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TO THE BUREAU OF LAND MANAGEMENT

ANNUAL PROGRESS REPORT

1972

ARID LAND ECOLOGY RESEARCH

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ARID LAND ECOLOGY RESEARCH¹
1972 ANNUAL PROGRESS REPORT

BY

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S E C T I O N I

PRECIPITATION PATTERN STUDY

1972

Introduction

During 1960 over 70 gauges were installed at 6 to 12 mile intervals throughout the Big Horn and Wind River Basins. Since that time approximately 20 gauges in the Big Horn Basin have been discontinued and some 80 gauges have been installed at various exclosures and study sites throughout western Wyoming. These gauges are cans, 12" in height and approximately 2.75" in diameter. This diameter allows reading of precipitation by pouring the water into a 100 ml cylinder and converting ml readings to inches of rainfall. One hundred ml is equal to 1" of precipitation. The gauges are read on the same four dates each year--April 15, July 1, September 1, and October 15. Personnel of the Worland, Lander, Rawlins, Casper and Rock Springs Districts of the Bureau of Land Management cooperate with the University in reading the instruments. Some gauges are also read by personnel of the Soil Conservation Service and the Wyoming Game and Fish Commission.

The U. S. Weather Bureau and the U. S. Geological Survey precipitation data are used to provide additional information from other locations. This cooperative effort provides an effective network for future evaluation of precipitation patterns. A map of precipitation gauge locations was presented in the 1963 report.

Precipitation data for 1972 from the University gauges are presented in Table I; those from the U. S. Weather Bureau stations are presented in Table II.

Table I. Precipitation data for 1972 from University of Wyoming gauges for the periods October 15-April 15 (winter), April 15-July 1 (spring), July 1-September 1 (summer) and September 1-October 15 (fall).

Precipitation Periods and Data Collection Dates								
Rain Gauge No.	Rain Gauge Name	Winter Apr. 15 '72	Spring July 1 '72	Summer Sept. 1 '72	Fall Oct. 15 '72	Total '72	Long-Term Average	No. of years
<u>Big Horn County</u>								
176	Basin Flats Exc.	2.70	2.69	1.41	.90	7.70	6.85	6
123	Big Flat Exc.	1.75	2.30	1.52	1.00	6.57	6.41	5
24	Halogeton Exc. #1	1.40	1.64	1.26	.32	4.62	5.42	13
167	Halogeton Exc. #2	2.00	2.01	1.41	.61	6.03	6.03	1
168	Halogeton Exc. #3	1.48	1.74	1.36	.42	5.00	5.00	1
12	Horse Creek Exc.	4.11	3.01	2.57	.76	10.45	11.49	13
113	Horse Haven Exc.	2.72	2.90	1.75	.94	8.31	7.28	6
21	Kane Deer Exc.	5.47	4.15	3.72	.80	14.14	12.67	8
149	Kane GRI Exc.	5.45	3.79	3.94	.65	13.83	13.87	5
116	Kane Seed Exc.	2.70	1.71	1.94	.40	6.75	7.01	5
148	Medicine Lodge GRI Exc.	3.42	3.52	3.52	1.53	11.99	14.02	5
175	Potato Ridge Exc.	3.58	3.20	1.91	.97	9.66	8.51	5
23	Sheep Springs Exc.	5.55	4.91	4.29	1.33	16.08	14.11	12
176	Sheldon Gulch Exc.	1.98	3.12	1.85	.92	7.87	8.06	5
<u>Park County</u>								
147	Big Sage Exc.	1.28	2.71	2.16	.37	6.52	7.60	4
146	Big Sky Exc.	1.55	2.95	2.24	.51	7.25	8.56	4
100	Buffalo Basin Exc.	1.82	3.34	4.30	.46	9.92	10.75	6
145	Hilltop Springs	5.80	5.90	3.21	1.59	16.50	14.84	4
184	Little Dry Creek	-	Installed	3.35	.28	-	-	-
<u>Washakie County</u>								
1	Ant Hill Worland Exc.	2.38	1.43	2.60	1.05	7.46	6.56	13
150	Big Trails GRI Exc.	2.50	5.96	2.15	1.08	11.69	13.33	5
41	Bud Kimball Exc.	2.85	2.77	2.10	.65	8.37	9.20	11
7	Buffalo Creek Exc.	3.30	5.23	1.84	.70	11.07	10.47	11
17	Burnt Wagon Exc.	2.25	1.45	2.31	.47	6.48	6.17	11
179	Chalk Exc.	.53	1.14	2.10	.57	4.34	6.35	12
8	Demer Exc.	2.05	2.46	1.22	.77	6.50	8.16	13
4	Dutch Nick Flat Exc.	2.37	2.07	2.35	.89	7.68	7.00	12
15	15 Mile Study Area (179)	.53	1.14	2.10	.57	4.34	6.35	12
177	Hawk Exc.	2.42	1.64	2.05	.40	6.51	6.16	11
166	Mills Burn	2.51	7.72	2.35	1.09	13.67	13.78	2
185	Rice Burn	-	Installed	2.47	1.20	-	-	-
180	Sand Creek Exc.	2.82	1.97	3.80	1.23	9.82	6.80	6
36	Smilo Exc.	4.74	2.28	1.34	1.06	9.42	8.31	12
181	Tolman Ridge Exc.	3.11	2.00	4.13	1.20	10.44	6.92	6
39	Two Mile Hill Exc.	3.55	3.95	2.95	.85	11.30	9.36	12
13	West Pasture Exc.	.53	1.25	1.77	.41	3.96	5.65	11
178	Willwood Exc.	.50	1.30	2.16	.58	4.54	6.28	12
115	Worland Cattle Co. Exc.	1.52	2.19	1.28	.75	5.74	7.38	5
<u>Hot Springs County</u>								
117	Big Bend Exc.	3.07	2.57	1.29	.80	7.73	9.46	5
76	Cochran Exc.	2.86	2.68	1.03	.76	7.33	10.03	12
77	Kirby Creek Exc.	3.05	2.69	1.32	1.00	8.06	8.93	10
11	Lower Enos Cr. Exc.	2.10	5.53	3.44	.38	11.45	10.64	5
183	North Butte - Thermop	3.80	3.02	.84	.85	8.51	8.51	1
182	Round Top Mountain	6.28	3.30	.81	.87	11.26	11.26	1
75	Sand Gulch Exc.	2.55	2.63	1.05	.93	7.16	8.95	11
22	Upper Enos Creek Exc.	4.53	3.29	5.26	.52	13.60	14.96	7
<u>Fremont County</u>								
52	Alkali Flats	5.06	3.58	2.15	1.04	11.83	8.90	12
5	Ant Plot Exc. (Lander)	5.52	2.40	.95	.79	9.66	8.91	12
157	Bar X	2.81	2.81	.15	.89	6.66	6.82	4
89	Birdseye Ranch	4.26	1.96	1.30	.78	8.30	7.70	9
10	Boysen Reservoir Exc.	2.56	1.48	.85	.35	5.24	4.87	13

