

NPS Inventory 2.0 – Species Data Deliverable Specifications

General Guidelines:

- Datasets are submitted in delimited format with Ecological Metadata Language ([EML](#))-format metadata containing plot- and/or point-level evidence of occurrence or lack of occurrence (non-detects) of focal taxa; habitat conditions including the relative abundance of broad land-cover classes of habitat; and variables used in determining effective survey effort and detection probability of the focal taxa. Project-specific elements may be added as needed; include element descriptions.
- Spatial data layers are submitted in an open format (e.g. geopackage/SQLite) documenting plot polygons and transects with Ecological Metadata Language -format metadata.

Templates and Tools:

- [Spreadsheet template](#) (Microsoft Excel or comma-delimited) with Event, Occurrence, and Taxon elements
- [EML metadata template](#): includes spatial and taxonomy components; at minimum, include the bounding coordinates for the park/project area, sample plot centroids, and focal taxons (taxonomic domain used)
- EML R package: <https://cran.r-project.org/web/packages/EML/index.html>
- EML Python library: <https://pypi.org/project/eml-parser/>
- Geopackage format: [specification](#), [rgdal](#), [ArcGIS Pro](#), [ArcGIS Desktop](#), [Python](#)

Example Data Products:

- Provided when available.

Background:

For the NPS Inventory 2.0 Program, data products should be in open, non-proprietary formats and include sufficient metadata and supporting documentation. The example templates are comprehensive and can be extended as appropriate for projects. A data acceptance workflow is planned in which submitted data are screened for protected information and for adherence to deliverable requirements.