



GROUND WATER INFORMATION MANAGEMENT IN NEBRASKA

Susan France, Water Administration Division
Nebraska Department of Natural Resources

May 17, 2005



Topics

- **How it started**
 - **Natural Resource Districts**
- **Overview of current system**
 - **Dissemination**
 - **Registration**
 - **User tools**
- **Areas that can be improved**
- **Future enhancements**

Current System Registration

- **Paper and digital registration**
- **Required information needed to determine well location**
 - **Township, range, section**
 - **subsection, footage, gps, or marked map**
- **Review by staff**
- **Entered into database**

Nebraska OnLine Registration

- **Dept. of Health and Human Service pays a yearly fee of \$50 per contractor using NOL**
- **Contractors receive a monthly bill for all wells they register through NOL**
- **Information is directly imported to groundwater system after review**

Dissemination


- Website with searchable tabular information, excluding municipal wells, updated daily
- Gis layer created daily

Home page

Nebraska Department of Natural Resources - Microsoft Internet Explorer

File Edit View Favorites Tools Help Google Search Web Options

Address <http://www.dnr.state.ne.us/>




NEBRASKA DEPARTMENT OF
NATURAL RESOURCES

The Nebraska Department of Natural Resources is dedicated to the sustainable use and proper management of the state's natural resources.

[Text Only Version!](#)

Agency Overview

Administrative/Legal	▶
Surface Water	▶
Ground Water	
Data Bank	GW Water Home
Field Offices	Well Registration (On-Line)
Planning & Assistance	GW Forms
Floodplain & Dam Safe	Registered GW Wells Data Retrieval
Resources Mgt Funds	GW Statutes
	GW Rules



Landsat

GW Database Internet

Groundwater home area

REGISTERED GROUNDWATER WELLS DATA RETRIEVAL - Microsoft Internet Explorer provided by NE Dept. of Water Resources

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print Mail

Address <http://dnrdata.dnr.state.ne.us/wellssql/> Go Links >>

REGISTERED GROUNDWATER WELLS DATA RETRIEVAL

Source: Nebraska Department of Natural Resources
Data Base Updated Through Oct 4 2004
Processed by: Nebraska Department of Natural Resources
(JH 5/01)

DATA RETRIEVAL

Following search options are available to retrieve well data. Select any option(s) for data listing.

Owner's Name	<input checked="" type="checkbox"/>
Owner's Address	<input type="checkbox"/>
County	<input type="checkbox"/>
Natural Resources District	<input type="checkbox"/>
Township Range Section	<input type="checkbox"/>
Registration Number	<input type="checkbox"/>
Well Type	<input type="checkbox"/>
Status Code	<input type="checkbox"/>
Well Filing Date	<input type="checkbox"/>
Well Completion Date	<input type="checkbox"/>
Submit	Reset

Other on-line options:
[To Register a New Ground Water Well, Click Here](#) (For well contractors only) **NEW**

Done Internet

Start Inbox - Microsoft Outlook OnTime - [Pam Bonebrig... REGISTERED GROUND... NDNR WIMS Pres.ppt << 3:21 PM

Search options

Well Search Parameter Entry - Microsoft Internet Explorer provided by NE Dept. of Water Resources

File Edit View Favorites Tools Help

Back Forward Stop Reload Home Search Favorites Media Print Mail Stop

Address <http://dnrdata.dnr.state.ne.us/wellsql/wellsearch.asp?name=1&county=1&nrd=1&trs=1> Go Links >>

Specify the Owner's Name/Company Name (or part name) as registered with the Nebraska Department of Natural Resources:

First Name:

Last Name:

Specify Township(enter 10 for 10North):

Range Number(enter 10 for 10West/East):

Range Letter(enter W for West and E for East):

and Section (enter 1 through 36):

Select the Natural Resource District(s) from the following list: (Use CTRL and Left Mouse button to select multiple list items)

Upper Big Blue
Lower Big Blue
Upper Elkhorn
Lower Elkhorn
Little Blue
Upper Loup
Lower Loup
Lewis and Clark

Select the county(ies) from the following list: (Use CTRL and Left Mouse button to select multiple list items)

Adams
Antelope
Arthur
Banner
Blaine
Boone
Box Butte
Boyd

Done Internet

Start | Inbox - Microsoft Outlook | OnTime - [Pam Bonebrig... | Well Search Paramet... | NDNR WIMS Pres.ppt | 3:27 PM

Search options

Well Search Parameter Entry - Microsoft Internet Explorer provided by NE Dept. of Water Resources

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print Mail

Address <http://dnrdata.dnr.state.ne.us/wellssq/wellsearch.asp?regnum=1&welltype=1&status=1&filing=1&completion=1> Go Links

Enter the complete registration number with six digits. (Example G-058784)

Registration Number:

Select the type(s) of well use from the following list: (Use CTRL and Left Mouse button to select multiple list items)

A - Aquaculture
C - Commercial/Industrial
D - Domestic
G - Ground Heat Exchanger

Select the type(s) of status code of the well from the following list: (Use CTRL and Left Mouse button to select multiple list items)

A - Active Registered Well
I - Inactive Well (Pump not installed)
S - Suspense (Replacement well, original well not yet abandoned)
X - Abandoned Well
Z - Inactive Suspense (Pump not installed, Replacement well, original well not yet abandoned)

Well Filing (Registration) Date as mm/dd/yyyy (Default is full period):

Specify Beginning Date: and Ending Date:

Well Completion Date as yyyy Year Only (Default is full period):

Specify Beginning Year: and Ending Year:

Submit Reset

Done Internet

Start | Inbox - Microsoft Outlook | OnTime - [Pam Bonebrig... | Well Search Paramet... | NDNR WIMS Pres.ppt | 3:29 PM

Results of search returns following:

REGISTERED GROUNDWATER WELLS DATA RETRIEVAL - Microsoft Internet Explorer provided by NE Dept. of Water Resources						
File Edit View Favorites Tools Help						
Back Forward Stop Home Search Favorites Media						
Address http://dnrdata.dnr.state.ne.us/wellsql/viewsq.asp?regnum=8&FilDateL=9%2F1%2F2004&FilDateH=9%2F7%2F2004&ComDateL=&ComDateH= Go Links >>						
Registration# Permit Number	Use Status	County Name NRD Name Well Location Footage	Completion Date Filing Date Abandoned Date Times Replaced	Acres Irrig Gallons/Min Static Level Pumping Level	Pump Col Dia Pump Depth Well Depth	Owner's Name and Address
G-129600 Other Info Logs View as PDF	S A	Banner North Platte 17N 53W 9 SESE 500N 1080W Map It	8/ 16/ 2004 9/7/2004 --- 0	--- 2 gpm 182 ft 231 ft	1.25 in 231 ft 270 ft	Dennis T Denovellis 1229 Illinois Street Sidney, NE 69162
G-129552 Other Info Logs View as PDF	I A	Box Butte Upper Niobrara-White 27N 51W 1 NWNE 1320S 1360W Map It	8/ 31/ 1989 9/2/2004 --- 0	135 acres 800 gpm 176 ft 210 ft	8 in 270 ft 370 ft	Robert W Wehtje 291 County Road 79 Hemingford, NE 69348
G-129532 CP1003051 Other Info Logs View as PDF	I A	Buffalo Central Platte 9N 15W 16 NENW 499S 2539E Map It	5/ 16/ 2004 9/1/2004 --- 0	150 acres 800 gpm --- 25 ft	8 in 160 ft 225 ft	Thomas & Theodore Larsen 11 West 44th Kearney, NE 68847
G-129583 CP1004002 Other Info Logs View as PDF	I A	Buffalo Central Platte 11N 17W 28 SENE 1368S 1319W Map It	4/ 18/ 2004 9/3/2004 --- 0	130 acres 800 gpm 102 ft 250 ft	8 in 260 ft 420 ft	Don Leeds 9055 Cottonmill Avenue Kearney, NE 68845
G-129576 Other Info Logs View as PDF	I A	Burt Papio-Missouri River 21N 11E 27 SENW 2641N 1335E Map It	3/ 11/ 2004 9/3/2004 --- 0	120 acres 700 gpm 8 ft 40 ft	8 in 40 ft 97 ft	Vince Quick 4220 County Road E Tekamah, NE 68061
G-129574 LPN-004521 Other Info Logs View as PDF	I I	Butler Lower Platte North 16N 3E 2 SENW 1778S 2293E Map It	4/ 7/ 2004 9/3/2004 --- 0	153 acres 350 gpm 9 ft ---	--- --- 35 ft	David & Jerry Proskovec 4470 O Road Bellwood, NE 68624
G-129536 LE-04082 Other Info Logs	I I	Cedar Lower Elkhorn 28N 3E 27 NW/NW	5/ 6/ 2004 9/1/2004 ---	130 acres --- 121 ft	--- --- 197 ft	Benjamin G Ebmeier Trust 203 Wakefield Box 98 Laurel, NE 68745

Wells Web Page Download

REGISTERED GROUNDWATER WELLS DATA RETRIEVAL - Microsoft Internet Explorer provided by NE Dept. of Water Resources