Table I. Continued

Precipitation Periods and Data Collection Dates								
Rain Gauge No.	Rain Gauge Name	Winter Apr. 15 '72	Spring July 1 '72	Summer Sept. 1 '72	Fall Oct. 15 '72	Total '72	Long-Term Average	No. of years
85	Bridger Creek Ranch	7.70	3.31	2.28	.90	14.19	10.94	10
49	Canyon Creek	4.00	4.10	1.68	.87	10.65	8.70	11
59	Carter Divide Exc.	3.24	4.16	.56	.42	8.38	8.26	12
88	Comet Mine	8.14	E2.75	1.65	.67	E13.21	11.65	10
60	Dishpan Butte #1 Exc.	4.44	6.20	.60	.80	12.04	10.16	11
61	Dishpan Butte #2 Exc.	3.45	4.05	1.10	.80	9.40	9.41	11
86	Dry Creek	3.30	1.96	1.10	.32	6.68	6.95	12
58	Empty Cartridge Exc.	E3.30	E3.70	E .60	.45	E 8.05	7.75	9
55	Fraser Seed Plot	4.84	4.04	1.80	.92	11.60	8.64	10
48	Fuller Seed Plot	E4.50	E2.50	1.40	.61	E 9.01	8.70	12
46	Gibbs Butte	3.82	3.00	1.56	.63	9.01	7.18	12
6	Granite Mountain Exc.	3.32	4.36	.75	.44	8.87	8.75	9
62	Hall Creek Divide Exc.	4.87	4.72	.95	.65	11.19	11.52	12
87	Hoodoo Creek	3.86	2.22	2.10	.19	8.37	6.10	12
64	Hudson	3.64	3.97	E .90	.30	E 8.81	8.90	12
68	Johnson	3.54	2.09	2.06	1.12	8.81	7.32	10
63	Little Popo Agie	E4.75	3.20	1.00	.80	9.75	10.82	12
56	Logan #1 Exc.	4.80	5.05	.90	.64	11.39	9.20	12
57	Logan #2 Exc.	3.24	3.63	.60	.58	8.05	8.59	12
16	Lower Gov't. Draw Exc.	3.45	4.40	1.16	.60	9.61	10.54	12
81	Mack Ranch	6.46	2.54	1.46	.67	11.13	8.00	9
67	Madden	4.38	3.25	1.74	1.04	10.41	10.28	11
14	McGraw Flat Exc.	2.81	4.50	.76	.60	8.67	9.66	12
47	Muskrat Creek	3.68	1.98	1.10	.34	7.10	7.10	11
50	Muskrat #5 Exc.	5.37	E2.40	E1.80	.80	10.37	8.74	12
51	Poison Creek	4.03	2.54	1.30	.54	8.41	7.79	10
80	Poison Draw	3.90	1.98	1.38	.47	7.73	7.38	12
65	Sand Draw	4.39	4.18	.65	.42	9.64	8.77	11
169	Shoshoni Ant #2 Exc.	4.64	2.54	1.50	.57	9.25	9.25	1
170	Shoshoni Ant #4 Exc.	4.32	2.36	1.56	.68	8.92	8.92	1
158	Shoshoni Ant #7 Exc.	4.40	2.54	1.72	.66	9.32	9.45	2
171	Shoshoni Ant #9 Exc.	3.96	2.33	1.46	.63	8.38	8.38	1
172	Shoshoni Ant #8 Exc.	4.12	2.31	1.68	.64	8.75	8.75	1
173	Shoshoni Ant #11 Exc.	4.60	2.31	1.96	.68	9.55	9.55	1
11	Sweetwater Exc.	3.14	4.02	.70	.38	8.24	8.03	10
9	Upper Gov't. Draw Exc.	2.94	2.93	.82	.40	7.09	8.30	12
<u>Natrona County</u>								
143	Armino Exc.	4.35	3.14	1.47	.95	9.91	9.38	5
109	Bolton Creek Exc.	2.91	4.76	1.79	1.55	11.01	9.42	4
141	Donlin Exc.	3.15	2.89	1.80	1.04	8.88	7.65	5
110	E K Exc.	4.35	3.14	1.47	.95	9.91	9.38	5
142	Merino Exc.	4.15	3.03	2.44	1.27	10.89	9.52	5
108	Mud Springs Exc.	3.82	4.64	3.40	1.46	13.32	11.50	5
107	Owl Draw Exc.	3.84	3.90	1.75	1.36	10.85	9.83	8
144	Poison Spider Exc.	3.52	3.48	2.56	1.10	10.66	9.17	5
106	Stinking Creek Exc.	2.90	4.98	1.97	1.43	11.28	9.66	6
<u>Carbon County</u>								
186	Flattop		Installed	.58	1.07			
27	Little Robber #5 Exc.	GD	2.40	.59	2.22	RI	10.16	10
128	Oppenheimer Exc. #1	DR	DR	10.06	1.28	11.34	10.40	5
124	Poison Butte Exc. #1	5.55	DR	5.10	1.12	11.77	11.15	5
125	Poison Butte Exc. #2	DR	6.15	.60	1.77	8.52	11.24	5
130	Powder Rim Past C Exc. #1	3.89	1.68	.49	1.30	77.36	8.45	5
26	Red Wash #1 Exc.	2.00	2.85	.78	1.36	6.99	8.64	11
25	Red Wash #3 Exc.	2.61	2.65	E1.10	1.30	7.66	9.11	11
<u>Sweetwater County</u>								
20	Black Mountain Exc.	3.73	1.05	1.17	.86	6.81	7.60	11
30	Boars Tusk Exc.							
18	Cedar Mountain Exc.	3.94	2.08	1.14	1.00	8.16	8.20	11
102	Chandler Simpson Well	1.87	1.91	GD	.50	RI	5.21	4

Table I. Continued

		Precipitation Periods and Data Collection Dates						
Rain Gauge No.	Rain Gauge Name	Winter Apr. 15 '72	Spring July 1 '72	Summer Sept. 1 '72	Fall Oct. 15 '72	Total '72	Long- Term Average	No. of years
<u>Sweetwater County, cont.</u>								
103	Daley Hay Corral	2.70	3.39	1.02	1.04	8.15	6.71	6
2	Farson Exc.	2.58	2.06	.28				
95	Farson Guzzler #1							
96	Farson Guzzler #2							
97	Farson Guzzler #3							
98	Farson Guzzler #4							
99	Farson Guzzler #5							
122	Firehole Guzzler #10							
151	Firehole Guzzler #11							
152	Firehole Guzzler #12							
153	Firehold Guzzler #13							
104	J. O. Headquarters	3.31	2.96	1.22	1.14	8.63	7.66	7
105	Len Hay Corral	3.11	2.50	.52	1.18	7.31	6.95	7
162	Little America Guzzler #20							
163	Little America Guzzler #21							
164	Little America Guzzler #22							
165	Little America Guzzler #23							
159	Little Bitter Cr. Guz. #17							
160	Little Bitter Cr. Guz. #18							
131	Powder Rim Past D Exc. #1	3.60	1.67	.60	1.07	6.94	8.18	5
136	Powder Rim Past B Exc. #1	4.28	1.84	.80	1.10	8.02	9.05	5
137	Powder Rim Past B Exc. #2	5.58	2.54	.59	1.28	9.99	11.52	5
139	Powder Rim Past A Exc. #1	4.36	DR	4.80	1.19	10.35	9.93	5
118	Power Line Guzzler #6							
119	Power Line Guzzler #7							
19	Radio Tower Exc.	2.80	2.13	1.16	.71	6.80	7.21	12
28	Red Wash #2 Exc.	2.03	2.98	1.08	1.15	7.24	7.69	11
161	Sage Creek Guzzler #19							
154	Salt Wells Guzzler #14							
155	Salt Wells Guzzler #15							
156	Salt Wells Guzzler #16							
120	Steamboat Guzzler #8							
121	Steamboat Guzzler #9							
101	Ten Mile Ridge	2.18	2.12	GD	GD	RI	5.69	6
<u>Uinta County</u>								
31	Cumberland #1 Exc.	.72	.72	.68	1.10	3.22	7.80	8
34	Cumberland #4 Exc.	.81	1.78	.76	.80	4.15	7.98	8
<u>Lincoln County</u>								
32	Cumberland #2 Exc.	5.47	3.61	.80	.74	10.62	9.44	9
33	Cumberland #3 Exc.	10.07	2.53	1.68	1.42	15.70	11.59	9
35	Elk Mountain Pit	5.62	2.65	2.65	.68	11.60	9.30	8

GD = Gauge Down

RI = Record Incomplete

DR = Delayed reading from gauge. Dates

E = Precipitation estimated from records of nearest gauge

Table II. Precipitation data from selected U.S. Weather Bureau Stations for the period October 15, 1971 to October 15, 1972.^{1/}

Station Name	Winter	Spring	Summer	Fall	1972 Totals ^{2/}	Long- Term ^{3/} Average	Years of Record
	Oct. 16 to Apr. 15	Apr. 16 to July 1	July 1 to Sept. 1	Sept. 1 to Oct. 15			
<u>Big Horn Basin</u>							
Anchor Dam	4.68	4.78	4.44	.56	14.46	10.87E	11
Basin	2.37	1.63	1.91	.58	6.49	6.21	65
Black Mountain	7.05	3.22	1.59	1.14	13.00	10.09E	10
Cody 12 SE	4.53	RI	3.55	1.23	RI	9.08E	10
Deaver	2.93	1.31	1.87	.39	6.50	5.21	54
Emblem	1.43	2.54	2.55	.96	7.48	8.83E	26
Grass Creek	RI	4.90	2.49	.47	RI	6.04E	20
Greybull 15	2.81	2.09	2.85	RI	RI	6.39E	21
Heart Mountain	3.47	2.82	3.41	1.23	10.93	7.36E	24
Lovell	2.38	2.97	3.25	.33	8.93	6.92	60
Powell	2.08	2.07	1.68	.67	6.50	5.67	63
Rairden 2 WSW	RI	1.93	3.37	.93	RI	6.36E	21
Shell	RI	-	-	1.33	RI	9.12E	14
Ten Sleep 4 NE	7.00	3.78	2.47	1.36	14.61	13.67E	9
Ten Sleep 16 SSE	5.51	4.97	2.02	1.13	13.63	12.88E	
Thermopolis 2	4.57	3.95	RI	.96	RI	11.01	8
Thermopolis 25 WNW	4.36	3.58	2.91	.63	11.48	9.62	15
Worland	3.27	2.42	1.61	1.22	8.52	7.76	59
Worland FAA AP	2.87	1.79	1.25	1.43	7.34	5.47E	12
<u>Wind River Basin</u>							
Boysen Dam	4.11	2.26	1.43	.15	8.45	9.99	26
Diversion Dam	RI	2.71	1.20	.51	RI	9.45	52
Fort Washakie 2 S	RI	5.02	RI	.05	RI	11.90	64
Gas Hills 4 E	RI	3.12	RI	1.00	RI	7.28E	10
Lander	6.61	3.91	1.45	.67	12.64	13.58	81
Lost Cabin	RI	2.48	.22	1.22	RI		11
Pavillion	2.19	3.31	.53	.53	6.56	8.67	48
Riverton	3.64	4.71	.93	.32	9.60	8.79	53
Sand Draw	RI	5.06	.33	.35	RI	10.24E	25
Shoshoni	3.26	1.83	.84	.76	6.69	7.18E	32
<u>South West Wyoming</u>							
Farson	RI	1.06	.55	1.39	RI	7.97E	49
Green River	3.43	1.44	1.11	.87	6.85	8.70	66
Kemmerer 4 SW	4.62	3.13	.83	RI	RI	7.76E	39
Rock Springs	4.76	2.67	.59	.97	8.99	8.61	32
Rock Springs FAA AP	4.88	3.26	1.29	1.36	10.77	10.98	40
Wamsutter 1 N	RI				-	6.60E	32
Muddy Gap	4.62	3.30	1.64	1.64	11.20	8.24E	23
Rawlins FAA AP	5.68	2.93	1.35	1.92	11.88	10.62	33

