

U.S. LOTIC WETLAND INVENTORY FORM

Record ID No: \_\_\_\_\_

ADMINISTRATIVE DATA

Unique Location ID: \_\_\_\_\_

- A1. Field data collected by:
A2. Funding Agency/Organization:
A3a. BLM State Office:
A3b. BLM Field Office/Field Station:
A3c. BLM Office Code:
A3d. Is the polygon in an active BLM grazing allotment?
A3e. Allotment Number:
A3f. Allotment Number:
A3g. Allotment ID:
A3h. Allotment ID:
A3i. Allotment Name:
A3j. Allotment Name:
A3k. Management Status:
A3l. Management Status:
A4. USFWS Refuge:
A5. Reservation:
A6. NPS Park/NHS:
A7. USFS National Forest:
A8. Other Location:
A9. Year:
A10. Date field data collected:
A11. Observers:
A12a. At least some part of this polygon has been inventoried more than once (resampled)?
A12b. This polygon coincides exactly with another inventoried polygon?
A12c. Is this the latest inventory for this polygon?
A12d. ID No.(s) of other inventories of this polygon:
A12e. Other years:
A12f. This polygon shares common area with other inventoried polygon(s)?
A12g. Other years:
A12h. ID No.(s) of other records sharing area with this polygon:
A13a. Has a change in management occurred?
A13b. Year that changed occurred:
A13c. Type of management change applied:

LOCATION DATA

- B1. State/Province:
B2. County/Municipal District:
B3. Allotment/Range Unit:
B4a. Area name:
B4b. Tributary to:
B4c. Group name:
B4d. Group number:
B5. Polygon number:
B6. Location: 1/4 1/4 Sec:
Township (NS):
Range (EW):
B7. Elev. (ft): ; (m):
B8a. Hydrologic unit code (HUC):
B8b. Sub-basin name (4th level HUC):
B8c. Sub-basin (sq mi): ; (sq m):
B8d. Sub-basin (ac): ; (hect):
B8e. Sub-basin perimeter (mi): ; (m):
B9a. Polygon latitude/longitude coordinates:
GPS Projection:
Observer
Deg Min Sec N/S Decimal Deg Min Sec E/W Decimal Accuracy Initial
+/- ft +/- m & WPT
Upper: Lat:
Lower: Lat:
Other: Lat:
Lon:
Lon:
Lon:
B9b. Other Point
Comments:
B10. Quad map(s):

**SELECTED SUMMARY DATA**

Record ID No: \_\_\_\_\_ Unique Location ID: \_\_\_\_\_

- C1.** Wetland type: \_\_\_\_\_ **C2.** Polygon size (ac): \_\_\_\_\_ ; (hect): \_\_\_\_\_  
**C3a.** Is the entire polygon an upland? (Yes; No): \_\_\_\_\_ If **No**, **C3b.** Does the polygon consist entirely of functional wetland types? (Yes; No): \_\_\_\_\_ **C3c.** Functional wetland (ac): \_\_\_\_\_ ; (hect): \_\_\_\_\_ **C3d.** Percent of total polygon: \_\_\_\_\_  
**C4.** Does the polygon contain a defined streambank or channel? (Yes; No; NC): \_\_\_\_\_  
**C5.** Channel length (mi): \_\_\_\_\_ ; (km): \_\_\_\_\_ **C6.** Number of river miles the polygon represents: (mi) \_\_\_\_\_ ; (km): \_\_\_\_\_  
**C7a.** Average riparian zone width (ft): \_\_\_\_\_ ; (m): \_\_\_\_\_  
**C7b.** Riparian zone width range (ft): \_\_\_\_\_ to \_\_\_\_\_ ; (m): \_\_\_\_\_ to \_\_\_\_\_  
**C8a.** Was the Pfankuch rating used? (Yes; No): \_\_\_\_\_ If **Yes**, **C8b.** Pfankuch Score: \_\_\_\_\_

