

Wetland Policies, Regulation and Science in Prairie Canada, Workshop 3-4 May 2016, Regina

Federal Wetland Programs, Policy, and the PHJV

Bob Clark, Environment & Climate Change Canada









Outline

- National perspective wetlands
- North American Waterfowl Management Plan
- Prairie Habitat Joint Venture Program Areas
- Current Issues within the PHJV
- Planning for the Future Wetland Policy
 - Special thanks to Deanna Dixon, Dave Ingstrup, Pat Kehoe for ideas and slides.



Wetland Loss Continues
Despite Benefits

economic value to all Canadians= \$20 billion/year*

- surface water storage and flood reduction
- water filtration and nutrient removal
- carbon storage
- wildlife habitat



* "Wetland Stewardship: New Directions" 2003

Canada's Wetlands

WETLANDS STEWARDSHIP NEW DIRECTIONS

Final Report of the Conf Wetlands Stewardship

VISION

An increase in the quantity and quality of Canada's wetlands where the ecological and hydrological functions are maintained or enhanced for the sustainable use of Canadians and Nature.



Canadian Wetlands Roundtable Steering Committee

- Canadian Federation of Agriculture
- Wildlife Habitat Canada
- CFPA
- Canadian Sphagnum Peat Association
- Canadian Association of Petroleum Producers
- Crop Life Canada
- BC Wildlife Federation
- Environment & Climate Change Canada
- Ducks Unlimited Canada
- Association of Fish & Wildlife Agencies

Canadian Wetlands Roundtable

Objectives

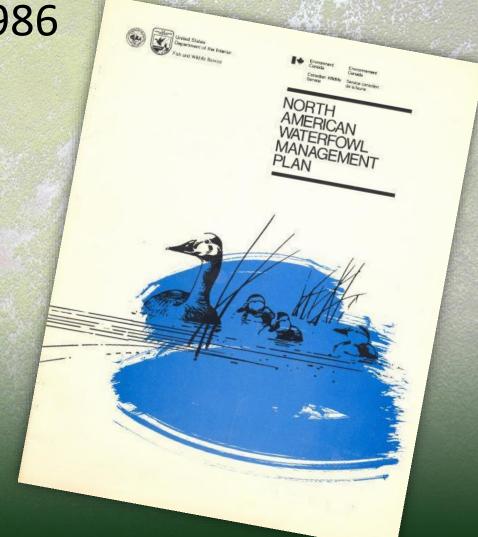
Inform and influence wetland policies that balance environmental, societal and economic considerations

Develop strategic partnerships for wetland stewardship nationally and internationally.

Communicate the importance of wetlands for the well-being of all Canadians.

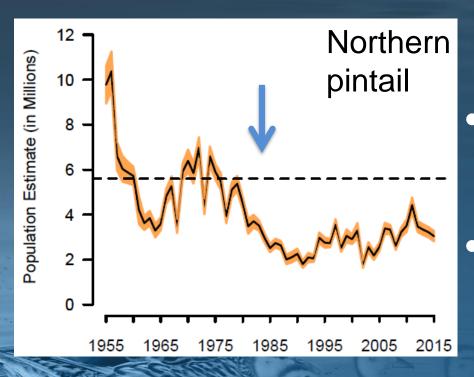
1980s Drought – Formation of the North American Waterfowl