— = No record

T = Trace

RI = Record Incomplete

^{1/} Weather Bureau, 1972. Climatological Data-Wyoming Annual Summary of Commerce Vols. 80 & 81.

^{2/} Computed for the period October 15, 1971 to October 15, 1972.

^{3/} Weather Bureau, 1972. Climatological Data-Wyoming Annual Summary. U.S. Dept. of Commerce. Vol. 81, No. 13 and John Alyea, U.S. Weather Bureau, Cheyenne.

EXCLOSURE STUDIES (PRODUCTION, COVER, AND PRECIPITATION PHASE)

1972

Studies of vegetation production from several exclosures and relic areas of the Big Horn and Wind River Basins were initiated during the 1962 field season. These studies have been continued annually since this time. The objectives of the program are to determine:

1. the relationship of annual herbage production to area cover percentage;
2. the relationship of annual herbage production changes to variations in time and amount of available moisture;
3. the relationship of plant height of major forage species to annual herbage production and to time and amount of available moisture;
4. influence of several range improvement practices on herbage production and area cover;
5. the relationship of percentage frequency to area cover and herbage production.

Methods and Procedures

Area cover and herbage production studies on sagebrush-grass sites were conducted on transects of 20 quadrats, 1' x 1', spaced systematically along a randomly located 100' steel tape.

On sites dominated by saltbush, a variation of the sampling technique, described in the 1968 results, was used to measure herbage production. Twenty 1' x 10' plots were located systematically along a randomly located 100' steel tape. Each 1' x 10' plot was subsampled for vegetative cover using 10, 1' x 1' plots.

Area cover of all herbaceous semi-woody and woody species was estimated within each square foot plot. Data of shrub crown cover and basal cover of

plains pricklypear, Hood's phlox, and Hooker sandwort were not combined when comparing area cover to herbaceous production since this group of plants was not clipped.

Forage production was determined by clipping herbaceous species at ground or crown level. The clipping procedure was conducted on or near the same date as the previous years for each exclosure. Clippings were oven-dried at 70°C for 24 hours prior to weighing.

On areas where utilization had occurred prior to clipping, utilization estimates by species were made. These estimates were made at the same time and on the same plots where clipping was done. The utilization values were averaged by species for the 20 plots and later used to adjust production for vegetation lost by utilization.

As in 1968 and 1971, production of shrubby species was determined. By adding the shrubby species production to the clipped production, an index of total production was derived. Shrub production was obtained by a modified double-sampling technique during early September. Weight units are estimated on 20 quadrats, 4' x 5', spaced 6 - 12 steps apart across the study area. Weight units of characteristic shape and size are determined before estimates are made. Later 2 to 3 weight units per species are clipped. After drying in the oven at 70°C for 96 hours each unit is weighed. Average unit weights are later used to change the estimated units to grams and then to pounds per acre.

At the same time clipped production data are collected, pictures of the transects are taken giving a pictorial history from year to year at each study location.

Precipitation data are recorded from simple aluminum rain gauges installed at each exclosure. The rain gauge has a diameter of 2.75 inches; so each 100 milliliters of water recorded in the gauge equals one inch of

precipitation. Oil is added to each gauge after reading to prevent evaporation. During the winter months antifreeze is added in known amounts to keep the gauges from freezing and breaking. Precipitation data are collected four times a year--April 15, July 1, September 1, and October 15.

Names of plants which occurred in the production study areas are shown in Table I. Included are the four letter code, genus, species, common names, life form and characteristic longevity of the plants.

Results 1972

The information presented in this 1972 annual report is in the same format as past Arid Land Ecology Annual Reports. Basal cover, frequency, production and precipitation data are presented on summary sheets, one summary for each study area treatment. Table II gives an alphabetical listing of study areas, the county where each is located, the treatments studied at each area, and also serves as a table of contents for reference to specific pages concerning each study area.

Production on each summary sheet is broken down into clipped production (herbaceous species), shrub production, total production and an adjusted total production for locations where utilization of vegetation had occurred prior to clipping. Table III gives the exclosures and utilization percentages for sites where utilization had occurred. Study areas not mentioned showed no significant amount of utilization.

Table IV gives a comparison of 1972 precipitation and production with average precipitation and production for the years 1962-1971 at 21 exclosures. Precipitation was above average at Smilo, Lander Ant, Sweetwater (ARTR), Burnt Wagon, Two Mile Hill, Boysen, Dutch Nick, and Buffalo Creek Exclosures. In 1972, all exclosures with better than average precipitation, except for

Smilo and Buffalo Creek, recorded better than average production. Smilo exclosure had decreased production on the inside native area and Buffalo Creek's production on the inside native treatment was the same as the average. A few areas with less than average precipitation had better than average production. This points out that time of precipitation is important to production output and that greatest production will not necessarily result from an increase in total annual precipitation.

Production on the sprayed areas did not reflect a weakening as all treated areas produced near or above their 10 year average. This is approximately 10 years after treatment.

