

PFANKUCH CHANNEL ASSESSMENT 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:
Upper: Lat:
Lower: Lat:
Other: Lat:
Lon:
GPS Projection:
Accuracy
Initial
Observer
B9b. Other Point
Comments:
B10. Quad map(s):

**SELECTED SUMMARY DATA**

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

- 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: \_\_\_\_\_; (km): \_\_\_\_\_  
**C7a.** Was the Pfankuch rating used? (Yes; No): \_\_\_\_\_ If **Yes**, **C7b.** Pfankuch Score: \_\_\_\_\_

***Pfankuch Polygon Data***

Stream Stage: _____	Reach #1	Reach #2	Reach #3	Reach #4	Reach #5	
1. Landform Slope	_____	_____	_____	_____	_____	
2. Mass Wasting or Failure	_____	_____	_____	_____	_____	
3. Debris Jam Potential	_____	_____	_____	_____	_____	
4. Vegetative Bank Protection	_____	_____	_____	_____	_____	
5. Channel Capacity	_____	_____	_____	_____	_____	
6. Bank Rock Content	_____	_____	_____	_____	_____	
7. Obstructions	_____	_____	_____	_____	_____	
8. Cutting	_____	_____	_____	_____	_____	
9. Deposition	_____	_____	_____	_____	_____	
10. Rock Angularity	_____	_____	_____	_____	_____	
11. Brightness	_____	_____	_____	_____	_____	
12. Consolidation	_____	_____	_____	_____	_____	
13. Bottom Size Distribution	_____	_____	_____	_____	_____	
14. Scouring and Depositing	_____	_____	_____	_____	_____	Extra River Miles
15. Clinging Aquatic Vegetation	_____	_____	_____	_____	_____	_____
<hr/>						Total River Miles
Pfankuch Reach Score	_____	_____	_____	_____	_____	_____
River Miles	_____	_____	_____	_____	_____	_____
Percentage of Total River Miles	_____	_____	_____	_____	_____	Total Score
Pfankuch Polygon Aggregate Score	_____	_____	_____	_____	_____	_____

Comments:  
 Reach #1 \_\_\_\_\_  
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 Reach #2 \_\_\_\_\_  
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 Reach #3 \_\_\_\_\_  
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 Reach #4 \_\_\_\_\_  
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 Reach #5 \_\_\_\_\_  
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## Pfankuch Form Codes

