# Comprehensive Data Delivery README FILE

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| **Study Section** | Study 10.10: Terrestrial Furbearer Abundance and Habitat Use |
| **Study Component** | (not applicable) |
| **Prepared By** | ABR, Inc.—Environmental Research & Services |
| **Data Collection and Processing By** | Casey Pozzanghera, Laura Prugh, & Kelly Sivy, Institute of Arctic Biology, University of Alaska Fairbanks |
| **Field Date Range** | August 2012; January–August 2013; January–July 2014 |

**Introduction:** The overall goal of this data collection effort was to characterize the abundance and habitat use by terrestrial furbearers in areas with the potential to be affected by construction and operation of the proposed Susitna–Watana Hydroelectric Project (Project) in Alaska.

Terrestrial Furbearer Abundance and Habitat Use (Terrestrial Furbearer Study) focused on sampling scat and hair from terrestrial furbearer species (primarily coyote, lynx, marten, and red fox) along transects monitored during the winter. The study team also conducted aerial surveys of winter tracks of terrestrial furbearers, estimated snowshoe hare abundance from pellet counts in summer, and estimated vole abundance using live traps in summer. The densities of red foxes and coyotes were estimated using spatial capture–recapture methods to analyze DNA results of hair and scat samples.

This multi-year study began in 2012 and was completed in 2015. The Study Completion Report (SCR) for the study was produced in 2015.

**Data Summary:** Data for the Terrestrial Furbearer Study consist of spreadsheets of field results, and GIS data layers. All data for the study have undergone a QC3 level of review.

*Spreadsheet Data*— Contain files of capture, occupancy, hair-sampling, ground-tracking, and scat and pellet data from the University of Alaska Fairbanks, Institute of Arctic Biology. (The 2014 file has all these data in multiple tabs; 2013 are each in separate Excel files.)

*GIS Data*— Contain files for the 2013 and 2014 terrestrial furbearer survey areas, study areas, sample grid cells, transects, base camps, hare plots, occupancy, scat locations, vole traps, and hair snag locations.

**Data Organization:**

Public spreadsheet data from UAF are archived under 10-WILD/10.10-TERFUR and contain the following Excel files:

* 10\_10\_TERFUR\_Data\_2014\_20170630.xlsx
* 10\_10\_TERFUR\_GroundTrackSurveyData\_2013\_20170630.xlsx
* 10\_10\_TERFUR\_HairSampleData\_2013\_20170630.xlsx
* 10\_10\_TERFUR\_OccupancyData\_2013\_20170630.xlsx
* 10\_10\_TERFUR\_ScatCollectionData\_2013\_20170630.xlsx
* 10\_10\_TERFUR\_SnowshoeHarePelletData\_2013\_20170630.xlsx
* 10\_10\_TERFUR\_VoleCaptureData\_2013\_20170630.xlsx

 The public GIS data are archived in the subfolder /10-WILD/10.10-TERFUR/GIS, with one geodatabase (SuWa\_10\_10\_GIS\_20170630.gdb) containing these feature classes:

* TERFUR\_2013\_2014\_Area\_Surveyed
* TERFUR\_2013\_2014\_Base\_Camps
* TERFUR\_2013\_2014\_Hare\_Plots
* TERFUR\_2013\_2014\_LynxMartenHairSnags
* TERFUR\_2013\_2014\_Occupancy
* TERFUR\_2013\_2014\_Scat\_Locs
* TERFUR\_2013\_2014\_Study\_Area
* TERFUR\_2013\_2014\_Transect\_Routes
* TERFUR\_2013\_2014\_Vole\_Traps
* TERFUR\_2013\_SA\_Not\_Sampled
* TERFUR\_2013\_Sample\_Cells
* TERFUR\_2014\_Sample\_Cells
* TERFUR\_2014\_DenaliE\_AdditionSA
* TERFUR\_Historical\_Track\_TransEndpts
* TERFUR\_Historical\_Track\_Transects

**Online Data Link:** <http://gis.suhydro.org/SuWa/10-WILD/10.10-TERFUR/>

**Online Report Link:** 10.10 Terrestrial Furbearer Distribution and Abundance – Study Completion Report under 2017; Study Completion and Implementation Reports at <http://www.susitna-watanahydro.org/type/documents>

[[1]](#endnote-1)

1. **Data Distributor Contact Information:**

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