Grassland Sub-Regions

Special Areas

Land Ownership
- Crown - Provincial
- Crown - Federal (Military Reserve)
- Crown - Federal (Indian Reserve)
- Freehold
- Mixed
- Other
- Water (Lakes > 1.5 sq. km)

- Cities
- Townships

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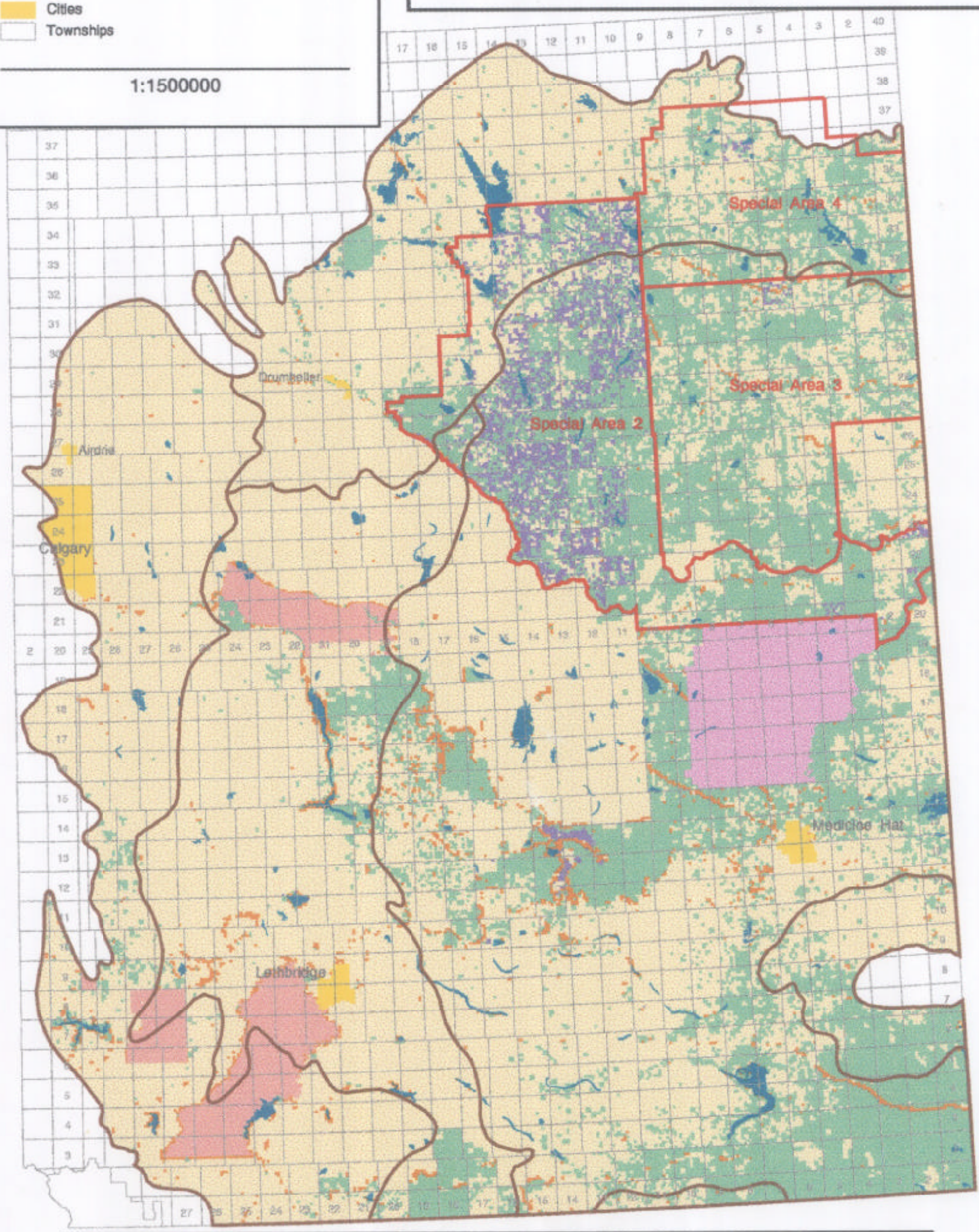
Source Notes

Derived from Land Status Automated System (LSAS) data, as of May, 1996.

