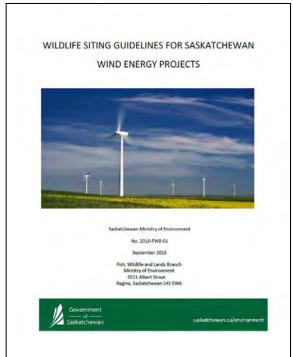
Wildlife Siting Guideline for Wind Energy Projects



Strategic Conservation Specialist
Ministry of Environment
Fish, Wildlife and Lands Branch



Guideline development process

SaskPower-MoE Priority Issues Committee Spring 2015 Initial
Guideline
Development
Summer/Fall
2015

Early Draft to CanWEA Jan 2016 SEARP Review, Industry & ENGO Consult April – Jun 2016

Ministry
Approval &
Release
Sept 2016



Focus on avoidance...

"Mitigation is *a process* for managing development impacts through the application of a step-wise progression of actions to avoid, minimize and offset adverse effects, followed by monitoring, to ensure goals are met over time."





Policy Intent of Wind Guideline

- Help WEP developers:
 - enhance environmental performance
 - avoid environmental risks and liabilities
 - expedite environmental approvals
 - reduce costs of operational restrictions
- Help government:
 - optimize the benefits of wind power development
 - provide more efficient EIA screening
 - encourage investment in wind power projects
 - avoid public concern over WEP siting choices



Principles

- Outcomes (or risk) based approach to development approvals
 - encouraging proponent innovation and informed business decisions based on environmental risk
- Mitigation based on tiered avoidance, minimization and offset measures
 - optimizing project economics and environmental outcomes
- Precautionary adaptive management
 - approve based on best current information, monitor, adjust based on documented experience



Main elements of Guideline

- Avoidance zones (high risk areas)
- Siting and design advice to further avoid and minimize potential impacts
- Pre-construction species assessment process

Proponents still required to follow usual EA process and receive ministry approval before proceeding with a development.



Site selection (avoidance)

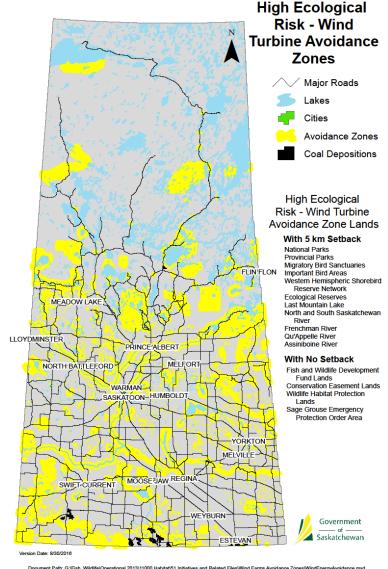
Set back of 5 km (avoidance zones) based on ecological risk and public concern on:

National & Provincial Parks
Migratory Bird Sanctuaries
Important Bird Areas
WHRN sites
Ecological Reserves
Major Rivers
Last Mountain Lake

Avoidance areas without setbacks:

FWDF lands
Conservation easement areas
WHPA lands
Critical Habitat for SAR

Site-specific avoidance of native land cover "strongly encouraged"



ocument Path: G:\Fish_Wildlife\Operational 2013\11000 Habitat\51 Initiatives and Related Files\Wind Farms Avoidance Zones\WindEnergyAvoidance.mx



Guideline is Silent on...

- Post-construction monitoring and reporting
- Adaptive management
- Compensatory mitigation
- Mortality thresholds

Supplementary guidance to be developed in these areas in consultation with industry and other stakeholders...



Looking ahead:

- Siting Guideline is an "evergreen" document
- Effectiveness of avoidance zones will be assessed and criteria may be adjusted as new evidence is gathered
- Planning info (e.g. critical habitat mapping, predictive species modelling results, and prairie and wetland inventory results) updated as available

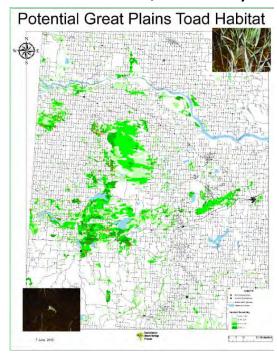
Questions?