TABLE I. LIST OF PLANT NAMES WHICH OCCURRED IN PRODUCTION STUDY AREAS

Code	Genus--Species	Common Name	Life Form	Longevity
AGCR	Agropyron cristatum	Crested wheatgrass	Grass	Perennial
AGGL	Agoseris glauca	Pale agoseris	Forb	Perennial
AGGR	Agropyron griffithsii	Griffith's wheatgrass	Grass	Perennial
AGSM	Agropyron smithii	Western wheatgrass	Grass	Perennial
AGSP	Agropyron spicatum	Bluebunch wheatgrass	Grass	Perennial
ALDE	Alyssum desertorum	Desert Alyssum	Forb	Annual
ALTE	Allium textile	Textile onion	Forb	Perennial
ARAR	Artemisia arbuscula	Low sagebrush	Shrub	Perennial
ARFR	Artemisia frigida	Fringed sagewort	Half-shrub	Perennial
ARHO	Arenaria hookeri	Hooker sandwort	Forb	Perennial
ARHO ²	Arabis holboellii	Holboell rockcress	Forb	Perennial
ARNO	Artemisia nova	Black sagebrush	Shrub	Perennial
ARPE	Artemisia pedatifida	Brown sagebrush	Shrub	Perennial
ARSP	Artemisia spinescens	Bud sagebrush	Half-shrub	Perennial
ARTR	Artemisia tridentata	Big sagebrush	Shrub	Perennial
ASMI	Astragalus missouriensis	Missouri milkvetch	Forb	Perennial
AST	Astragalus spp.	Milkvetch	Forb	Perennial
ATAR	Atriplex argentea	Silverscale saltbush	Forb	Annual
ATCO	Atriplex confertifolia	Shadscale saltbush	Shrub	Perennial
ATNU	Atriplex nuttallii	Nuttall saltbush	Half-shrub	Perennial
BOGR	Bouteloua gracilis	Blue grama	Grass	Perennial
BRCO	Bromus commutatus	Hairy chess	Grass	Annual
BRJA	Bromus japonicus	Japanese chess	Grass	Annual
BRTE	Bromus tectorum	Cheatgrass	Grass	Annual
CAEL	Carex eleocharis	Needleleaf sedge	Sedge	Perennial
CAFI	Carex filifolia	Threadleaf sedge	Sedge	Perennial
CAMI	Camelina microcarpa	Littlepod falseflax	Forb	Annual
CANU	Calochortus nuttallii	Mariposa lily	Forb	Perennial
CAS	Castilleja spp.	Paintbrush	Forb	Perennial
CELE	Cercocarpus ledifolius	Curlleaf Mt. Mahogeny	Shrub	Perennial
CHEN	Chenoposium sp.	Goose foot	Forb	Annual
CHNA	Chrysothamnus nauseosus	Rubber rabbitbrush	Shrub	Perennial
CHVI	Chrysothamnusviscidiflorus	Green rabbitbrush	Shrub	Perennial
COPA	Commandra pallida	False toadflax	Forb	Perennial
CORA	Cordylanthus ramosus	Branched birdbeak	Forb	Annual
CRBR	Cryptantha bradburiana	Miners candle	Forb	Perennial
CRFL	Cryptantha flavoculata	Cryptantha	Forb	Perennial
CRIN	Cryptantha interrupta	Cryptantha	Forb	Perennial
CRY	Cryptantha spp.	Cryptantha	Forb	Perennial
CRE	Crepis spp.	Hawksbeard	Forb	Perennial
DEPI	Descurainia pinnata	Pinnate tansymustard	Forb	Annual
ELCI	Elymus cinerious	Basin wildrye	Grass	Perennial
ERCO	Erigeron compositus	Fernleaf fleabane	Forb	Perennial
ERMI	Eriogonum microthecum	Slenderbush	Forb	Perennial
EROV	Eriogonum ovalifolium	Cushion eriogonum	Forb	Perennial
ERPU	Erigeron pumilus	Fleabane	Forb	Perennial
ERUM	Erigonum Umbellatum	Sulfur wild buckwheat	Forb	Perennial
EULA	Eurotia lanata	Winterfat	Half-shrub	Perennial
EUSE	Euphorbia serphyllifolia	Thyme-leaved spurge	Forb	Annual
FEID	Festuca idahoensis	Idaho fescue	Grass	Perennial
FEOC	Festuca octoflora	Sixweek fescue	Grass	Annual
GIL	Gilia spp.	Gilia	Forb	Annual
GIPU	Gilia pumila	Gilia	Forb	Annual
GUSA	Gutierrezia sarothrae	Broom snakeweed	Half-shrub	Perennial
HAAC	Haplopappus acaulis	Stemless goldenweed	Forb	Perennial
HAGL	Halogeton glomeratus	Halogeton	Forb	Annual
HEPE	Helianthus petiolaris	Prairie sunflower	Forb	Annual
JUOS	Juniperus osteosperma	Utah juniper	Tree	Perennial
KOCR	Koeleria cristata	June grass	Grass	Perennial
LAC	Lactuca spp.	Lettuce	Forb	Annual
LAPU	Lactuca pulchella	Blue lettuce	Forb	Perennial
LARE	Lappula redowskii	Stickseed	Forb	Annual
LEDE	Lepidium densiflorum	Prairie pepperweed	Forb	Annual
LEPE	Lepidium perfoliatum	Clasping pepperweed	Forb	Annual
LEPU	Leptodactylon pungens	Granite gilia	Forb	Perennial
LILE	Linum lewisii	Blue flax	Forb	Perennial
LIRU	Lithosperum ruderales	Wayside gromwell	Forb	Annual
LUPU	Lupinus Pusillus	Rusty lupine	Forb	Annual
MACA	Machaeranthera canescens	Hoary aster	Forb	Perennial
MAGL	Machaerantheraglabriuscula	Woody aster	Half-shrub	Perennial

TABLE I. Continued

Code	Genus--Species	Common Name	Life Form	Longevity
MATA	<i>Machaerantheratanacetifolia</i>	Aster	Forb	Annual
MIGR	<i>Microsteris gracilis</i>	Pink <i>Microsteris</i>	Forb	Annual
MONU	<i>Monolepis nuttalliana</i>	Nattall <i>Monolepis</i>	Forb	Annual
MUDI	<i>Musineon divaricatum</i>	Falsecarrot	Forb	Perennial
MUSQ	<i>Munroa squarrosa</i>	False buffalograss	Grass	Annual
OECA	<i>Oenothera caespitosa</i>	Tufted evening primrose	Forb	Perennial
OESC	<i>Oenothera scapoidea</i>	Evening primrose	Forb	Annual
OPPO	<i>Opuntia polyacantha</i>	Plains pricklypear	Forb	Perennial
ORHY	<i>Oryzopsis hymenoides</i>	Indian ricegrass	Grass	Perennial
PEN	<i>Penstemon</i> spp.	<i>Penstemon</i>	Forb	Perennial
PHHO	<i>Phlox hoodii</i>	Hood's phlox	Forb	Perennial
PHLO	<i>Phlox longifolia</i>	Long-leaf phlox	Forb	Perennial
PHMU	<i>Phlox multiflora</i>	Flowery phlox	Forb	Perennial
PLPA	<i>Plantago patagonica</i>	Woolly indianwheat	Forb	Annual
PLSP	<i>Plantago spinescens</i>	Spiny indianwheat	Forb	Annual
POAM	<i>Poa ampla</i>	Big bluegrass	Grass	Perennial
POAV	<i>Polygonum aviculare</i>	Prostrate knotweed	Forb	Annual
POFE	<i>Poa fendleriana</i>	Muttongrass	Grass	Perennial
POSE	<i>Poa secunda</i>	Sandberg bluegrass	Grass	Perennial
PSTE	<i>Psoralea tenuiflora</i>	Slimflower scurfpea	Forb	Annual
SAVE	<i>Sarcobatus vermiculatus</i>	Greasewood	Shrub	Perennial
SECA	<i>Senecio canus</i>	Woolly groundsel	Forb	Perennial
SELU	<i>Senecio lugens</i>	Old man	Forb	Annual
SEST	<i>Sedum stenopetalum</i>	Yellow stonecrop	Forb	Perennial
SIAL	<i>Sisymbrium altissimum</i>	Tumblemustard	Forb	Annual
SIHY	<i>Sitanion hystrix</i>	Squirreltail bottlebrush	Grass	Perennial
SPCO	<i>Sphaeralcea coccinea</i>	Scarlet globemallow	Forb	Perennial
SPAI	<i>Sporobolus airoides</i>	Alkali sacaton	Grass	Perennial
SPCR	<i>Sporobolus cryptandrus</i>	Sand dropseed	Grass	Perennial
STCO	<i>Stipa comata</i>	Needleandthread	Grass	Perennial
STWI	<i>Stipa Williamsi</i>	Williams needlegrass	Grass	Perennial
SYOC	<i>Symphoricarpos occidentalis</i>	Western snowberry	Shrub	Perennial
TAOF	<i>Taraxacum officinale</i>	Common dandelion	Forb	Perennial
TECA	<i>Tetradymia canescens</i>	Gray horsebrush	Shrub	Perennial
TESP	<i>Tetradymia spinosa</i>	Spiny horsebrush	Shrub	Perennial
TRI	<i>Trifolium</i> spp.	Clover	Forb	
VIAM	<i>Vicia americana</i>	American vetch	Forb	Perennial
VIO	Violaceae	Violet family	Forb	Perennial
VINU	<i>Viola nuttallii</i>	Nuttall violet	Forb	Perennial

TABLE II. An alphabetical listing of study areas, the county where each occurs, the treatments studied at each area, and table of contents.

County Name Code	Exclosure Name	County	Treatment	Page
2017	Big Trails G.R.I. Exc.	Washakie	Inside Spray	18
			Outside Native	19
1002	Boysen Reservoir Exc.	Fremont	Inside Native	20
			Outside Native	21
2007	Bud Kimball Exc.	Washakie	Inside Native	22
			Outside Native	23
			Inside Spray	24
			Outside Spray	25
2002	Buffalo Creek Exc.	Washakie	Inside Native	26
			Outside Native	27
2003	Burnt Wagon Exc.	Washakie	Inside Native	28
			Outside Native	29
1501	Cochran Exc.	Hot Springs	Inside Native	30
			Inside Pitted	31
			Inside Cultivated	32
			Outside Native	33
			Outside Spray	34
1901	Cumberland Exc. #1	Uinta	Inside Native	35
			Outside Native	36
			Inside Spray	37
			Outside Spray	38
1201	Cumberland Exc. #2	Lincoln	Inside Native	39
			Outside Native	40
			Inside Spray	41
1202	Cumberland Exc. #3	Lincoln	Outside Spray	42
			Inside Native	43
			Outside Native	44
			Inside Spray	45
1902	Cumberland Exc. #4	Uinta	Outside Spray	46
			Inside Native	47
2004	Demer Exc.	Washakie	Outside Native	48
			Inside Native	49
2005	Dutch Nick Exc.	Washakie	Outside Native	50
			Inside Native	51
0404	Farson Exc.	Sweetwater	Outside Native	52
			Inside Native	53
1007	Granite Mountain Exc.	Fremont	Outside Native	54
			Inside Native	55
			Inside Spray	57
			Outside Spray	58
0901	Halogeton Pasture Exc. #1	Big Horn	Inside Native	59
0905	Halogeton Pasture Exc. #2	Big Horn	Inside Native	60
0903	Halogeton Pasture Exc. #3	Big Horn	Inside Native	61
0904	Halogeton Pasture #1	Big Horn	Outside Native	62
0905	Halogeton Pasture #2	Big Horn	Outside Native	63
0907	Halogeton Pasture #4A	Big Horn	Outside Native	64