The LSAS data file provides land ownership status to quarter-section resolution. Ownership categories are defined as:
Crown - Lands held by the Crown, including Indian Reserves, Military Reserves and leased lands
Freehold - Privately owned land
Mixed - Quarter-sections partly held by the Crown and partly privately owned
Other - Status undetermined by LSAS at present



Map A - Grassland Natural Region
Land Ownership

Grassland Natural Sub-regions

Transportation Network
- Primary - Paved
- Primary - Divided
- Secondary - Paved
- Secondary - Gravel
- Improved Road
- Unimproved Road
- Truck Trail
- Railway

Wellsites

Protected Areas
- Ecological Reserves (OC)
- Natural Areas (OC)
- Provincial Parks
- Wildlife Sanctuaries

Federal Lands
- Military Reserve
- Indian Reserve

Cities & Towns
- Cities
- Towns

Townships

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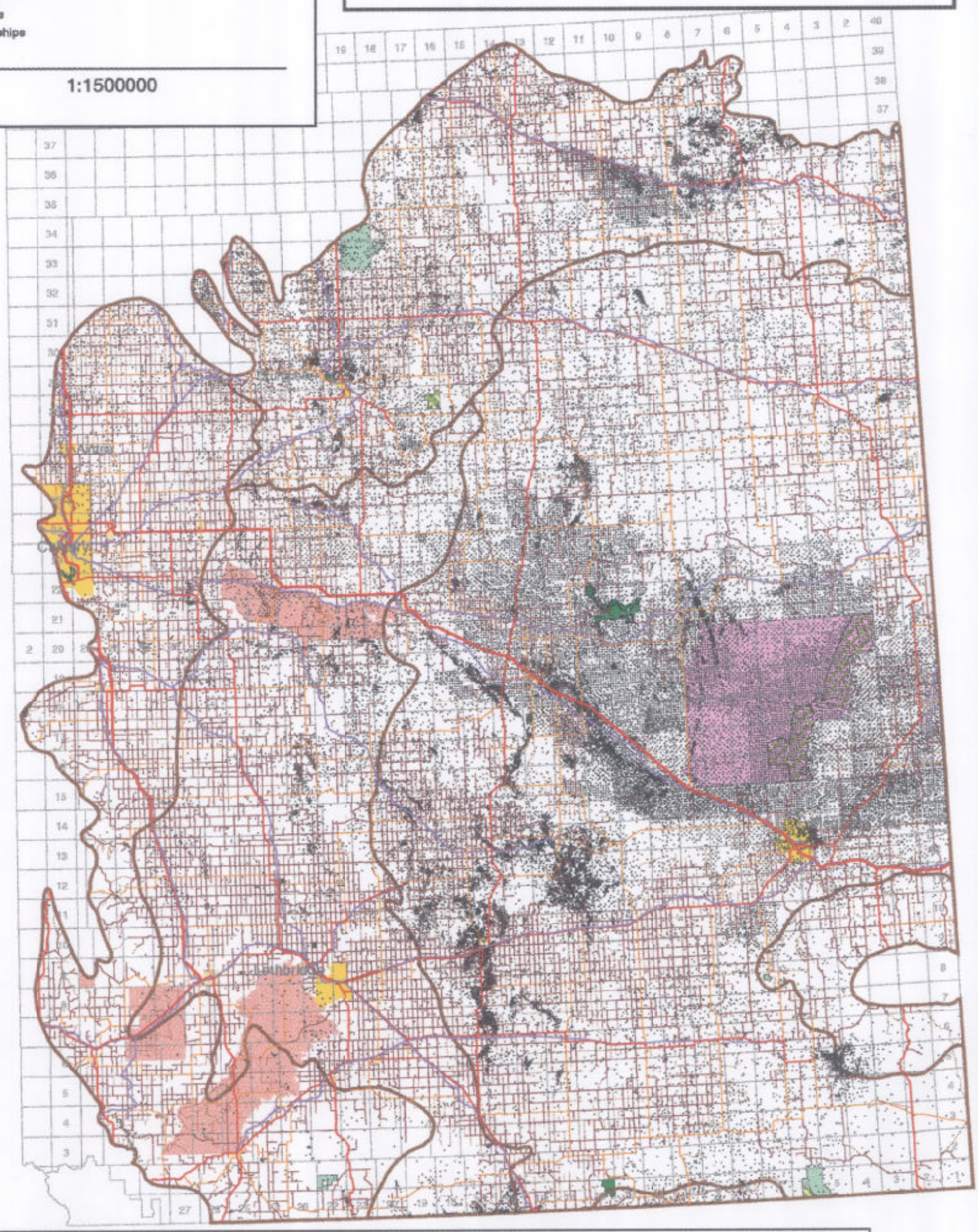
Source Notes

