

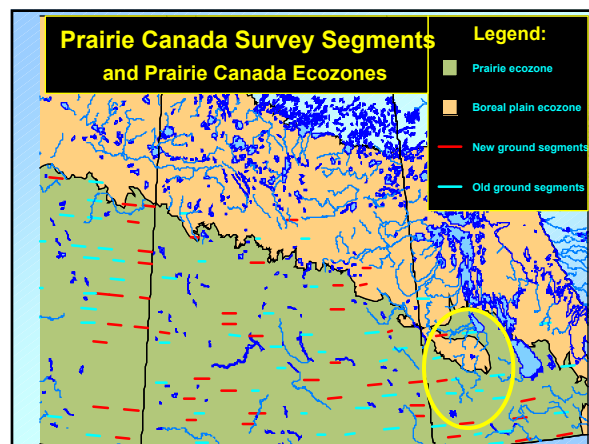
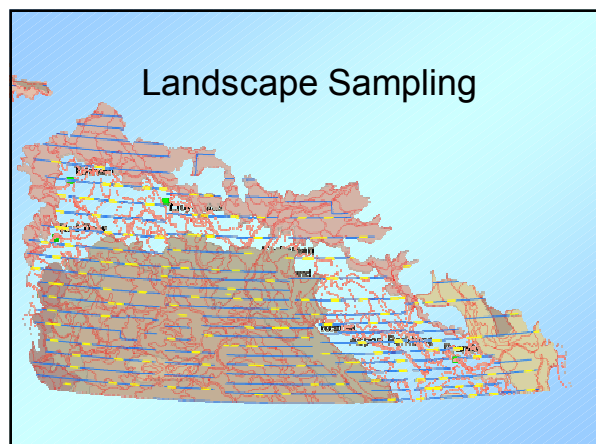
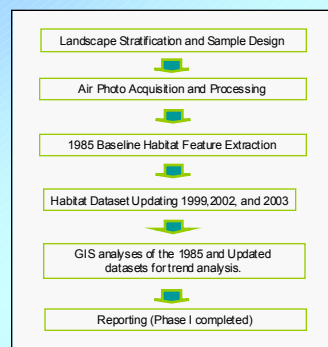
Objective/Rational

- Establish a sampling network for estimating long-term habitat and land use trends for the settled portions of the three Prairie Provinces.
- Feed into the adaptive management strategy process adopted by the PHJV.

Background

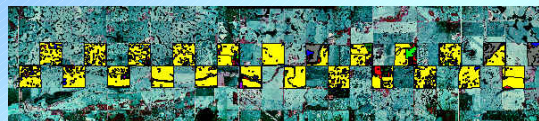
- Approximately 25,000 wetlands are samples annually with the implementation of NAWMP.

METHODS



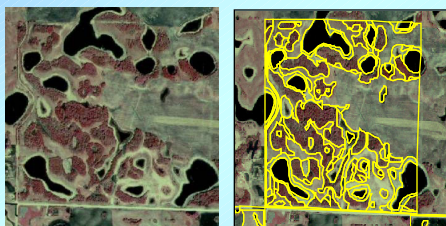


Transect



Upland Cover Classes	Wetland Cover Classes	Activity Classes	Margin Classes
Natural Grassland Tame Grass Annual Crops Summer Fallow Shrub & Trees Bare Ground Numerous Others	Grass & Sedge Bull Rush & Cattail Saline Lakes & Ponds Natural Open Water Artificial Open Water Cultivated Basins Wooded Basins	No Activity Grazing Haying & Forage Cultivation Farmsteads Roads Other	Non-natural (includes cultivated margins) Grass Shrub

Heads Up Digitizing of Habitat Polygons



Type I (Temporary or Ephemeral) Wetlands

Temporary water, sheet water and wet depressions which can be expected to last less than three weeks after initial observation and have less than 15cm of water depth.

Cultivated Wetland



Type III (Seasonal) Wetlands

Wetlands containing natural aquatics which normally are dry by midsummer but are expected to retain water for at least three weeks following initial observation. These wetlands normally have a uniform vegetative cover and contain at least 15cm of water.

Grass and Sedge



Type IV (Semi-permanent) Wetlands

These wetlands have sufficient water depth that will likely last throughout the brood season but may become dry during late August or September. Water is present in these wetlands in at least 7 out of 10 years, and the vegetation is normally clumped covering all but the centre of the wetland.

Bulrush/Cattail Marsh



Type V (Permanent) Wetlands

Usually deep marshes or lakes that have sufficient water to persist through the summer and fall. These wetlands normally are characterized by a peripheral rim of aquatic vegetation bordering open water

Natural Open Water



Streams and Artificial Wetlands

- Streams
- Artificial Wetland
 - Artificial water bodies include anything that may hold water and is man-made.
 - Ex: Dugouts, Borrow Pits, Stock Ponds, Irrigation Canals, Sewage Lagoons, and Reservoirs.