TABLE II. Continued

County Name Code	Exclosure Name	County	Treatment	Page
0908	Halogeton Pasture #4B	Big Horn	Outside Native	65
0909	Halogeton Pasture #5	Big Horn	Outside Native	66
0910	Halogeton Pasture #6	Big Horn	Outside Native	67
0911	Halogeton Pasture #7A	Big Horn	Outside Native	68
0912	Halogeton Pasture #7B	Big Horn	Outside Native	69
0913	Horse Creek Exc.	Big Horn	Inside Agsp	70
			Outside Agsp	71
			Inside Agsm	72
			Outside Agsm	73
0914	Kane Deer Exc.	Big Horn	Inside Native	74
			Outside Native	75
			Inside Spray	76
			Outside Spray	77
0921	Kane G.R.I. Exc.	Big Horn	Inside Native	78
			Outside Spray	79
1502	Kirby Creek Exc.	Hot Springs	Inside Native	80
			Outside Native	81
1001	Lander Ant Exc.	Fremont	Inside Native	82a
			Outside Native	82b
1003	Lower Gov't. Draw Exc.	Fremont	Inside Native	83
			Outside Native	84
			Inside Spray	85
			Outside Spray	86
1004	McGraw Flat Exc.	Fremont	Inside Native	87
			Outside Native	88
0920	Medicine Lodge G.R.I. Exc.	Big Horn	Inside Spray	89
			Outside Native	90
1503	North Butte Relic Area	Hot Springs	Native	91
1504	Round Top Relic Area	Hot Springs	Native	92
1505	Sand Gulch Exc.	Hot Springs	Inside Native	93
			Outside Native	94
1009	Shoshone Ant Exc. #2, North South	Fremont	Inside Native	95
			Inside Native	96
			Outside Native	97
1011	Shoshone Ant Exc. #4, North South	Fremont	Inside Native	98
			Inside Native	99
			Outside Native	100
1013	Shoshone Ant Exc. #7, North South	Fremont	Inside Native	101
			Inside Native	102
			Outside Native	103
1014	Shoshone Ant Exc. #8, North South	Fremont	Inside Native	104
			Inside Native	105
			Outside Native	106
1015	Shoshone Ant Exc. #9, North South	Fremont	Inside Native	107
			Inside Native	108
			Outside Native	109
1017	Shoshone Ant Exc. #11, North South	Fremont	Inside Native	110
			Inside Native	111
			Outside Native	112

TABLE II. Continued

County Name Code	Exclosure Name	County	Treatment	Page
2009	Smilo Exc.	Washakie	Inside Native	113
			Outside Native	114
			Inside Spray	115
			Outside Spray	116
1005	Sweetwater Exc.	Fremont	Inside Arno	117
			Outside Arno	118
			Inside Artr	119
			Outside Artr	120
2010	Two Mile Hill Exc.	Washakie	Inside Native	121
1006	Upper Gov't. Draw Exc.	Fremont	Outside Native	122
			Inside Native	123
			Outside Native	124
			Inside Spray	125
2006	West Pasture Exc.	Washakie	Outside Spray	126
			Inside Native	127
			Outside Native	128

TABLE III. Adjustments in production for utilization occurring prior to clipping.*

Exclosure	Treatment	Species	% Utilization	Adjusted Production (#/A.)
Bud Kimball	Out Native	AGSM	11.0	7.46
		POSE	4.0	<u>3.65</u>
				11.11
	Out Spray	AGSM	12.5	6.92
		POSE	10.0	<u>5.75</u>
				12.67
Cumberland #1	In Spray	AGSM	2.8	<u>12.59</u>
				12.59
	Out Spray	AGSM	3.5	<u>10.30</u>
				10.30
Cumberland #2	Out Native	AGSM	.5	.50
		POFE	1.0	.06
		STWI	4.5	<u>.24</u>
				.80
	Out Spray	AGSM	24.8	26.91
		POFE	1.0	.08
		POSE	.5	.07
		STWI	6.2	.31
		Per Forbs	7.5	<u>1.84</u>
				29.21
Cumberland #3	Out Native	AGSM	5.8	5.08
		AGSP	2.0	.30
		CHVI	15.0	3.02
		POFE	3.2	.35
		POSE	5.0	.24
		STCO	12.2	<u>1.70</u>
				10.69
	Out Spray	AGSM	9.2	12.12
		AGSP	2.5	3.60
		POFE	23.0	2.59
		POSE	4.5	<u>.57</u>
			18.88	
Farson	Out Native	AGSM	.5	<u>.29</u>
				.29
Granite Mt.	Out Native	AGSM	.5	.62
		POFE	13.2	11.52
		Per Forbs	1.2	<u>.19</u>
				12.33

TABLE III. Continued.

Exclosure	Treatment	Species	% Utilization	Adjusted Production (#/A.)
Granite Mt. (Continued)	Out Spray	AGSM	5.2	11.91
		POFE	12.8	12.26
		POSE	.5	.20
		Per Forbs	3.0	.64
				<u>25.01</u>
Horse Creek	Out AGSP	AGSM	3.5	1.61
		AGSP	26.0	22.68
				<u>24.29</u>
	Out AGSM	AGSM	11.5	12.
	Out AGSM	AGSM	11.5	12.31
		AGSP	4.8	1.98
			<u>14.29</u>	
Lower Gov't. Draw	Out Native	AGSM	.5	.08
		KOCR	1.2	.06
		POSE	3.8	2.77
		STCO	16.0	3.19
		Per Forbs	2.5	.10
				<u>6.20</u>
	Out Spray	AGSM	21.8	10.17
		POSE	12.2	4.56
		STCO	22.8	2.51
		Ann. Grass	.8	.18
			<u>17.42</u>	
McGraw Flat	Out Native	POFE	2.5	<u>2.98</u>
Upper Gov't Draw	Out Native	AGSM	2.2	1.66
		KOCR	2.5	.84
		POSE	8.0	5.01
				<u>7.51</u>
	Out Spray	AGSM	10.3	9.42
		KOCR	.5	.04
POSE		6.8	4.78	
STCO		19.5	1.82	
			<u>16.06</u>	
West Pasture	Out Native	ORHY	.3	.11
		SPCR	1.5	.52
				<u>.63</u>

*Study areas not mentioned showed no sign of utilization.

TABLE IV. Comparison of average (years 1962-1972) precipitation and clipped production with 1972 precipitation and gerb production at exclosures begun in 1962.

	Precipitation		Clipped Production (#/A)							
	(in.)		In Native		Out Native		In Spray		Out Spray	
	Avg.*	'72	Avg.	'72	Avg.	'72	Avg.	'72	Avg.	'72
Bud Kimball Exc. ¹	9.20	8.37	231	163	274	226	529	439	460	404
Lower Govt. Draw Exc. ¹	10.54	9.61	329	407	267	188	659	713	194	140
Smilo Exc. ¹	8.31	9.42	138	102	86	195	343	655	394	534
Upper Govt. Draw Exc. ¹	8.30	7.09	229	305	229	183	430	548	271	202
Cochran Exc. ¹	10.03	7.33	240	239	229	297	-	-	-	-
Demer Exc. ¹ 1	8.16	6.50	159	197	89	148	-	-	-	-
Farson Exc. ¹			111	231	83	95	-	-	-	-
Horse Creek AGSP Exc. ¹	11.49	10.45	448	378	189	190	-	-	-	-
Horse Creek AGSM Exc. ¹	11.49	10.45	465	349	178	177	-	-	-	-
Lander Ant Exc. ¹	8.91	9.66	241	254	231	310	-	-	-	-
McGraw Flats Exc. ¹	9.66	8.67	238	437	190	302	-	-	-	-
North Butte (Relic) ¹	8.51	8.51	583	527	-	-	-	-	-	-
Sweetwater ¹ (ARTR)	8.03	8.24	261	300	196	238	-	-	-	-
Burnt Wagon Exc. ²	6.17	6.48	261	298	247	349	-	-	-	-
Sand Gulch Exc. ²	8.95	7.16	648	703	594	879	-	-	-	-
Two Mile Hill ²	9.36	11.30	500	676	468	472	-	-	-	-
West Pasture Exc. ²	5.65	3.96	425	480	226	518	-	-	-	-
Boysen Exc. ³	4.87	5.24	208	232	186	203	-	-	-	-
Dutch Nick Exc. ³	7.00	7.68	314	381	274	520	-	-	-	-
Buffalo Creek Exc. ⁴	10.47	11.07	490	489	368	428	-	-	-	-
Kirby Creek Exc. ⁵	8.93	8.06	531	671	475	818	-	-	-	-