Management Plan in 1986



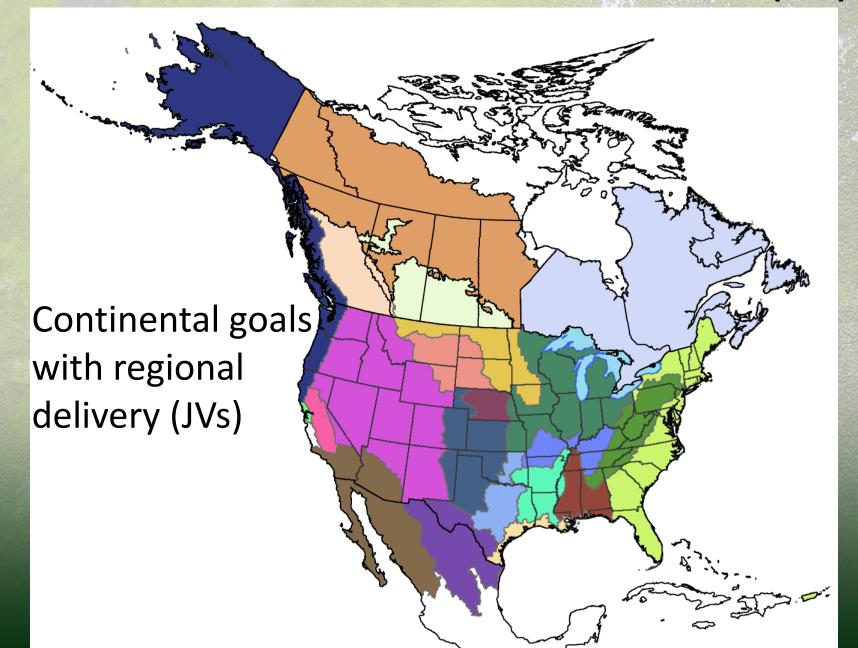


North American Waterfowl Management Plan (1986)



- Concern for ducks, other species
 - Plan launched unique partnership involving federal, provincial, state, NGOs of all three countries.

NAWMP Habitat Joint Ventures (JV)





NAWMP, 30 Years of Success

In Canada, 1986-2015

- 20M acres habitat secured (8M hectares)
- 138M acres habitat influenced (56.2M hectares)
- 3.5M acres habitat enhanced (1.4M hectares)
- 11M acres managed (4.4M hectares)



NAWMP, 30 Years of Success

In Canada, 1986-2015

\$2,120M total contributions

- \$540M U.S. Federal
- \$490M U.S. Non-Federal
- \$369M Canadian Federal
- \$323M Canadian Provincial and Territorial
- \$398M Canadian Other



Prairie Habitat Joint Venture

- Founding JV, established in 1986
- Largest JV in Canada and one of the most important continentally
- Success of NAWMP depends on success in the PHJV
- 70% of total breeding ducks annually surveyed are recorded in the Prairie-Parkland Region and Western Boreal Forest area of Canada



PHJV PPR and WBF Program Area





PHJV Prairie Parklands:

- Alberta
- Saskatchewan
- Manitoba
- Peace Parkland of BC
- 158M acres of land
- 82% of Canada's Ag lands
- 4.6M acres of wetlands in target areas
- -0.3% annual wetland loss