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Mail Print Link

Address http://dnrdata.dnr.state.ne.us/wellsql/viewsq.asp?nrd=20 Go Links >>

Registration# Permit Number Well Log	Use Status	County Name NRD Name Well Location Footage Latitude Longitude	Completion Date Filing Date Abandoned Date Times Replaced	Acres Irrig Gallons/Min Static Level Pumping Level	Pump Col Dia Pump Depth Well Depth	Owner's Name and Address
G-081160 Other Info Logs View as PDF	G A	Seward Lower Platte South 12N 4E 34 SESW 495N 1485W Map It	1/ 13/ 1994 4/20/1994 --- 0	--- --- --- ---	--- --- 150 ft	Scott D Pekarek 744 North 3rd Seward, NE 68434
G-127311 Other Info Logs View as PDF	D A	Seward Lower Platte South 12N 4E 36 NENW 581S 1496E Map It 40° 58' 18.80" 096° 55' 27.70"	4/ 30/ 2004 5/13/2004 --- 0	--- 15 gpm 44 ft 55 ft	1.25 in 60 ft 76 ft	Bob Herstein 7030 Woody Creek Circle Lincoln, NE 68516
G-127310 Other Info Logs View as PDF	D I	Seward Lower Platte South 12N 4E 36 NWNW 551S 1296E Map It 40° 58' 19.10" 096° 55' 30.30"	4/ 13/ 2004 5/13/2004 --- 0	--- --- 100 ft 120 ft	--- --- 280 ft	Bob Herstein 7030 Woody Creek Circle Lincoln, NE 68516

[Data copy of requested wells as Bar\(\) delimited file.](#)
[Data copy of Geo Logs for requested wells as Bar\(\) delimited file.](#)
[Data copy of Casing Screen for requested wells as Bar\(\) delimited file.](#)
[Data copy of Grout Gravel for requested wells as Bar\(\) delimited file.](#)
[Legend and Notes](#)

Done Internet

Start [Icons] [Inbox - Microsoft...] [Well Indexes, Re...] [Microsoft PowerP...] [OnTime - [Pam B...]] [REGISTERED G...]

11:20 AM

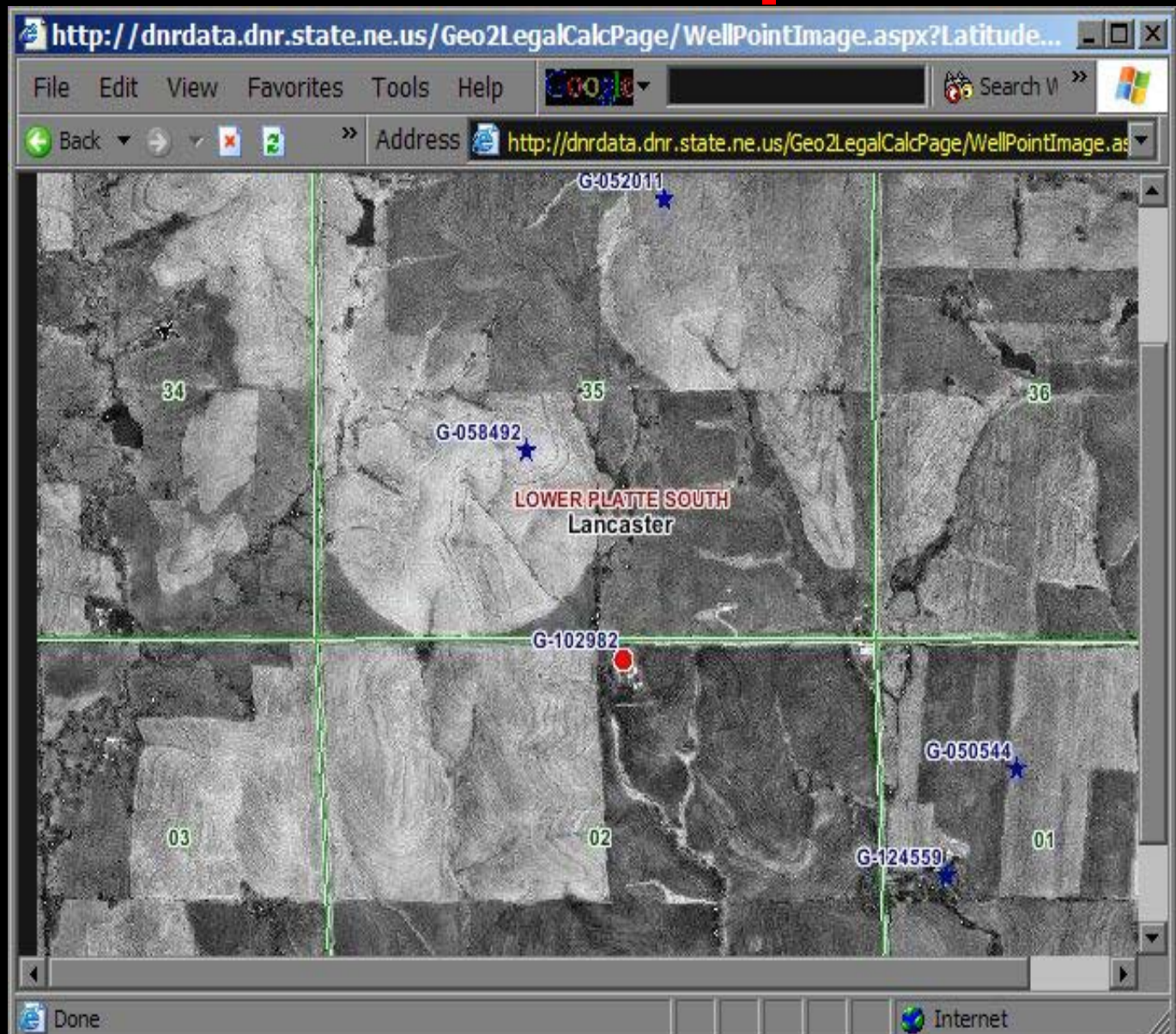
Tools

- **Mapit tool to display wells on aerial photograph**
- **Documents after 1-1-2004 are viewable online as pdf document**
- **Gps conversion to township range section**
- **Interactive Map**

Results of search returns following:

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File Edit View Favorites Tools Help						
Back Forward Stop Home Search Favorites Media						
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MapIT Tool



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File Edit View Favorites Tools Help						
Back Forward Stop Home Search Favorites Media						
Address http://dnrdata.dnr.state.ne.us/wellsql/viewsq.asp?regnum=8&FilDateL=9%2F1%2F2004&FilDateH=9%2F7%2F2004&ComDateL=&ComDateH= Go Links >>						
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Document listing by requesting View PDF

Documents for Water Well wellid = 153125

Date	Document Description
10/15/2003	NRD Ground Water Management Area Permit
9/1/2004	Correspondence
9/1/2004	Water Well Registration

*Only include documents processed on or after January 1, 2004
**Aerial Photographs can take several minutes to download

Done Internet

Start | Inbox - Microsoft Outlook | OnTime - [Pam Bonebrig... | http://dnrdata.dnr.s... | NDNR WIMS Pres.ppt | 3:30 PM

PDF document available on Web

http://dnrdata.dnr.state.ne.us/DNRDocumentScans/gwscans/16126109022004WWRF25839.pdf - Microsoft Internet Explorer provided by

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Address http://dnrdata.dnr.state.ne.us/DNRDocumentScans/gwscans/16126109022004WWRF25839.pdf Go Links

Save a Copy Select Text 119% Create an Adobe PDF online

STATE OF NEBRASKA
DEPARTMENT OF NATURAL RESOURCES
WATER WELL REGISTRATION

Fee Paid \$110.00 DNR Cash Fund \$18.50
HHSS Fee \$70.00 HHSS-DNR Cash Fun \$0.00
Get Billing 7858

FOR DEPARTMENT USE ONLY

NOL ID	109292574517118	NOL Status	Accepted	Well Status	A	Registration Code	C-129552	Add
Owner ID	35534	NOL Date	09/02/2004	Call Up Code		Registration Date	09/02/2004	Print
Seq Num	161261	Call Up Date						

09022004 - 161261 -WWRF Page 1 of 3

1a Owner's Name Robert W Wehtje
b Company Name
c Correspondent Name Attention Name
Address 281 CO Road 79
City Hemingford State NE Zip Code 69348 Phone 308 - 487 5340

2a HHSS Contractor Lic ID: 16593901 Contractor's Name: Loren C. Taylor
Contractor's License No: 3919401 Contractor's Email Address:
b Drilling Firm Name Charles Sargent Irrigation Inc - Alliance
Address P.O. Box 359
City Alliance State NE Zip Code 69301 Phone 800 - 310-4757
Drilling Firms Email Address sargent@premaonline.com

8.47 x 10.96 in 1 of 3

Done Internet

Start Inbox - Microsoft Outlook OnTime - [Pam Bonebrig... http://dnrdata.dnr.s... NDNR WIMS Pres.ppt 3:31 PM

More search options available

REGISTERED GROUNDWATER WELLS DATA RETRIEVAL - Microsoft Internet Explorer provided by NE Dept. of Water Resources

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print Mail

Address <http://dnrdata.dnr.state.ne.us/wellssql/> Go Links >>

Well Type	<input type="checkbox"/>
Status Code	<input type="checkbox"/>
Well Filing Date	<input type="checkbox"/>
Well Completion Date	<input type="checkbox"/>
Submit	Reset

Other on-line options:

- [To Register a New Ground Water Well, Click Here \(For well contractors only\)](#) **NEW**
- [To convert Latitude Longitude Coordinates to Township-Range-Section Location](#) **NEW**
- [To view map using Township-Range-Section location](#)
- [To view scanned images of Well Registration documents, click here](#)

[Download Agency Forms](#) **NEW**

[GIS Processing Site](#) to retrieve data in users' format.