Derived from Alberta Energy and Utilities Board (EUB) data, as of June, 1996.

Shows all types of petroleum industry-related wells (e.g., active, abandoned, dry, etc.) within the Grassland Natural Region. Each dot marks the bottomhole location of an individual well. In 95% of cases (i.e., non-deviated boreholes), this is the same as surface well location.



Map B - Grassland Natural Region
Transportation Network &
Petroleum and Natural Gas Wellsites

Grassland Natural Sub-regions

Environmentally Significant Areas
- International
- National
- Provincial

- Lakes (> 1.5 sq. km)
- Cities
- Townships

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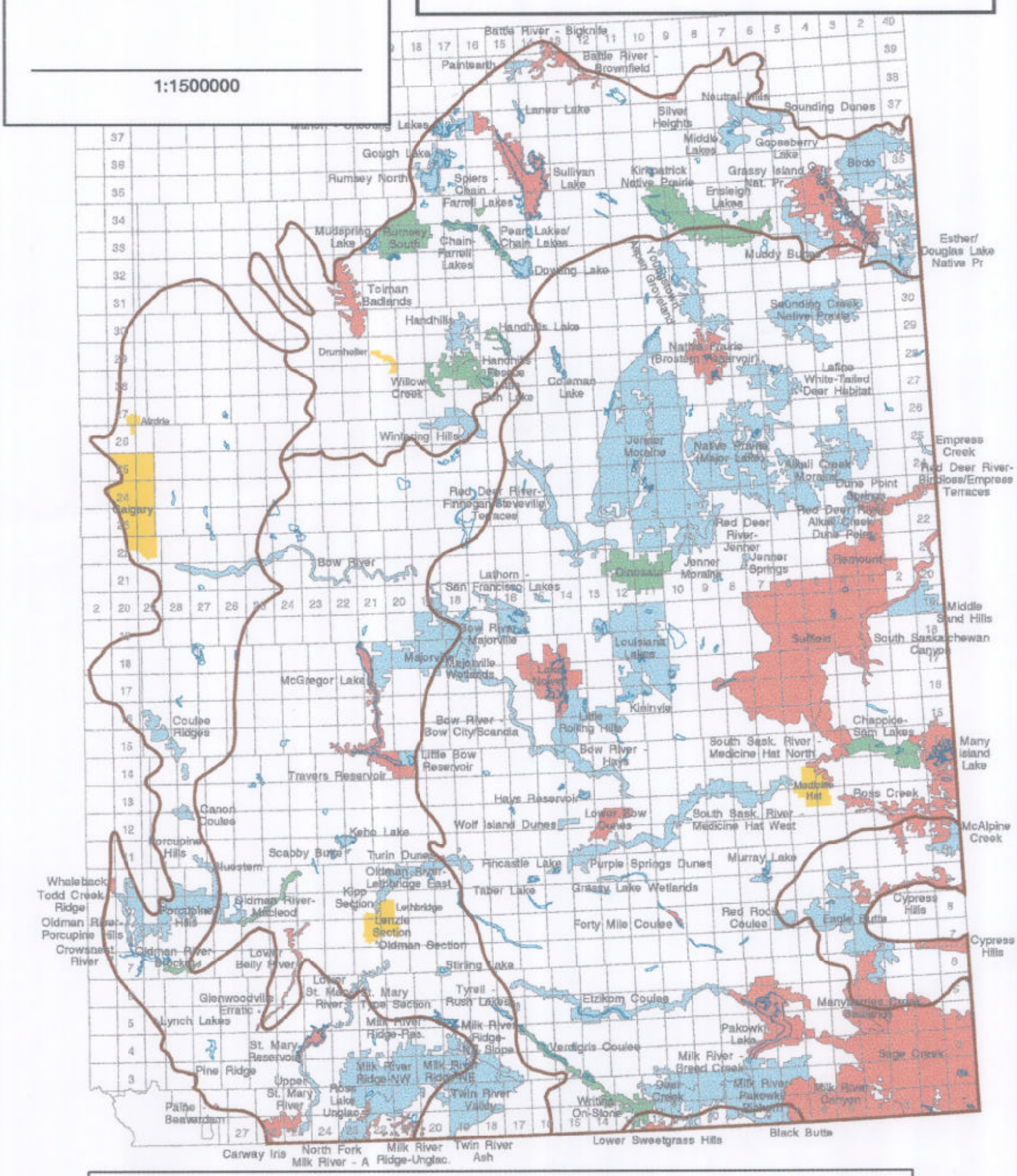
Source Notes