*AVG. - average for years 1962-1972

1 - Sagebrush-grass types

2 - Saltsage types

3 - Blue grama type

4 - Wheatgrass type

5 - Greasewood type

2017 BIG TRAILS G.R.I. AUGUST 11/72 INSIDE SPRAY

NUMBER PLOTS = 20									
PLOT SIZE 1X1									
PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-BASAL AREA	PERCENT COMPOSITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RENCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
	PER GRASS	3.20	0.16		2	5.66	2.83	1.77	27.18
3	POSE	0.20	1.00E-02	.125	2	0.60	0.30	3.00	2.8810
3	STCO	3.00	.150	1.87	1	5.06	5.06	1.69	24.297
	ANN GRASS	97.10	4.85		18	88.76	4.93	0.91	426.20
5	BRTE	97.10	4.85	60.6	18				
	ANN FORBS	59.90	2.99		13	19.09	1.47	0.32	91.66
4	POAV	59.80	2.99	37.3	13				
4	SIAL	0.10	T	6.24E-02	1				
	TOTAL		8.01	100.00		113.51			545.04

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

No shrub data collected

PRECIPITATION DATA

RAIN GUAGE NO. 150	BIG	TRAILS G.R.I. AUGUST 11/72
OCT. 15 TO APR. 15	=	2.50
APR. 15 TO JULY 1	=	5.96
JULY 1 TO SEPT. 1	=	2.15
SEPT. 1 TO OCT. 15	=	1.08
SEASON TOTAL	=	11.69
LONG TERM AVERAGE	=	13.33

**no utilization

2017 BIG TRAILS G.R.I. AUGUST 11/72 OUT NATIVE

NUMBER PLOTS = 20
PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER- CENT	AVE. PER- CENT BASAL AREA	PERCENT COMPO- SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR- RENCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*ARTR	48.00	2.40		3				
6	*JUOS	155.00	7.75		4				
	PER GRASS	2.40	0.12		5	2.28	0.46	0.95	10.95
3	KOCR	0.50	2.50E-02	.480	1	0.70	0.70	1.40	3.3612
3	POSE	1.80	9.00E-02	1.73	5	0.74	0.15	0.41	3.5533
3	STCO	0.10	T	9.61E-02	1	0.84	0.84	8.40	4.0334
	ANN GRASS	100.90	5.04		20	88.38	4.42	0.88	424.37
5	BRTE	100.70	5.03	96.7	20				
5	FEOC	0.20	1.00E-02	.192	2				
	ANN FORBS	0.80	0.04		5	0.84	0.17	1.05	4.03
4	MIGR	0.20	1.00E-02	.192	2				
4	POAV	0.50	2.50E-02	.480	5				
4	SIAL	0.10	T	9.61E-02	1				
	TOTAL		15.35	100.00		91.500			439.35

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

No Shrub Data Collected

PRECIPITATION DATA

RAIN GUAGE NO. 150	BIG	TRAILS G.R.I. AUGUST 11/72
OCT. 15 TO APR. 15 =	2.50	
APR. 15 TO JULY 1 =	5.96	
JULY 1 TO SEPT. 1 =	2.15	
SEPT. 1 TO OCT. 15 =	1.08	
SEASON TOTAL =	11.69	
LONG TERM AVERAGE =	13.33	

**no utilization

1002 BOYSEN RESERV EXCL JULY 27/72 INSIDE NATIVE

NUMBER PLOTS = 20									
PLOT SIZE 1X1									
PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR- RENCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*OPPO	2.10	.105		2				
	PER GRASS	77.60	3.88		19	43.28	2.28	0.56	207.82
3	BOGR	77.60	3.88	97.4	19	43.28	2.28	0.56	207.82
	PER FORBS	2.00	0.10		6	5.02	0.84	2.51	24.10
2	AST	1.00	5.00E-02	1.25	2				
2	SPCO	1.00	5.00E-02	1.25	6				
	ANN FORBS	0.10	T		1	0.01	0.01	0.10	0.05
4	HAGL	0.10	T	.125	1				
	TOTAL		4.09	100.00		48.310			231.97

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ATCO	10.46
OPPO	12.29
Shrub Prod.	<u>22.75</u>
Total	254.72

PRECIPITATION DATA

RAIN GUAGE NO. 10	BOYSEN RESERV EXCL	JULY	27/72
OCT. 15 TO APR. 15	=	2.56	
APR. 15 TO JULY 1	=	1.48	
JULY 1 TO SEPT. 1	=	.85	
SEPT. 1 TO OCT. 15	=	.35	
SEASON TOTAL	=	5.24	
LONG TERM AVERAGE	=	4.87	

**no utilization

1002 BOYSEN RESERV EXCL JULY 27/72 OUT NATIVE

NUMBER PLOTS = 20

PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RENCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*OPPO	9.00	.450		3				
	PER GRASS	66.80	3.34		17	34.81	2.05	0.52	167.15
3	BOGR	66.80	3.34	96.7	17	34.81	2.05	0.52	167.15
	PER FORBS	1.70	0.08		5	3.63	0.73	2.14	17.43
2	AST	0.70	3.50E-02	1.01	3				
2	MACA	0.50	2.50E-02	.724	1				
2	SPCO	0.50	2.50E-02	.724	5				
	ANN FORBS	0.60	0.03		4	3.88	0.97	6.47	18.63
4	HAGL	0.40	2.00E-02	.579	4				
4	LARE	0.20	1.00E-02	.289	2				
	TOTAL		3.90	100.00		42.320			203.21

* NOT COMPUTED IN PERCENT. COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ATCO	.67
OPPO	5.81
Shrub Prod.	<u>6.48</u>
Total	209.69

PRECIPITATION DATA

RAIN GUAGE NO. 10	BOYSEN RESERV EXCL	JULY	27/72
OCT. 15 TO APR. 15	=	2.56	
APR. 15 TO JULY 1	=	1.48	
JULY 1 TO SEPT. 1	=	.85	
SEPT. 1 TO OCT. 15	=	.35	
SEASON TOTAL	=	5.24	
LONG TERM AVERAGE	=	4.87	

**no utilization

		2007	BUD	KIMBAL	EXCL	JULY	21/72	IN	NATIVE		
		NUMBER PLOTS = 20									
PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-BASAL AREA	PERCENT COMPOSITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RENCES	WGT./ UNIT BASAL AREA	LBS** PER AC.		
6	*ARTR	148.50	7.42		13						
6	*OPPO	7.00	.350		2						
6	*PHHO	1.70	8.50E-02		4						
	PER GRASS	17.40	0.87		20	30.90	1.54	1.78	148.37		
3	AGSM	5.70	.285	27.9	19	13.99	0.74	2.45	67.176		
3	POSE	10.70	.535	52.5	12	11.79	0.98	1.10	56.612		
3	SIHY	1.00	5.00E-02	4.90	1	5.12	5.12	5.12	24.585		
	ANN GRASS	0.10	T		1	0.03	0.03	0.30	0.14		
5	BRTE	0.10	T	.490	1						
	ANN FORBS	2.90	0.14		18	3.00	0.17	1.03	14.41		
4	DEPI	1.80	9.00E-02	8.82	18						
4	LARE	0.20	1.00E-02	.980	2						
4	LEDE	0.40	2.00E-02	1.96	4						
4	PLSP	0.50	2.50E-02	2.45	5						
	TOTAL		8.88	100.00		33.930			162.92		

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	243.65
OPPO	21.02
PHHO	3.74
Shrub Prod.	<u>268.41</u>

PRECIPITATION DATA

RAIN GUAGE NO. 41	BUD	KIMBAL	EXCL	JULY	21/72
OCT. 15 TO APR. 15	=	2.85			
APR. 15 TO JULY 1	=	2.77			
JULY 1 TO SEPT. 1	=	2.10			
SEPT. 1 TO OCT. 15	=	.65			
SEASON TOTAL	=	8.37			
LONG TERM AVERAGE	=	9.20			

**no utilization

2007 BUD KIMBAL EXCL JULY 21/72 OUT NATIVE

NUMBER PLOTS = 20
PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPOSITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RENCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*ARTR	71.10	3.55		8				
6	*OPPO	19.00	.950		2				
6	*PHHO	5.00	.250		2				
	PER GRASS	29.40	1.47		18	33.11	1.84	1.13	158.98
3	AGSM	6.10	.305	17.1	18	14.12	0.78	2.31	67.800
3	POSE	23.30	1.16	65.3	18	18.99	1.05	0.82	91.184
	PER FORBS	0.10	T		1	0.10	0.10	1.00	0.48
2	CANU	0.10	T	.280	1				
	ANN GRASS	0.40	0.02		4	0.29	0.07	0.72	1.39
5	FEOC	0.40	2.00E-02	1.12	4				
	ANN FORBS	5.80	0.29		16	11.28	0.70	1.94	54.16
4	DEPI	1.60	8.00E-02	4.48	16				
4	GIL	0.60	3.00E-02	1.68	6				
4	LARE	1.10	5.50E-02	3.08	11				
4	LEDE	0.90	4.50E-02	2.52	9				
4	PLSP	1.60	8.00E-02	4.48	16				
	TOTAL		6.54	100.00		44.780			215.02

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	108.58
OPPO	10.22
PHHO	1.01
Shrub Prod.	<u>119.81</u>
Total	<u>334.83</u>