[Select Wells from Interactive Map](#)

[Summary Report by County](#)

[Summary Report by NRD](#)

[Legend and Notes](#)

[Metadata](#)

Note:

Information on Public Water Supply Wells is not available through this interface. Contact the Department of Natural Resources (Data Bank) at 402-471-2363 for more information.

Start | Internet | 8:07 AM

Inbox - Microsoft Outlook | OnTime - [Pam Bonebri... | Well Indexes, Registra... | REGISTERED GROUN...

Converting Latitude and Longitude to Section-Township-Range

WebForm1 - Microsoft Internet Explorer provided by NE Dept. of Water Resources

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media

Address <http://dnrdata.dnr.state.ne.us/Geo2LegalCalcPage/> Go Links >>

State of Nebraska
Department of Natural Resources
Data Bank

Conversion From
Latitude Longitude Coordinates
to
Township-Range-Section Location

Enter Latitude and Longitude in Degrees, Minutes and Decimal Seconds as positive numbers. (For datum NAD83)

Latitude Example: 42 30 34.32

Longitude 101 10 12.56

Submit

Done Internet

Start Inbox - Microsoft Outlook OnTime - [Pam Bonebrig... WebForm1 - Microso... NDNR WIMS Pres.ppt 3:23 PM

Results from Latitude and Longitude to Section-Township-Range request

Calculate - Microsoft Internet Explorer provided by NE Dept. of Water Resources

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print Mail News RSS Feeds

Address <http://dnrdata.dnr.state.ne.us/Geo2LegalCalcPage/Calculate.aspx?latd=40&latm=24&latS=44.59&lonD=99&lonM=30&lonS=59.02> Go Links >>

Processed by State of Nebraska Department of Natural Resources Data(Bank) 10/5/2004 3:25:35 PM

Registration#: G-

Subsection: NESE Section: 7 Township: 5 Range: 19W

Footage: 1319 feet from the South section line and 1299 feet from the East section line.
(1319N 1299W)

Latitude: 40° 24' 44.59" Longitude: 99° 30' 59.02"

Click on the image to enlarge.

DISCLAIMER

The well location computations are based on calculated section corners, and not surveyed information or GPS coordinates. Therefore, **ALWAYS** check with the water well owner for the land description (including Footage, Quarter/Quarter, Section, Township, Range and County) of the property where the well is located. This computed well location information is for checking purposes only.

Done Internet

Start | Inbox - Microsoft Outlook | OnTime - [Pam Bonebrig... | Calculate - Microsoft... | NDNR WIMS Pres.ppt | 3:25 PM

Can enlarge map for printing

http://dnrdata.dnr.state.ne.us/Geo2LegalCalcPage/WellPointImage.aspx?Latitude=40.203139&Longitude=-99.507378 - Microsoft Internet Explorer p

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Mail Print

Address http://dnrdata.dnr.state.ne.us/Geo2LegalCalcPage/WellPointImage.aspx?Latitude=40.203139&Longitude=-99.507378 Go Links

LOWER REPUBLICAN Harlan

Done

Start

Inbox - Microsoft Outlook OnTime - [Pam Bonebrig...] http://dnrdata.dnr.s... NDNR WIMS Pres.ppt 3:28 PM

