAHA	NE	68119	DOUGLAS
NE0123056	OMAHA ANTIQUE & JOB PLATING CO	PRI	VAL CHICKINELLI	846 SO. 24TH ST.	OMAHA	NE	68108	DOUGLAS
NE0124001	OMAHA FIXTURE MANUFACTURING	PRI	JOEL ALPERSON, PRESIDENT	10320 "J" STREET	OMAHA	NE	68127	DOUGLAS
NE0036358	OMAHA MISSOURI RIVER WWTF	PUBM	P.J. MORGAN, MAYOR	1819 FARNAM STREET	OMAHA	NE	68102	DOUGLAS
NE0112810	OMAHA PAPIILLION CREEK WWTF	PUBM	P.J. MORGAN, MAYOR	1819 FARNAM STREET	OMAHA	NE	68123	DOUGLAS
NE0112453	OMAHA REGENCY MOBILE HOME PARK	PRI	PENNY GODOY, VICE PRESIDENT	40 N. 4TH STREET	CARBUNDALE	CO	81623	DOUGLAS
NE0000612	OPPD JONES ST	PUB	KENNETH FIELDING, V.P.	444 S. 16TH STREET MALL	OMAHA	NE	681022247	DOUGLAS
NE0000621	OPPD NORTH OMAHA STATION	PUBM	KENNETH FIELDING, V.P.	444 S. 16TH STREET MALL	OMAHA	NE	681022247	DOUGLAS
NE0000485	QO CHEMICALS, INC.	PRI	RONALD L. SMITH, V. P.	302 PIERCE STREET	OMAHA	NE	68108	DOUGLAS
NE0123374	RADIO ACCESSORY COMPANY	PRI	ROBERT HAYS, PRESIDENT/OWNER	6534 L ST	OMAHA	NE	68117	DOUGLAS
NE0111091	SCHERING ANIMAL HEALTH		KARL H. MEISTER, V. P.	1011 MORRIS AVENUE	UNION	NJ	07083	DOUGLAS
NE0114928	SCHERING ANIMAL HEALTH	PRI	RAMAN KAPUR, PRESIDENT	27COMMERCE DRIVE	CRANFORD	NJ	07016	DOUGLAS
NE0114863	SCHOLZ COMPANY	PRI	ROSS SCHOLZ, PRES.		RALSTON	NE	68127	DOUGLAS
NE0113981	SCNO TERMINAL CORP.	PRI	H. J. BOBZIEN, PRESIDENT	6801 N 9TH STREET	OMAHA	NE	68112	DOUGLAS
NE0114421	SEAGATE TECH. INC.	PRI	DUANE T. BIER, SR. DIRECTOR	11615 I STREET	OMAHA	NE	68137	DOUGLAS
NE0113077	SID #128, DOUGLAS COUNTY	PUB	CHARLES DENNE, CHAIRMAN	12208 N. 40TH STREET	OMAHA	NE	68112	DOUGLAS
NE0123498	SID #303 DOUGLAS COUNTY	PUB	DENNIS P. CIRO, CHAIRMAN	4611 SOUTH 96TH STREET	OMAHA	NE	68127	DOUGLAS
NE0123749	SID #57 DOUGLAS - CHAPEL HILL	PUB	BILLY DUNCAN, CHAIRMAN	933 SOUTH 217TH	ELKHORN	NE	68022	DOUGLAS
NE0112941	SID 126 DOUGLAS PACIFIC HGTS	PUB			OMAHA			DOUGLAS
NE0112577	SID 135 DOUGLAS COUNTRY SQUIRE	PUB	JOHN GREENE, CHAIRMAN	10915 N 61ST STREET	OMAHA	NE	68152	DOUGLAS
NE0112283	SID 177 DOUGLAS RIVERSIDE LAKE	PUB	DAN OVINN, CHAIRMAN	P.O. BOX 39	WATERLOO	NE	68069	DOUGLAS
NE0110728	SID 196 DOUGLAS GINGER COVE	PUB			VALLEY			DOUGLAS
NE0113085	SID 206 DOUGLAS ELDORADO	PUB	RON FRANK	14747 CALIFORNIA STREET	OMAHA	NE	68514	DOUGLAS
NE0112551	SID 254 DOUGLAS GINGER WOODS	PUB	GIL KETTLEHUT, CHAIRMAN	67 GINGER WOODS ROAD	VALLEY	NE	68064	DOUGLAS
NE0112429	SID 258 DOUGLAS CAROT MOBILE	PUB	EMILY MATTOX, CHAIRMAN	912 NO. 168TH STREET	OMAHA	NE	68118	DOUGLAS
NE0122033	SKY HARBOR		JOE HASCROFT,LINE MANAGER		OMAHA AIRPORT AUTHORITY			DOUGLAS
NE0123811	SKYLINE WOODS COUNTRY CLUB	PRI	MR. DENNIS P. CIRCO	4611 SOUTH 96TH STREET	OMAHA	NE	68127	DOUGLAS
NE0120669	SMART, JIM	PRI	JIM SMART	9404 STATE STREET	OMAHA	NE	68122	DOUGLAS
NE0060275	SPECIAL METAL SERVICES, INC.	PRI	HAROLD A. WHITBECK, PRESIDENT	3701 N. 16TH STREET	OMAHA	NE	68110	DOUGLAS
NE0122980	SUD'S CITY CAR WASH	PRI	BEVERLY CAMPAGNA	11409 DAVENPORT	OMAHA	NE	68154	DOUGLAS