PRAIRIE HABITAT JOINT VENTURE: THE PRAIRIE PARKLANDS

IMPLEMENTATION PLAN 2013-2020



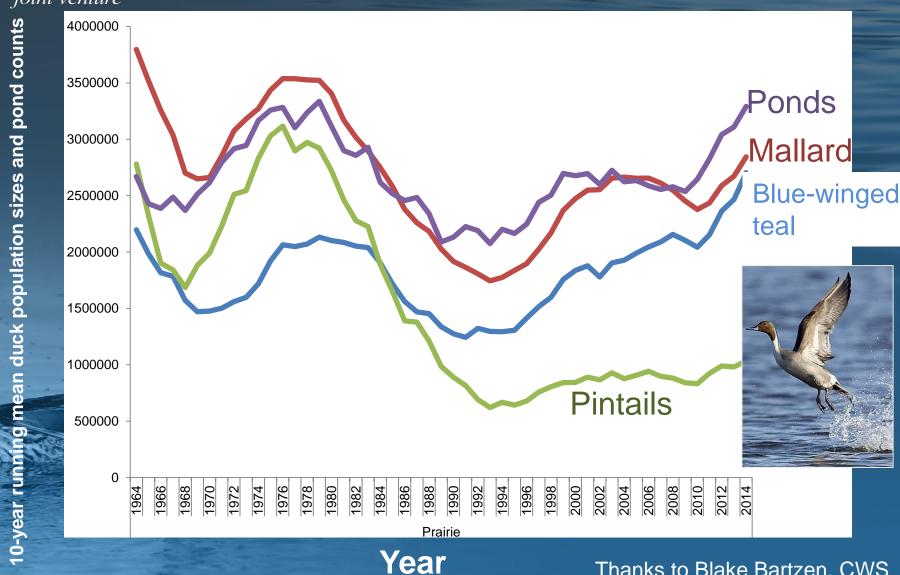






PPR - dabbling ducks and ponds

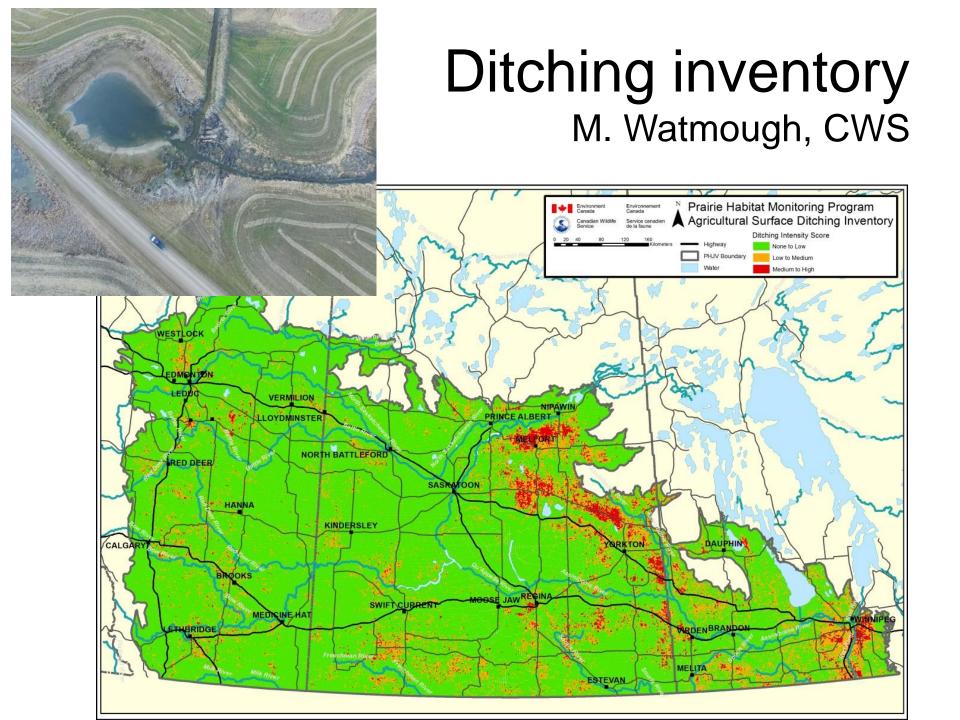
Thanks to Blake Bartzen, CWS





PHJV Current Issues

- Issue: Habitat loss and fragmentation
 - Conversion of native prairie and loss of wetlands further reduce carrying capacity for ducks and many other bird species.
- <u>Issue</u>: Industrial expansion and climate change in the WBF.



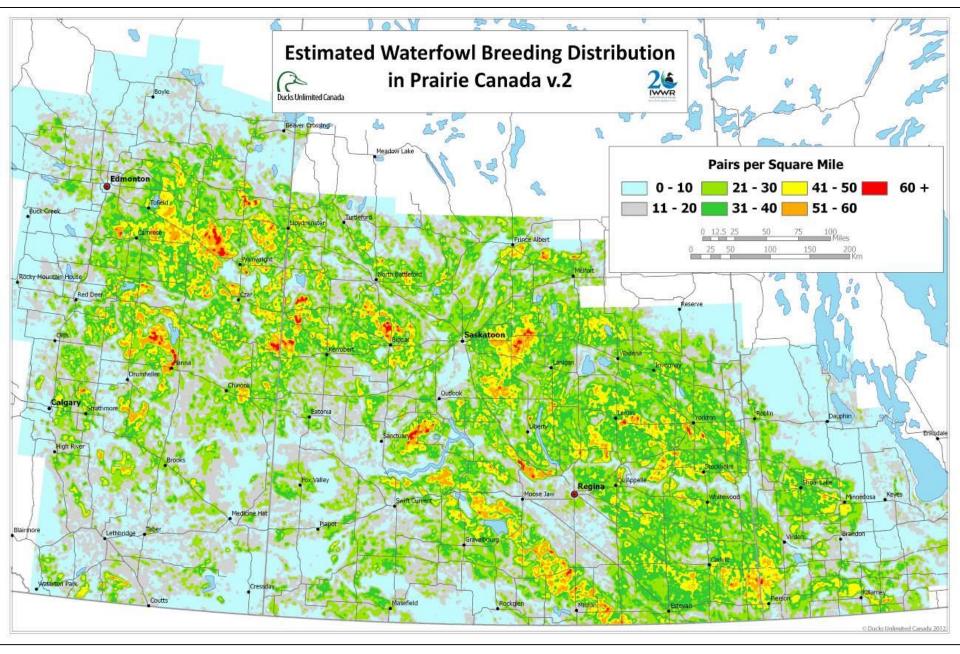


Figure A5-2. Estimated long-term average distribution of the seven most common dabbling and diving duck species breeding in prairie Canada.



