

2016 Greater Sage Grouse Invasive Species Management Exhibit 2B: Invasive Plant Data Collection Data Fields & Lists of Values

The Contractor will use the following data collection format to collect data on invasive plant infestations. The Forest Service will provide an electronic version to be used with a portable data recorder that works with ESRI software for shapefiles. The COR will review this format with the Contractor during the Pre-Work conference.

At each invasive plant infestation to be mapped with GPS, collect GPS point(s) per the requirements of Exhibit 2A and enter the following data for each infestation.

Required Data Fields

Data Field: Date

Definition: Date the inventory took place

List of Values: Same as above

Explanatory Notes: None

Data Field: Examiner

Definition: Three Initials of Person Collecting the Data

List of Values: Same as above

Explanatory Notes: None

Data Field: Ownership

Definition: Name of Landowner where GPS data is collected

List of Values:

- BLM
- County
- State
- FS
- Private (**OR** Name of Landowner, if Known)

Explanatory Notes: BLM=Bureau of Land Management. LC=Lemhi County. IS=State of Idaho. FS=Forest Service. PL=Private Land. (If name of private landowner is known, please provide landowner's name).

Data Field: Site Location Name

Definition: Specific geographic location followed by the NRCS Plants database alphanumeric code for the invasive plant species (e.g. BadgerBasin_EUES_100).

List of Values: Not Applicable

Explanatory Notes: The geographic location will be (a) a geographic or topographic place name, (b) name of drainage in which infestation is located or (c) the name of the nearest feature with cardinal directions (N, NE, NW, E, S, SE, SW, W), indicating the location of the infestation relative to this nearest feature. The contractor will be provided maps with labeled geographic or topographic features.

Data Field: Invasive Plant Species

Definition: NRCS Plants database alphanumeric code.

List of Values: See Table at bottom of this Exhibit

Explanatory Notes: Only one invasive plant species may be assigned to a particular GPS Data Point (or series of invasive plant points for polygon features). If more than one invasive plant species is present, a separate GPS data point(s) and Site Location Name will be required for each invasive plant species even if the infestations are wholly overlapping. For each infestation, please note other invasive plant species present in the Other Invasive Plants Present data field.

Data Field: Plant Phenology

Definition: Predominant growth stage of invasive plant species at the time of inventory

List of Values:

- Rosette
- Preflower
- Flower
- Fruiting
- Senescent/Dormant

Explanatory Notes: Rosette = leaves arranged circularly, no distinguishable stem. Preflower = stem elongation, usually vertical, up to unopened bud stage. Flower = buds open, tepals present. Fruiting = plant has gone to seed and seed dispersal has begun. Senescent/Dormant = seed dispersal is complete, plant is dormant, dying, or plant appears to be dead.

Data Field: Cover Class Distribution

Definition: A subjective measure of invasive plant distribution (only in relation to area that is infested).

List of Values:

- I
- CL
- SE
- SP
- LI

Explanatory Notes: **I** = Isolated (e.g. 1 to 3 plants with no other infestations nearby). **CL** = Grouped or clumped (e.g. plants are distributed in groups with no or few scattered plants between the groups). **SE** = Scattered Evenly (e.g. plants are evenly distributed within the infestation [Note: this category includes a dense monoculture of invasive plants]). **SP** = Scattered/Patchy (e.g. occasional or numerous patches of invasive plants with scattered plants between the groups). **LI** = Linear (infestation is distributed in a linear fashion, such as along a stream or road with few or no gaps in the distribution of the invasive plants).

Data Field: Percent Cover Class Code

Definition: Ocular estimated percent cover of target invasive plant species in the infested area

List of Values:

- T – 0.1% - 1%
- 1 – 1.1% - 5%
- 2 – 5.1% - 25%
- 3 – 25.1% - 50%
- 4 – 50.1% - 75%

Explanatory Notes: An ocular estimate of the coverage of the invasive plant species within the infested area

Data Field: Other Invasive Plants Present

Definition: Presence of other noxious invasive plant species or other invasive plant species in the infested area or general vicinity

List of Values: See Table at bottom of this Exhibit

Explanatory Notes: Please include cheatgrass (*Bromus tectorum*), tumble mustards (*Sisymbrium* spp.), etc. in this field.

Data Field: Distance to Water

Definition: Estimated horizontal and/or vertical distance from infestation to nearest water source for invasive plant control

List of Values: Not Applicable

Explanatory Notes: Please note presence and approximate distance to functioning stock tanks, upland spring, nearest stream, etc.

Data Field: Comments

Definition: Any remarks about the location or the infestation that will assist with invasive plant control treatments.

List of Values: Not Applicable

Explanatory Notes: None

List of NRCS Plant Species Codes

Common Name	NRCS Code	Common Name	NRCS Code	Common Name	NRCS Code
Annual Bromes	Bromus	Hydrilla	HYVE3	Scotch Broom	CYSC4
Annual Mustards	Brassica	Iberian Starthistle	CEIB	Scotch Thistle	ONAC
Black Henbane	HYNI	Japanese Knotweed	POCU6	Small Bugloss	ANAR16
Bohemian Knotweed	POBO10	Johnsongrass	SOHA	Spotted Knapweed	CEBI2/CEMA4
Brazilian Elodea	EGDE	Jointed Goatgrass	AECY	Squarrose Knapweed	CESQ
Buffalobur	SORO	Leafy Spurge	EUES	St. Johnswort	HYPE
Bur Buttercup	CETE5	Matgrass	NAST3	Sulfur Cinquefoil	PORE5
Canada Thistle	CIAR4	Meadow Knapweed	CEPR2	Syrian Beancaper	ZYFA
Common Crupina	CRVU2	Mediterranean Sage	SAAE	Tall Hawkweed	HIPI2
Common/European Frogbit	HYMO6	Milium	MIVE3	Tansy Ragwort	SEJA
Common Reed (Phragmites)	PHAU7	Musk Thistle	CANU4	Variable-Leaf-Milfoil	MYHE2
Curlyleaf Pondweed	POCR3	Orange Hawkweed	HIAU	North Africa Grass	VEDU
Dalmatian Toadflax	LIGED	Oxeye Daisy	CHLE80/LEVU	Vipers Bugloss	ECVU
Diffuse Knapweed	CEDI3	Parrotfeather Milfoil	MYAC2	Water Chestnut	TRNA
Dyer's Woad	ISTI	Perennial Pepperweed	LELA2	Water Hyacinth	EICR
Eurasian Watermilfoil	MYSP2	Perennial Sowthistle	SOAR2	White Bryony	BRAL4
Fanwort	CACA	Plumeless Thistle	CAAC	Whitetop	CADR
Feathered Mosquito Fern	AZPI	Poison Hemlock	COMA2	Yellow Devil Hawkweed	HIGL3
Field Bindweed	COAR4	Policeman's Helmet	IMGL	Yellow Flag Iris	IRPS
Flowering Rush	BUUM	Puncturevine	TRTE	Yellow Floating Heart	NYPE
Giant Hogweed	HEMA17	Purple Loosestrife	LYSA2	Yellow Hawkweed	HICA10
Giant Knotweed	POSA4	Purple Starthistle	CECA2	Yellow Starthistle	CESO3
Giant Salvinia	SAMO5	Rush Skeletonweed	CHJU	Yellow Toadflax	LIVU2
Hoary Alyssum	BEIN2	Russian Knapweed	ACRE3		
Houndstongue	CYOF	Saltcedar	TAMAR2		