

# **GIS to support decision making in the livestock industry – the PFRA Experience**

**Ron Lewis**

**Prairie Farm Rehabilitation Administration.**

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Agriculture and Agri-Food Canada

Agriculture et Agroalimentaire Canada

Prairie Farm Rehabilitation Administration

Administration du rétablissement agricole des Prairies

# PFRA Regions and Districts

Health of the Environment

Innovation for Growth

Security of the Food System

**PFRA Region**

- North Alberta and British Columbia
- South Alberta
- North Saskatchewan
- South Saskatchewan
- Manitoba

**PFRA Office**

- Headquarters
- Regional
- District
- Canada - Saskatchewan Irrigation Diversification Centre
- Shelterbelt Centre
- Manitoba Crop Diversification Centre

0 100 200 kms



Canada

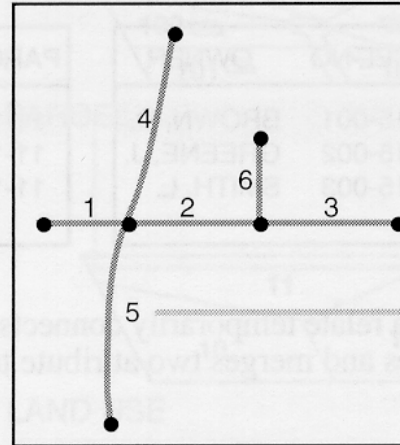
PFRA ARAP

Canada

# “Knowing where things are and why is essential to rational decision making.”

Jack Dangermond  
President, ESRI

Roads map

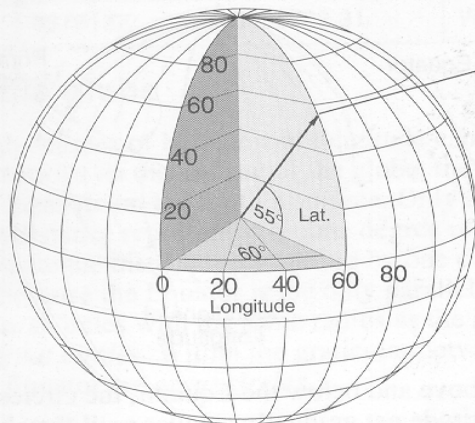


Feature coordinates

FEATURE-NO	X,Y pairs
1	3,5 5,5
2	5,5 8,5
3	8,5 11,5
4	6,9 5,8 5,7 5,6 5,5
5	5,5 4,4 4,1
6	8,5 8,7

Feature attributes

FEATURE-NO	ROAD-TYPE	SURFACE	WIDTH	LANES	NAME
1	2	Asphalt	48	4	N Main ST
2	2	Asphalt	48	4	N Main ST
3	2	Asphalt	48	4	N Main ST
4	1	Concrete	60	4	Highway 42
5	1	Concrete	60	4	Highway 42
6	4	Asphalt	32	2	Elm ST





# Land use affects all Canadians

- There is increasing conflict as a result of competing land uses
- Land use can impact water quality
- Over 90% of Canadians live in agricultural areas
- Grain production is down, and livestock is increasing

# Land use decisions are made and influenced by many Canadians for a variety of reasons

- Individual land owners



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