WATER COMPLIANCE - NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES)  
POINT SOURCE DISCHARGE

PERMIT NUMBER	FACILITY NAME	OWNERSHIP	NAME	ADDRESS	CITY	STATE	ZIP	COUNTY
NE0128139	SURFACE TECHNOLOGY INCORP.	PRI	F. RUSSEL NYMAN, PRESIDENT	8607 PARK DRIVE	OMAHA	NE	68127	DOUGLAS
NE0113611	THE DIAL CORPORATION	PRI	JACK SHEWMAKER, V.P. OPERATIONS	2000 AUCUTT RD.	MONTGOMERY	IL	60538	DOUGLAS
NE0037290	THE SNOW COMPANY	PRI	E. H. ELSTUN, PRES.	4350 MCKINLEY STREET	OMAHA	NE	68112	DOUGLAS
NE0113221	THOMAS FITZGERALD VETERANS	PRI	GERALD N. RHONE, ADMIN.	156TH AND WEST MAPLE ROAD	OMAHA	NE	68154	DOUGLAS
NE0114197	U.S. COAST GUARD-OMAHA	PUB	R.E. FRITZ, COMMANDER	1430 OLIVE	ST. LOUIS	MO	63103	DOUGLAS
NE0114871	UNION PACIFIC RAILROAD	PRI	WILLIAM WIMMER, AVP, ENV. MGR.	1416 DODGE STREET	OMAHA	NE	68179	DOUGLAS
NE0112381	UTA HALEE GIRLS VILLAGE	PUB	DENNIS MCCARVILLE, EXEC. DIR.	12625 CALHOUN ROAD	OMAHA	NE	68112	DOUGLAS
NE0030732	VALLEY WWTf	PUB	JOHN D. JOHNSON, MAYOR	210 NORTH LOCUST	VALLEY	NE	68064	DOUGLAS
NE0026565	VALMONT IND INC	PRIM	BRIAN STANLEY, V.P., TREASURER	WEST HIGHWAY 275	VALLEY	NE	68064	DOUGLAS
NE0123129	VICKERS INCORPORATED	PRI	R.G. WICKLINE, OPER. DIR.	6600 NORTH 72ND STREET	OMAHA	NE	68122	DOUGLAS
NE0102172	WALVOORD & SONS	PRI	WALVOORD & SONS	ROUTE 1	WATERLOO	NE	68069	DOUGLAS
NE0043311	WATERLOO WWTf	PUB	MICHAEL J. MCGINNESS	P.O. BOX 127	WATERLOO	NE	68069	DOUGLAS
NE0001040	ARCADIAN FERTILIZER, L.P.	PRIM	HERMAN J. BAKER, REG. DIR. MFG	3115 @ HIGHWAY 30	GEISMAR	LA	70734	SARPY
NE0039110	BELLEVUE WTP	PUB			BELLEVUE			SARPY
NE0036307	BELLEVUE WWTf #1	PUBM	INEZ BOYD, MAYOR	210 WEST MISSION STREET	BELLEVUE	NE	68005	SARPY
NE0123862	FLYING J TRAVEL PLAZA	PRI	JAMES WATERS, GENERAL MANAGER	15010 S. HWY 31	GRETNA	NE	68028	SARPY
NE0124079	GRETNA SAND & GRAVEL	PRI	ROBERT WINCHESTER, V.P.	2710 WYCLIFF ROAD	RALEIGH	NC	27622	SARPY
NE0041271	GRETNA WWTf	PUB	LOREN E. KATT, MAYOR	204 N. MCKENNA AVENUE	GRETNA	NE	68028	SARPY
NE0105791	HEISNER SR A M BOX 94	PRI					68059	SARPY
NE0103501	JOHNSON FEEDYARD INC ROUTE 1	PRI	EARLE JOHNSON	13902 SOUTH 105 STREET	PAPILLION	NE	68128	SARPY
NE0037818	LATHAM PHIL/ZIMMERMAN 535 S 2N	PRI		535 S2ND			68059	SARPY
