

**Municipal, Industrial, and Domestic Water Use Database**

## Appendix 4-S.

### The COHYST Municipal and Industrial Database

The data were combined into a single database located in the “Combined” worksheet in the workbook “Mandldata through 2010.xlsm”. The data base consists of 128986 yearly data row vectors containing 17 pieces of information each and is available on the [COHYST Website](#).

The second column is a dummy variable describing the source and type of information contained in the vector. There are five types of data included in the data set:

1. Industrial Municipal – A combination of all industries that obtain their water from a municipal source
2. Domestic Municipal – The municipal withdrawals minus any industrial municipal withdrawals.
3. Self-Supplied Industrial – An industrial water user that obtains their withdrawals from privately owned wells
4. Self-Supplied Domestic – Domestic withdrawals from private wells
5. Discharges – Wastewater discharges into a stream at a known location

The first column describes the entity that is represented by the withdrawal or discharge data.

The form of the description depends upon the type of source:

1. The city supplying the water to the industry and a list of the companies receiving the water.
2. The city that is withdrawing the water
3. The well owner or company, the city closest to the well, and the county in which the well is located
4. The county and the COHYST cell in which the cell is located.
5. The name of the company (only for Industrial dischargers), city, and county

The third column of the database describes the withdrawal or discharge location. The location description is dependent upon the type of source.

1. The location describes the city from which the industries receive water.
2. The location describes the city that is withdrawing water.
3. The Well ID number which corresponds to the DNR well database.
4. The county in which the wells are located.
5. The legal description of the stream discharge point.

The fourth column in the database represents the COHYST cell number. This is the spatial location at which the withdrawal or discharge values are applied. The COHYST cell corresponds to the

location described in column three. The fifth column contains the year to which match the corresponding monthly values. Each entity has 26 years of monthly data from 1985 to 2010. The final 12 columns represent the monthly values for the given year. These values are reported in acre-feet.

Sites contributing to the database

**Industrial Municipal**

Cozad

Archer Daniels Midland Co.  
Island Dehy Co Inc.  
Monroe Auto Equipment Co.

Gothenburg

Baldwin Filters, Inc.  
G Tech, Inc.  
Gothenburg Feed Products Co.

Grand Island

Chief Automotive Systems Inc.  
Chief Buildings, Chief Custom Products  
Chief Fabrication  
Consolidated Concrete, Co  
Diamond Plastics Corp  
Electronic Displays Systems  
Hornady Manufacturing Company

Hastings

Consolidated Blenders Inc.

Kearney

Baldwin Filters  
Big Flag Farm Supply Inc.  
Chief Agri Industrial  
Dy-NA Tool & Mold, Inc  
L & S Industries, Inc  
West Company Inc.

Lexington

Eilers Machine and Welding  
Orthman Manufacturing, Inc

Tyson Fresh Meats, Inc.  
Veetronix, Inc.

North Platte

Masonite International Corp

Sutherland

Sutherland Industries

**Domestic Municipal**

Amherst, Buffalo County

Elm Creek, Buffalo County

Gibbon, Buffalo County

Kearney, Buffalo County

Miller, Buffalo County

Riverdale, Buffalo County

Shelton, Buffalo County

Cozad, Dawson County

Farnam, Dawson County

Gothenburg, Dawson County

Lexington, Dawson County

Overton, Dawson County

Sumner, Dawson County

Eustis, Frontier County

Elwood, Gosper County

Smithfield, Gosper County

Alda, Hall County

Cairo, Hall County

Doniphan, Hall County

Grand Island, Hall County

Wood River, Hall County

Axtell, Kearney County

Brule, Keith County

Ogallala, Keith County

Paxton, Keith County

Brady, Lincoln County

Hershey, Lincoln County

Maxwell, Lincoln County

North Platte, Lincoln County

Sutherland, Lincoln County

Central City, Merrick County

Clarks, Merrick County

Bertrand, Phelps County  
Funk, Phelps County  
Loomis, Phelps County  
Duncan, Platte County  
Hastings, Adams County  
Holdrege, Phelps County  
Minden, Kearney County  
McCook, Red Willow County  
Aurora, Hamilton County  
York, York County  
Superior, Nuckolls County  
Imperial, Chase County  
Sutton, Clay County  
Stromsburg, Polk County  
Grant, Perkins County  
Alma, Harlan

**Self-Supplied Industrial**

Werner Construction, Nuckolls County  
Wood Drive Dairy, Nuckolls County  
Werner Construction, Adams County  
US 30 Speedway, Platte County  
KCC Feeding, Kearney County  
Alma Golf Course, Harlan County  
AGP Corn Processing, Adams County  
Van Housen Feed Yards, Polk County  
Procter & Gamble, Hamilton County  
Nebraska Public Power, Buffalo County  
Pleasanton Golf Course, Buffalo County  
Hamilage Farms, Kearney County  
Nebraska Energy LLC, Hamilton County  
Agricultural Services, Hall County  
Peterson Supermarket, Dawson County  
Nitro Construction, Hall County  
Abengoa BioFuels, York County  
Gibbon Packing, Buffalo County  
Island Handlers, Hall County  
Nutra-Flo, Buffalo County  
Miscellaneous Industry  
Department of Roads Rest Areas:  
    (2) Sutherland, Lincoln County  
    (2) Brady, Lincoln County

- (2) Cozad, Dawson County
- (2) Kearney, Buffalo County
- (2) Grand Island, Hall County
- (2) Ogallala, Keith County
- (2) York, York County

**Partial and Fully included Counties for Self-Supplied Domestic**

Adams  
Arthur  
Buffalo  
Chase  
Clay  
Custer  
Dawson  
Franklin  
Frontier  
Furnas  
Gosper  
Hall  
Hamilton  
Harlan  
Hayes  
Hitchcock  
Howard  
Kearney  
Keith  
Lincoln  
Logan  
McPherson  
Merrick  
Nance  
Nuckolls  
Perkins  
Phelps  
Platte  
Polk  
Red Willow  
Webster  
York

**Wastewater Discharging Entities**

Chief Fabrication, Hall County  
Chief Buildings, Hall County

Chief Agri Industrial, Buffalo  
Chief Custom Products, Hall County  
Tyson Fresh Meats, Dawson County  
Monroe Auto Equipment, Dawson County  
Hornady Manufacturing, Hall County  
Brule, Keith County  
Nebraska Public Power – Kearney, Buffalo County  
Gibbon Packing, Buffalo County  
Ogallala, Keith County  
North Platte, Lincoln County  
Alda, Hall County  
Cozad, Dawson County  
Gibbon, Buffalo County  
Gothenburg, Dawson County  
Kearney, Buffalo County  
Lexington, Dawson County  
Wood River, Dawson County  
Minden, Kearney County  
York, York County  
Hastings, Adams County  
Holdrege, Phelps County  
Aurora, Hamilton County  
McCook, Red Willow County  
Stromsburg, Polk County  
Superior, Nuckolls County  
Grand Island, Hall County