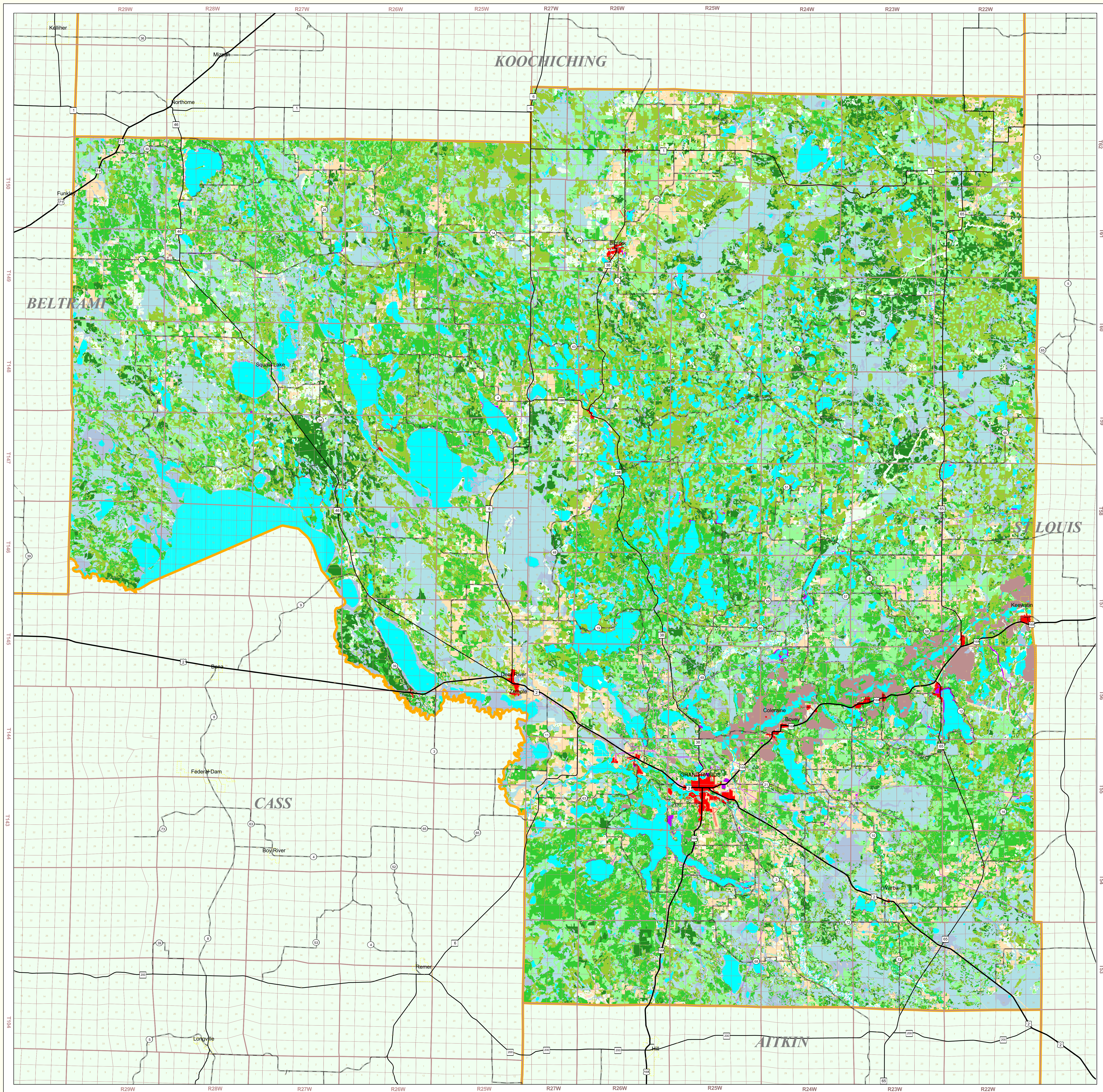


Itasca County Land Use and Cover

State of Minnesota

June 18, 1995



MAP FEATURES

Land Use

- Urban/Industrial
- Farmsteads and Rural Residences
- Other Rural Developments
- Cultivated Land
- Grassland
- Shrubby Grassland
- Regeneration/Young Forest
- Mixed Forest
- Deciduous Forest
- Coniferous Forest
- Wetlands: Bogs
- Wetlands: Marsh and Fens
- Water
- Gravel Pits and Open Mines
- Bare Rock