NE0000906	M.U.D. PLATTE RIVER WTP	PUB	J. P. LAFERLA, GENERAL MANAGER	1723 HARNEY STREET	OMAHA	NE	68102	SARPY
NE0103551	MANN BILL RT 2	PRI	BILL MANN	13814 SOUTH 84TH	PAPILLION	NE	68128	SARPY
NE0127817	NEBRASKA CROSSING	PRI	STEVE BIEDERMAN	FRU-CON CONSTRUCTION CORP.	BALLWIN	MO	63022	SARPY
NE0001163	NPPD KRAMER STATION	PUB	HUGH G. PARRIS, V. P. PRODUCT.	P.O. BOX 499	COLUMBUS	NE	68602	SARPY
NE0123838	SARPY COUNTY SANITARY LANDFILL	PUB	ROBERT WOOLMAN, CHAIRPERSON	1210 GOLDEN GATE DRIVE	PAPILLION	NE	68046	SARPY
NE0038024	SCHRAM L P FEEDLOT ROUTE 1	PRI					68096	SARPY
NE0124427	SID #32 SARPY COUT-CORONADO TF	PUB	MR. ERIC B. WADDINGTON	10302 SOUTH 168TH STREET	OMAHA	NE	68136	SARPY
NE0129666	SID #48 SARPY CO.							SARPY
NE0129674	SID #52 SARPY CO/PRAIRIE CORN.							SARPY
NE0112038	SID 20 SARPY SOUTHERN VIEW	PUB	LUCIAN A. FLOTT, CHAIRMAN	2801 SANDRA ST.	OMAHA	NE	68147	SARPY
NE0112399	SID 23 SARPY WESTMONT	PUB	RICHARD G. LACY, CLERK	13517 MERCURY	PAPILLION	NE	68069	SARPY
NE0112275	SID 33 SARPY	PUB			OMAHA			SARPY
NE0112518	SID 67 SARPY NORMANDY HILLS	PUB	NICHOLAS WIELER, CHAIRMAN	15005 VERSAILLE ST.	OMAHA	NE	68123	SARPY
NE0113158	SID 97 SARPY HAWAIIAN VILLAGE	PUB	DENNIS NICHOLS, CHAIRMAN	13526 JEFFERSON CIRCLE	OMAHA	NE	68128	SARPY
NE0041343	SPRINGFIELD WWTf	PUB	DUANE E. NEITZEL, MAYOR	170 NORTH THIRD STREET	SPRINGFIELD	NE	68059	SARPY
NE0121843	SPRINGFIELD-PLATTEVIEW SR/JR		ROBERT DICKMAN, SUPERINTENDENT		SPRINGFIELD	NE	68059	SARPY
NE0037419	TIMMERMAN LEO & SONS	PRI					68059	SARPY
NE0000884	WILSON CONCRETE CO	PRI	CHARLES WILSON, PRESIDENT	200 COMMERCE DRIVE	RED OAK	IA	51566	SARPY
NE0124052	WILSON CONCRETE COMPANY	PRI	CHARLES WILSON, PRESIDENT	P.O. BOX 59	RED OAK	IA	51566	SARPY
NE0102211	CONNEALY FARMS INC	PRI					68067	THURSTON
NE0097268	GEORGE H ALBRECHT	PRI	GEORGE H ALBRECHT		THURSTON	NE	68062	THURSTON
NE0103055	GUSTAFSON K B RR 1	PRI					68784	THURSTON
NE0049247	LAWRENCE WELSH	PRI	LAWRENCE WELSH	RURAL ROUTE 1	WINNEBAGO	NE	68071	THURSTON
NE0060399	NATIONAL C MANUFACTURING	PRI	J. CHANEY, PRESIDENT	215 MAIN	PENDER	NE	68047	THURSTON
NE0103560	OLSON ALLEN	PRI	ALLEN OLSON	RURAL ROUTE	WINNEBAGO	NE	68071	THURSTON
NE0053601	OLSON GEORGE S RFD	PRI	GEORGE S. OLSON	RFD	WINNEBAGO	NE	68071	THURSTON