From Alberta Natural Heritage Information Centre (ANHIC) Environmentally Significant Areas (ESA) data, 1997.



Map C - Grassland Natural Region Environmentally Significant Areas (ESA's)

Grassland Natural Sub-regions

Native Prairie Remaining (Quarter-Section Data)

- 76 - 100%
- 51 - 75%
- 26 - 50%
- 1 - 25%
- 0%

Native Prairie Remaining (Township Data)

- 76 - 100%
- 51 - 75%
- 26 - 50%
- 0 - 25%

- Cities
- Townships

Areas left blank are either federal lands, (i.e., Indian Reserves, Military Reserves), or lands for which native prairie data is unavailable.

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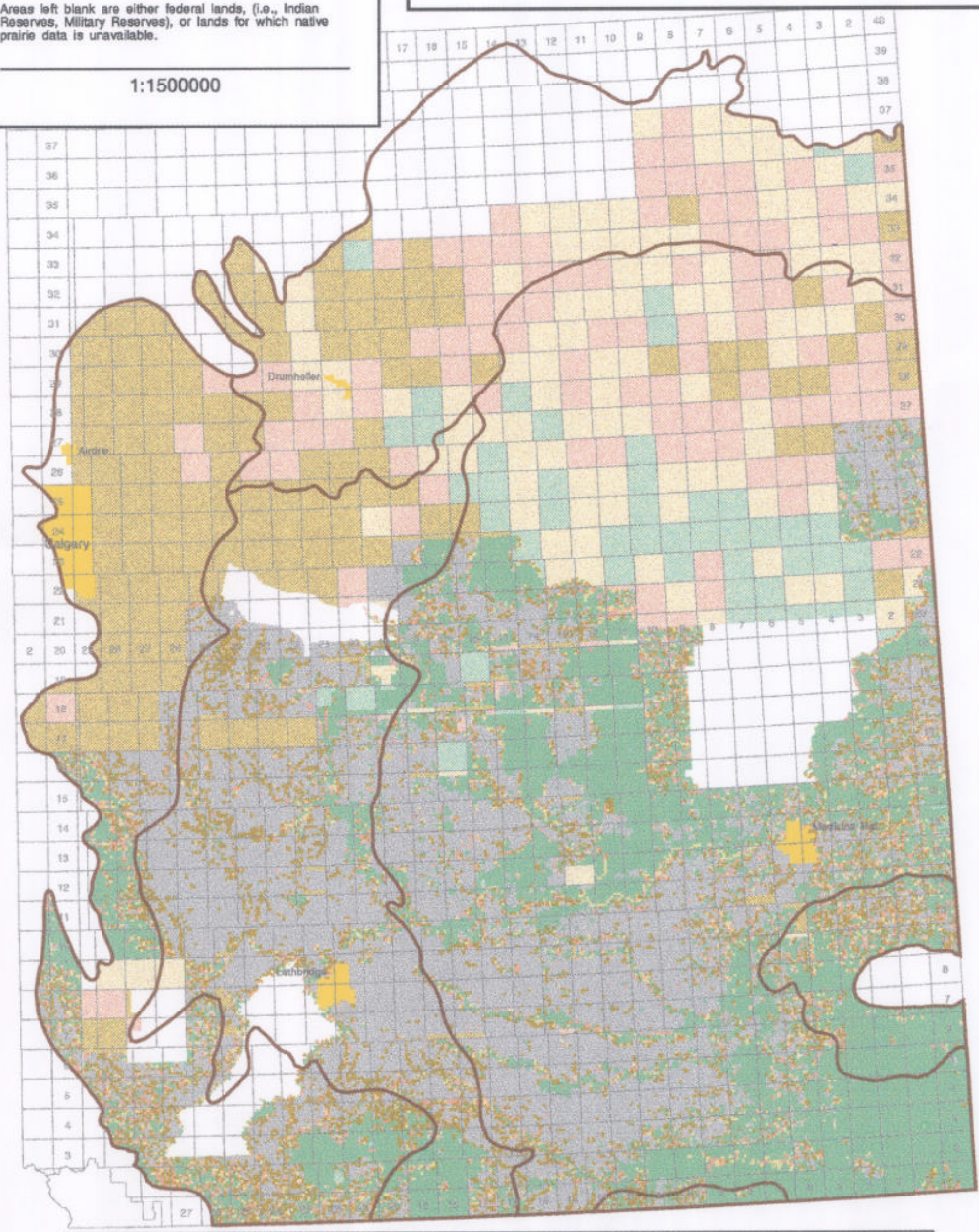
Source Notes