Planning Information and Resources





- New client-centred, online mapping application that consolidates data and existing applications to provide clients with "one-stop" hunting, angling and biodiversity map information.
- Target users: Hunters, anglers, naturalists and consultants/industry
- Coming soon:
 - Adding modeled at-risk species distribution map layers and SAR habitat suitability map layers
 - Archaeological information
 - WSA Wetland Inventory
 - Forest Ecosite Classification
 - Saskatchewan Breeding Bird Atlas (new version)
 - Prairie Land Inventory
- Functionality enhancements based on:
- User/Client demand
- Platform improvements



https://gisappl.saskatchewan.ca/Html5Ext/?viewer=habisask

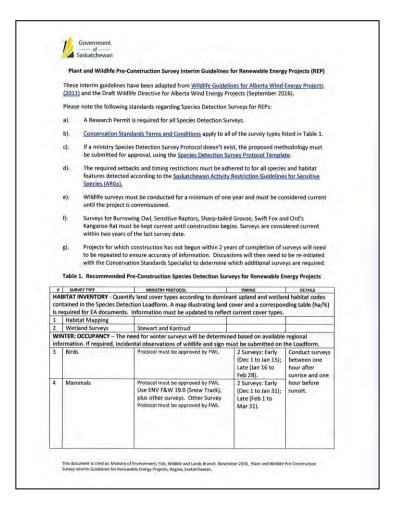


Conservation Standards Program (CSP): "Environmental Data is Our Currency"

- Recent amendment of Wildlife Act & Regulations require:
 - Research permit for commercial projects
 - Use of approved species detection protocols
 - Submission of data to MOE using standard
 Submission Summary Forms and Loadforms
- Goal is high quality data to inform approval decisions and future planning processes



Conservation Standards Program (CSP): "Environmental Data is Our Currency"



Plant and Wildlife
Pre-Construction
Survey Interim
Guidelines for
Renewable Energy
Projects (REP)

Contact the
Conservation Standards
Specialist for more
information

Karyn.scalise@gov.sk.ca

http://www.saskatchewan.ca/business/environmental-protection-and-sustainability/wildlife-and-conservation/wildlife-research-permitting



Activity Restriction Guidelines

- Assist proponents during project planning
- Pre-planning and avoidance of key habitats of sensitive species during sensitive periods is preferred
- Contact the Ministry of Environment at centre.inquiry@gov.sk.ca early in the planning stage to minimize any impacts to sensitive species.

Saskatchewan.ca Publications Centre

http://publications.gov.sk.ca/documents/66/92181-Saskatchewan%20Activity%20Restriction%20Guidelines%20for%20Sensitive%20Sensi

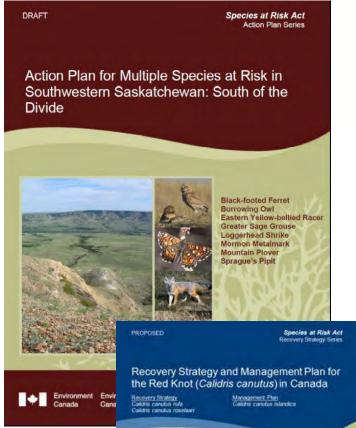


Managing for Species at Risk



SAR News

- SOD Action Plan (designation of CH)
- New recovery strategies
- New ECCC policies RE: SARA



Species at Risk Public Registry

https://www.registrelep-sararegistry.gc.ca/default.asp?lang=en&n=24F7211B-1



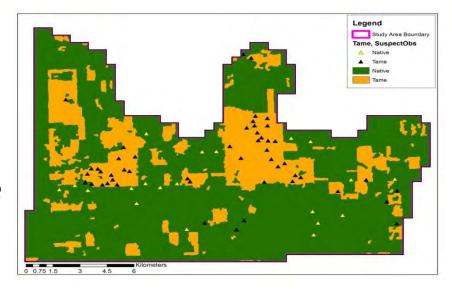
Ongoing Initiatives



Saskatchewan Prairie Landcover

Goals:

- Update Sask landcover/landuse
- 2. Distinguish between native and tame grasslands



Assessing cost and feasibility of 3 methods for landcover & landuse mapping:

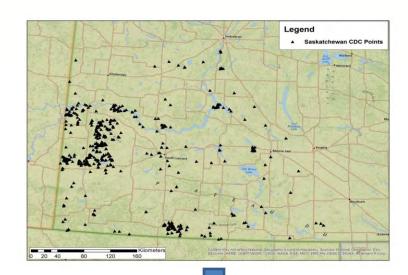
- 1. Remote sensing
- 2. Heads-up digitizing using aerial photographs
- 3. LiDAR

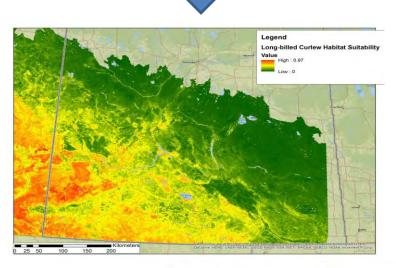


Species-habitat modelling

Goals:

- 1. Industrial planning purposes
 - Take point data and convert into border-to-border predictive maps of occurrence
- 2. Models will be updated
- 3. Served up on HABISask
 - GIS.Saskatchewan.ca

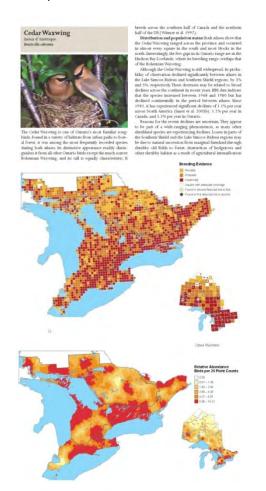


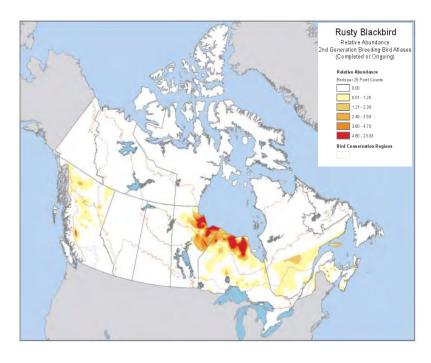




Saskatchewan Bird Atlas

Goal: Assessment of the Distribution and Relative Abundance of All Populations of Breeding Birds within Saskatchewan





Atlas Applications

- Documenting species range and population changes
- Environmental impact assessment
- Landscape use & strategic conservation planning
- Assessment of bird-environment associations



Saskatchewan Bird Atlas

- Part of Canada's National Atlas Program led by Bird Studies Canada
- Partnership: ECCC, BSC, Provincial Gov't, private sector, natural history organizations

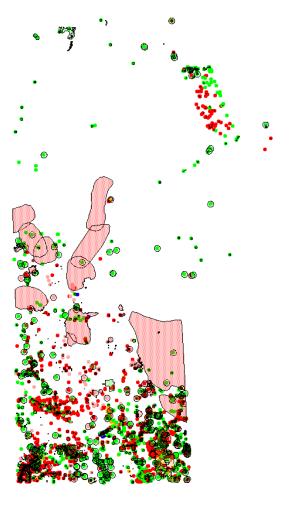
Saskatchewan will be surveyed 2017-21



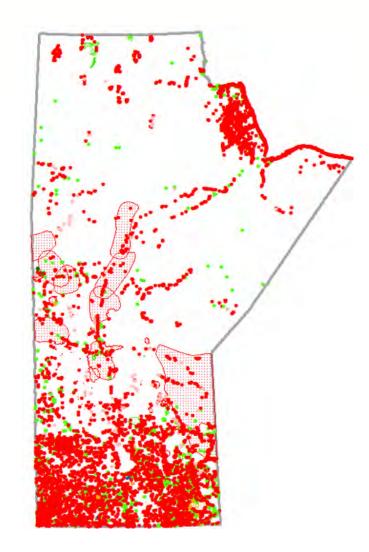
Kiel Drake
Saskatchewan Program Manager
kdrake@birdscanada.org



Contribution to the conservation planning data set



April 2010



April 2013



saskatchewan.ca

Peter Joyce Ministry of Environment Fish, Wildlife and Lands Branch

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