WATER COMPLIANCE - NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES)  
POINT SOURCE DISCHARGE

PERMIT NUMBER	FACILITY NAME	OWNERSHIP	NAME	ADDRESS	CITY	STATE	ZIP	COUNTY
NE0061263	OMA TRIBAL UTILITY COMMISSION	PUB	ARTHUR T MAY	P O BOX 456	MACY	NE	68039	THURSTON
NE0040908	PENDER WWTF	PUB	FRANK APPLETON, CHAIRMAN	PO BOX S	PENDER	NE	68047	THURSTON
NE0046302	ROSALIE WWTF	PUB	DON REIS, CHAIRMAN	210 POPLAR AVE.	ROASLIE	NE	68055	THURSTON
NE0031739	THURSTON WWTF							THURSTON
NE0021211	WALTHILL WWTF	PUB	STEVE DUNN, CHAIRMAN	100 FIRST AVE.	WALTHILL	NE	68067	THURSTON
NE0049166	ARLINGTON WWTF	PUB	LINDA D. THOMAS	1285 WEST DODGE	ARLINGTON	NE	68002	WASHINGTON
NE0113913	BLAIR WTP	PUB	JEROME JENNY, MAYOR	218 S 16TH STREET	BLAIR	NE	68008	WASHINGTON
NE0021482	BLAIR WWTF	PUBM	WARREN D. WHITAKER, DIR PUB WK	218 S 16TH STREET	BLAIR	NE	68008	WASHINGTON
NE0084433	CAMERON W C RR 1	PRI					68029	WASHINGTON
NE0060003	CIRCLE ENERGIES	PRI	VIC SCHLESINGER, CHIEF EX OFF	345 RIVERVIEW, SUITE 700	WICHITA	KS	67203	WASHINGTON
NE0129721	COUNTRY ESTATES MOBILE HOMES							WASHINGTON
NE0000663	FORT CALHOUN STONE COMPANY	PRI	JESS H. WRIGHT, PRESIDENT	P.O. BOX 284	BLAIR	NE	68008	WASHINGTON
NE0021113	FORT CALHOUN WWTF	PUB	LARRY HALFORD, MAYOR	P.O. BOX 448	FORT CALHOUN	NE	68023	WASHINGTON
NE0049107	HERMAN WWTF	PUB	SHEILA MARR, CHAIRPERSON	P.O. BOX 125	HERMAN	NE	68029	WASHINGTON
NE0060151	JEBCO	PRI		108 S. 12TH STREET	BLAIR	NE	68008	WASHINGTON
NE0024244	KENNARD WTP		LLOYD TODD, CHAIRPERSON		KENNARD	NE	68034	WASHINGTON
NE0122157	KENNARD WWTF	PUB	LLOYD TODD	P.O. BOX 151	KENNARD	NE	68034	WASHINGTON
NE0107433	LARRY MORAVEC	PRI	MR. LARRY MORAVEC	ROUTE 1	ARLINGTON	NE	68002	WASHINGTON
NE0000418	OPPD FORT CALHOUN STATION	PUBM	KENNETH FIELDING, V.P.	444 S. 16TH STREET MALL	OMAHA	NE	681022247	WASHINGTON
NE0120111	RHEA CATTLE CO	PRI						WASHINGTON
NE0107239	RUWE RAYMOND	PRI					68002	WASHINGTON
NE0111058	TERRA CHEMICALS INTERNATIONAL	PRI	MARTIN H. GROSS, V. P.	809 WEST VINE STREET	LIMA	OH	45802	WASHINGTON
NE0041688	WASHINGTON COUNTY CATTLE CO.	PRI	PAUL GROSSERODE, PRESIDENT	1800 SOUTH 77TH STREET	LINCOLN	NE	68506	WASHINGTON

**APPENDIX L  
ALL AG FACILITIES**

## ALL AG FACILITIES

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ID NUMBER	OPERATION	LEGAL DESCRIPTION	COUNTY	CONTROLS REQUIRED
31021	BROMM CATTLE CO INC	qtr, NW qtr, 13 SEC, 20N TWN, 09E RNG FEEDER CATTLE	BURT 9000	Y
31022	BROMM CATTLE CO INC	qtr, NE qtr, 11 SEC, 20N TWN, 09E RNG FEEDER CATTLE	BURT 400	C
31023	BROMM, DARYL	W2 qtr, NE qtr, 07 SEC, 20N TWN, 10E RNG FEEDER CATTLE	BURT 6000	Y
31072	SUNDERMAN, LELAND	SW qtr, SE qtr, 05 SEC, 23N TWN, 09E RNG FEEDER CATTLE	BURT 300	N
31073	SUNDERMAN, LELAND	SW qtr, SE qtr, 31 SEC, 24N TWN, 09E RNG SWINE	BURT 300	N
31081	WESELY, ELDEN D.	qtr, SE qtr, 22 SEC, 21N TWN, 08E RNG FEEDER CATTLE	BURT 1200	Y
31143	S QUARTER CIRCLE FARMS	SE qtr, NE qtr, 31 SEC, 24N TWN, 09E RNG FEEDER CATTLE	BURT 250	Y
31144	SUNDERMAN, LELAND	NE qtr, NE qtr, 31 SEC, 24N TWN, 09E RNG BEEF CATTLE	BURT 60	N
31157	EXCEL PORK-SOUTH	NE qtr, SE qtr, 36 SEC, 24N TWN, 08E RNG SWINE	BURT 3200	Y
31176	BROMM, DARYL	NE qtr, NE qtr, 26 SEC, 21N TWN, 10E RNG FEEDER CATTLE	BURT 300	N
31177	BROMM, DARYL	NW qtr, SW qtr, 26 SEC, 21N TWN, 10E RNG FEEDER CATTLE	BURT 350	N
31182	RIDDELL FARMS INC	NE qtr, NW qtr, 30 SEC, 22N TWN, 09E RNG SWINE	BURT 900	Y
31184	HANSEN, WAYNE	SW qtr, NE qtr, 16 SEC, 21N TWN, 10E RNG FEEDER CATTLE	BURT 3000	Y
31190	SCHELKOPF, STERLING	SE qtr, NE qtr, 33 SEC, 21N TWN, 08E RNG	BURT	Y

