



Miistakis  
Institute

# Private Land Conservation and CARTS: Proposed Revised Database Fields

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## **Private Land Conservation and CARTS: Proposed Revised Database Fields**

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## Summary

### All Conservation Areas

#### Identifiers

- Name of conservation area
- Unique identifier number

#### Zonation

- Sub-zone of conservation area
- Sub-zone name
- Sub-zone description

#### Location and Size

- Location, Spatially explicit
- Province/Territory
- Municipality
- Area

#### Ecological

- Ecosystem – Type
- Ecodistrict
- Biodiversity conservation contribution

#### Agency and Ownership

- Conservation agency
- Conservation agency type
- Land owner type

## **Protection and Management**

- Conservation area type
- Protective measures
- Effective management regime

## **Data Management**

- Date of effect
- Data provider
- Date of most recent data update
- Delisted
- Date of CARTS delisting

## **Other**

- Screening Report
- General comments about conservation area

## **Conservation Area Type Sub-Fields**

*(set of fields that open based on the type of conservation area chosen 'Protection and Management')*

## **Public Protected Areas (PAs)**

- Type of publicly protected area
- Managing jurisdiction of area
- IUCN Category for area
- Legal status of zone
- Enabling legislation for zone
- Property owner of zone

## **Privately Protected Areas (PPAs)**

- Type of privately protected area
- IUCN Category for area
- Public access

## **Other Effective Area-based Conservation Measures (OECMs)**

- OECM category
- Management intent
- Public access

## Detailed

All Conservation Areas	Possible Responses	Notes
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### Identifiers

Name of conservation area	<ul style="list-style-type: none"> <li>Name</li> <li>Name - Zone name</li> </ul>	<ul style="list-style-type: none"> <li>If conservation area is split into 'sub-zones', each sub-zone name would start with the parent area name</li> </ul>
Unique identifier number	<ul style="list-style-type: none"> <li>XXXXXXX</li> <li>XXXXXXX - ZXX</li> </ul>	<ul style="list-style-type: none"> <li>An identification code for each conservation area that will be unique from other conservation areas</li> <li>Nomenclature could be developed that uses first two characters for province</li> <li>Should be generated automatically by CARTS</li> <li>Would automatically add zone number if 'sub-zone' field returns TRUE</li> </ul>

### Zonation

Sub-zone of conservation area	<ul style="list-style-type: none"> <li>Yes / No</li> </ul>	<ul style="list-style-type: none"> <li>Some agencies may want to separate a single conservation area into sub-zones with different attributes</li> <li>All information from that point would apply to the sub-zone rather than the whole conservation area</li> </ul>
Sub-zone name	<ul style="list-style-type: none"> <li>[if yes]</li> <li>Zone name</li> </ul>	<ul style="list-style-type: none"> <li>Added to parent name in case where 'sub-zone' field returns TRUE</li> <li></li> </ul>
Sub-zone description	<ul style="list-style-type: none"> <li>[if yes]</li> <li>Text</li> </ul>	<ul style="list-style-type: none"> <li>E.g., Marine portion, Wilderness zone, wetland area, specialized grazing management area</li> </ul>

### Location and Size



Location, Spatially explicit	<ul style="list-style-type: none"> <li>• Uploaded Shapefile</li> <li>• KMz file</li> </ul>	<ul style="list-style-type: none"> <li>• Requires spatially-explicit description</li> <li>• Shapefile could auto-populate the other fields</li> </ul>
Province/Territory	<ul style="list-style-type: none"> <li>• List of provinces</li> <li>• County/municipality</li> </ul>	<ul style="list-style-type: none"> <li>• Shapefile could auto-populate this information</li> </ul>
Municipality	<ul style="list-style-type: none"> <li>• Municipality (county, city, town, RM, MD, etc.)</li> </ul>	<ul style="list-style-type: none"> <li>• Shapefile could auto-populate this information</li> </ul>
Area	<ul style="list-style-type: none"> <li>• Number (hectares)</li> </ul>	<ul style="list-style-type: none"> <li>• Shapefile could auto-populate this information</li> </ul>