PHJV Current Issues

On the positive side:

- -Wetland policy implementation (AB) or planning (MB,SK) are "advancing".
- Increasing pressure to sustain grasslands as a resilient multifunctional grazing resource (i.e., beef industry) and for Species at Risk

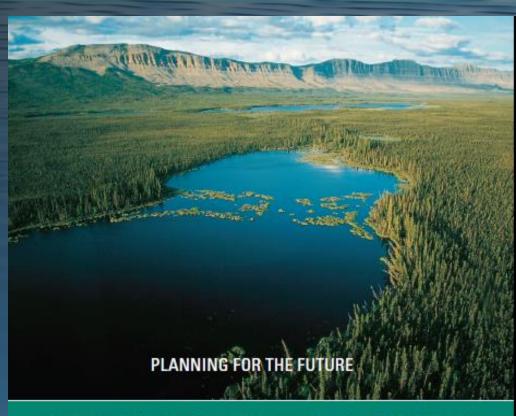
PPR Habitat Acre Objectives, 2013 to 2020

	Direct	Stewardship	Total	
Habitat Restoration	NAWMP	NAWMP		
Winter Wheat	-	-	15-20% of all wheat acres	
Tame Pasture	274,165	316,530	590,695	
Tame Hay	73,828	324,758	398,586	
Planted Cover	26,439	-	26,439	
Wetlands	7,900	-	7,900	
Nesting tunnels	1,360	-	1,360	
Sub-total	383,692	641,288	1,024,980	
Habitat Retention				
Wetland	343,402			
Upland	340,724			
Sub-total	684,126		684,126	
TOTAL HABITAT OBJECTIVES			1,709,106	



Western Boreal Forest

- Similar duck # to PPR, 4-5x the area
- 100M acres open water + 150M acres peatlands (& other wetlands)



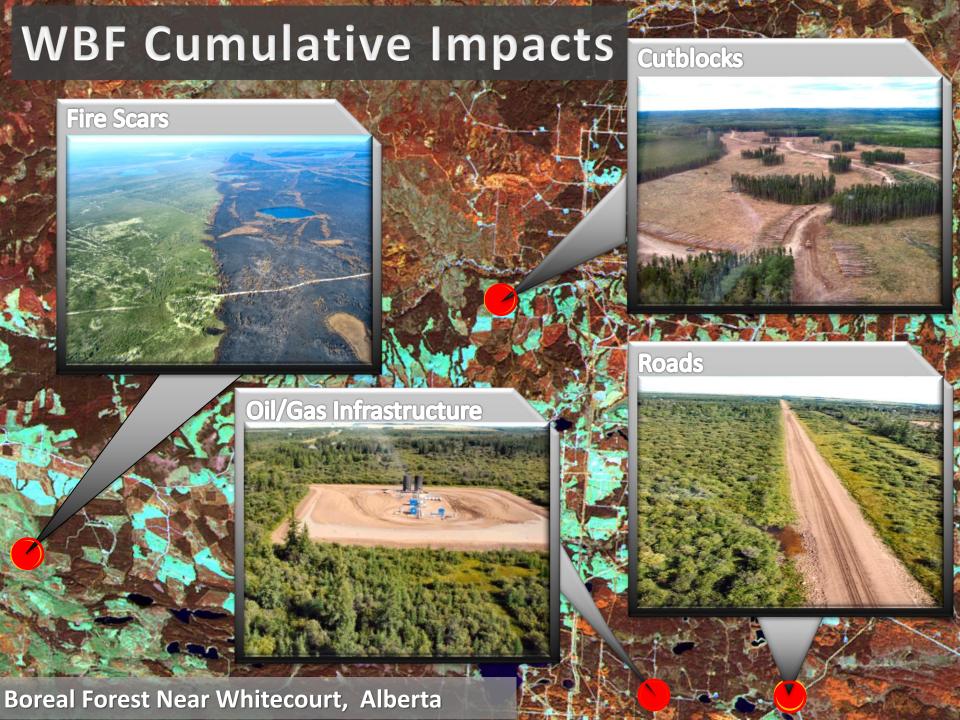
PRAIRIE HABITAT JOINT VENTURE: THE WESTERN BOREAL FOREST