**Health Assessment Summary**

**C9.** Polygon Health: \_\_\_\_\_ Rating Percent (%) \_\_\_\_\_ Descriptive Category: \_\_\_\_\_  
 Vegetation: \_\_\_\_\_  
 Soil / Hydrology: \_\_\_\_\_  
**OVERALL:** \_\_\_\_\_

<i>Rating Percent Range</i>	<i>Descriptive Category</i>
80-100	Proper Functioning Condition (Healthy)
60-79	Functional At Risk (Healthy, but with Problems)
<60	Nonfunctional (Unhealthy)

**VEGETATION DATA**

- D1a.** Wetland prevalence index: \_\_\_\_\_  
**D1b.** Vegetation structural diversity: \_\_\_\_\_

**Trees**

- D2a.** Are trees present? (Yes; No): \_\_\_\_\_ **D2b.** Tree species by canopy cover (%) and percent age group (%)

SPECIES	COV (%)	SDLG/DEC	SPLG/DEC	POLE/DEC	MAT/DEC	DEAD
---------	---------	----------	----------	----------	---------	------

SPECIES	<b>D3.</b> Regen. Category	<b>D4.</b> Age Group Dist. Category	<b>D5a.</b> Sdlg/Splg Browse Utilization	<b>D5b.</b> Browse Architecture Type	<b>D5c.</b> Browse Intensity
---------	----------------------------	-------------------------------------	--	--------------------------------------	------------------------------

**D5d.** Cottonwood/poplar regeneration by seed vs. root suckering (asexual). Record the percent for each (must total 100%; NA = Not Applicable):  
 Species Seed Suckering Species Seed Suckering Species Seed Suckering  
 POPANG \_\_\_\_\_ POPBAL \_\_\_\_\_ POPDEL \_\_\_\_\_

**Shrubs**

Record ID No: \_\_\_\_\_

**D6a.** Are shrubs present? (Yes; No): \_\_\_\_\_

Unique Location ID: \_\_\_\_\_

**D6b.** Does the polygon have potential for preferred woody species ? (Yes; No; NC): \_\_\_\_\_

**D6c.** Shrub species canopy cover (%), age/size groups (%), and utilization

**D6d.** Shrub  
Growth Form  
(N,F,U,C)

**D6e.** Browse  
Architecture  
Type

**D6f.**  
Browse  
Intensity

SPECIES COV (%) SDLG-SPLG/UTIL MATURE/UTIL DEC-DEAD/UTIL

**D6g.** Tree **AND** shrub removal by other than browse: None (0-5%); Light (6-25%); Moderate (26-50%); Heavy (>50%); NA; NC: \_\_\_\_\_

**D6h.** Basis of Call: \_\_\_\_\_

**D7. Graminoids** Graminoids present? (Yes; No): \_\_\_\_\_

SPECIES COV (%) SPECIES COV (%) SPECIES COV (%)

**D8. Forbs** Forbs present? (Yes; No): \_\_\_\_\_  
 SPECIES COV (%) SPECIES COV (%)

Record ID No: \_\_\_\_\_  
 Unique Location ID: \_\_\_\_\_

**Weed Data**

**D13a.** Are invasive species present? (Yes; No; NC): \_\_\_\_\_

If **Yes, D13b.** Enter the canopy cover and the density/distribution class for each of the following invasive species:

	Cover		Density/ Distribut. Class
	Canopy (New Way)		
bluebuttons (KNAARV):	_____	_____	_____
Canada thistle (CIRARV):	_____	_____	_____
cheatgrass (BROTEC):	_____	_____	_____
common burdock (ARCMIN):	_____	_____	_____
common cuprina (CRUVUL):	_____	_____	_____
common hound's-tongue (CYNOFF):	_____	_____	_____
common tansy (TANVUL):	_____	_____	_____
dalmatian toadflax (LINDAL):	_____	_____	_____
diffuse knapweed (CENDIF):	_____	_____	_____
Dyer's woad (ISATIN):	_____	_____	_____
field bindweed (CONARV):	_____	_____	_____
field sow thistle (SONARV):	_____	_____	_____
Japanese brome (BROJAP):	_____	_____	_____
leafy spurge (EUPESU):	_____	_____	_____
musk thistle (CARNUT):	_____	_____	_____
orange hawkweed (HIEAUR):	_____	_____	_____
oxeye daisy (CHRLEU):	_____	_____	_____
perennial pepperweed (LEPLAT):	_____	_____	_____
purple loosestrife (LYTSAL):	_____	_____	_____
Russian knapweed (CENREP):	_____	_____	_____
Russian olive (ELAANG):	_____	_____	_____
saltcedar (tamarisk) (TAMARI):	_____	_____	_____
Scotch thistle (ONOACA):	_____	_____	_____
spotted knapweed (CENMAC):	_____	_____	_____
St. John's wort (HYPPER):	_____	_____	_____
sulphur cinquefoil (POTREC):	_____	_____	_____
tall buttercup (RANACR):	_____	_____	_____
teasel (DIPFUL):	_____	_____	_____
whiteweed (CARDRA):	_____	_____	_____
yellow iris (IRIPSE):	_____	_____	_____
yellow starthistle (CENSOL):	_____	_____	_____
yellow toadflax (LINVUL):	_____	_____	_____
Others: _____	_____	_____	_____
Others: _____	_____	_____	_____

**D9. Plant Group by Canopy Cover (%)**

Layer	Trees	Shrubs	Graminoids	Forbs
<b>3</b> (>6.0 ft):	_____	_____	_____	_____
<b>2</b> (>1.5 - 6.0 ft):	_____	_____	_____	_____
<b>1</b> (0 - 1.5 ft):	_____	_____	_____	_____

**D13c.** Cumulative totals for all invasive species:

Cover	Density/ Distribution Class
Canopy (New Way)	_____
_____	_____

**D10.** Total canopy cover (%) by lifeform:

Trees: \_\_\_\_\_ Shrubs: \_\_\_\_\_  
 Graminoids: \_\_\_\_\_ Forbs: \_\_\_\_\_

**D11.** Total canopy cover (%) by woody species: \_\_\_\_\_

**D12.** Total canopy cover (%) by all plant lifeforms: \_\_\_\_\_

**D14a.** Are undesirable herbaceous species present?

Yes; No; NC): \_\_\_\_\_

If **Yes, D14b.** Record the combined canopy cover (%) of all undesirable herbaceous species observed: \_\_\_\_\_



**PHYSICAL SITE DATA**

Record ID No: \_\_\_\_\_

**F1.** Does the polygon contain a stream bank or channel bottom? (Yes; No; NC): \_\_\_\_\_ If **No**, go to item **F17a**.

Unique Location ID: \_\_\_\_\_

**F2a.** Is the channel bottom visible? (Yes; No; NC): \_\_\_\_\_

If **Yes, F2b.** Give the percent breakdown of particle sizes (must approx. 100%):

_____ >20 inches (Medium Boulders +)	_____ 0.6 - 2.5 inches (Coarse Gravel)
_____ 10 - 20 inches (Small Boulders)	_____ 0.08 inches - 0.6 inches (Fine Gravel)
_____ 5 - 10 inches (Large Cobbles)	_____ 0.062 mm - 2 mm (Sand)
_____ 2.5 - 5 inches (Small Cobbles)	_____ <0.062 mm (Silt and Clay)

**F3a.** Are bank materials visible? (Yes; No; NC): \_\_\_\_\_

If **Yes, F3b.** Give the percent breakdown of particle sizes (must approx. 100%):

_____ >20 inches (Medium Boulders +)	_____ 0.6 - 2.5 inches (Coarse Gravel)
_____ 10 - 20 inches (Small Boulders)	_____ 0.08 inches - 0.6 inches (Fine Gravel)
_____ 5 - 10 inches (Large Cobbles)	_____ 0.062 mm - 2 mm (Sand)
_____ 2.5 - 5 inches (Small Cobbles)	_____ <0.062 mm (Silt and Clay)

**F4a.** Is there active lateral cutting of stream? (Yes; No; NC): \_\_\_\_\_ If **Yes, F4b.** How much of the stream length (%): \_\_\_\_\_

