

Laramie Region Field Report Summary Sheet

Transect Name: Cedar Hills

Date Established (m-d-y): 8/2/01

Established by: Rick Straw

Herd Units Represented: Mule Deer 541 & Antelope 528

Witness Post GPS Location: 13T0357758 4581722

GPS Indicated Altitude: 7284

Community Type: ArTrWy, PuTr, ChVi

Estimated Slope: 30 degrees

Estimated Aspect (azimuth): 280 degrees

Animal Use: Mule deer, horse

Transect & Exclosure Photo Taken: No

Soil Sample Taken: No

Shrub Recruitment Belt Transect: Yes

Nutrient Sample Taken: Yes

Shrub Stems Taken for Age Determination: Yes

Exclosure Installed: Yes

Fecal Sample Collected (species): Yes (Mule deer)

Field Observations

Area receives very high use during severe winters. Rocky mountain juniper present, many of which have been high lined.

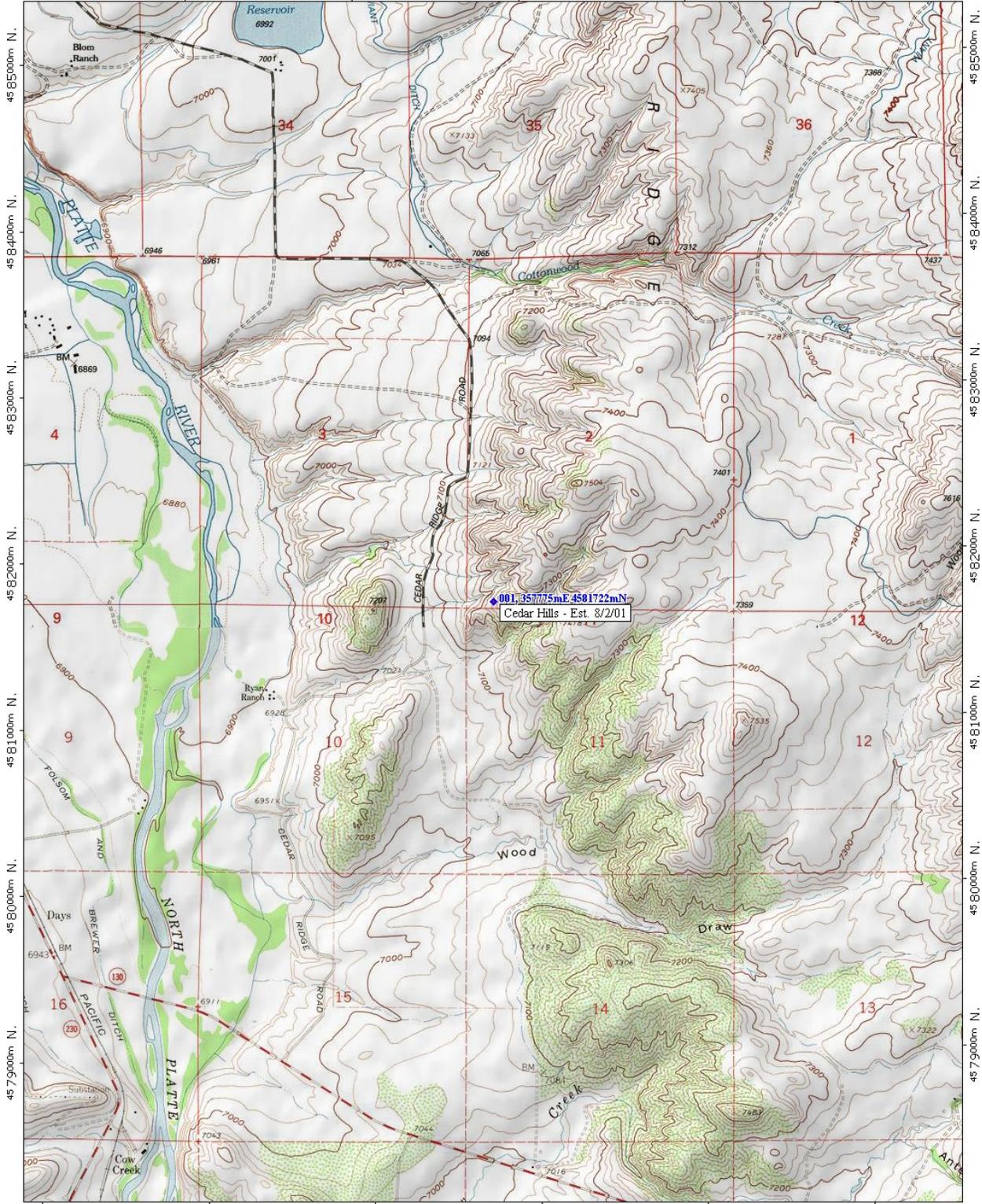
356 000m E.

357 000m E.

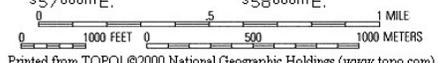
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NAD27 Zone 13T 360 000m E.



