

RESOURCE SETTING: Black Hills, 15-19" Pptn; MLRA 61; Loamy, Shallow Loamy, & Very Shallow sites interspersed w/Ponderosa Pine woodland; Nearly level to 40% slopes; Mixed private, state, & federal ownership.

CURRENT SITUATION: Spring, summer, fall grazing, season-long; Cow/calf, whitetail & mule deer, turkey & sharptail grouse; Limited surface water; Fair w/some good range condition; Wildlife habitat rating > .4; No known unique local cultural values; Operator goals include sustained resources for children & expand enterprises to include fee hunting for ranch survival.

PROBLEM IDENT: Excessive soil erosion, mainly from concentrated water flow into gullies & head cuts; Two track erosion on steeper access roads; Water available in valleys, very little on tops of hills; Riparian damage from prolonged animal concentration, especially in winter & spring; Poor plant vigor; Lack of cover to protect soil resource on steep slopes; Extreme infestations of leafy spurge & Canada thistle in riparian areas w/extreme damage to woody plants from past broadcast chemical applications.

RESOURCE PROBLEMS/ASPECTS													
RESOURCE MANAGEMENT SYSTEMS OPTIONS		SOIL EROSION	SOIL EROSION	WATER QUALITY	WATER QUALITY	WATER QUALITY	PLANTS SUIT.	PLANTS CONDIT.	PLANTS CONDIT.	PLANTS MGT.	ANIMAL HABITAT	ANIMAL HABITAT	ANIMAL HABITAT
(Code)	Practices	Sheet & Rill	Gully	Water Infiltration	(Surface) Pesticides	(Surface) Sediment	Suit. for Intended Use	Prod. - Kind, Amt. Distrib.	Health & Vigor	Pests- Brush, Weeds	Food	Cover or Shelter	Quan./Qual. Drinking Water
(560)	Access Road	NA	+ 2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
(685)	Pest Mgt. w/Chemical	0	0	0	+2D	0	+3	+2	+2	+3	+1F	+1F	+1D
(528)	Proper Grazing Use	+2	+2C	+2	0	+2	+2	+2	+2	+1	+2	+2	0
(574)	Spring Development	+1A	+1A	+1A	NA	+1A	NA	+1A	+1A	0	+1A	+1A	+3
(516)	Pipeline	+1A	+1A	+1A	NA	+1A	NA	+1A	+1A	0	+1A	+1A	+3
(614)	Trough or Tank	+1A	+1A	+1A	NA	+1A	NA	+1A	+1A	0	+1A	+1A	+3
(645)	Wild. Up. Hab. Mgt.	0	0	0	0	+1	+1	+1	+1	0	+3	+3	0
(382)	Fencing (Grazing Sys.)	A	A	A	NA	A	A	A	A	A	A	A	A
(556)	Planned Graz. System	+3	+3C	+3	0	+3	+2	+3	+2	+1	+2	+2	+1

+ = positive effect, - = negative effect; 1 = slight effect, 2 = moderate effect, 3 = significant effect; NA = Not Applicable.

A = depends on practice facilitated, B = short term, C = depends on salt & mineral placement, D = positive effect from using our Stds. & Specs.,

E = positive avoidance of chemicals, F = may be negative depending on wildlife species, G = positive nesting & hiding cover for birds

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(Code)	Practices	Sheet & Rill	Gully	Water Infil- tration	(Surface) Pesticides	(Surface) Sediment	Suit. for Intended Use	Prod. - Kind, Amt. Distrib.	Health & Vigor	Pests- Brush, Weeds	Food	Cover or Shelter	Quan./Qual. Drinking Water
<b>RMS No. 1</b>													
(560)	Access Road	NA	+ 2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
(685)	Pest Mgt. w/Chemical	0	0	0	+2D	0	+3	+2	+2	+3	NA	NA	NA
(528)	Proper Grazing Use	+ 2	+2C	+ 2	0	+ 2	+ 2	+ 2	+ 2	+ 1	+ 1F	+ 1F	+ 1D
(574)	Spring Development	+ 1A	+ 1A	+ 1A	NA	+ 1A	NA	+ 1A	+ 1A	0	+ 1A	+ 1A	+ 3
(516)	Pipeline	+ 1A	+ 1A	+ 1A	NA	+ 1A	NA	+ 1A	+ 1A	0	+ 1A	+ 1A	+ 3
(614)	Trough or Tank	+ 1A	+ 1A	+ 1A	NA	+ 1A	NA	+ 1A	+ 1A	0	+ 1A	+ 1A	+ 3
(645)	Wild. Up. Hab. Mgt.	0	0	0	0	+ 1	+ 1	+ 1	+ 1	0	+ 3	+ 3	0
<b>RMS No. 2</b>													
(560)	Access Road	NA	+ 2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
(382)	Fencing (Grazing Sys.)	A	A	A	NA	A	A	A	A	A	A	A	A
(685)	Pest Mgt. w/Biol.	0	0	0	+3E	0	+3	+2	+2	+2	+1F	+1F	0
(516)	Pipeline	+ 1A	+ 1A	+ 1A	NA	+ 1A	NA	+ 1A	+ 1A	0	+ 1A	+ 1A	+ 3
(556)	Planned Graz. System	+ 3	+3C	+ 3	0	+ 3	+ 2	+ 3	+ 2	+ 1	+ 2	+ 2	+ 1
(528)	Proper Grazing Use	+ 2	2C	2	0	+ 2	+ 2	+ 2	+ 2	+ 1	+ 2	+ 2	0
(574)	Spring Development	+ 1A	+ 1A	+ 1A	NA	+ 1A	NA	+ 1A	+ 1A	0	+ 1A	+ 1A	+ 3
(614)	Trough or Tank	+ 1A	+ 1A	+ 1A	NA	+ 1A	NA	+ 1A	+ 1A	0	+ 1A	+ 1A	+ 3
(645)	Wild. Up. Hab. Mgt.	0	0	0	0	+ 1	+ 1	+ 1	+ 1	0	+ 3	+ 3	0

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