PRECIPITATION DATA

RAIN GUAGE NO.	41	BUD	KIMBAL EXCL	JULY	21/72
OCT. 15 TO APR. 15	=	2.85			
APR. 15 TO JULY 1	=	2.77			
JULY 1 TO SEPT. 1	=	2.10			
SEPT. 1 TO OCT. 15	=	.65			
SEASON TOTAL	=	8.37			
LONG TERM AVERAGE	=	9.20			

**Production adjusted for utilization

utilization	11.11
Total adjusted	<u>345.94</u>

2007 BUD KIMBAL EXCL JULY 21/72 INSIDE SPRAY

NUMBER PLOTS = 20

PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-BASAL AREA	PERCENT COMPOSITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCURRENCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
	PER GRASS	22.00	1.10		20	45.45	2.27	2.07	218.24
3	AGSM	11.10	.555	31.6	20	36.40	1.82	3.28	174.78
3	POSE	10.90	.545	31.1	15	9.05	0.60	0.83	43.455
	ANN GRASS	3.50	0.17		15	25.95	1.73	7.41	124.60
5	BRTE	1.20	6.00E-02	3.42	8				
5	FEOC	2.30	.115	6.55	15				
	ANN FORBS	9.60	0.48		20	20.18	1.01	2.10	96.90
4	DEPI	3.20	.160	9.12	20				
4	GIL	0.80	4.00E-02	2.28	4				
4	LARE	2.30	.115	6.55	19				
4	LEDE	1.30	6.50E-02	3.70	13				
4	PLSP	2.00	.100	5.70	12				
	TOTAL		1.75	100.00		91.580			439.74

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	7.58
OPPO	14.35
PHHO	2.50
Shrub Prod.	<u>24.43</u>
Total	464.17

PRECIPITATION DATA

RAIN GUAGE NO. 41	BUD	KIMBAL EXCL	JULY	21/72
OCT. 15 TO APR. 15	=	2.85		
APR. 15 TO JULY 1	=	2.77		
JULY 1 TO SEPT. 1	=	2.10		
SEPT. 1 TO OCT. 15	=	.65		
SEASON TOTAL	=	8.37		
LONG TERM AVERAGE	=	9.20		

**no utilization

2007 BUD KIMBAL EXCL JULY 21/72 OUT SPRAY

NUMBER PLOTS = 20

PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RENCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*ARTR	2.00	.100		1				
6	*OPPO	3.00	.150		1				
	PER GRASS	23.60	1.18		19	23.50	1.24	1.00	112.84
3	AGSM	4.30	.215	11.7	19	11.53	0.61	2.68	55.364
3	POSE	19.30	.965	52.6	19	11.97	0.63	0.62	57.476
	ANN GRASS	2.10	0.10		20	15.24	0.76	7.26	73.18
5	BRTE	0.10	T	.272	1				
5	FEOC	2.00	.100	5.45	20				
	ANN FORBS	11.00	0.55		20	42.81	2.14	3.89	205.56
4	DEPI	1.30	6.50E-02	3.54	13				
4	GIL	1.10	5.50E-02	3.00	11				
4	LARE	1.00	5.00E-02	2.72	10				
4	LEDE	0.30	1.50E-02	.817	3				
4	PLSP	7.30	.365	19.9	20				
	TOTAL		2.08	100.00		81.550			391.58

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	29.04
OPPO	2.74
Shrub Prod.	<u>31.78</u>
Total	423.36

PRECIPITATION DATA

RAIN GUAGE NO. 41	BUD	KIMBAL EXCL	JULY	21/72
OCT. 15 TO APR. 15	=	2.85		
APR. 15 TO JULY 1	=	2.77		
JULY 1 TO SEPT. 1	=	2.10		
SEPT. 1 TO OCT. 15	=	.65		
SEASON TOTAL	=	8.37		
LONG TERM AVERAGE	=	9.20		

**Production adjusted for utilization

utilization 12.67
Production Adjusted 436.03

2002 BUFFAL CREEK EXCL JULY 21/72 INSIDE NATIVE

NUMBER PLOTS = 20
PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-BASAL AREA	PERCENT COMPOSITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RENCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*ARTR	49.30	2.46		8				
6	*PHHO	11.20	.560		9				
	PER GRASS	98.60	4.93		20	93.01	4.65	0.94	446.61
3	AGSM	1.30	6.50E-02	1.24	9	8.37	0.93	6.44	40.190
3	AGSP	64.20	3.21	61.4	14	68.61	4.90	1.07	329.44
3	BOGR	15.10	.755	14.4	5	5.24	1.05	0.35	25.161
3	POSE	18.00	.900	17.2	19	10.79	0.57	0.60	51.810
	PER FORBS	0.80	0.04		4	3.55	0.89	4.44	17.05
2	CAS	0.50	2.50E-02	.478	1				
2	SPCO	0.30	1.50E-02	.287	3				
	ANN GRASS	1.50	0.07		6	4.18	0.70	2.79	20.07
5	BRJA	0.10	T	9.56E-02	1				
5	BRTE	1.40	7.00E-02	1.34	6				
	ANN FORBS	3.70	0.18		16	1.03	0.06	0.28	4.95
4	DEPI	1.10	5.50E-02	1.05	11				
4	LEDE	1.90	9.50E-02	1.82	10				
4	MIGR	0.20	1.00E-02	.191	2				
4	PLSP	0.50	2.50E-02	.478	5				
	TOTAL		8.25	100.00		101.77			488.67

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	322.94
OPPO	28.37
PHHO	5.86
Schrub Prod.	<u>357.17</u>
Total	845.84

PRECIPITATION DATA

RAIN GUAGE NO.	7	BUFFAL CREEK EXCL	JULY 21/72
OCT. 15 TO APR. 15	=	3.30	
APR. 15 TO JULY 1	=	5.23	
JULY 1 TO SEPT. 1	=	1.84	
SEPT. 1 TO OCT. 15	=	.70	
SEASON TOTAL	=	11.07	
LONG TERM AVERAGE	=	10.47	

**no utilization

2002 BUFFAL CREEK EXCL JULY 21/72 OUT NATIVE

NUMBER PLOTS = 20
PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RENCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*ARTR	155.20	7.76		9				
6	*OPPO	0.50	2.50E-02		1				
6	*PHHO	1.60	8.00E-02		3				
	PER GRASS	101.20	5.06		20	87.29	4.36	0.86	419.14
3	AGSM	2.40	.120	2.32	16	13.03	0.81	5.43	62.566
3	AGSP	24.00	1.20	23.2	10	38.40	3.84	1.60	184.39
3	BUGR	58.10	2.90	56.1	9	20.45	2.27	0.35	98.195
3	POSE	16.70	.835	16.1	20	15.41	0.77	0.92	73.994
	PER FORBS	0.20	0.01		1	0.18	0.18	0.90	0.86
2	ALTE	0.10	T	9.66E-02	1				
2	VIAM	0.10	T	9.66E-02	1				
	ANN GRASS	0.90	0.04		9	1.12	0.12	1.24	5.38
5	BRTE	0.90	4.50E-02	.870	9				
	ANN FORBS	1.20	0.06		6	0.58	0.10	0.48	2.78
4	DEPI	0.30	1.50E-02	.290	3				
4	LEDE	0.30	1.50E-02	.290	3				
4	PLSP	0.60	3.00E-02	.580	6				
	TOTAL		13.04	100.00		89.170			428.17

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ArTR	166.75
EULA	.91
OPPO	14.50
PHHO	6.24
Shrub Total	<u>188.40</u>
Total	<u>616.57</u>

PRECIPITATION DATA

RAIN GUAGE NO.	7	BUFFAL CREEK EXCL	JULY 21/72
OCT. 15 TO APR. 15	=	3.30	
APR. 15 TO JULY 1	=	5.23	
JULY 1 TO SEPT. 1	=	1.84	
SEPT. 1 TO OCT. 15	=	.70	
SEASON TOTAL	=	11.07	
LONG TERM AVERAGE	=	10.87	

**no utilization

2003 BURNT WAGON EXCL. JULY 11/72 IN NATIVE

NUMBER OF PLOTS
COVER = 200, PRODUCTION = 20
PLOT SIZE 1 FT. X 10 FT.

