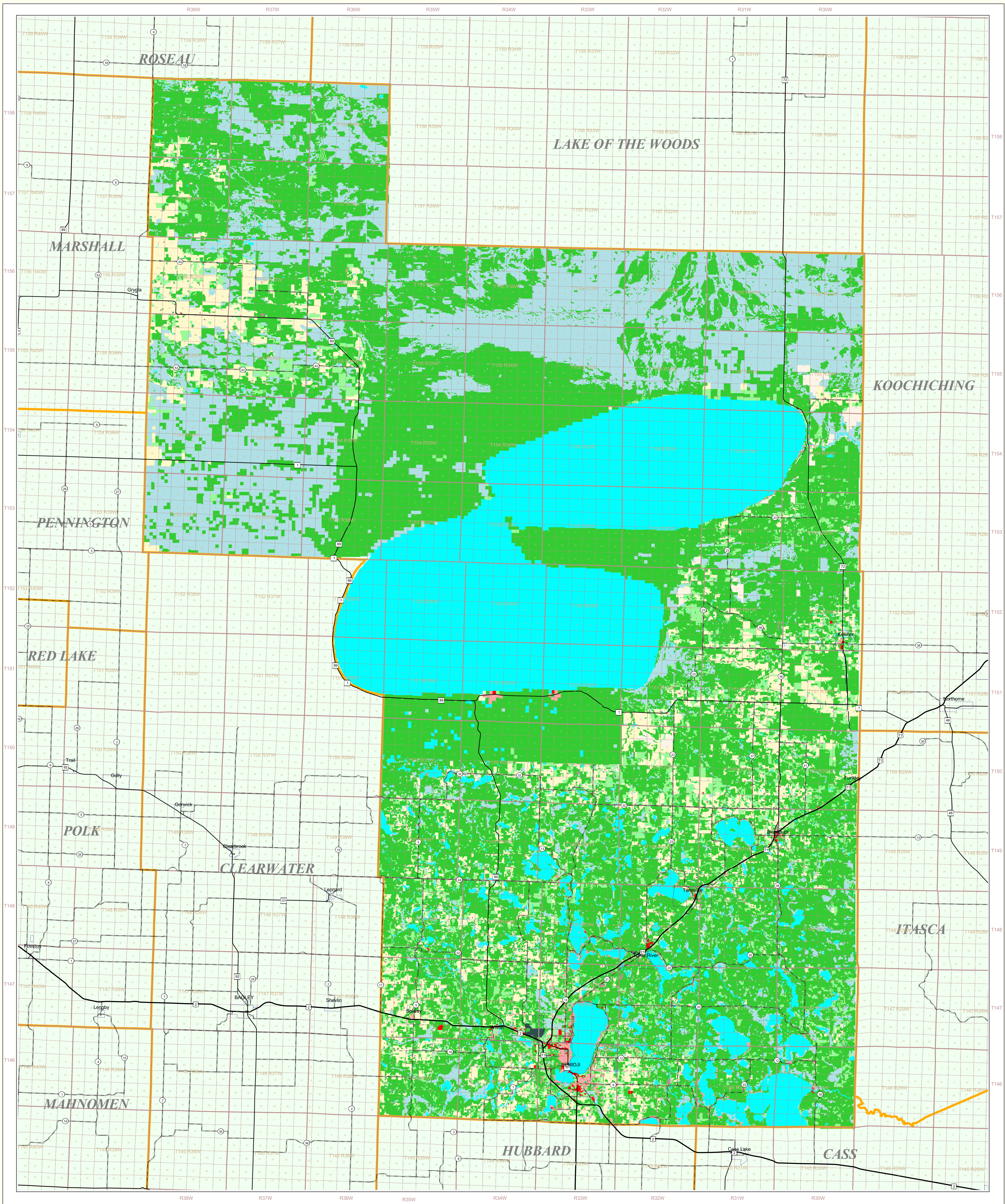


# Beltrami County Land Use and Cover

State of Minnesota

1987



### MAP FEATURES

**Land Use**

- Ag-Related
- Rice Paddies
- Residential
- Non-Residential
- Farmsteads
- Park/Open
- Forest
- Wetland
- Open Water
- Institutions
- Feedlots
- Extractive
- Cemeteries
- Transportation