<b>Ecological</b>
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Ecosystem – Type	<ul style="list-style-type: none"> <li>• Marine - %</li> <li>• Terrestrial - %</li> <li>• Fresh water - %</li> </ul>	<ul style="list-style-type: none"> <li>• Several conservation areas will be a combination of types</li> <li>• Percentage allocations will allow for later analysis as to how many hectares of each type are protected</li> </ul>
Ecodistrict	<ul style="list-style-type: none"> <li>• Natural Regions</li> <li>• Ecozone / ecoregions</li> <li>• Ecodistricts</li> </ul>	<ul style="list-style-type: none"> <li>• Could be a different set for each province</li> <li>• Shapefile could auto-populate this information</li> </ul>
Biodiversity conservation contribution	<ul style="list-style-type: none"> <li>• Ecological connectivity</li> <li>• Important patches of terrestrial or aquatic wildlife habitat</li> <li>• Important areas of natural vegetation</li> <li>• Vulnerable, rare, or irreplaceable species and their habitat</li> <li>• Riparian, wetland and riverine systems</li> <li>• Buffering known areas of biological diversity</li> <li>• Mitigating known threats to areas of important biological diversity</li> </ul>	<ul style="list-style-type: none"> <li>• [taken from screening report]</li> </ul>

	<ul style="list-style-type: none"> <li>• Protecting evolutionary pathways important in the face of climate change</li> <li>• Sequestering carbon above or below ground using natural vegetation communities</li> <li>• Restoring ecological structure and function to a natural state</li> </ul>	
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<b>Agency and Ownership</b>
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Conservation agency	<ul style="list-style-type: none"> <li>• Agency / Organization Name</li> </ul>	<ul style="list-style-type: none"> <li>• E.g., managing jurisdiction of park, holder of conservation easement, authority responsible for enforcing use restrictions, land management authority, community responsible for area management</li> <li>• Contact information</li> </ul>
Conservation agency type	<ul style="list-style-type: none"> <li>• Federal government or agency</li> <li>• Provincial government or agency</li> <li>• Municipal government</li> <li>• Land trust / conservancy</li> <li>• Company</li> <li>• Community</li> <li>• ?</li> </ul>	<ul style="list-style-type: none"> <li>• This is the type of entity responsible for ensuring that biodiversity is conserved on the property</li> </ul>
Property owner of conservation area	<ul style="list-style-type: none"> <li>• Name</li> </ul>	<ul style="list-style-type: none"> <li>• E.g., Environment and Climate Change Canada, Canadian Wildlife Service, provincial parks agency, municipality, land trust, company, private owner</li> </ul>
Land owner type	<ul style="list-style-type: none"> <li>• Crown – federal</li> <li>• Crown – provincial</li> <li>• Municipality</li> <li>• Private individual</li> </ul>	<ul style="list-style-type: none"> <li>• Choice of one - the most appropriate</li> <li>• In case of overlap, add details in ‘General Comments’</li> </ul>

	<ul style="list-style-type: none"> <li>• Company / corporation</li> <li>• Conservation NGO</li> <li>• Other NGO</li> <li>• Community group</li> </ul>	
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<b>Protection and Management</b>
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Conservation area type	<ul style="list-style-type: none"> <li>• Publicly Protected Area (PA)</li> <li>• Privately Protected Area (PPA)</li> <li>• Other Effective Area-based Conservation Measure (OECM)</li> </ul>	<ul style="list-style-type: none"> <li>• Choice here would direct database user to one of the three subsets of fields (see below)</li> </ul>
Protective measures	<ul style="list-style-type: none"> <li>• Enforceable restrictions and/or prescriptions on the allowable land use activities that could significantly affect the identified ecological values</li> <li>• Gazetted protected areas</li> <li>• Conservation easement</li> <li>• Ownership by land trust or conservancy</li> <li>• Enduring management plan</li> <li>• Binding agreement with rights holders</li> <li>• Community covenant</li> </ul>	<ul style="list-style-type: none"> <li>• [taken from screening report]</li> </ul>
Effective management regime	<ul style="list-style-type: none"> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>• [taken from screening report]</li> </ul>