TN MN
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Figure 7. Cage at Cedar Hills. 7/29/03.



Figure 8. Landscape at monitoring station.



AbÁ

Figure 9. Transect line. 7/29/03.

ANNUAL LEADER PRODUCTION				
SPECIES	Sampling Date	# OF LEADERS MEASURED	AVERAGE LEADER LENGTH (cm)	Comment
ArtTriW	9/27/01	100	4.00	Good production on PurTri and ArtTriW. Both species producing smaller plants with many relatively long leaders. Bitterbrush disappears at the end of the transect and is "replaced" by ChVi.
ArtTriW	2002	100	2.07	
ArtTriW	9/16/03	100	2.72	

Platte Valley Mule Deer HU						
<u>TRANSECT NAME</u>	<u>SPECIES</u>	<u>AVG. % UTILIZATION</u>				<u>SUGGESTED LEVELS OF USE</u>
		2003/2004	2004/2005	2005/2006	2006/2007	
Prospect	Antelope Bitterbrush	66.5				60 – 65%
School Creek	Antelope Bitterbrush	51.8				60 – 65%
Cedar Hills	Mt. Big Sagebrush	48.5				45%

Collection Date: 8/02/01

HEDGING CLASSIFICATION

SAMPLING DATE: 7/29/03

<u>HEDGING CLASS</u>	<u>DESCRIPTION</u>
1	Little or no hedging – Indicates light use in the past 3 to 4 years.
2	Moderate hedging – Use in past 3 to 4 years caused much development of lateral branching and more complex growth form.
3	Severely hedged – Heavy use in the past 3 to 4 years caused a very much clubbed or broomed appearance.
<u>SHRUB SPECIES</u>	
PurTri	3
ArtTriW	3

POINT FRAME MEASUREMENTS

$$\text{Relative Frequency} = \frac{\text{Total Number of Intercepts Per Category}}{\text{Total Number of Points Sampled}}$$

Sampling Date: 8/2/01

Intercept Category	Frequency (%)
ArTrWy	8
ChVi	4
PuTr	5
Cushion Plant?	7
Sedge	7
Phlox	1
Rock	15
Litter	17
Bare Ground	25

LIVE SHRUB CANOPY MEASUREMENTS*

Sampling Date – 7/29/03

Species	Total Inches Intercepted	% Live Canopy Coverage
ArtTriV	214	18%
PurTri	19	2%
ChrVis	44	4%

*% Live Canopy Cover = $\frac{\text{Total Inches Live Canopy Intercepted/Species}}{\text{Total Inches in Transect (1200)}} \times 100$

SHRUB (STEM) DENSITY/RECRUITMENT PER ACRE

Sampling Date – 7/29/03

Species	No. and % Mature Plants	No. and % Young Plants	No. and % Decadent Plants	No. and % Dead Plants	Total Plants Per Acre
ArtTriV	58 – 43%	6 – 4%	64 – 47%	7 – 5%	4320
PurTri	5 – 23%	0	15 – 68%	2 – 9%	702
ArtFri	Not Sampled by Age Class				32
ChrVis	Not Sampled by Age Class				1248

Comments: Very heavy BroTec infestation.

SHRUB AGE CLASSIFICATION					
Species	Age				
ArtTriW	88	74	80	77	77
PurTri	48	52	32	44	37

Interpretation:

FECAL ANALYSIS														
Species – Mule Deer														
PLANT GENUS	Agropyron	Hordeum	Poa	Stipa	Artemisia tridentata type	Atriplex	Cactus	Composite	Juniperus	Lesquerella	Purshia	Sphaeralcea		
Mean % Relative Density	2.43	7.05	0.81	3.33	21.77	0.72	0.72	3.35	17.88	5.17	11.96	0.81		

* Highest mean percent relative density in sample.

* Shrub and tree genus' found in sample.

SHRUB NUTRIENT ANALYSIS					
	PLANT SPECIES				
	Artemisia tridentata wyomingensis	Chrysothamnus viscidiflorus	Purshia tridentata		
P% (Phosphorous)	0.103	0.188	0.122		
Ca% (Calcium)	0.828	1.371	0.698		
Fe ppm (Iron)	136.9	386.1	163.5		
Cu ppm (Copper)	12.20	18.3	4.0		
ADF%	27.75	22.98	34.97		
Total C (Carbon)	59.65	57.45	58.66		
Total N (Nitrogen)	2.274	2.576	1.973		
CP% (Crude Protein)	14.21	16.10	12.33		

Collection Date:8/2/01

PRECIPITATION DATA
 (Western Regional Climate Center)

Station Name	Recording Period-Precip. Mean	Station Elevation (Feet)	Station Location Lat/Long	Current Reading Previous 2 Yrs.
Saratoga 1 SSE	1948 – 2000 – 9.76 Inches	6790	4127 – 10648	2001 – 5.47 2002 – 5.94