**F5.** Percent of the total bank length unstable (0-5%; 6-25%; 26-50%; over 50%; NC): \_\_\_\_\_

**F6a.** Is the streambank altered by on-site human activities? (Yes; No; NC): \_\_\_\_\_

If **Yes, F6b.** Percent (%) of the bank length that has human-caused alterations? \_\_\_\_\_

**F6c.** Of this, how much resulted from these causes: (must approx. 100%)

_____ Grazing	_____ Mining	_____ Construction	_____ Other
_____ Cultivation	_____ Timber Harvest	_____ Recreation	

Explain "other": \_\_\_\_\_

**F6d.** Distribute the total streambank alteration among these kinds: (must approximate 100%)

_____ Hoof shear/trampling	_____ Roads/RR	_____ Berms	_____ Other
_____ Veg removal	_____ Trails	_____ Riprap	

Explain "other": \_\_\_\_\_

**F7.** Percent of the streambanks with deep, binding root mass (0-35%; 36-65%; 66-85%; over 85%; NC): \_\_\_\_\_

**F8.** Percent of polygon with sufficient fine material to hold water and act as a rooting medium (0-35%; 36-65%; 66-85%; over 85%; NC): \_\_\_\_\_

**F9.** Rosgen stream types recorded and the percent of the stream length accounted for by each:

Rosgen 1: \_\_\_\_\_ / \_\_\_\_\_ Rosgen 2: \_\_\_\_\_ / \_\_\_\_\_ Rosgen 3: \_\_\_\_\_ / \_\_\_\_\_ Rosgen 4: \_\_\_\_\_ / \_\_\_\_\_

**F10a.** Do available maps accurately represent sinuosity of the stream? (Yes; No; NA; NC): \_\_\_\_\_

If **No, F10b.** Determine sinuosity in the field; If **Yes**, determine sinuosity in the office from topo map: \_\_\_\_\_

**F11.** Average non-vegetated stream channel width: (ft) \_\_\_\_\_ ; (m): \_\_\_\_\_

**F12.** Stream gradient (percent): \_\_\_\_\_

**F13a.** Active downcutting of the stream? (Yes; No; NC): \_\_\_\_\_ If **Yes, F13b.** Percent (%) of stream actively downcutting: \_\_\_\_\_

**F14a.** Headcuts present? (Yes; No; NC): \_\_\_\_\_ If **Yes, F14b.** No. of headcuts: \_\_\_\_\_ **F14c.** Average headcut height (ft): \_\_\_\_\_

**F14d.** Location of headcut(s): \_\_\_\_\_

**F15a.** Is the stream channel braided (has multiple active channels during normal flows)? (Yes; No; NC): \_\_\_\_\_

If **Yes, F15b.** Percent of the stream channel that is braided: \_\_\_\_\_

**F16.** Indicate the best description of channel incisement (None; Slight; Moderate; Severe): \_\_\_\_\_

**F17a.** Is there exposed soil surface (bare ground)? (Yes; No; NC): \_\_\_\_\_ If **No** or **NC**, go to item **F18**.

**F17b.** Percent (%) of the polygon which is exposed soil surface (bare ground): \_\_\_\_\_

**F17c.** Of this, how much is due to natural processes: \_\_\_\_\_ Human-caused disturbance: \_\_\_\_\_ (must approx. 100%)

**F17d.** Within **each** category (natural & human-caused), how much resulted from the listed processes?

<b>NATURAL PROCESSES</b> (must approx. 100%)	<b>HUMAN-CAUSED PROCESSES</b> (must approx. 100%)
--	---

_____ Erosional	_____ Type Dependent	_____ Grazing	_____ Construction
_____ Depositional	_____ Saline/Alkaline	_____ Timber Harvest	_____ Mining
_____ Wildlife Use	_____ Within Veg. Channel Bottoms	_____ Recreation	_____ Other
_____ Other	Explain "Other": _____		



**PHOTOGRAPH DATA**

Unique Location ID: \_\_\_\_\_

**G1a.** Identification of photos (taken at the **Upstream** end of polygon): Roll #: \_\_\_\_\_ Photographer: \_\_\_\_\_