Data compiled by Resource Data Division (RDD) of Alberta Environmental Protection, for Agriculture, Food and Rural Development (AFRD, 1992) and from Energy Resources Conservation Board, now Energy and Utilities Board (EUB, 1992).

Complete information on native prairie vegetation is not available. RDD data with quarter-section precision have been used where available and supplemented with township level data from EUB.



Map D - Grassland Natural Region
Native Prairie Remaining

Grassland Natural Sub-regions

Contiguous Parcels 10 Sq. Km and Larger
- Crown Provincial and Mixed (Ownership Categories Combined)
- Native Prairie (51 - 100% Remaining)
- Crown Federal (Military Reserve)
- Crown Federal (Indian Reserve)

- Lakes (> 1.5 sq. km)
- Cities
- Townships

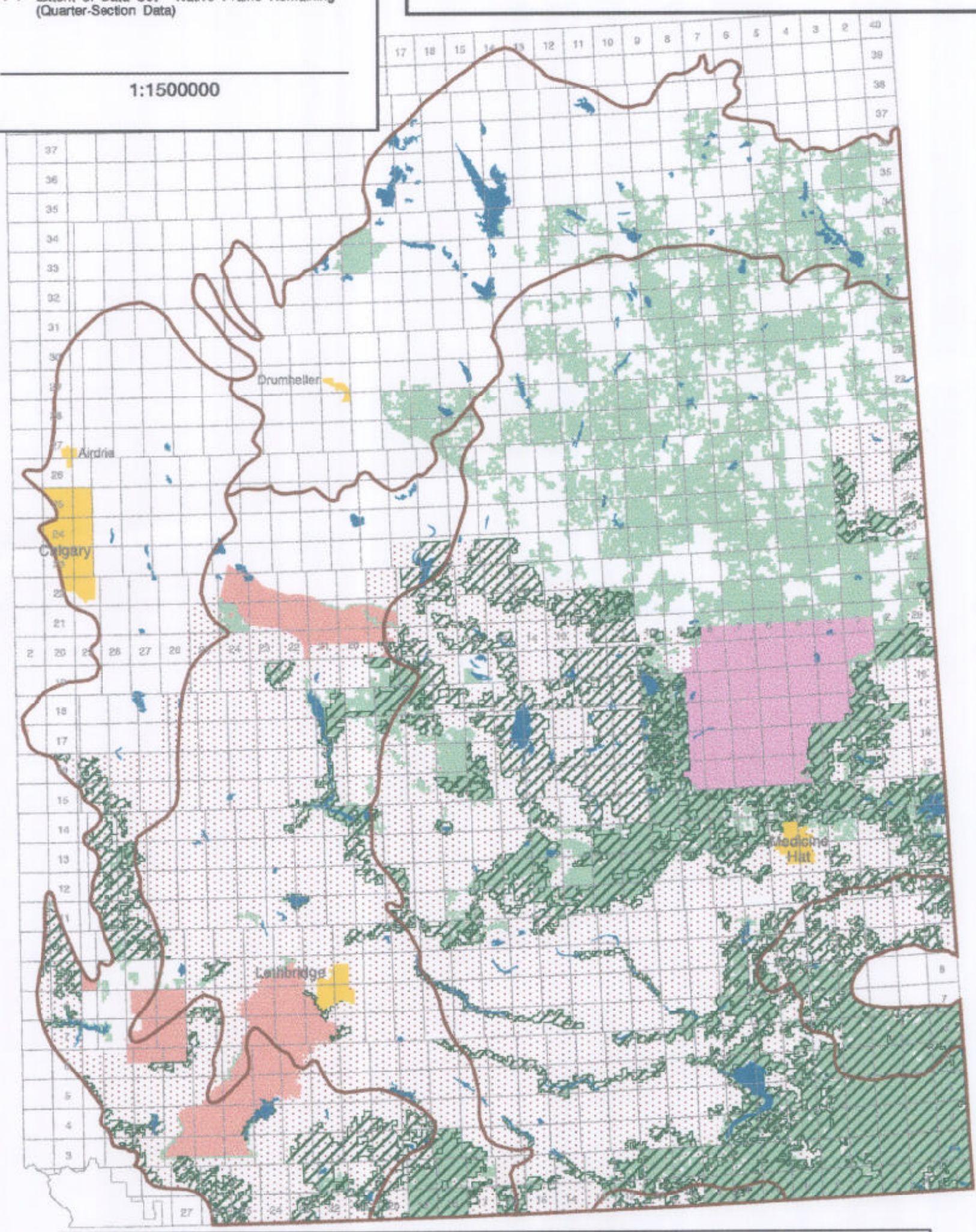
Extent of Data Set - Native Prairie Remaining (Quarter-Section Data)