ALL AG FACILITIES

ID NUMBER	OPERATION	LEGAL DESCRIPTION	COUNTY	CONTROLS REQUIRED
		SWINE	1500	
31191	RIDDELL FARMS INC.	SE qtr, NE qtr, 34 SEC, 22N TWN, 09E RNG SWINE	BURT 1920	Y
31193	KACZOR, SUSAN	S2 qtr, SW qtr, 26 SEC, 22N TWN, 08E RNG SWINE	BURT 1600	Y

## ALL AG FACILITIES

ID NUMBER	OPERATION	LEGAL DESCRIPTION	COUNTY	CONTROLS REQUIRED
29097	FUCHS, LARRY	NW qtr, NW qtr, 18 SEC, 18N TWN, 10E RNG DAIRY COWS	WASHINGTON 100	N
29098	WOLSMANN, JOHN	SW qtr, SW qtr, 27 SEC, 18N TWN, 11E RNG SWINE	WASHINGTON 200	Y
29099	HILGENKAMP FARMS, INC.	SW qtr, NW qtr, 29 SEC, 18N TWN, 10E RNG DAIRY COWS	WASHINGTON 450	Y
29100	TRI-N, INC.	NE qtr, NE qtr, 14 SEC, 19N TWN, 10E RNG SWINE	WASHINGTON 720	Y
29101	ANDREASEN, RICK	qtr, SW qtr, 10 SEC, 18N TWN, 10E RNG FEEDER CATTLE	WASHINGTON 600	N
29102	TOEBBEN, ROBERT	NE qtr, NW qtr, 15 SEC, 18N TWN, 10E RNG FEEDER CATTLE	WASHINGTON 1500	Y

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ALL AG FACILITIES

ID NUMBER	OPERATION	LEGAL DESCRIPTION	COUNTY	CONTROLS REQUIRED
70018	EBEL, LARRY	SE qtr, NE qtr, 35 SEC, 29N TWN, 08E RNG DAIRY COWS	DAKOTA 130	Y
70020	KAYL, GARY	NE qtr, NW qtr, 02 SEC, 29N TWN, 06E RNG FEEDER CATTLE	DAKOTA 100	Y
70033	MORGAN, LARRY	SW qtr, SE qtr, 16 SEC, 28N TWN, 07E RNG SWINE	DAKOTA 850	Y
70034	MESSERSCHMIDT, RONALD	SE qtr, NE qtr, 03 SEC, 27N TWN, 06E RNG SWINE	DAKOTA 1100	Y
70035	BARTELS, ROGER	SW qtr, SE qtr, 28 SEC, 28N TWN, 04W RNG SWINE	DAKOTA 897	Y
70036	ROHDE, DENNIS	qtr, SW qtr, 16 SEC, 27N TWN, 07E RNG SWINE	DAKOTA 3000	Y
70037	ALLIE FOX, INC	NW qtr, SW qtr, 10 SEC, 28N TWN, 06E RNG SWINE	DAKOTA 600	Y
70038	GENTRUP, DANIEL L.	SW qtr, SW qtr, 26 SEC, 28N TWN, 06E RNG SWINE	DAKOTA 220	Y

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ALL AG FACILITIES

ID NUMBER	OPERATION	LEGAL DESCRIPTION	COUNTY	CONTROLS REQUIRED
01C01	NEUHAUS, LARRY	SW qtr, NE qtr, 22 SEC, 16N TWN, 11E RNG	DOUGLAS	N
01C02	CITY OF OMAHA	qtr, qtr, SEC, TWN, RNG	DOUGLAS	N
01C03	CITY OF OMAHA	qtr, NW qtr, 19 SEC, 13N TWN, 14E RNG	DOUGLAS	Y
01C04	NE. COMPOST PRODUCTS	qtr, SW qtr, 04 SEC, 14N TWN, 13E RNG	DOUGLAS	N
01003	WALVOORD & SONS	qtr, N2 qtr, 34 SEC, 15N TWN, 10E RNG FEEDER CATTLE 500	DOUGLAS	Y
01012	WITT, DENNY	SE qtr, SW qtr, 07 SEC, 14N TWN, 11E RNG FEEDER CATTLE 1500	DOUGLAS	N
01075	SMART DAIRY	W2 qtr, SW qtr, 22 SEC, 16N TWN, 12E RNG DAIRY COWS 150	DOUGLAS	Y
01076	CAPCO	W2 qtr, NW qtr, 10 SEC, 16N TWN, 11E RNG FEEDER CATTLE 300	DOUGLAS	N
01077	LUIKART, ROBERT	SW qtr, SE qtr, 18 SEC, 16N TWN, 13E RNG HORSE 78	DOUGLAS	N
01078	MAGEE, WAYLAND	qtr, NE qtr, 29 SEC, 16N TWN, 11E RNG SWINE 805	DOUGLAS	Y

