## HYDROLOGIC FUNCTION AND SOIL PROTECTION

TITEROLOGIC I GROTION AND GOLD I ROTLOTION					
Question 4.1. Is there more soil erosion than expected for this site?					
No signs of soil erosion Some signs of soil erosion at small scale (e.g. small rills or occasional hoof-shearing)	5 3				
Signs of soil erosion at large scale (e.g. well-defined flow patterns or frequent trailing and hoof-shearing)	1				
Obvious signs of soil erosion at large scale, with movement of soil off the site	0				
	Score				
Question 4.2. Is there more bare soil than expected for this site?					
Less than 1% of area is bare soil that can be attributed to management impacts	10				
1% to 5% of area is bare soil that can be attributed to management impacts 5% to 15% of area is bare soil that can be attributed to management impacts	3				
More than 15% of area is bare soil that can be attributed to management impacts	0				
	Score				
Question 5. How thick is the surface organic layer (LFH)?					
Thickness similar to ungrazed areas on the same site. Not compacted.	15				
Thickness reduced by 20-30% on moist sites, 30-40% on dry sites, compared to ungrazed areas on the same site. Somewhat compacted.	10				
Thickness reduced by 30-40% on moist sites, 40-50% on dry sites, compared to ungrazed areas on the same site. Compacted.  Thickness reduced by >40% on moist sites, >50% on dry sites, compared to ungrazed areas on the same site. Very compacted.	5				
	0				
	Score				
(B) TOTAL SCORE FOR HYDROLOGIC FUNCTION & SOIL PR	OTECTION				
RANGE HEA	LTH SCORE				
(A) Vegetation status	(out of 70)				
(B) Hydrologic function 75 – 100% Healthy protection	on and soil (out of 30)				

	Majo	Decreas	ser Species		
Decreaser herbs - forbs		page*	Decreaser herbs - grasses		page*
wild sarsaparilla	Aralia nudicaulis	196	awned wheat grass	Agropyron trachycaulum	260
showy aster	Aster conspicuus	183	slender wheat grass	Agropyron subsecundum	260
hawk's-beard	Crepis spp.		fringed brome grass	Bromus ciliatus	272
fairybells	Disporum trachycarpum	83	northern awnless brome	Bromus pumpellianus	273
fireweed	Epilobium angustifolium	149	marsh reed grass	Calamagrostis canadensis	265
cow-parsnip	Heracleum lanatum	153	northern reed grass	Calamagrostis inexpansa	264
cream-coloured vetchling	Lathyrus ochroleucus	141	tall sedges	Carex spp.	
purple peavine	Lathyrus venosus	140	Canada wild rye	Elymus canadensis	261
tall lungwort	Mertensia paniculata	201	hairy wild rye	Elymus innovatus	
spreading sweet-cicely	Osmorhiza depauperata	153	rough-leaved rice grass	Oryzopsis asperifolia	267
American vetch	Vicia americana	140	northern rice grass	Oryzopsis pungens	
			fowl blue grass	Poa palustris	271
			purple oat grass	Schizachne purpurascens	273
	Ι	Decreaser	shrubs		
saskatoon	Amelanchier alnifolia	56	choke cherry	Prunus virginiana	57
red-osier dogwood	Cornus stolonifera	54	low bush-cranberry	Viburnum edule	64
pin cherry	Prunus pensylvanica	57	high bush-cranberry	Viburnum opulus	65

Overall score (out of 100)

50 – 74% Healthy with problems

Unhealthy

< 50%