**Spatial and Remotely Sensed Data Questionnaire for LTAR Sites**

**LTAR Site Name:**

**Name and Email of Site Contact:­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­**

**A. SPATIAL EXTENTS AND BOUNDARY LAYERS**

Please provide the approximate spatial extent (10x10m, 10x10km, 2 square miles, etc.) of the following for your site. For most sites, the spatial extents of several categories will be coincident or at least overlapping. Indicate whether your answers are wild guesses or factual knowledge.

1. LTAR Site Outer Boundary:­­­­­

2. LTAR Observatories (number of observatories, and area of Eddy flux tower fetch area):

3. LTAR Common Experiment (number of treatments, and total area encompassed by the experiment):

4. Typical area of an Agricultural Operation associated with your site:

5. Name and Size of Instrumented Watershed(s) or Agroecosystem(s):

6. Are there other important spatial boundary layers defined for your site? If so, provide details and spatial extent(s) here:

8. For which of the above boundary layers do you have existing GIS shapefiles?

**9. Map your site!** If possible, please attach a pdf map of your site illustrating outer boundary, location(s) of observatories, common experiment, and instrumented watersheds/agroecosystems.

**B. SPATIAL DATA USAGE**

**Please indicate if your site regularly, rarely, or never uses the following spatial datasets:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Data type** | **Data source** | **Use regularly** | **Have used before/rarely** | **Have never used** | **Would like to use** | **Comments** |
| Elevation | NED 10m, NRCS 2014 |  |  |  |  |  |
| Elevation | Lidar-based elevation (e.g., NEON AOP) |  |  |  |  |  |
| Soils | SSURGO (and gSSURGO) |  |  |  |  |  |
| Hydrology | NHDPlusV2 |  |  |  |  |  |
| Hydrology | NHD/WBD, USGS |  |  |  |  |  |
| Land cover | NLCD, USGS, 2011 |  |  |  |  |  |
| Land cover | CDL, NASS, 2014 (most recent) |  |  |  |  |  |
| Hyperspectral | NEON AOP |  |  |  |  |  |
| Hyperspectral | AVIRIS |  |  |  |  |  |
| Multi-spectral | Landsat ETM+ |  |  |  |  |  |
| Multi-spectral | MODIS |  |  |  |  |  |
| Aerial photography | NAIP |  |  |  |  |  |
| Aerial photography | Custom UAV |  |  |  |  |  |
| Precipitation | PRISM |  |  |  |  |  |
| Socio-economic | Agriculture Census, USDA |  |  |  |  |  |
| Socio-economic | FIA, US-FS |  |  |  |  |  |
| Socio-economic | Economic Census, USDoC |  |  |  |  |  |
| Socio-economic | Demographic information |  |  |  |  |  |
| Derived | NDVI, EVI, or similar |  |  |  |  |  |
| Derived | ANPP |  |  |  |  |  |
| Derived | Phenology |  |  |  |  |  |
| Derived | Land cover change/trend |  |  |  |  |  |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Other:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |  |  |  |  |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Other:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |  |  |  |  |
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