<b>Data Management</b>
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Date of effect	<ul style="list-style-type: none"> <li>Date</li> </ul>	<ul style="list-style-type: none"> <li>The date at which the conservation area was effectively conserved</li> </ul>
Data provider	<ul style="list-style-type: none"> <li>Name</li> <li>Contact information</li> </ul>	<ul style="list-style-type: none"> <li>Name of agency or conservation manager or agent who is responsible for the transmission and accuracy of the data</li> <li>Contact information can and should be included</li> </ul>
Date of most recent data update	<ul style="list-style-type: none"> <li>Date</li> </ul>	<ul style="list-style-type: none"> <li></li> </ul>
Delisted	<ul style="list-style-type: none"> <li>Yes / No</li> </ul>	<ul style="list-style-type: none"> <li></li> </ul>
Date of CARTS delisting	<ul style="list-style-type: none"> <li>Date</li> </ul>	<ul style="list-style-type: none"> <li></li> </ul>

<b>Other</b>
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Screening Report	<ul style="list-style-type: none"> <li>Downloadable document</li> </ul>	<ul style="list-style-type: none"> <li>Summary of the screening report and decision</li> </ul>
General comments about conservation area	<ul style="list-style-type: none"> <li>Text</li> </ul>	<ul style="list-style-type: none"> <li></li> </ul>

<b>Sub Field – Publicly Protected Areas</b>	<b>Possible Responses</b>	<b>Notes</b>
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Type of publicly protected area	<ul style="list-style-type: none"> <li>E.g., Ecological Reserve; Provincial Park; National Wildlife Area Null values are not permitted</li> </ul>	<ul style="list-style-type: none"> <li>E.g., Ecological Reserve; Provincial Park; National Wildlife Area</li> <li>Null values are not permitted</li> </ul>
Managing jurisdiction of area	<ul style="list-style-type: none"> <li></li> </ul>	<ul style="list-style-type: none"> <li></li> </ul>
IUCN Category for area	<ul style="list-style-type: none"> <li>Ia, Ib, II, III, IV, V, VI, YES, N/A</li> </ul>	<ul style="list-style-type: none"> <li></li> </ul>
Legal status of zone	<ul style="list-style-type: none"> <li>Legally Designated, Gazetted, Interim, Designated by</li> </ul>	<ul style="list-style-type: none"> <li></li> </ul>

	<ul style="list-style-type: none"> <li>• ENGO/Private, Proposed Site, Degazetted</li> </ul>	
Enabling legislation for zone	<ul style="list-style-type: none"> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>• E.g., Canada Wildlife Act, provincial parks act, National Parks Act</li> </ul>

<b>Sub Field – Privately Protected Areas</b>	<b>Field - PPA</b>	<b>Possible Responses</b>	<b>Notes</b>
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Type of privately protected area	<ul style="list-style-type: none"> <li>• Privately owned and conserved by land trust or conservancy</li> <li>• Privately owned and conserved by company</li> <li>• Privately owned and conserved by community group</li> <li>• Privately owned and conserved with third-party restrictions</li> <li>• ?</li> </ul>	<ul style="list-style-type: none"> <li>• [need way to address that simple “ownership” does not ensure that specific parcel will endure as a protected area]</li> <li>• Check all that apply</li> </ul>
IUCN Category for area	<ul style="list-style-type: none"> <li>• Ia, Ib, II, III, IV, V, VI, YES, N/A</li> </ul>	<ul style="list-style-type: none"> <li>• As these are protected areas, it makes sense to use the protected area categories</li> </ul>
Public access	<ul style="list-style-type: none"> <li>• Yes / No</li> </ul>	<ul style="list-style-type: none"> <li>•</li> </ul>

<b>Sub-Field - OECMs</b>	<b>Possible Responses</b>	<b>Notes</b>
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OECM category	<ul style="list-style-type: none"> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>• Need to develop a set of categories for OECMs akin to the range of types available for describing protected areas</li> <li>• These are – by definition – NOT Protected Areas, so using PA categories would not make sense</li> </ul>
Management intent	<ul style="list-style-type: none"> <li>• Ecological conservation</li> </ul>	<ul style="list-style-type: none"> <li>• [taken from screening report]</li> </ul>

	<ul style="list-style-type: none"> <li>• Range management</li> <li>• Cultivation</li> <li>• Recreation</li> <li>• Open space preservation</li> <li>• Scenic / aesthetic protection</li> <li>• Ecological research / environmental education</li> <li>• ?</li> </ul>	
Public access	<ul style="list-style-type: none"> <li>• Yes / No</li> </ul>	<ul style="list-style-type: none"> <li>• Must be Yes or No</li> </ul>

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