1:1500000

Source Notes

Lands shown as "Contiguous Parcels" were derived from analysis of the following data layers: Land Ownership (Map A), and Native Prairie Remaining (Map D).

For land ownership, provincial crown and mixed classes were combined to determine contiguous parcels. Similarly for native prairie, classes greater than 50% were combined to determine contiguous parcels of greater than 50% native prairie vegetation remaining.



Map E - Grassland Natural Region
Contiguous Parcels of Land Ten Sq. Km and Larger

Grassland Natural Sub-regions

Crown/Mixed Land "Prospects For Protection"

Environmentally Significant Areas
- International
- National
- Provincial

Lakes (> 1.5 sq. km)
Cities
Townships

Extent of Data Set - Native Prairie Remaining (Quarter-Section Data)

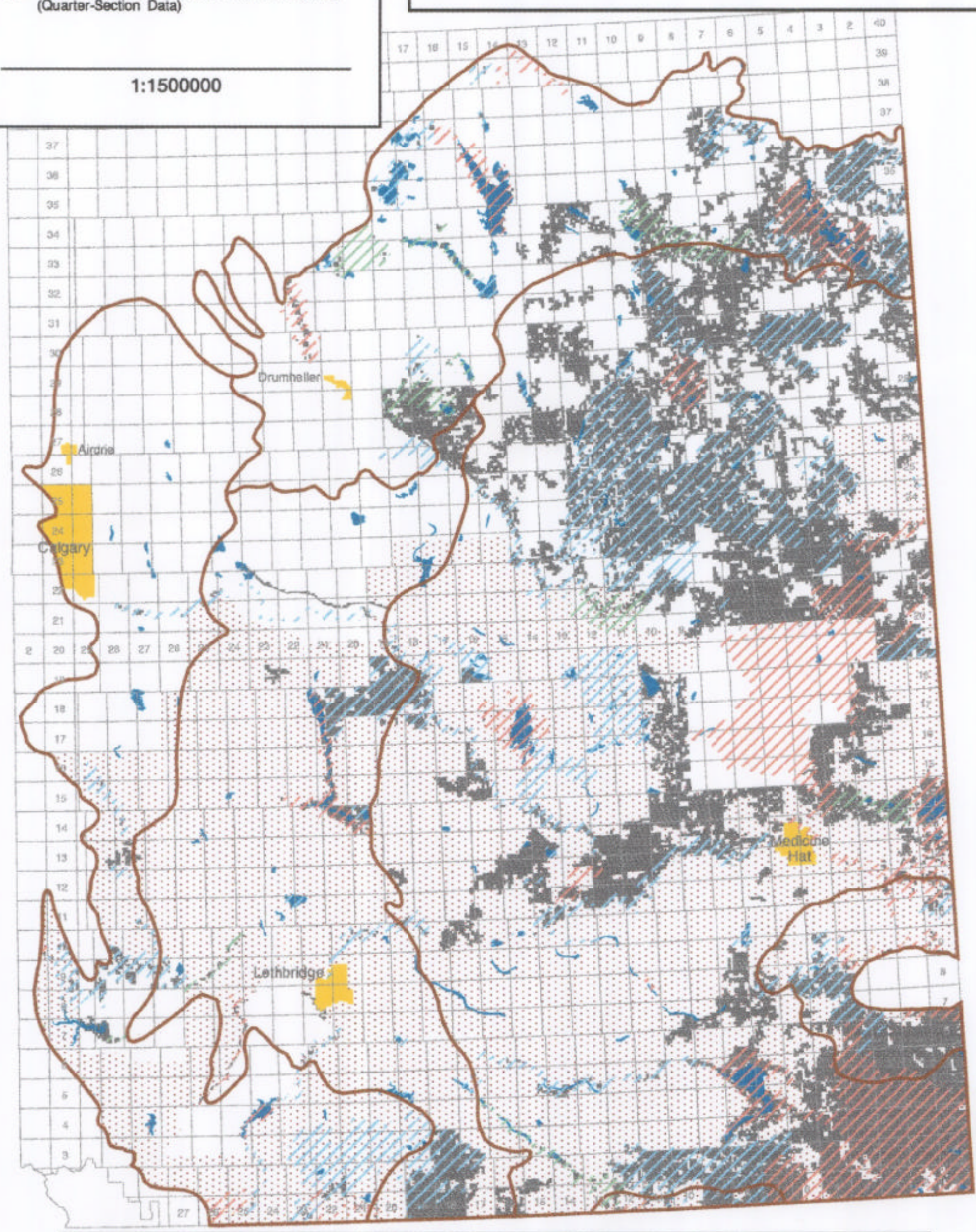
1:1500000

Source Notes

Lands shown as "Prospects For Protection" were derived from analysis of the following data layers: Land Ownership (Map A), Environmentally Significant Areas (Map C) and Native Prairie Remaining (Map D).

Where quarter-section data for native prairie remaining exists:
1. Within ESA's - prospects include any size parcel of provincial crown or mixed ownership status, with 50% or more native prairie remaining.
2. Outside ESA's - prospects include contiguous parcels of crown/mixed ownership status that are both greater than 10 sq. km in size and with 50% or more native prairie remaining.

Where quarter-section data for native prairie remaining does not exist:
1. Within ESA's - prospects include any size parcel of provincial crown land.
2. Outside ESA's - prospects include contiguous parcels of crown/mixed ownership status that are greater than 10 sq. km in size.



Map F - Grassland Natural Region
Prospects For Protection

Grassland Natural Sub-regions

Priorities For Special Places Level 1 Targets

- International ESA
- National ESA
- Provincial ESA
- Regional ESA or Areas Outside ESA's

- Lakes (> 1.5 sq. km)
- Cities
- Townships

Extent of Data Set - Native Prairie Remaining (Quarter-Section Data)