ALL AG FACILITIES

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ID NUMBER	OPERATION	LEGAL DESCRIPTION	COUNTY	CONTROLS REQUIRED
29001	RUWE, RAYMOND A.	qtr, SE qtr, 02 SEC, 18N TWN, 09E RNG FEEDER CATTLE	WASHINGTON 600	Y
29002	PETERSON, DUANE	qtr, SW qtr, 29 SEC, 19N TWN, 10E RNG BEEF CATTLE FEEDER CATTLE	WASHINGTON 30 70	Y
29007	MORAVEC, LARRY	SW qtr, SE qtr, 01 SEC, 18N TWN, 09E RNG FEEDER CATTLE	WASHINGTON 400	Y
29010	RHEA CATTLE CO	NW qtr, NW qtr, 10 SEC, 17N TWN, 10E RNG FEEDER CATTLE	WASHINGTON 4000	Y
29039	SPERLING, ELMER	SW qtr, SE qtr, 16 SEC, 17N TWN, 10E RNG FEEDER CATTLE SWINE	WASHINGTON 1200 400	C
29054	WASHINGTON COUNTY CATTLE CO	qtr, S2 qtr, 22 SEC, 18N TWN, 11E RNG FEEDER CATTLE	WASHINGTON 20000	Y
29059	CAMERON, WILLIAM	qtr, SW qtr, 34 SEC, 20N TWN, 10E RNG SWINE	WASHINGTON 500	N
29062	3 C'S INC.	qtr, NW qtr, 03 SEC, 19N TWN, 10E RNG SWINE	WASHINGTON 1000	Y
29092	CAMERON FARMS	NW qtr, NW qtr, 10 SEC, 19N TWN, 10E RNG SWINE	WASHINGTON 1500	Y
29093	SCHNEIDER, DANIEL	NE qtr, NE qtr, 21 SEC, 17N TWN, 11E RNG SWINE	WASHINGTON 525	Y
29094	LARSON, LARRY(BLAIR PIG)	N2 qtr, SW qtr, 05 SEC, 18N TWN, 11E RNG SWINE	WASHINGTON 12000	Y
29095	HAGERBAUMER, ALDEN	qtr, NW qtr, 28 SEC, 19N TWN, 09E RNG SWINE	WASHINGTON 900	Y
29096	SCHWEERS, TOM	NE qtr, SE qtr, 11 SEC, 18N TWN, 10E RNG SWINE	WASHINGTON 450	Y



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## ALL AG FACILITIES

ID NUMBER	OPERATION	LEGAL DESCRIPTION	COUNTY	CONTROLS REQUIRED
59001	SARPY CO. LANDFILL	qtr, NE qtr, 15 SEC, 13N TWN, 11E RNG	SARPY	N
59001	L. P. SCHRAM FEEDLOT, INC.	SW qtr, SW qtr, 33 SEC, 14N TWN, 12E RNG FEEDER CATTLE 4000	SARPY	Y
59002	ZIMMERMAN FEED YARDS, INC.	qtr, SW qtr, 24 SEC, 13N TWN, 11E RNG FEEDER CATTLE 5000	SARPY	Y
59006	JOHNSON FEEDYARD, INC.	SW qtr, SW qtr, 09 SEC, 13N TWN, 12E RNG FEEDER CATTLE 1200	SARPY	Y
59007	LAMPRECHT, LAVERNE	SW qtr, SW qtr, 15 SEC, 14N TWN, 11E RNG DAIRY COWS 60	SARPY	Y
59008	MANN, BILL	qtr, SE qtr, 10 SEC, 13N TWN, 12E RNG FEEDER CATTLE 400 SHEEP 2000	SARPY	Y
59014	WEETH, RODNEY	NW qtr, NW qtr, 01 SEC, 13N TWN, 10E RNG FEEDER CATTLE 1200	SARPY	N
59054	TIMMERMAN & SONS FEEDING CO	qtr, N2 qtr, 21 SEC, 13N TWN, 11E RNG FEEDER CATTLE 18000	SARPY	Y
59055	LATHAM, MRS JAMES P.	E2 qtr, NW qtr, 25 SEC, 13N TWN, 11E RNG FEEDER CATTLE 700	SARPY	N
59056	LATHAM, MRS JAMES P.	SW qtr, SW qtr, 24 SEC, 13N TWN, 11E RNG FEEDER CATTLE 750	SARPY	N
59075	RUDOLPH, HARRY	SE qtr, NE qtr, 21 SEC, 13N TWN, 12E RNG FEEDER CATTLE 300	SARPY	C
59076	STOLTENBERG, GEORGE	NW qtr, NW qtr, 21 SEC, 13N TWN, 13W RNG SWINE 2000	SARPY	Y
59079	WEETH FARM ACCOUNT	E2 qtr, NW qtr, 11 SEC, 13N TWN, 10E RNG SWINE 2900	SARPY	Y
59080	BEDEL & WILWERDING	qtr, SW qtr, 14 SEC, 13N TWN, 10E RNG	SARPY	Y