IMPLEMENTATION PLAN 2013-2020



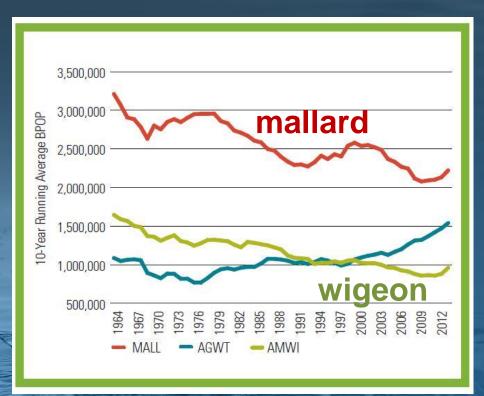


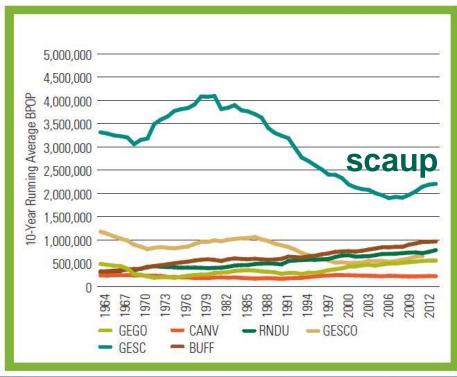


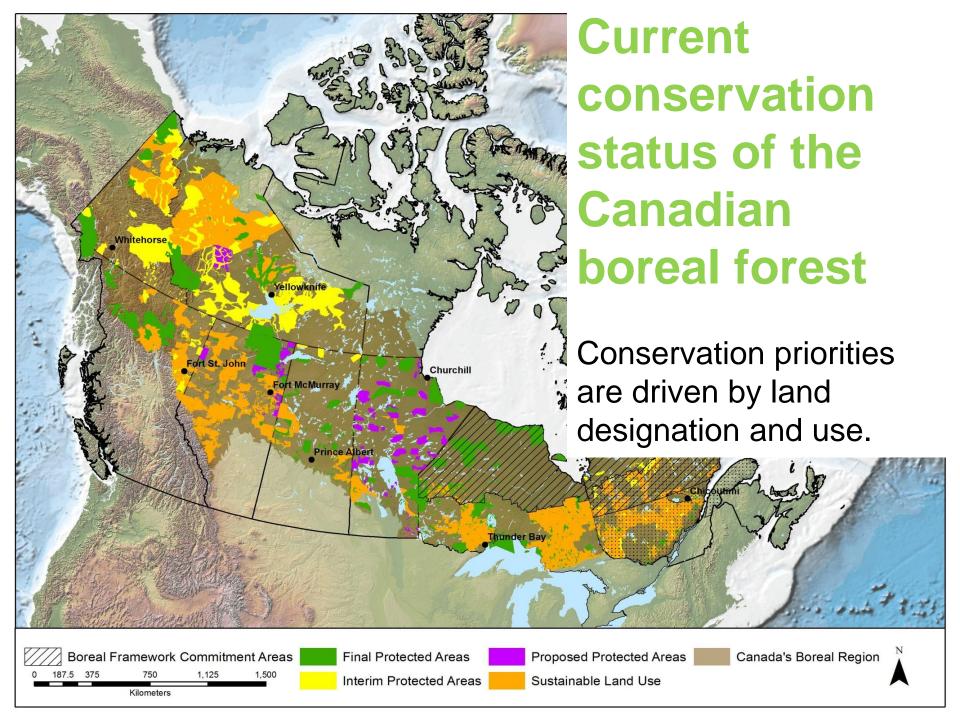




WBF waterfowl trends









WBF Habitat Goals: Objectives, 2013 – 2020

8 year goal – 30.7 million waterfowl acres

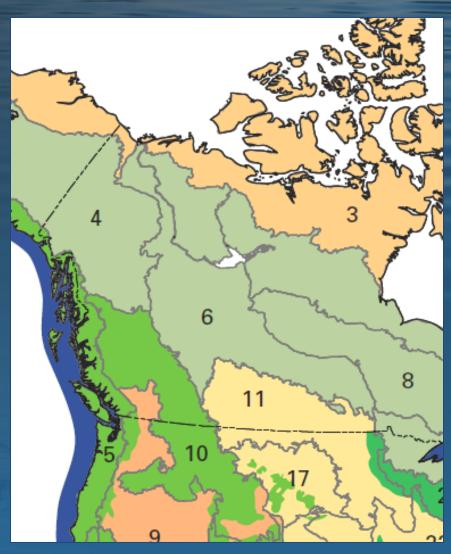
			Sustainable Land Use	
	Protected Lands		Areas	
Jurisdiction	Total	Waterfowl	Total	Waterfowl
Yukon	3.8	1.0	4.1	0.8
NWT	15.6	9.5	16.8	4.9
British Columbia	0.4	0.2	0.8	0.2
Alberta	7.5 ¹	3.1	26.1	6.6
Saskatchewan	0.3	0.1	5.4	1.7
Manitoba	3.3 ¹	2.4	0.7	0.5
Total	30.8	16.1	53.7	14.6