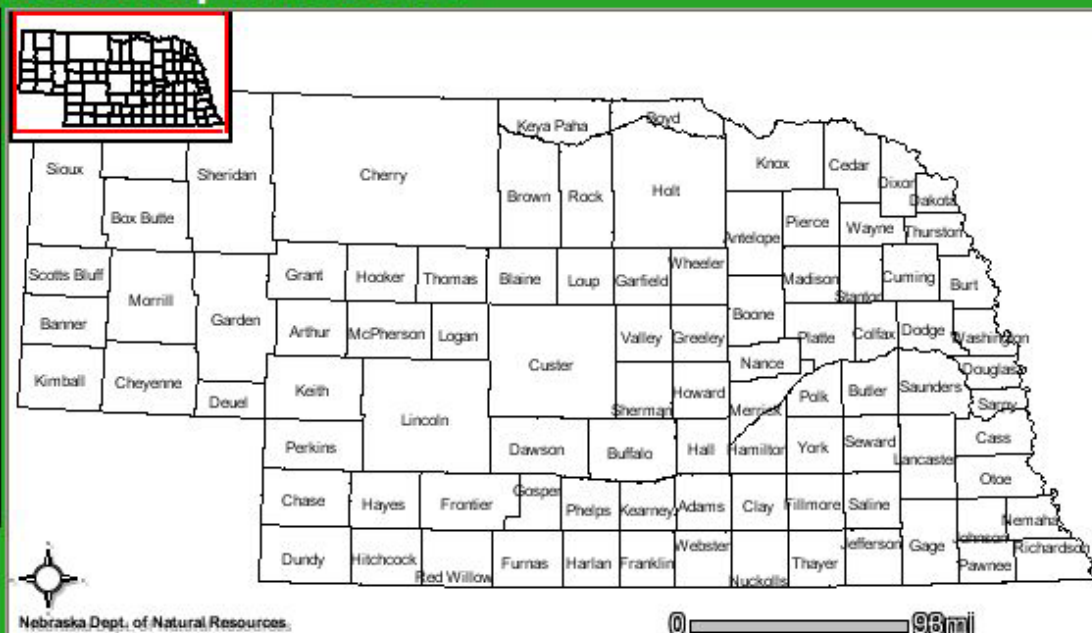
Interactive Map

Nebraska Map Interactive - Microsoft Internet Explorer

File Edit View Favorites Tools Help Google Search Web Options

Back Address <http://dnrserver26.dnr.state.ne.us/website/coqdem/viewer.htm> Links

Nebraska Map Interactive



Layers

Visible Active

- ☐ Cities
- ☒ county
- ☐ Major Highways
- ☐ Major Streams
- ☐ River Basin
- ☐ Hydrologic Units (8 digit)
- ☐ Latitude
- ☐ Longitude
- ☐ Quad (DEM)
- ☐ Quad Row
- ☐ Column
- ☐ Quarter Quad (COQQ)
- ☐ DOQQ on CD regions
- ☐ NRD Bound
- ☐ Township
- ☐ Range

Note: Public water supply wells are not displayed with the registered well database. For information about these public water supply wells, please contact the Department of Natural Resources (Data Bank) at 402-471-2363.

Zoom In Zoom to a County... HELP Lat/Long Tool Help

Map: 501998.2, 4816806.29 -- Image: 324, 3 -- ScaleFactor: 1336.725893479814 Internet

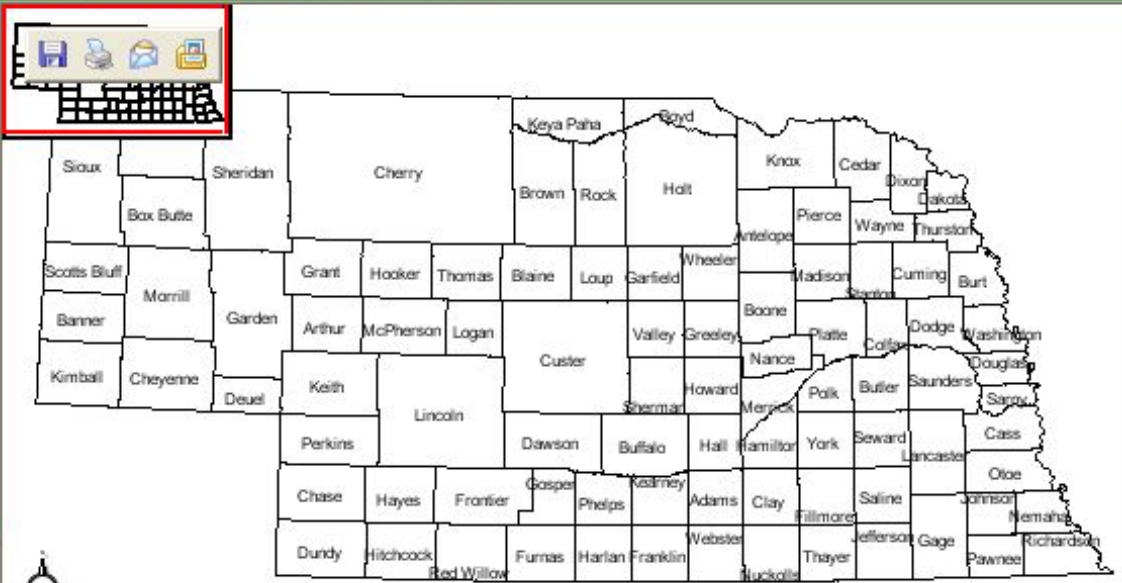
Well Location Tool

Nebraska Map Interactive - Microsoft Internet Explorer

File Edit View Favorites Tools Help Google Search Web Options

Back Address http://dnrserver26.dnr.state.ne.us/website/coqdem/viewer.htm Links

Nebraska Map Interactive



Layers

Visible Active

- ☐ Cities
- ☒ county
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- ☐ Column
- ☐ Quarter Quad (COQQ)
- ☐ DOQQ on CD regions
- ☐ NRD Bound
- ☐ Township
- ☐ Range

Nebraska Dept. of Natural Resources.