ALL AG FACILITIES

ID NUMBER	OPERATION	LEGAL DESCRIPTION	COUNTY	CONTROLS REQUIRED
		SWINE	800	
59081	OSTRANSKY, MARTY	SW qtr, NE qtr, 22 SEC, 14N TWN, 10E SWINE	RNG SARPY 300	N

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## ALL AG FACILITIES

ID NUMBER	OPERATION	LEGAL DESCRIPTION	COUNTY	CONTROLS REQUIRED
55002	GUSTAFSON, KENNETH B.	NE qtr, NW qtr, 23 SEC, 26N TWN, 05E RING FEEDER CATTLE SWINE	THURSTON	Y
55003	WELSH, LAWRENCE	NE qtr, NE qtr, 08 SEC, 26N TWN, 07E RING FEEDER CATTLE SWINE	THURSTON	Y
55008	CONNEALY FARMS, INC.	NW qtr, NW qtr, 02 SEC, 24N TWN, 08E RING FEEDER CATTLE	THURSTON	Y
55099	STAAB FARMS INC	E2 qtr, NE qtr, 30 SEC, 24N TWN, 10E RING SWINE	THURSTON	Y
55116	HABROCK AG INC	qtr, NE qtr, 12 SEC, 26N TWN, 05E RING FEEDER CATTLE	THURSTON	Y
55117	DARNELL, DENNIS	qtr, NE qtr, 12 SEC, 25N TWN, 07E RING SWINE	THURSTON	Y
55118	ROHDE, RODNEY	NW qtr, NE qtr, 22 SEC, 26N TWN, 06E RING SWINE	THURSTON	Y
55119	LUEDERS, DAVE	NE qtr, SE qtr, 09 SEC, 25N TWN, 06E RING SWINE	THURSTON	Y
55155	PENDER LIVESTOCK SALES	SW qtr, NE qtr, 26 SEC, 25N TWN, 06E RING	THURSTON	N

**APPENDIX M  
GLOSSARY**

## **GLOSSARY**

**ABANDONED WELL**--Any water well the use of which has been accomplished or permanently discontinued. Removal of any necessary operating equipment or a well which is in such a state of despair that continual use for the purpose for which it is constructed is impractical shall constitute evidence of abandonment.

**ANTHROPOGENIC**--Referring to environmental alterations resulting from the presence or activities of humans.

**AQUIFER**--a water-bearing stratum of rock or sediment capable of yielding supplies of water.

**AQUIFER, PRINCIPAL**--the aquifer or combination of related aquifers in a given area which is the important economic source of water to wells--has been used, perhaps inaccurately, as synonymous with groundwater reservoir. The term "principal aquifer" is extremely difficult to quantify. However, for this management plan, the principal aquifer will include both the Pleistocene sand and gravel deposits as well as the generally underlying Dakota sandstone formation.

**AVAILABLE WATER**--the portion of water in a soil that can be readily absorbed by plant roots.

**BEDROCK**--sequences of consolidated rock which outcrop at the surface of which underlie unconsolidated earth materials.

**GROUNDWATER**--water occupying voids within the saturated zone of a geologic stratum. This saturated zone is to be distinguished from an unsaturated or aeration zone where voids are filled with water and air.

**HARDNESS**--the amount of certain dissolved minerals in water. Carbonate hardness refers to the hardness caused by calcium and magnesium bicarbonate; noncarbonate hardness is caused by calcium sulfate, calcium chloride, magnesium sulfate, and magnesium chloride in water.

**HYDROGEOLOGY**--The science dealing with the occurrence of surface and groundwater, its utilization and its functions in modifying the earth, primarily by erosion and deposition.

**IRRIGATION METHODS**--the manner in which water is artificially applied to an area. Some of the methods of applying water are border strip, check-basin, corrugation, flooding, furrow, sprinkler, surge, trickle, and wild-flooding.

**LEACHING**--the downward transport of minerals in a soil by percolating water.

**LOESS**--a wind-blown deposit of silt having little or no stratification.

**PERCOLATION**--the downward movement of water through soil or other earth materials.

**PRECIPITATION**--water in the form of hail, mist, rain, sleet, or snow that falls to the earth's surface.

**RESERVOIR (GROUNDWATER)**--for any given area the subsurface storage space between the water table and the base of the principal aquifer--includes one or more aquifers and any associated fine-graded material (usually excludes any perched aquifer).