1:1500000

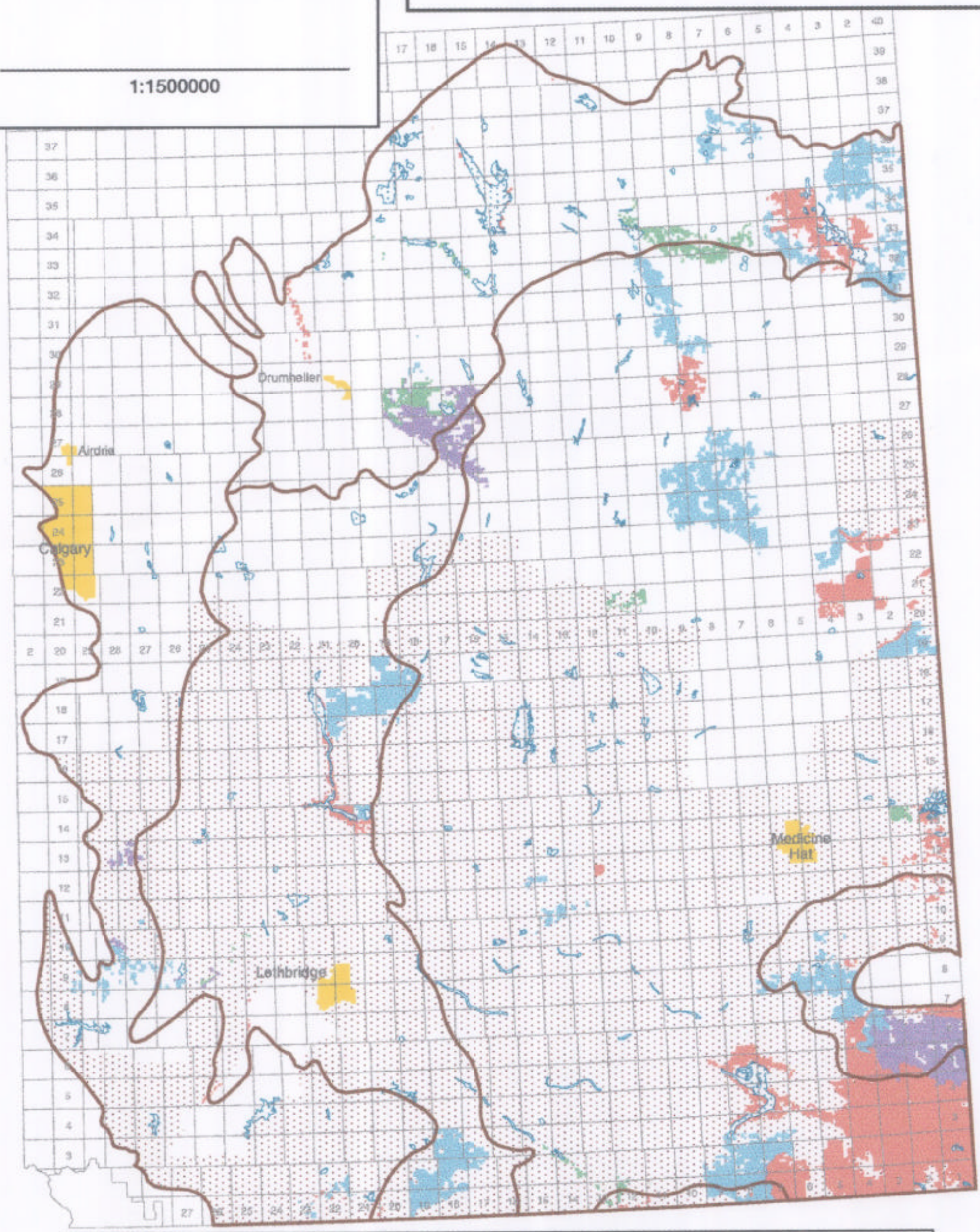
Source Notes

Lands shown as "Priorities For Special Places Level 1 Targets" were derived from analysis of the following data layers: Prospects For Protection (Map F), Road Density Classes (Map 2) and Wellsite Density Classes (Map 3).

All townships, (or portions of townships where divided by sub-region boundaries), meeting the following criteria, were deleted:

1. a road density greater than 1.5 ha/sq. km
2. a wellsite density greater than 2 wells/sq. km

The results include all internationally and nationally significant ESA's, as well as those provincially significant ESA's that may be required to meet level 1 targets and/or represent geographic variation across the sub-region. Where no other options existed, regionally sinificant ESA's and areas outside ESA's were included. Lakes are not highlighted as Priorities for Special Places Level 1 Targets due to the difficulty of determining land ownership. Lakes are however discussed in the text.



Map G - Grassland Natural Region
Priorities For Special Places Level 1 Targets