Dry Basins

- Occur in all categories
 - Natural Basins
 - Streams
 - Artificial Wetlands

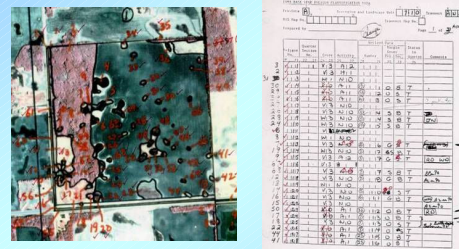
Tame Grass



Natural Grassland



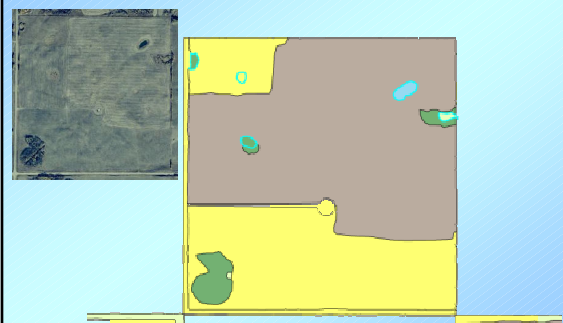
Ground Checks



Change Detection



Change Mapping



Wetlands: Results



Wetland Loss



Filling

Wetland Loss



Filling

Wetland Loss



Drainage

Wetland Loss



Drainage

Wetland Loss



Drainage

Drainage

Wetland Loss



Drainage

Wetland Loss



Drainage

Wetland Loss



Partial Drainage Filling

Wetland Loss



Results

Arden E (ADN)

base year:	1985	total wetland area:	43.56 Ha	gross wetland loss:	4.46 Ha	-10.24 %
update year:	2002	total wetland area:	39.27 Ha	gross wetland gain:	0.17 Ha	0.39 %
		net change:	-4.29 Ha	net change:	-4.29 Ha	-9.85 %

Arden W (ARD)

base year:	1985	total wetland area:	60.03 Ha	gross wetland loss:	0.41 Ha	-0.68 %
update year:	2002	total wetland area:	59.62 Ha	gross wetland gain:	0.00 Ha	0.00 %
		net change:	-0.41 Ha	net change:	-0.41 Ha	-0.68 %

Results

Carberry (CAR)

base year:	1985	total wetland area:	84.21 Ha	gross wetland loss:	0.05 Ha	-0.06 %
update year:	2002	total wetland area:	84.16 Ha	gross wetland gain:	0.00 Ha	0.00 %
		net change:	-0.05 Ha	net change:	-0.05 Ha	-0.06 %

Grandall E (CDL)

base year:	1985	total wetland area:	315.81 Ha	gross wetland loss:	5.04 Ha	-1.60 %
update year:	1999	total wetland area:	310.96 Ha	gross wetland gain:	0.19 Ha	0.06 %
		net change:	-4.85 Ha	net change:	-4.85 Ha	-1.54 %

Results

Crandall W (CRN)

base year:	1985	total wetland area:	115.58 Ha	gross wetland loss:	0.35 Ha	-0.36 %
update year:	2002	total wetland area:	115.24 Ha	gross wetland gain:	0.01 Ha	0.01 %
		net change:	-0.34 Ha	net change:	-0.34 Ha	-0.30 %

Dauphin (DAU)

base year:	1985	total wetland area:	48.55 Ha	gross wetland loss:	2.75 Ha	-5.67 %
update year:	2002	total wetland area:	45.54 Ha	gross wetland gain:	0.04 Ha	0.08 %
		net change:	-2.71 Ha	net change:	-2.71 Ha	-5.59 %

Results

Grandview E (GRE)

base year:	1985	total wetland area:	41.36 Ha	gross wetland loss:	7.45 Ha	-18.01 %
update year:	2002	total wetland area:	34.26 Ha	gross wetland gain:	0.35 Ha	0.84 %
		net change:	-7.10 Ha	net change:	-7.10 Ha	-17.17 %

Grandview W (GRW)

base year:	1985	total wetland area:	272.27 Ha	gross wetland loss:	2.51 Ha	-0.92 %
update year:	2002	total wetland area:	269.86 Ha	gross wetland gain:	0.09 Ha	0.03 %
		net change:	-2.41 Ha	net change:	-2.41 Ha	-0.89 %

Results

Lavinia (LAV)

base year:	1985	total wetland area:	226.93 Ha	gross wetland loss:	11.23 Ha	-4.95 %
update year:	1999	total wetland area:	217.13 Ha	gross wetland gain:	1.43 Ha	0.63 %
		net change:	-9.80 Ha	net change:	-9.80 Ha	-4.32 %

Moore Park (MOP)

base year:	1985	total wetland area:	288.48 Ha	gross wetland loss:	25.50 Ha	-8.84 %
update year:	1999	total wetland area:	264.56 Ha	gross wetland gain:	1.58 Ha	0.55 %
		net change:	-23.92 Ha	net change:	-23.92 Ha	-8.29 %

Results

Penrith (PEN)

base year:	1985	total wetland area:	248.22 Ha	gross wetland loss:	9.51 Ha	-3.83 %
update year:	2002	total wetland area:	240.22 Ha	gross wetland gain:	1.51 Ha	0.61 %
		net change:	-8.00 Ha	net change:	-8.00 Ha	-3.22 %

Overall Summary Statistics:

base year:	total wetland area:	1,744.99	Ha	gross wetland loss:	69.27	Ha	-3.97	%
update year:	total wetland area:	1,681.10	Ha	gross wetland gain:	5.37	Ha	0.31	%
		net change:	-63.89	Ha	net change	-63.89	Ha	
			-3.66	%				