¹AB and MB are 92% and 29% accomplished as of 2013



Non-game bird component

- Alignment with BCR's "priority" species objectives.
- Consistent with Species at Risk recovery plans.
- New marsh bird products have been developed.



Bird Conservation Regions



PPR & WBF Non-Game Bird Priority Species for Conservation

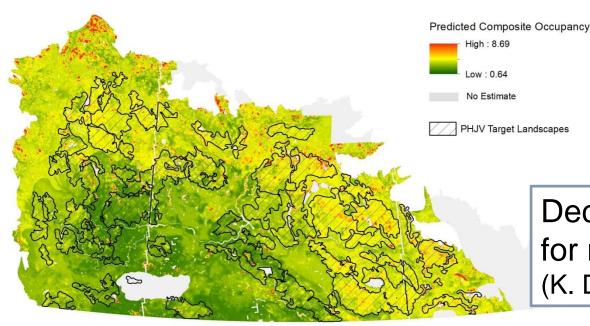
Continue to move toward all-bird conservation

Western Boreal Forest:

- 14 Shorebirds, 23 Waterbirds and 20 Landbirds
- 30 species are boreal specialists.

Prairie Parklands:

- 23 Shorebirds, 13 Waterbirds, 29 Landbirds
- 20 Species Listed under Canada's Species at Risk Act.



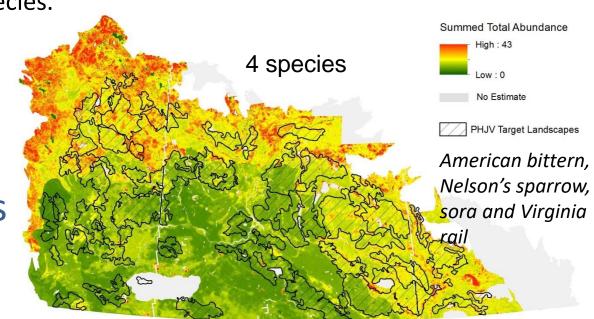
American bittern, American coot, eared grebe, horned grebe, piedbilled grebe, red-necked grebe, Nelson's sparrow, sora, Virginia rail and Wilson's snipe

Decision support tool (DST) for marsh bird species (K. Drake, Bird Studies Canada)

Predicted occurrences of 10 species.

Next steps:

- Model validation and refinements
- Integrate with DSTs for ducks.
- Extend to other non-game guilds.



Predicted abundances of 4 species.



NAWMP, 2012 Revision

Revised, Inter-connected Goals

- Abundant and resilient waterfowl populations to support hunting and other uses without imperiling habitat.
- Growing numbers of waterfowl hunters, other conservationists, and citizens who enjoy and actively support waterfowl and wetlands conservation.
- Wetlands and related habitats sufficient to sustain waterfowl populations at desired levels, while providing places to recreate and ecological services that benefit society.