**Cities**  
CITY SEAT  
Other Cities

**Highways**  
Interstate Highway  
U.S. Trunk Highway  
State Trunk Highway  
County State-Aid Highway (CSAH)

**Public Land Survey**  
County Boundary  
Township & Range  
Section  
T34 Township  
R20W Range & Direction

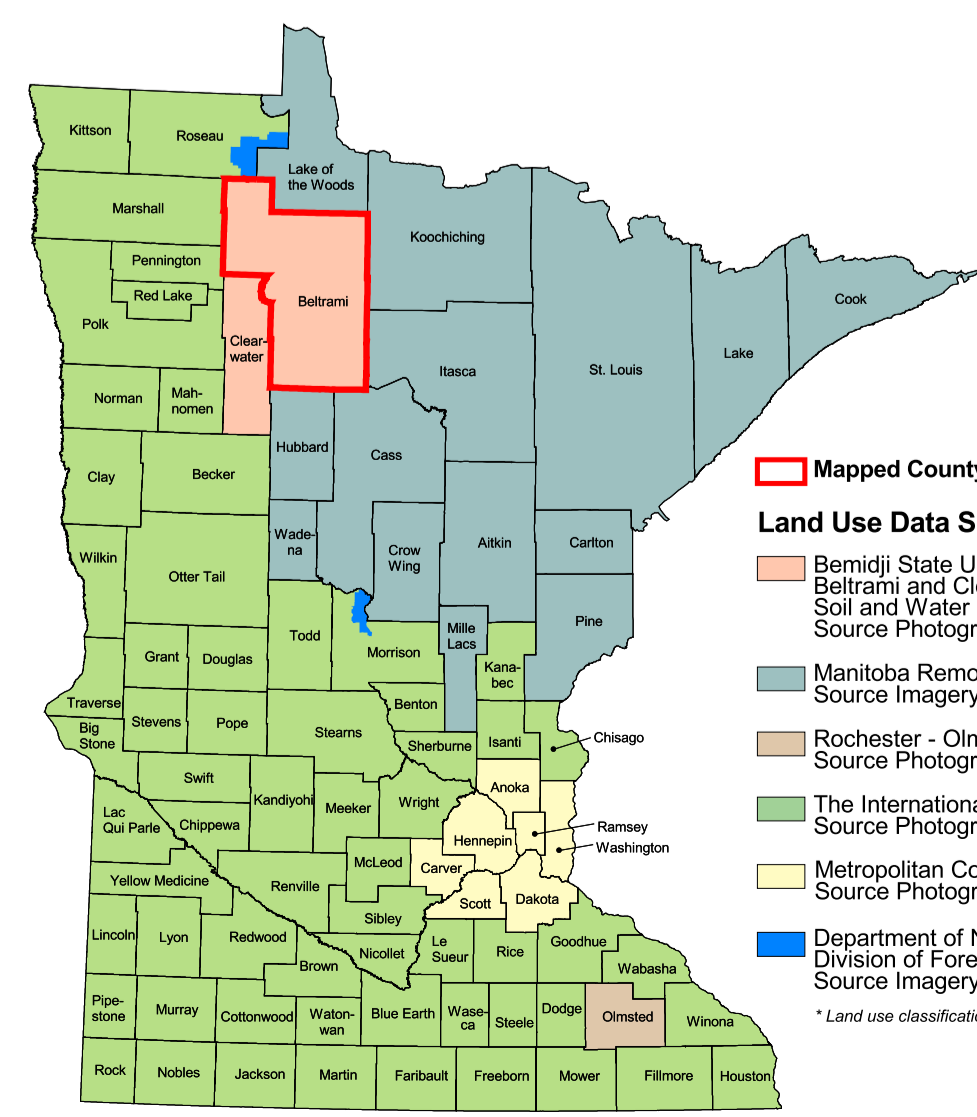
**Data Sources**

- 1. Aerial State University - Department of Geography, Beltrami and Clearwater County, Soil and Water Conservation Districts, Source Imagery Date: 1987
- 2. USGS Color Aerial Photo, U.S. Bureau of the Census, 1985
- 3. Minnesota Department of Transportation, 1987-1988
- 4. Produced by the Minnesota Land Management Information Center from U.S. Geological Survey (USGS), 1:50,000 scale, 30m spatial resolution, published between 1987 and 1988