	<u>Excellent</u>	<u>Good</u>	<u>Fair</u>	<u>Poor</u>
<b>Upper banks:</b>				
1. Landform Slope	Bank slope gradient <30%. Score: 2	Bank slope gradient 30-40%. Score: 4	Bank slope gradient 40-60%. Score: 6	Bank slope gradient 60%+. Score: 8
2. Mass Wasting or Failure (existing or potential)	No evidence of past or any potential for future mass wasting into channel. Score: 3	Infrequent and/or very small. Mostly healed over. Low future potential. Score: 6	Moderate frequency & size, with some raw spots eroded by water during high flows. Score: 9	Frequent or large, causing sediment nearly yearlong OR imminent danger of same. Score: 12
3. Debris Jam Potential (floatable objects)	Essentially absent from immediate channel area. Score: 2	Present but mostly small twigs and limbs. Score: 4	Present, volume and size are both increasing. Score: 6	Moderate to heavy amounts, predominantly larger sizes. Score: 8
4. Vegetative Bank Protection	90% + plant density. Vigor and variety suggest a deep, dense, soil binding root mass. Score: 3	70-90% density. Fewer plant specimens or lower vigor suggests a less dense or deep root mass. Score: 6	50-70% density. Lower vigor and still fewer species form a somewhat shallow and discontinuous root mass. Score: 9	< 50% density plus fewer species & less vigor indicate poor, discontinuous, and shallow root mass. Score: 12
<b>Lower banks:</b>				
5. Channel Capacity	Ample for present plus some increases. Peak flows contained. W/D ratio < 7. Score: 1	Adequate. Overbank flows rare. Width to Depth (W/D) ratio 8 to 15. Score: 2	Barely contains present peaks. Occasional overbank floods. W/D ratio 15 to 25. Score: 3	Inadequate. Overbank flows common. W/D ratio > 25. Score: 4
6. Bank Rock Content	65% with large, angular boulders 12"+ numerous. Score: 2	40 to 65%, mostly small boulders to cobbles 6-12". Score: 4	20 to 40%, with most in the 3-6" diameter class. Score: 6	<20% rock fragments of gravel sizes, 1-3" or less. Score: 8
7. Obstructions Flow Deflectors Sediment Traps	Rocks and old logs firmly embedded. Flow pattern without cutting or deposition. Pools and riffles stable. Score: 2	Some present, causing erosive cross currents and minor pool filling. Obstructions and deflectors newer and less firm. Score: 4	Moderately frequent, moderately unstable obstructions & deflectors move with high water causing bank cutting and filling of pools. Score: 6	Frequent obstructions and deflectors cause bank erosion yearlong. Sediment traps full, channel migrations occurring. Score: 8
8. Cutting	Little or none evident. Infrequent raw banks less than 6" high generally. Score: 4	Some, intermittently at outcurves and constrictions. Raw banks may be up to 12". Score: 8	Significant. Cuts 12"-24" high. Root mat overhangs and sloughing evident. Score: 12	Almost continuous cuts, some over 24" high. Failure of overhangs frequent. Score: 16
9. Deposition	Little or no enlargement of channel or point bar. Score: 4	Some new increase in bar formation, mostly from coarse gravels. Score: 8	Moderate deposition of new gravel and coarse sand on old and some new bars. Score: 12	Extensive deposits of predominantly fine particles. Accelerated bar development. Score: 16
<b>Bottom:</b>				
10. Rock Angularity	Sharp edges and corners, plane surfaces roughened. Score: 1	Rounded corners and edges, surfaces smooth and flat. Score: 2	Corners & edges well rounded in two dimensions. Score: 3	Well rounded in all dimensions, surfaces smooth. Score: 4
11. Brightness	Surface dull, darkened, or stained. Gen. not "bright". Score: 1	Mostly dull, but may have up to 35% bright surfaces. Score: 2	Mixture, 50-50% dull and bright, +or- 15% i.e.. 35-65%. Score: 3	Predominantly bright, 65%+ exposed or scoured surfaces. Score: 4
12. Consolidation or Particle Packing	Assorted sizes tightly packed and/or overlapping. Score: 2	Moderately packed with some overlapping. Score: 4	Mostly a loose assortment with no apparent overlap. Score: 6	No packing evident. Loose assortment, easily moved. Score: 8
13. Bottom Size Distribution and Percent Stable Materials	No change in sizes evident. Stable materials 80-100%. Score: 4	Slight shift in either direction. Stable materials 50-80%. Score: 8	Moderate change in sizes, stable materials 20-50%. Score: 12	Marked distribution change. Stable materials 0-20%. Score: 16
14. Scouring and Depositing	Less than 5% of the bottom affected by scouring and deposition. Score: 6	5-30% affected. Scour at constrictions and where grades steepen. Some deposition in pools. Score: 12	30-50% affected. Deposits & scour at obstructions, constrictions, and bends. Some fillina of pools. Score: 18	More than 50% of the bottom in a state of flux or change nearly yearlong. Score: 24
15. Clinging Aquatic Vegetation (Measuring Algae)	Abundant. Growth largely moss-like, dark green, perennial. In swift water too. Score: 1	Common. Algal forms in low velocity & pool areas. Moss here too and swifter waters. Score: 2	Present but spotty, mostly in backwater areas. Seasonal blooms make rocks slick. Score: 3	Perennial types scarce or absent. Yellow-green, short term bloom may be present. Score: 4
<b>&lt;38 Excellent    39-76 Good    77-114 Fair    &gt;114 Poor</b>				