Author(s)/participant(s): Matt Ricketts and Tony Rolfes

Contact for lead author: Bozeman Area Office Reference site used? Yes

Date: 03/22/2005 MLRA: 44 S Ecological Site: Riparian Subirrigated 15-19" p.z. This *must* be verified based on soils and climate (see Ecological Site Description). Current plant community *cannot* be used to identify the ecological site.

he ecological site.	
Indicators. For each indicator, describe the potential for the site. Where possible, (1) use numbers, (2) include expected range of values for above- and below-average years for <u>each</u> community within the reference state (when appropriate), and (3) cite data. Continue descriptions on separate sheet if needed. Weight factors are either 0.5, 1.0 or 2.0. The default factor is 1.0. A maximum of 8 indicators may be changed to 0.5 or 2.0. The rest remain at 1.0.	Wgt. Factor
1. Number and extent of rills: None	1.0
2. Presence of water flow patterns: None	1.0
	1.0
3. Number and height of erosional pedestals or terracettes: None to very rare (unusual to find).	1.0
4. Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are <i>not</i>	1.0
bare ground): 0-T.	1.0
5. Number of gullies and erosion associated with gullies: None	
	1.0
6. Extent of wind scoured, blowouts and/or depositional areas: None	1.0
7 A	1.0
7. Amount of litter movement (describe size and distance expected to travel): 1/2" Diameter. Travel is variable depending on the degree of flooding.	1.0
8. Soil surface (top few mm) resistance to erosion (stability values are averages – most sites will show a range of values for both plant canopy and interspaces, if different): 5-6 surface and subsurface.	1.0
9. Soil surface structure and SOM content (include type and strength of structure, and A-horizon color and thickness for both plant canopy and interspaces, if different): Approx. 12" dark brown, moderate subangular blocky structure, 5-6% Organic Matter.	1.0
10. Effect of plant community composition (relative proportion of different functional groups) & spatial distribution on infiltration & runoff: Plants well distributed & all functional groups present per ESD. The very high amount of grass, sedge, and shrub canopy and basal cover will reduce raindrop impact and slow overland flow, minimizing soil and streambank erosion.	1.0
11. Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction on this site): None	1.0
12. Functional/Structural Groups (list in order of descending dominance by above-ground weight using symbols: >>, >, = to indicate much greater than, greater than, and equal to): Shrubs > Cool season Tall Grasses > Sedges >> Native Forbs.	1.0
13. Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence): None	1.0
14. Average percent litter cover (50-55%) and depth (1.0 inches).	1.0
15. Expected annual production (this is TOTAL above-ground production, not just forage production): 3,600 – 5,400 pounds/acre.	1.0
16. Potential invasive (including noxious) species (native and non-native). List species which characterize degraded states and which, after a threshold is crossed, "will continue to increase regardless of the management of the site" and may eventually dominate the site: Houndstongue, Curly Dock, Cocklebur, Burdock, Common Toadflax,	
Spotted Knapweed, Leafy Spurge, Sulphur Cinquefoil, Redtop, Kentucky Bluegrass, Timothy, American Licorice.	1.0
17. Perennial plant reproductive capability : High – all plants should be capable of reproducing.	1.0

Form Rev. 01/16/2005 Issue Date: April 2005