# INFO ENTRY

ENTRY NOTES:

* green = does not need to be editted
* yellow = info for the inputter
* ref\_id = "refs\_glossary\_2024-08-09.xls > "references" tab
  + if the reference not present, either add it (if you’re confident that you can follow the format), or add a comment in this doc with the info and I will adjust
* **images – file name in** "refs\_glossary\_2024-08-09.xls > "references" tab
* Ignore everything in the "POPULATE MARKDOWN" section
* Size of columns in tables and text format do not matter; see note on bold and italize below
* Any content with "glue}`` prefix or surrounded by "{{ " / " }}" indicates where text will be inserted from the keys
* You may see "<br>" throughout, you can ignore these
* additional formatting notes (optional)
  + \*\***bold**\*\*
  + \**italics*\*
* **Topic Info**
  + If the topic is NOT related to a question, you can leave "question" as NULL
  + "question" here is more for your reference
* **Assumptions, Pros, Cons**
  + Only for modelling approaches; can ignore otherwise (leave table here)
  + [WILL BE HERE, BUT INSERTED DIRECTLY FROM CSV FILE (THUS NO INPUT NEEDED)]
* **Advanced/**In-depth
  + If the topic doesn’t warrant inclusion, you can leave as NULL
* **Figures**
  + Placeholders here as "filename" can leave in if not <5 images
* **Video**
  + no "<" before the URL text and a ">" after URL in this case
  + ref\_id in this example is not correct, just for illustrative purposes
* **Analytical tools & Resources**
  + The ref\_id should be included in the reference column (and the full text reference in the master reference file). If you aren’t sure if the reference is in the master doc, add the full text ref as a comment.
  + Please add a "<" before the URL text and a ">" after (e.g., <http://www.somesitelink.com>)
  + Type can be something similar to: Article, App/Program, R package
* **References / Glossary** 
  + items in-text above (IGNORE FOR NOW)
* **Notes**
  + (future ref / not included in markdown conversion)

## Topic Info

|  |  |
| --- | --- |
| **info\_id** | study\_area  **02\_01\_study\_area**  **02\_02\_camera\_arrangement** |
| **question** | Headers:  \*\*<font size="4"><span style="color:#2F5496">How does this relate to study design?</font></span>\*\*  \*\*<font size="4"><span style="color:#2F5496">How does that work?</font></span>\*\*  \*\*<font size="4"><span style="color:#2F5496">Why do we care?</font></span>\*\*  > \*\*Select "Unknown" if you’re not sure.\*\*  This section will be available soon! In the meantime, check out the information in the other tabs!  :::{figure} ../03\_images/03\_image\_files/00\_coming\_soon.png  :width: 300px  :align: center  :::  {bdg-link-primary-line}`Spatial count<https://ab-rcsc.github.io/rc-decision-support-tool\_concept-library/02\_dialog-boxes/03\_14\_mod\_sc.html>` |

## Note banner

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## # Study area

## Overview

A [study area](#study\_area) is a unique area(s) within a [project](#project). There may be multiple [study areas](#study\_area) within a larger [study area](#study\_area). Aspects to consider when identifying the [study area](#study\_area) include the spatial extent (and method of delineation), shape ({{ ref\_intext\_foster\_harmsen\_2012 }}), and composition and configuration of features within it (including habitat types, land uses and disturbances).

Several factors influence the size (spatial extent) of the study area, including the [objectives](#survey\_objectives), ecosystem, the biology of the [Target Species](#target\_species) (e.g., dispersal ability, habitat preferences, etc.) and/or [modelling approach](#mods\_modelling\_approach).

For example, [density](#density) models using the [capture-recapture (CR)](#mods\_cr\_cmr) [modelling approach](#mods\_modelling\_approach) requires that the [study area](#study\_area) encompasses the entire area in which individuals can move during the [survey](#survey) and that each individual can be detected by a camera ({{ ref\_intext\_karanth\_nichols\_1998 }}). In this case, the animal’s home range size could be used (e.g., four times the home range size [{{ ref\_intext\_maffei\_noss\_2008 }}]) ({{ ref\_intext\_wearn\_gloverkapfer\_2017 }}) in combination with a finite number of cameras available (e.g., 20 cameras are available; ideally, they should be [paired](#sampledesign\_paired) and there should be \> 4 cameras in each home range [{{ ref\_intext\_wearn\_gloverkapfer\_2017 }}]) to define the [project](#project)’s spatial extent.

Methods to delineate the appropriate spatial extent include, for example, minimum convex polygons (i.e., a polygon surrounding the locations of previous detections) or [kernel density estimators](#kernel\_density\_estimator) (e.g., via the probability of "utilization" \[{{ ref\_intext\_jennrich\_turner\_1969 }}\]). Geographic Information Systems (GIS, e.g., ESRI software) or programming languages (e.g., R) contain useful tools for these delineation methods.

## In-depth

This section will be available soon! In the meantime, check out the information in the other tabs!

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## Figures

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| **Image** | **file\_name** | **Caption (if applicable)** | **ref\_id** |
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|  | figure3\_filename.png | figure3\_caption | figure3\_ref\_id |
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## Video

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## Analytical tools & Resources

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| **Type** | **Name** | **Note** | **URL** | **ref\_id** |
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## References / Glossary

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| Refs |  |

## Notes