0 97mi

All Values must be positive.

Latitude: [] [] [] ([42] [30] [34.32])

Longitude: [] [] [] ([101] [10] [12.56])

Display Point Cancel

Identify Zoom to a County... HELP Lat/Long Tool Help

Map: 365812.76 , 4498499.19 -- Image: 226 , 235 -- ScaleFactor: 1390.7502061977431 Internet

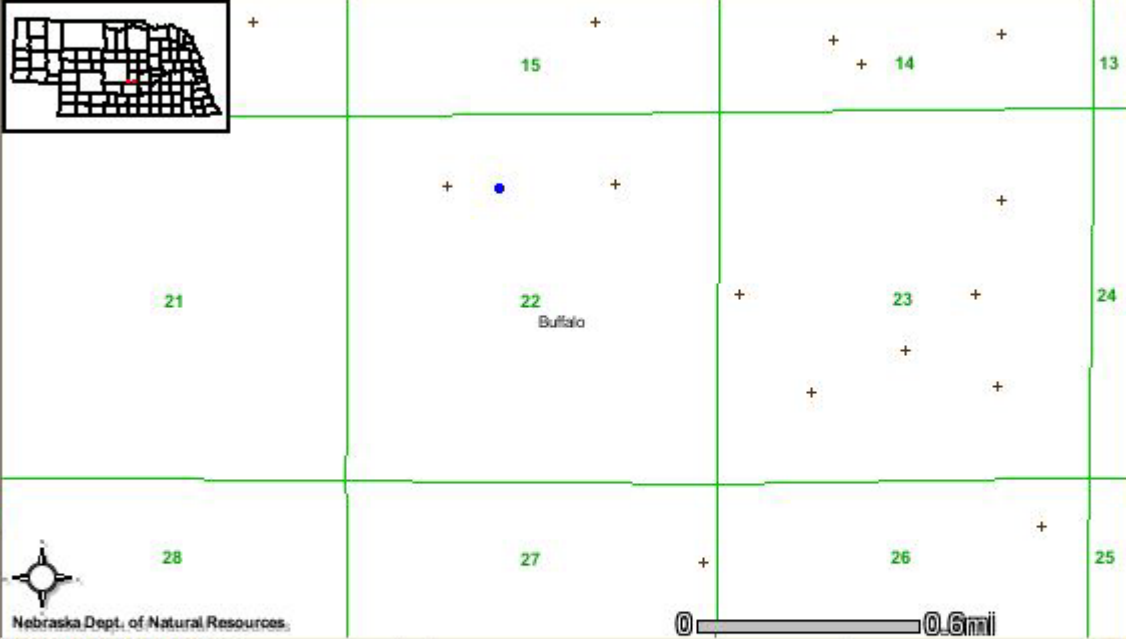
View Selected Point

Nebraska Map Interactive - Microsoft Internet Explorer

File Edit View Favorites Tools Help Google Search Web Options

Address <http://dnrserver26.dnr.state.ne.us/website/coqdem/viewer.htm> Links

Nebraska Map Interactive



Nebraska Dept. of Natural Resources

Registration# Subsection: **NENW** Section: **22** Township: **12** Range: **15W**
Footage: **1027** feet from the **North** section line and **2142** feet from the **West** section line.
(1027S 2142E)
Latitude: **41° 0' 0"** Longitude: **99° 0' 0"**

Zoom In Zoom to a County... [HELP](#) [Lat/Long Tool Help](#)

Layers

Visible Active

- ☐ Cities
- ☒ county
- ☐ Major Highways
- ☐ All Roads
- ☐ Secondary Roads
- ☐ Major Streams
- ☐ All Water
- ☐ River Basin
- ☐ Hydrologic Units (8 digit)
- ☐ HUC 11
- ☐ HUC-DNR
- ☐ Latitude Longitude
- ☐ Streams
- ☐ Quad (DEM)
- ☐ Quad Row Column