Cities*
COUNTY SEAT
Other Cities

Highways*

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

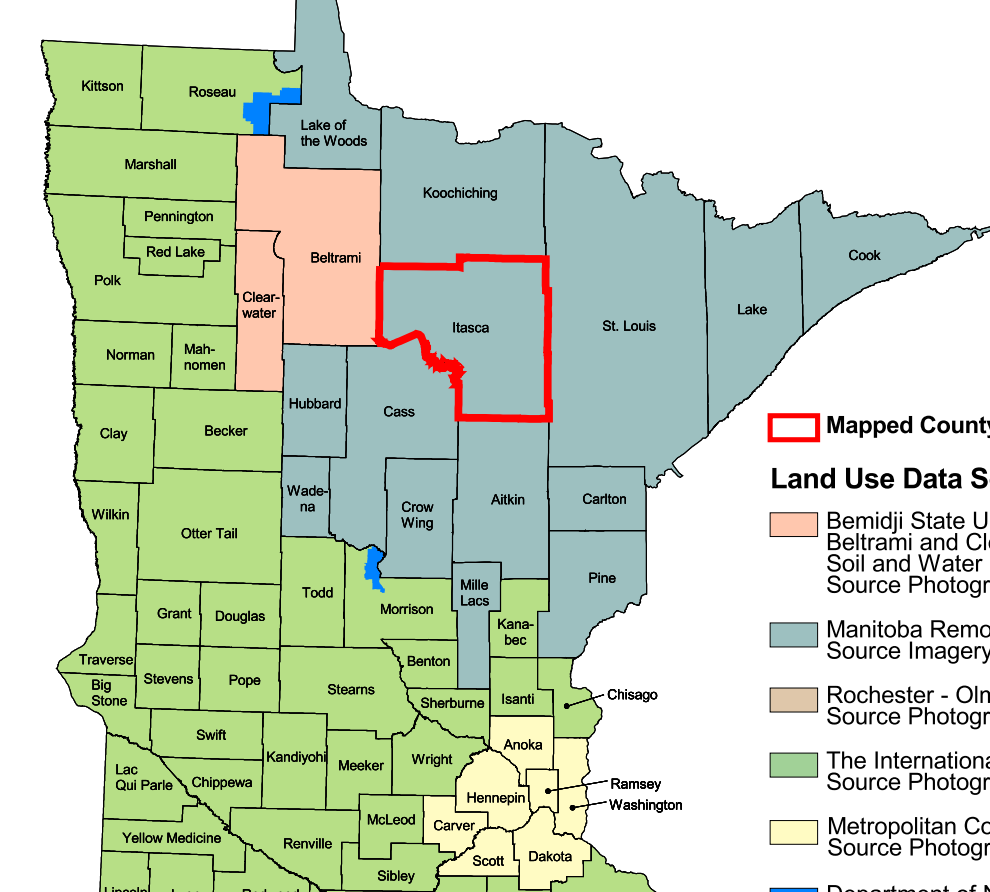
Public Land Survey*

- State Boundary
- Township & Range Section
- T34 Township
- R25W Range & Direction

Itasca County Land Use Statistics

Source: The Land Management Information Center (LMIC)