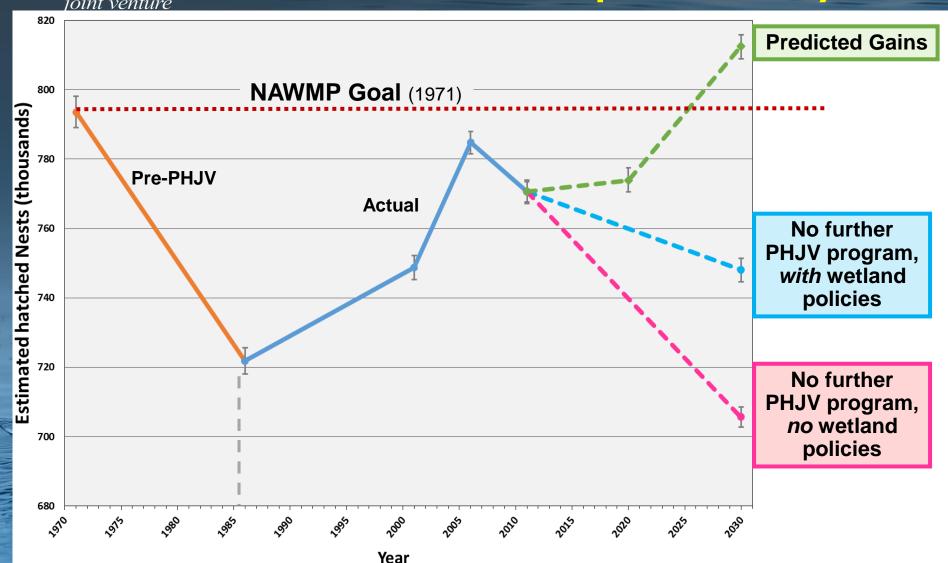


PHJV Planning for the Future

- Effective wetland policies that conserve habitat
- Population concerns for 5 duck species & 66 non-waterfowl species
- Wetland and upland inventories
- Impacts of future climate & land use changes on migratory birds
- Integrating HD in future plans



Projected impacts on (annual) duck productivity

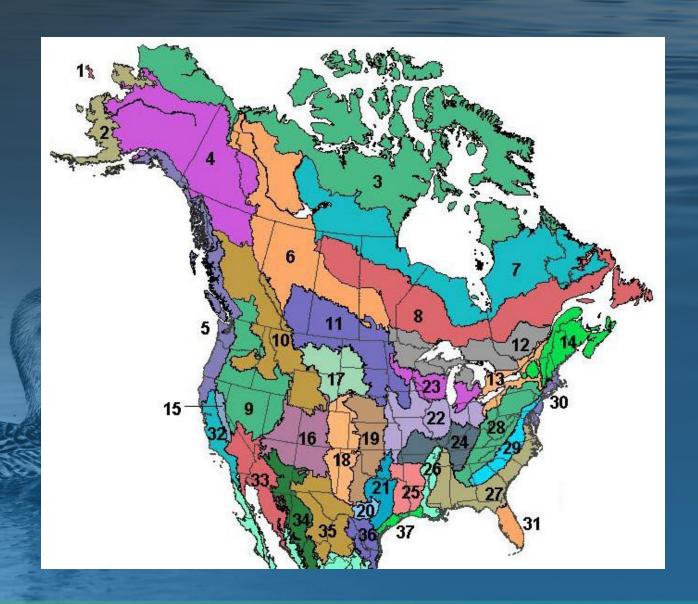


Questions or comments?





Bird Conservation Regions (BCR)



Advancing Wetland Conservation in Canada

Pat Kehoe
Director of International Partnerships
Ducks Unlimited Canada

Building Canada's Wetland Industry





Acknowledgements

Our Major Partners

- U.S. Fish and Wildlife Service
- North American Wetlands Conservation Council NAWCA
- Canadian Federal departments
- State, Provincial, Territorial, 1st Nations Governments
- International Boreal Conservation Campaign
- PEW Charitable Trust
- Ducks Unlimited Inc. and DU Canada
- The Nature Conservancy
- National Wildlife Federation
- US Forest Service
- Other United States NGOs & Corporate Agencies
- NAWMP Plan Committee (1986 endorsement; ongoing support)
- >17,000 landowners



PHJV Organization

PHJV Board

- David Ingstrup Environment Canada (Canadian Wildlife Service)
- Travis Ripley, Alberta Environment & Parks and Alberta NAWMP
- Lyle Saigeon, Saskatchewan Environment
- Glen McMaster, Saskatchewan Water Security Agency
- James Duncan, Manitoba Conservation and Water Stewardship
- Tim Sopuck, Manitoba Habitat Heritage Corporation
- Scott Stephens, Ducks Unlimited Canada
- Kevin Teneycke, Nature Conservancy of Canada

PHJV Science Committee, Policy Committee, & Communications

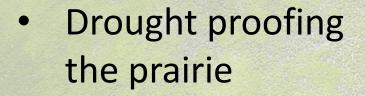
Committee PLUS Provincial Implementation Teams

PHJV Coordinator: deanna.dixon@canada.ca

www.PHJV.CA

Reactive

1930s Drought – Ducks Unlimited Canada (1938)





What's Been Done

Proactive

1990s

- Brundtland Commission report Our Common Future
- Sustaining Wetlands Forum
- Canadian Wetlands Conservation Task Force
- Federal Policy on Wetland Conservation
- Canada's Minister of the Environment establishes the North American Wetlands Conservation Council (Canada)

What's Been Done

Enactment of the North American Waterfowl Conservation Act in 1989 – A unique funding mechanism