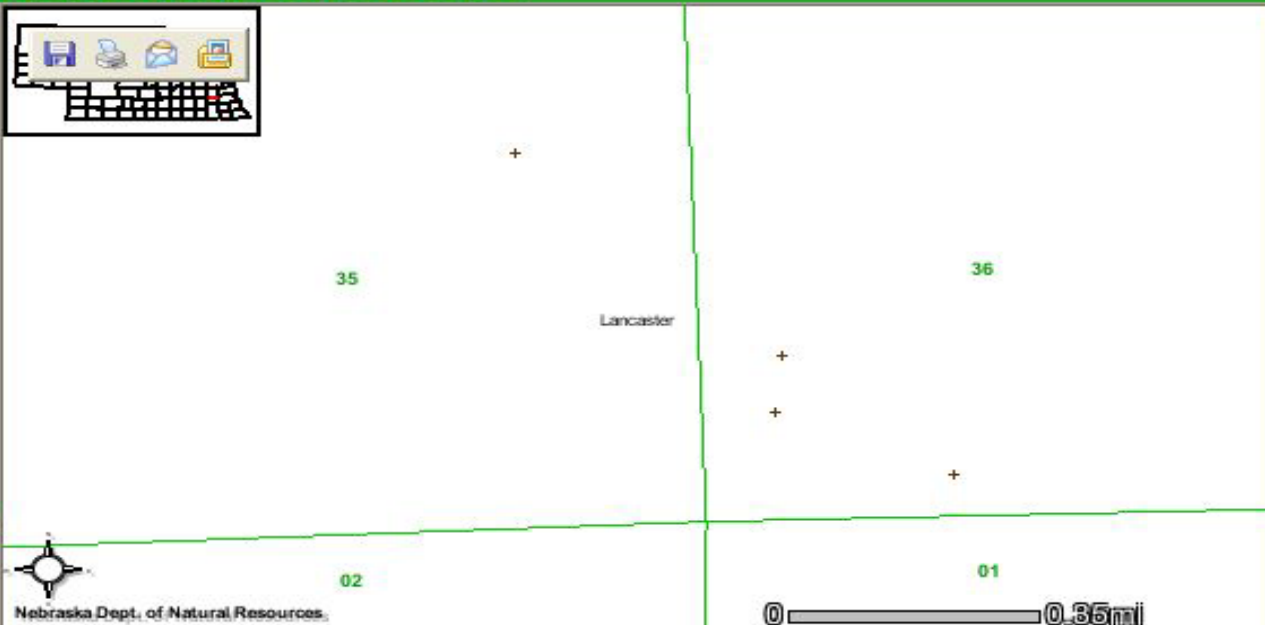
Selecting an Existing Well

Nebraska Map Interactive - Microsoft Internet Explorer

File Edit View Favorites Tools Help Google Search Web Options

Back Address <http://dnrserver26.dnr.state.ne.us/website/coqdem/viewer.htm> Links

Nebraska Map Interactive



Nebraska Dept. of Natural Resources.

Rec	OID	WellID	Reg Number	replacemnt	Status	Use	NRD Name	NRD No	County	County No	Township	Rar
1		154479	G-124687	0	A	D	Lower Platte South	20	Lancaster	55	8	7

Identify Zoom to a County... [HELP](#) [Lat/Long Tool Help](#)

Map: 703960.33 , 4498792.21 -- Image: 345 , 182 -- ScaleFactor: 4.9738737282455485 Internet

- ☐ HUC-DNR
- ☐ Latitude
- ☐ Longitude
- ☐ Streams
- ☐ Quad (DEM)
- ☐ Quad Row
- ☐ Column
- ☐ Quarter Quad (COQQ)
- ☐ DOQQ on CD regions
- ☐ NRD Bound
- ☐ Township
- ☐ Range
- ☒ Section Lines
- ☒ Registered Wells
- ☐ Zip Code
- ☐ Dam Inventory
- ☐ Shaded Relief

Refresh Map

Areas to Improve

- Calls concerning well location
- Sending maps to people, to mark well location

Mapping Section-Township-Range search

Legal2Geo - Microsoft Internet Explorer provided by NE Dept. of Water Resources

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media

Address <http://dnrdata.dnr.state.ne.us/Geo2LegalCalcPage/Legal2Map.aspx> Go Links

Display Legal Description

Township Range Error ex. 12E Section Subsection

NS Footage EW Footage

Done Internet

Start Inbox - Microsoft Outlook OnTime - [Pam Bonebrig... Microsoft PowerPoint - [...] Legal2Geo - Microsof... 4:27 PM

Mapping Section-Township-Range results

Legal2Geo - Microsoft Internet Explorer provided by NE Dept. of Water Resources

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media

Address <http://dnrdata.dnr.state.ne.us/Geo2LegalCalcPage/Legal2Map.aspx> Go Links >>

Display Legal Description

Township Range Section Subsection

NS Footage EW Footage

Display

LOWER PLATTE NORTH
Saunders

Done Internet

Start Inbox - Microsoft Outlook OnTime - [Pam Bonebrig... Microsoft PowerPoint - [...] Legal2Geo - Microsof... 4:28 PM

Future Enhancements

- **On-line modifications**
 - **Submit updates and corrections**
- **All documents scanned**
 - **Reduce amount of copies by not mailing to NRDs and Contractors**
- **Paperless**

Future Projects

- **Using ARCGIS Products**
- **Developing a Department wide Geodatabase**
- **Groundwater GIS layer**
 - **NRD requirements**
 - **Lawsuit requirements**
 - **LB962 requirements**



Thank You