

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:
B7. Elev. (ft):
B7. Elev. (m):
B8a. Hydrologic unit code (HUC):
B8b. Sub-basin name (4th level HUC):
B8c. Sub-basin (sq mi):
B8d. Sub-basin (ac):
B8e. Sub-basin perimeter (mi):
B9a. Polygon latitude/longitude coordinates:
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
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SPECIES	D3. Regen. Category	D4. Age Group Dist. Category	D5a. Sdlg/Splg Browse Utilization	D5b. Browse Architecture Type	D5c. Browse Intensity
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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
3 (>6.0 ft):	_____	_____	_____	_____
2 (>1.5 - 6.0 ft):	_____	_____	_____	_____
1 (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?

NATURAL PROCESSES (must approx. 100%)		HUMAN-CAUSED PROCESSES (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: _____
- Turf grass (lawn): _____
- Tame pasture (grazing): _____
- Native pasture (grazing): _____
- Recreation (ATV paths, campsites, etc.): _____
- Development (buildings, corrals, paved lots, etc.): _____
- Tilled cropping: _____
- Perennial forage (e.g., alfalfa hayland): _____
- Roads: _____
- Logging: _____
- Mining: _____
- Railroads: _____
- Other: _____

- No land use apparent: _____
- Turf grass (lawn): _____
- Tame pasture (grazing): _____
- Native pasture (grazing): _____
- Recreation (ATV paths, campsites, etc.): _____
- Development (buildings, corrals, paved lots, etc.): _____
- Tilled cropping: _____
- Perennial forage (e.g., alfalfa hayland): _____
- Roads: _____
- Logging: _____
- Mining: _____
- Railroads: _____
- Other: _____

Description of Other Usage Noted: _____

Description of Other Usage Noted: _____

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:

