

Supplement A

Table A1. CARM management history during the grazing season and fall/winter management (F/W).

Pasture		2014	2014-	2015	2015-	2016	2016-	2017	2017-	2018
Name	Ecological site	Grazing	15 F/W	Grazing	16 F/W	Grazing	17 F/W	Grazing	18 F/W	Grazing
Nighthawk	Loamy	rest	80ac burn	3; low residual		rest		3		6
Highway	Loamy	rest		4; low residual		rest		4 (only 7 days grazing)		rest
Hilltank	Loamy	7; low residual		rest		5; less residual than usual		6; grazed to biomass trigger		5
Crossroads	Mixed	6		rest		4		5		4
South	Mixed + Shrubs	rest		rest		3		7; Minimal grazing due to water		3
Ridgeline	Mixed + Shrubs	4		rest		1		9 (only 10 days grazing)		7
Head-quarters	Mixed+ SF	3		rest		7; still high residual		2; regrowth after	Proposed burn - not implemented	8
Salt Flat	Sandy+ SF	5; high residual	80ac burn	2; low residual		rest		8		9
Elm	Sandy+ SF	1; very high residual		rest		2; less residual than usual		rest	80ac burn	1
Snowfence	Sandy + Shrubs	2; very high residual		1; high residual		6; still high residual off burn	80ac burn	1; low June biomass, but regrowth		2

SF = Salt Flat ecological site present in portion of pasture

rest	high residual biomass	low residual	Prescribed burn (acres)
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Table A2: CARM herd management history. “Triggers” are thresholds that indicate a movement of the CARM herd among pastures.

	2014	2015	2016	2017	2018
Stocking (# Steers)	214	224	234	244	280
Pastures Grazed/Rested	7/3	4/6	7/3	9/1	9/1
Cattle movement triggers					
Minimum veg biomass	Yes; Not Used	Yes; Used	Yes; Used	Yes; Used	Yes; Used
Cattle behavior	Yes; Not Used	Yes; Used	Yes; Used	Yes; Not used	Yes; Not used
Max days in pasture	Yes; Used	No	Yes; Used	Yes; Used	Yes; Used
Biomass on burn	NA	Yes; Used Yes; Not	NA	NA	NA
Days in last pasture	No	Used	Yes; Used	Yes; Used	Yes; Used
Water availability	No	No	No	No; Used	No; Used
Avg/wet year exit thresholds:					
Loamy	300	300	450	450	450
Mixed	400	400	500	500	500
Sandy	450	450	550	550	550
Drought exit thresholds:					
Loamy	300	300	300	300	300
Mixed	400	400	400	400	400
Sandy	450	450	450	450	450
Burn entrance threshold:		350		No	No
Max Days setting if used:	Variable based on grazing calculator	Not Used	24	21	14/21/10
Days in last pasture criteria:		At least 7	At least 10	At least 10	At least 10