Photo nos.: (Upstream): _____	(DwnStream): _____	(others): _____
_____	_____	_____
_____	_____	_____
_____	_____	_____

**G1b.** Location of "other" photos: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**G1c.** Descript. of views Upstream: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(Down-stream): \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(others): \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**G2a.** Identification of photos (taken at **Downstream** end of polygon): Roll #: \_\_\_\_\_ Photographer: \_\_\_\_\_

Photo nos.: (Upstream): _____	(DwnStream): _____	(others): _____
_____	_____	_____
_____	_____	_____
_____	_____	_____

**G2b.** Location of "other" photos: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**G1c.** Descript. of views Upstream: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(Down-stream): \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(others): \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**ADDITIONAL DATA**

Record ID No: \_\_\_\_\_

H1. Aspect: \_\_\_\_\_

Unique Location ID: \_\_\_\_\_

H2. Vegetative use by animals (0-25%; 26-50%; 51-75%; 76-100%): \_\_\_\_\_

H3a. Break down the polygon area into the land uses listed (must total to approx. 100%):

H3b. Break down the area adjacent to the polygon into the land uses listed (must total to approx. 100%):

No land use apparent: \_\_\_\_\_

No land use apparent: \_\_\_\_\_

Turf grass (lawn): \_\_\_\_\_

Turf grass (lawn): \_\_\_\_\_

Tame pasture (grazing): \_\_\_\_\_

Tame pasture (grazing): \_\_\_\_\_

Native pasture (grazing): \_\_\_\_\_

Native pasture (grazing): \_\_\_\_\_

Recreation (ATV paths, campsites, etc.): \_\_\_\_\_

Recreation (ATV paths, campsites, etc.): \_\_\_\_\_

Development (buildings, corrals, paved lots, etc.): \_\_\_\_\_

Development (buildings, corrals, paved lots, etc.): \_\_\_\_\_

Tilled cropping: \_\_\_\_\_

Tilled cropping: \_\_\_\_\_

Perennial forage (e.g., alfalfa hayland): \_\_\_\_\_

Perennial forage (e.g., alfalfa hayland): \_\_\_\_\_

Roads: \_\_\_\_\_

Roads: \_\_\_\_\_

Logging: \_\_\_\_\_

Logging: \_\_\_\_\_

Mining: \_\_\_\_\_

Mining: \_\_\_\_\_

Railroads: \_\_\_\_\_

Railroads: \_\_\_\_\_

Description of Other Usage Noted: Other: \_\_\_\_\_

Description of Other Usage Noted: Other: \_\_\_\_\_

H4. Adjacent uplands (Agriculture; Grassland; Shrubland; Forest; or Other): \_\_\_\_\_

H5a. Were Category 2 (T & E) plant species observed? (Yes; No): \_\_\_\_\_ If Yes, H5b. Species: \_\_\_\_\_

H5c. Location(s): \_\_\_\_\_

H6a. Do subsurface water supplies, independent of flowing surface water in the area, appear to influence area vegetation?

(An example of this is a hardwood draw with riparian vegetation, but rarely flowing surface water.) (Yes; No): \_\_\_\_\_

If Yes, H6b. Describe the situation:

H7. Bankfull width/depth ratio: \_\_\_\_\_

H8. Entrenchment ratio (floodprone width/bankfull width) (<1.4; 1.4-2.2; >2.2): \_\_\_\_\_

H9. Distribution of exposed soil surface (item F17b) (must approx. 100%):

Inside/outside the bank/channel area: Inside: \_\_\_\_\_ Outside: \_\_\_\_\_

H10. Percent of streambank accessible to livestock: \_\_\_\_\_

H11a. Has the bank configuration or channel profile been modified by construction? (Yes; No; NC): \_\_\_\_\_

If Yes, H11b. How much of the bank or channel length is modified (%)? \_\_\_\_\_

H11c. What part resulted from the various sources: (must approx. 100%)