### Beltrami County Land Use Statistics

Source: The Land Management Information Center (LMIC)

DESCRIPTION	ACRES	% ACRES
Ag-Related	130573.2	6.7
Rice Paddies	7020.6	0.4
Residential	13974.9	0.7
Non-Residential	1954.7	0.1
Farmsteads	2757.7	0.1
Park/Open	112288.5	5.9
Forest	944531.8	48.4
Wetlands	377342.9	19.3
Open Water	358516.6	18.4
Institutions	254.6	< 0.1
Feedlots	1131.8	< 0.1
Extractive	667.2	< 0.1
Cemeteries	59.3	< 0.1
Transportation	956.3	< 0.1
<b>TOTAL</b>	<b>1,683,260</b>	<b>100%</b>



- ### Land Use Data Sources
- Beltrami State University - Department of Geography, Beltrami and Clearwater County, Soil and Water Conservation Districts, Source Imagery Date: 1987
  - Minnesota Bureau of Surveying and Mapping, Source Imagery Dates: 1991-1996
  - The International Coalition, Source Imagery Dates: 1988-1990
  - Metropolitan Council, Source Imagery Date: 1990
  - Department of Natural Resources, Division of Forestry - Resource Assessment, Source Imagery Dates: 1992, 1993 and 1995
- \* Land use classification only slightly between data sources.

### ABOUT THIS MAP

**Data Sources:** The land use / land cover categories displayed on Beltrami and Clearwater county maps were derived from two sources. For a portion of these counties, land use / land cover was derived from 1:50,000 scale black-and-white aerial photos taken in 1988. More up-to-date land use / land cover categories were derived from sources that included the U.S. Department of Agriculture, Agricultural Stabilization and Conservation Service's (ASCS) 35mm color aerial photography (printed at 1:24,000) taken in 1986.

**Data Interpretation and Computerization:** Soil and Water Conservation District (SWCD) staff identified areas in those counties where little or no land use change occurred between 1989 and 1986. This included most of the Red Lake Reservation and some areas north of Red Lake. In these areas the 1989 land use data was left unchanged. The 1989 data was taken from the MLMS 40 acre raster dataset interpreted and coded by University of Minnesota students in the early 1970's; it is distinguishable from updated areas on the map since it appears as 40 acre blocks of homogeneous land use.

**Land Use / Land Cover Information for areas where land use change had occurred between 1989 and 1986 was encoded in a 100 meter (2.5 acre) raster format. Clearwater County land use interpretations were performed by SWCD staff and were then field-verified. Beltrami County land use interpretations were performed by Beltrami State University students working under the direction of SWCD staff. The Beltrami interpretations were not field-verified.**

**Later review of this data has indicated that a common misclassification occurred, especially in Beltrami County, between the wetland and cultivated agriculture categories. This happened in areas where wetlands containing reed canary grass were confused with wheat production.**

**On-line documentation:** <http://lucy.lmci.state.mn.us/metadata/beltrami.htm>

### Credits and Acknowledgements

Beltrami and Clearwater county land use data provided by:  
Beltrami State University - Department of Geography  
Beltrami and Clearwater County  
Soil and Water Conservation Districts

**Map Projection:** UTM, Extended Zone 15  
**Datum:** NAD83

**Liability Statement**  
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**Distribution Information**  
This map was prepared in April, 1999. Both the map and the data used to create it are available from the Land Management Information Center at Minnesota Planning.

You may also view a generalized, interactive land use map of Minnesota, along with detailed information about land use data at:  
<http://mapserver.lmci.state.mn.us/landuse>

**For further assistance, or to order copies of this map, contact:**

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