

Datasets Used to Create Land Use Information

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The data sources used to create the COHYST 2010 updated land use dataset are listed in **Table 4-D-1**. The table also includes information about the associated agency, year(s) represented, format, scale and purpose of the data with regard to the creation of the new land use dataset.

Table 4-D-1: A listing of all data sources used to create the COHYST 2010 land use dataset.

Dataset	Source	Year(s)	Format	Scale	Purpose
Census of Agriculture	USDA National Agricultural Statistics Service	1950, 1954, 1959, 1964, 1969, 1974, 1978, 1982, 1987, 1992, 1997, 2002, 2007	Tabular	County	Crop type proportions, adjustment of dryland/irrigated acres
Land Cover Datasets	CALMIT	1982, 1997, 2001, 2005	Raster & vector, polygon	1:100,000; 28.5 meter ground resolution	Delineation of dryland acres; adjustment of dryland/irrigated acres
CPNRD Certified Acres	Central Platte NRD	2010	Vector, polygon	1:4,800	Spatial representation of irrigated land
TPNRD Certified Acres	Twin Platte NRD	2010	Vector, polygon	1:5,000	Spatial representation of irrigated land and related well information
Assessor Land Use Data	Kearney and Phelps County	2010	Vector, polygon	1:4,800	Spatial representation of irrigated lands
Points of Diversion	NDNR	2011	Vector, point	Varied	Acquire priority date for surface water irrigated lands
Surface Water Rights Fields	NDNR	2011	Vector, polygon	1:12,000	Spatial representation of surface water irrigated lands including some irrigation districts (incomplete dataset)
Registered and Abandoned Wells	NDNR	2011	Vector, point	Varied	Spatial representation of wells; completion date of wells
Irrigation District Boundaries	NDNR - Nebraska Department of Water Resources	Paper map from 1978 (last update in 1992) was digitized in 2005	Vector, polygon	Unknown	Used to fill irrigation district gaps in the NDNR surface water rights fields layer

The data sources can be accessed via the following links:

[Center for Advanced Land Management and Information Technologies](#)

[Census of Agriculture,](#)

[Central Platte Natural Resources District](#)

[Twin Platte Natural Resources District](#)

[Phelps County](#)

[Kearney County](#)

[Nebraska Department of Natural Resources](#)

Figure 4-D-1 shows the 1982, 1997, 2001 and 2005 CALMIT land cover datasets within the COHYST area. These datasets were an important component of the new land use dataset, as irrigable/dryland acres were adjusted to correspond with the CALMIT data, which was considered to represent the most accurate irrigated and dryland acreage for the years it was available. The CALMIT data was also used to create the spatial distribution of dryland acres, as there was no other data source that showed the spatial extent of dryland acres.

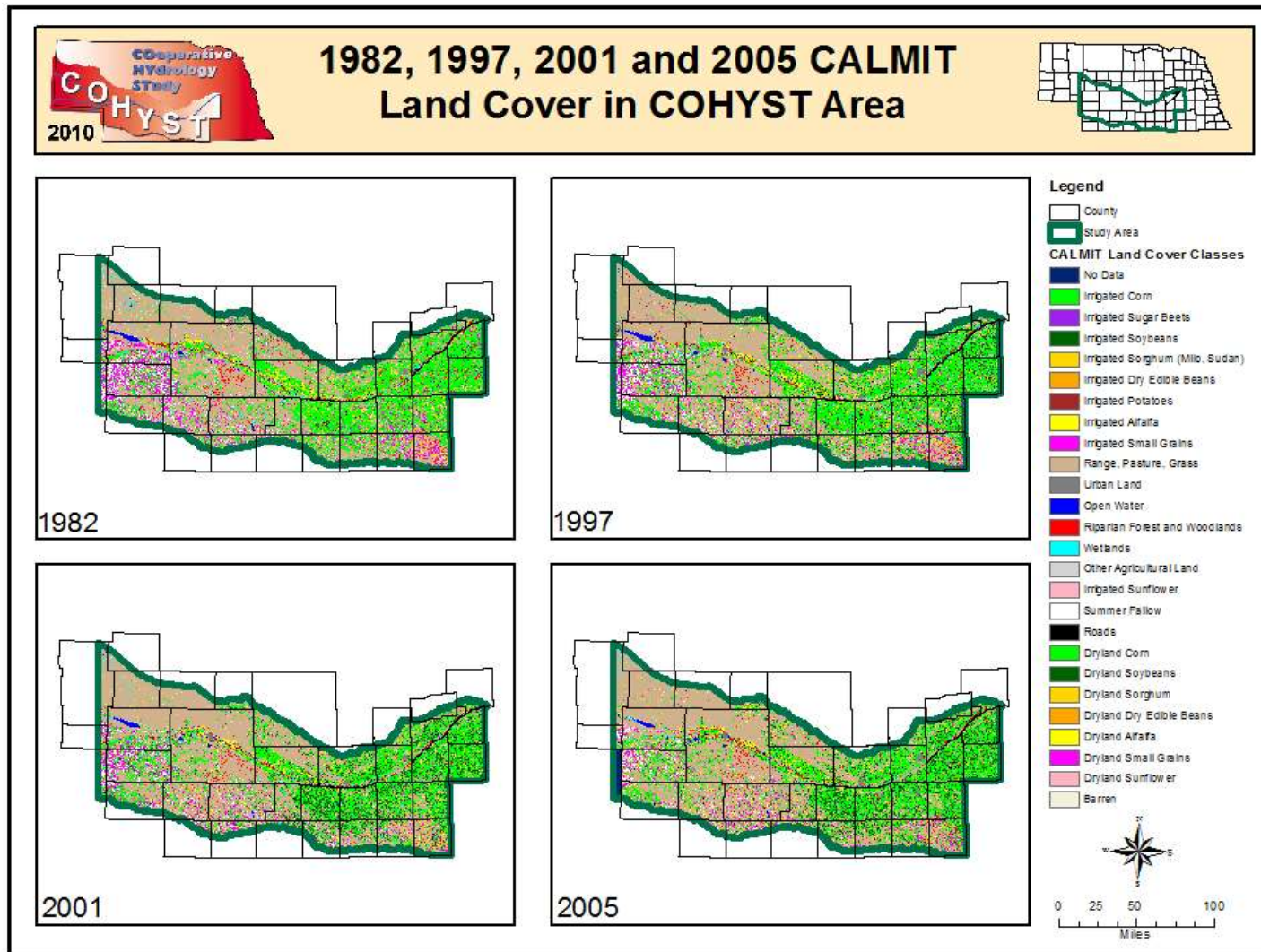


Figure 4-D-1: A four panel map showing the 1982, 1997, 2001 and 2007 CALMIT land cover distribution within the COHYST area.