Dikes \_\_\_\_\_ Road Construction \_\_\_\_\_ Railroads \_\_\_\_\_

Berms \_\_\_\_\_ Water Diversion Structures \_\_\_\_\_ Mining \_\_\_\_\_

Dams \_\_\_\_\_ Vegetation Removal \_\_\_\_\_ Bridges \_\_\_\_\_

Rip-rap \_\_\_\_\_ Channelization \_\_\_\_\_ Logging \_\_\_\_\_

Other \_\_\_\_\_ Explain "Other": \_\_\_\_\_

H11d. Location(s): \_\_\_\_\_

H11e. If human-caused channel modifications are present, are they stable? (Stable; Unstable): \_\_\_\_\_

H11f. What is the effect of the modifications on the immediate and downstream channel?

**WILDLIFE DATA**

Record ID No: \_\_\_\_\_

**Beaver Data**

**H12a.** Is there evidence of beaver in the polygon? (Yes; No; NC): \_\_\_\_\_ If **Yes, H12b.** (Active; Inactive): \_\_\_\_\_

**H12c.** Describe the type and amounts of beaver activity observed:  
\_\_\_\_\_  
\_\_\_\_\_

**H12d.** Number of beaver dams and lodges observed: \_\_\_\_\_

**H12e.** Level of beaver activity (number of stems chewed) (0; 1-25; 26-100; over 100; NC): \_\_\_\_\_

**H12f.** How many beavers were observed? \_\_\_\_\_

**H12g.** Where in the polygon?  
\_\_\_\_\_  
\_\_\_\_\_

**Waterfowl Data**

**H13a.** Were waterfowl nests or broods observed? (Yes; No; NC): \_\_\_\_\_

If **Yes, H13b.** Describe: \_\_\_\_\_

**Fishery Data**

**H14a.** Does the polygon contain a fishery? (Yes; No; Unknown): \_\_\_\_\_

If **Yes, H14b.** Is it a sport fishery, non-sport fishery, or unknown: \_\_\_\_\_

**H14c.** Fish types present, if known (use common names or descriptions): \_\_\_\_\_  
\_\_\_\_\_

**H14d.** How many fish were observed? (0; 1-10; 11-50; >50): \_\_\_\_\_

**H14e.** If the polygon does not contain a fishery, is there potential for one? (Yes; No; Unknown): \_\_\_\_\_

Explain: \_\_\_\_\_  
\_\_\_\_\_

**Amphibian and Reptile Data**

**H15a.** Were amphibians observed? (Yes; No; NC): \_\_\_\_\_

If **Yes, H15b.** Number observed: Frogs: \_\_\_\_\_ Toads: \_\_\_\_\_ Salamanders: \_\_\_\_\_

**H16a.** Were reptiles observed? (Yes; No; NC): \_\_\_\_\_

If **Yes, H16b.** Number observed: Snakes: \_\_\_\_\_ Turtles: \_\_\_\_\_ Lizards: \_\_\_\_\_

**H17.** List amphibian or reptile species and the quantity of each identified in the polygon.

Spp. #1: \_\_\_\_\_ No.: \_\_\_\_\_ Loc.: \_\_\_\_\_

Spp. #2: \_\_\_\_\_ No.: \_\_\_\_\_ Loc.: \_\_\_\_\_

Spp. #3: \_\_\_\_\_ No.: \_\_\_\_\_ Loc.: \_\_\_\_\_

Spp. #4: \_\_\_\_\_ No.: \_\_\_\_\_ Loc.: \_\_\_\_\_

**Threatened and Endangered Species Data**

**H18a.** Were T & E animal species observed? (Yes; No; NC): \_\_\_\_\_

If **Yes, H18b.** What species? Peregrine Falcon: \_\_\_\_\_ Bald Eagle: \_\_\_\_\_ Bull Trout: \_\_\_\_\_

Peregrine Falcon Nest: \_\_\_\_\_ Bald Eagle Nest: \_\_\_\_\_

Species Number Species Number

Other T & E species observed: \_\_\_\_\_

**H18c.** Location in polygon where T & E animals or nests were sighted:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_