 Early example of payment for ecological goods and services export products from wetlands

What's Been Done

NAWCC Canada

- Formed 1990 to administer the NAWMP and advance wetlands conservation nationally
- Predominantly Government and ENGO's associated with NAWMP delivery
- Highly successful partnership in direct habitat conservation
- Struggles with outreach (new partners and advancing policy reform)

The Future of Prairie Wetlands is in Our Hands

Steering Committee

- CFA
- CFPA
- Canadian Sphagnum Peat Association
- CAPP
- Crop Life Canada
- BC Wildlife Federation
- WHC
- EC
- NB DNR
- AFWA

Collaboration

- The Roundtable and NAWCC Canada have developed complementary Terms of reference and work plans
- NAWCC Canada
 - coordination of NAWCA funding
 - advancing science and technology (Incl. Inventory)
 - communications and education associated with NAWCA and NAWMP programs in Canada.
- Canadian Wetlands Roundtable
 - broadening the partnership
 - advancing policy
 - wetland science and technology (esp. Economic evaluation of EGS)
 - communications and education of broader wetlands conservation issues and needs.

Broadening the Partnership

- Agriculture
- Forestry
- Mining
- Peat Harvesting
- Oil and Gas
- Aggregate
- Insurance
- Construction

- Engineering Consultants
- Wetland Restoration / Construction
- Chemical and BioTechnology
- Outdoor Recreation
- Conservation
- Academia

Proposed workshops

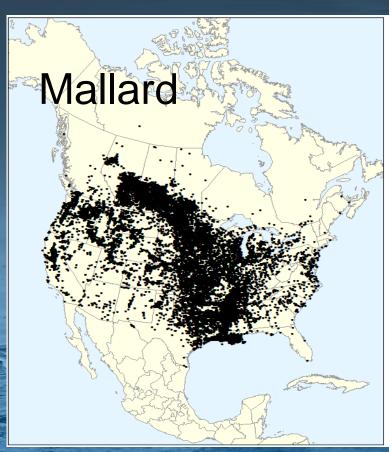
- To be planned for 2016
- Status and needs re:
 - Wetland Inventory
 - Contemporary Wetland Policy in Canada
 - Current Evaluation of Wetland EGS

REVIEW FOCUSED ON "IMPLEMENTATION STRATEGIES"

- Policy framework in support of Canada's Wetland Vision
- Governance structure to facilitate wetland conservation
- 3. Capacity resources, science, knowledge, tools to fulfil Canada's Wetland Vision
- 4. National inventory of Canada's wetlands
- 5. Integrated watershed management across Canada
- 6. High level of wetland literacy among Canadians
- 7. Thriving and sustainable wetland industry



Direct recoveries of mallards and all ducks banded in the Prairie-Parkland area





Canadian Wetlands Roundtable

Vision

Sustainability through Responsible Management of Canada's Wetlands

Mission

Secure Canada's position as a global leader in the responsible management, use and conservation of wetlands based on sound science.

Objectives

Inform and influence wetland policies that balance environmental, societal and economic considerations

Develop strategic partnerships for wetland stewardship nationally and internationally.

Communicate the importance of wetlands for the well-being of all Canadians.

Knowledge Creation

Strategies

Knowledge Dissemination

 Identify knowledge gaps for improved wetland conservation.

- Promote the measurement of and reporting on progress in wetland conservation.
- Work in collaboration with NAWCC (Canada) to support and guide the advancement of wetland science.
- Develop, monitor
 and promote
 effective
 wetland conserva
 tion initiatives and
 management
 practices
 nationally and
 internationally.
- Work with government, industry and stakeholders to develop new or enhanced options that support wetland conservation and sustainable use.
 - Develop a credible voice to government on wetland issues and conservation value
- Develop effective communication tools to inform industry and public about wetland value and importance of conservation.



Wetland conservation solutions (legislative, policy, BMPs etc.) are practical and implementable and built on objective and credible information and science.

Outcomes

Communication and messages on wetland conservation and sustainable use from roundtable and stakeholders are clear and consistent.

Industries and public that understand the value of wetlands and take action to conserve them

*

NAWMP

- Has long recognized long term success is not possible without policy reform
- Some progress has been made, but slow relative to JV needs
- New approach needed as habitat continues to be lost in critical areas despite positive impacts of direct programs



Example: PPR Wetland Drainage

Large ditch network to drain multiple semipermanent wetlands.