DESCRIPTION	ACRES	% ACRES
Urban/Industrial	487.3	0.3
Farmsteads and Rural Residences	4370.4	0.2
Other Rural Developments	725.9	0.4
Cultivated Land	2496.7	0.1
Grassland	121816.1	6.5
Shrubby Grassland	68909.7	3.7
Regeneration/Young Forest	207023.5	11.1
Mixed Forest	374110.4	20.4
Deciduous Forest	287859.4	15.4
Coniferous Forest	125501.8	6.4
Wetlands: Bogs	33589.1	1.8
Wetlands: Marsh and Fens	123370.6	6.6
Water	186269.9	10.1
Gravel Pits and Open Mines	22726.6	1.2
Bare Rock	0	0
TOTAL	1,872,197	100%



- ### Land Use Data Sources*
- Bemidji State University - Department of Geography
 - Beltrami and Clearwater County Soil and Water Conservation Districts
 - Source Imagery Date: 1986
 - Manitoba Remote Sensing Centre
 - Source Imagery Dates: 1991-1996
 - Rochester - Olmsted Planning Department
 - Source Photography Date: 1992
 - The International Coalition
 - Source Photography Dates: 1988-1990
 - Metropolitan Council
 - Source Photography Date: 1990
 - Department of Natural Resources
 - Division of Forestry - Resource Assessment
 - Source Imagery Dates: 1992, 1993 and 1996
- *Land use classifications vary slightly between data sources.

ABOUT THIS MAP

Data Sources: With the exception of roads, the land use/land cover categories displayed on this map were derived from 30 meter resolution Landsat Thematic Mapper satellite imagery, bands 3, 4 and 5. Satellite imagery dates ranged from September, 1991 to August, 1996. The road category was created from road layers found in the Minnesota Department of Transportation's 1:24,000-scale BaseMap97 data set. Classifications were verified using 1:50,000 color and black-and-white infrared National High Altitude Photography (NHAP), U.S. Forest Service plot data were used to check the forest classifications for Lake County.

Data Interpretation and Computerization: The Manitoba Remote Sensing Centre (MRSC) interpreted the Landsat imagery using a supervised maximum likelihood classification. Three classification iterations were typically performed prior to an exhaustive manual verification/editing process using the NHAP photography. Transitional feature types (e.g. coniferous, mixed, deciduous forest classes) were processed by first developing a classification using relative pure samples of individual types and then by performing a limited classification around a tightly controlled confidence interval. Mixed classes falling outside of the pure class confidence interval were then assigned to a single mixed class.

MRSC used the USFS plot data to reclassify some Lake County coniferous areas to mixed forest. The "regeneration/young forest" category was spot field-checked by Minnesota Department of Natural Resources, Forestry Division personnel, after which they revised the category definition to include some older trees on poorer sites.

This data exhibits a per class and overall classification accuracy of not less than 85 percent.

On-line documentation: http://lmic.state.mn.us/itasca/mrsc_ju.html



Credits and Acknowledgements

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The following groups also participated over an extended period:

- Linnet Geosystems, Winnipeg
- The Manitoba Remote Sensing Centre, Winnipeg
- Minnesota Department of Natural Resources
- University of Minnesota - Department of Forest Resources
- Wideth, Smith and Notling

Map Projection: UTM, Extended Zone 15
Date: NAD83

Liability statement
The Land Management Information Center (LMIC) does not warrant the results you may obtain by using this map. This map is provided "as is" without express or implied warranties, including warranties of merchantability and fitness. In no event will LMIC be liable for any consequential, incidental or special damages, including any lost profits or lost savings, even if a LMIC representative has been advised of the possibility of such damages or any other claim by any third party.

Distribution information
This map was prepared in April, 1998. Both this 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.lmic.state.mn.us/landuse>

For further assistance, or to order copies of this map, contact:
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1. Manitoba Remote Sensing Centre, Source Imagery Dates: 1991-1996
2. USGS/ERDC Central File, U.S. Bureau of the Census, 1995
3. Minnesota Department of Transportation, 1997-98
4. Produced by the Minnesota Land Management Information Center for the U.S. Geological Survey (USGS), 1:100,000 scale, 30x30, 1995. All map images published between 1997 and 1998.