**SUBIRRIGATION**--Irrigation below the surface by a system of underground porous pipes.

**APPENDIX N**  
**PORTIONS OF THE NEBRASKA GROUNDWATER**  
**MANAGEMENT AND PROTECTION ACT**

**PORTIONS OF THE NEBRASKA GROUNDWATER MANAGEMENT AND  
PROTECTION ACT PERTAINING TO THE NATURAL RESOURCES DISTRICTS'  
GROUNDWATER MANAGEMENT PLAN**

46-656. Declaration of intent and purpose. The Legislature finds that groundwater is one of the most valuable natural resources in the state and that an adequate supply of groundwater is essential to the general welfare of the citizens of this state and to the present and future development of agriculture in the state. The Legislature recognizes its duty to define broad policy goals concerning the utilization and management of groundwater and to ensure local implementation of those goals. Every landowner shall be entitled to a reasonable and beneficial use of the groundwater underlying his or her land, subject to the provisions of Chapter 46, article 6, and the correlative rights of other landowner when the groundwater supply is insufficient for all users. The Legislature determines that the goal shall be to extend groundwater reservoir life to the greatest extent practicable, consistent with beneficial use of groundwater and best management practices.

The Legislature further recognizes and declares that the management, protections, and conservation of groundwater and the beneficial use thereof are essential to the economic prosperity and future well being of the state, and that the public interest demands procedures for the implementation of management practices to conserve and protect groundwater supplies and to prevent the pollution or inefficient or improper use thereof. The Legislature recognizes the need to provide for orderly management systems in areas where management of groundwater is necessary to achieve locally determined groundwater reservoir life goals and where available data, evidence, or other information indicated that present or potential groundwater conditions, including subirrigation conditions, require the designation of areas with special regulation of development and use.

Nothing in this act relating to the pollution of groundwater is intended to limit the powers of the Department of Environmental Control provided in Chapter 81, article 15. 46-673. 01. Management area designation; groundwater management plan; prepared; when; contents. Prior to January 1, 1986, each district shall prepare a groundwater management plan based upon the best available information and submit such plan to the director for review and approval. If on the operative date of this act a control or management area has been designated in a district, the district shall not be required to prepare a plan for the geographical area encompassed by such control or management area.

The plan shall include, but not be limited to, the identification to the extent possible of:

- (1) Proposed geographic and stratigraphic boundaries of the management area;
- (2) Groundwater supplies within the area including transmissivity, saturated thickness maps, and other groundwater reservoir information, if available;
- (3) Local recharge characteristics and rates from any sources, if available;



- (4) Average annual precipitation and the variations within the area;
- (5) Crop water needs within the area;
- (6) Current groundwater data collection programs;
- (7) Past, present, and potential groundwater use within the area;
- (8) Groundwater quality concerns within the area;
- (9) Proposed water conservation and supply augmentation programs for the area;
- (10) The availability of supplemental water supplies, including the opportunity for groundwater recharge;
- (11) The opportunity to integrate and coordinate the use of water from different sources of supply;
- (12) Groundwater management objectives, including a proposed groundwater reservoir life goal for the area;
- (13) The controls enumerated in sections 46-673.08 to 46-673.12 proposed to achieve the groundwater reservoir life goal, and the impact of such controls on the goal;
- (14) Existing subirrigation uses within the area; and
- (15) The relative economic value of different uses of groundwater proposed or existing within the area.

If the expenses incurred by a district preparing a groundwater management plan exceed twenty-five percent of the district's current budget, the district may make application to the Nebraska Resources Development Fund for assistance.

46-673.02. Groundwater management plan preparation; district; solicit and utilize information. During preparation of a groundwater management plan, the district shall actively solicit public comments and opinions, and shall utilize and draw upon existing research, data, studies, or any other information which has been compiled by, or is in the possession of, state or Federal agencies, natural resources districts, or any other subdivision of the state. State agencies, districts, and other subdivisions shall furnish information or data upon the request of any district preparing such a plan. A district shall not be required to initiate new studies or data collection efforts, or to develop computer models, in order to prepare a plan.

46-673.03. Groundwater management plan; director; review; duties. The director shall review any groundwater management plan submitted by a district to ensure that the best available studies, data, and information were utilized and considered and that such plan

is supported by and is a reasonable application of such information. The director shall consult with the Conservation and Survey Division of the University of Nebraska, the Natural Resources Commission, and such other state or Federal agencies the director shall deem necessary when reviewing plans. Within ninety days after receipt of a plan, the director shall transmit his or her finding, conclusions, and reasons for approval or disapproval to the district submitting the plan.

**APPENDIX O**  
**REFERENCES**

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