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVF. PER-CENT BASAL AREA	PERCENT COMPOSITION	ABS. PLOT FREQ. BASE 200	TOTAL WGT. GMS/ 200 SQ.FT.	AVE. WGT. /PLOT OCCUR- RENCES	WGT./ UNIT BASAL AREA	LBS ** PER AC.
1	ATNU	1562.0	7.81	97.5	78	548.64	7.03	0.35	263.44
	PER GRASS	1.2	6.00E-03		3	0.74	0.25	0.62	.35533
3	SIHY	1.2	T	7.49E-02	3	0.74	0.25	0.62	.35533
	PER FORBS	38.70	0.19		80	70.94	0.89	1.83	34.06
2	ALTE	1.7	T	.106	17				
2	MUDI	37.0	.185	2.31	80				
	ANN FORBS	0.60	T		6	0.99	0.16	1.65	0.48
4	EUSE	0.6	T	3.74E-02	6				
	TOTAL		8.0	100.00		621.310			298.334

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

No Shrub production observed

PRECIPITATION DATA

RAIN GAUGE NO.		BURNT WAGON EXCL.	JULY 11/72
17			
OCT. 15 TO APR. 15	=	2.25	
APR. 15 TO JULY 1	=	1.45	
JULY 1 TO SEPT. 1	=	2.31	
SEPT. 1 TO OCT. 15	=	.47	
SEASON TOTAL	=	6.48	
LONG TERM AVERAGE	=	6.17	

**no utilization

2003 BURNT WAGON EXCL JULY 11/72 OUT NATIVE

NUMBER OF PLOTS
COVER = 200, PRODUCTION = 20
PLOT SIZE 1 FT. X 10 FT.

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 200	TOTAL WGT. GMS/ 200 SQ.FT.	AVE. WGT. /PLOT OCCUR- RENCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
1	ATNU	1031.8	5.16	96.7	97	591.80	6.10	0.57	284.16
	PER FORBS	35.00	0.17		114	134.51	1.18	3.84	64.59
2	ALTE	2.5	1.25E-02	.234	25				
2	MUDI	32.5	.162	3.05	114				
	ANN FORBS	0.10	T		1	1.48	1.48	14.80	0.71
4	EUSE	0.1	T	T	1				
	TOTAL		5.3	100.00		727.790			349.462

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

OPPO									3.07
							Shrub Total		3.07
							Total		352.53

PRECIPITATION DATA

RAIN GAUGE NO. 17	BURNT WAGON EXCL	JULY 11/72
OCT. 15 TO APR. 15	=	2.25
APR. 15 TO JULY 1	=	1.45
JULY 1 TO SEPT. 1	=	2.31
SEPT. 1 TO OCT. 15	=	.47
SEASON TOTAL	=	6.48
LONG TERM AVERAGE	=	6.17

**no utilization

1501 COCHRA EXCL JULY 25/72 INSIDE NATIVE

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPOSITION	PLOT SIZE 1X1 ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT CCCUR- RENCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*ARTR	172.00	8.60		9				
6	*OPPO	0.10	T		1				
6	*PHHO	0.20	1.00E-02		2				
	PER GRASS	13.80	0.69		20	41.43	2.07	3.00	198.93
3	AGSM	1.90	9.50E-02	9.90	19	13.07	0.69	6.88	62.758
3	POSE	11.90	.595	62.0	18	28.36	1.58	2.38	136.18
	ANN GRASS	2.70	0.13		19	7.18	0.38	2.66	34.48
5	BRTE	2.30	.115	12.0	19				
5	FEOC	0.40	2.00E-02	2.08	4				
	ANN FORBS	2.70	0.13		18	1.23	0.07	0.46	5.91
4	DEPI	1.50	7.50E-02	7.81	15				
4	LARE	0.30	1.50E-02	1.56	3				
4	LEDE	0.20	1.00E-02	1.04	2				
4	MIGR	0.40	2.00E-02	2.08	4				
4	PLSP	0.30	1.50E-02	1.56	3				
	TOTAL		9.57	100.00		49.840			239.32

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	205.20
OPPO	3.84
PHHO	3.74
Shrub Total	<u>212.78</u>
Total	<u>452.10</u>

PRECIPITATION DATA

RAIN GUAGE NO.	76 COCHRA EXCL	JULY 25/72
OCT. 15 TO APR. 15	=	2.86
APR. 15 TO JULY 1	=	2.68
JULY 1 TO SEPT. 1	=	1.03
SEPT. 1 TO OCT. 15	=	.76
SEASON TOTAL	=	7.33
LONG TERM AVERAGE	=	10.03

**no utilization

1501 COCHRA EXCL

JULY 25/72 INSIDE PITTED

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-BASAL AREA	NUMBER PLOTS = 20		TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RENCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
				PERCENT COMPO-SITION	PLOT SIZE 1X1 ABS. PLOT FREQ. BASE 20				
6	*ARTR	95.00	4.75						
	PER GRASS	28.10	1.40		4	50.92	2.55	1.81	244.50
3	AGSM	3.20	.160	8.89	20	18.53	0.93	5.79	88.975
3	POSE	24.90	1.24	69.2	.17	32.39	1.91	1.30	155.53
	PER FORBS	0.10	0.00		1	0.22	0.22	2.20	1.06
2	SPCO	0.10	T	.278	1				
	ANN GRASS	4.30	0.21		19	13.41	0.71	3.12	64.39
5	BRTE	3.10	.155	8.61	19				
5	FEOC	1.20	6.00E-02	3.33	12				
	ANN FORBS	3.50	0.17		16	2.38	0.15	0.68	11.43
4	ATAR	0.10	T	.278	1				
4	DEPI	1.60	8.00E-02	4.44	16				
4	LARE	0.40	2.00E-02	1.11	4				
4	LEDE	0.50	2.50E-02	1.39	5				
4	MIGR	0.40	2.00E-02	1.11	4				
4	PLSP	0.50	2.50E-02	1.39	5				
	TOTAL		6.55	100.00		66.930			321.38

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	205.20
OPPO	3.84
PHHO	3.74
Shrub Total	<u>212.78</u>
Total	<u>452.10</u>

PRECIPITATION DATA

RAIN GUAGE NO.	76	COCHRA EXCL	JULY 25/72
OCT. 15 TO APR. 15	=	2.86	
APR. 15 TO JULY 1	=	2.68	
JULY 1 TO SEPT. 1	=	1.03	
SEPT. 1 TO OCT. 15	=	.76	
SEASON TOTAL	=	7.33	
LONG TERM AVERAGE	=	10.03	

**no utilization

1501 COCHRA EXCL JULY 25/72 INSIDE CULTIV

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPOSITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR- RENCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*ARTR	137.10	6.85		10				
6	*OPPO	5.00	.250		1				
6	*PHHO	0.10	T		1				
	PER GRASS	20.90	1.04		19	49.24	2.59	2.36	236.44
3	AGSM	2.30	.115	8.71	19	14.30	0.75	6.22	68.664
3	POSE	18.60	.930	70.5	19	34.94	1.84	1.88	167.77
	ANN GRASS	3.00	0.15		12	7.30	0.61	2.43	35.05
5	BRTE	2.50	.125	9.47	12				
5	FEOC	0.50	2.50E-02	1.89	5				
	ANN FORBS	2.50	0.12		14	2.22	0.16	0.89	10.66
4	DEPI	1.40	7.00E-02	5.30	14				
4	LARE	0.40	2.00E-02	1.52	4				
4	LEDE	0.40	2.00E-02	1.52	4				
4	MIGR	0.20	1.00E-02	.758	2				
4	PLSP	0.10	T	.379	1				
	TOTAL		8.43	100.00		58.760			282.15

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	205.20
OPPO	3.84
PHHO	3.74
Shrub Total	<u>212.78</u>
Total	<u>452.10</u>

PRECIPITATION DATA

RAIN GUAGE NO. 76	COCHRA EXCL	JULY 25/72
OCT. 15 TO APR. 15	=	2.86
APR. 15 TO JULY 1	=	2.68
JULY 1 TO SEPT. 1	=	1.03
SEPT. 1 TO OCT. 15	=	.76
SEASON TOTAL	=	7.33
LONG TERM AVERAGE	=	10.03

**no utilization

1501 COCHRA EXCL JULY 25/72 OUT NATIVE

NUMBER PLOTS = 20

PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RENCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*ARTR	101.00	5.05		6				
6	*PHHO	1.60	8.00E-02		3				
	PER GRASS	18.00	0.90		20	56.89	2.84	3.16	273.17
3	AGSM	2.30	.115	10.3	19	26.34	1.39	11.45	126.48
3	POSE	13.70	.685	61.4	20	24.11	1.21	1.76	115.77
3	STCO	2.00	.100	8.97	1	6.44	6.44	3.22	30.923
	ANN GRASS	1.70	0.08		15	2.72	0.18	1.60	13.06
5	BRTE	1.50	7.50E-02	6.73	15				
5	FEOC	0.20	1.00E-02	.897	2				
	ANN FORBS	2.60	0.13		9	2.18	0.24	0.84	10.47
4	DEPI	0.70	3.50E-02	3.14	7				
4	LARE	0.90	4.50E-02	4.04	9				
4	LEDE	0.60	3.00E-02	2.69	6				
4	PLSP	0.40	2.00E-02	1.79	4				
	TOTAL		6.24	100.00		61.790			296.70

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	106.51
OPPO	9.60
PHHO	3.41
Shrub Total	<u>119.52</u>
Total	<u>416.22</u>

PRECIPITATION DATA

RAIN GUAGE NO.	76	COCHRA EXCL	JULY	25/72
OCT. 15 TO APR. 15	=	2.86		
APR. 15 TO JULY 1	=	2.68		
JULY 1 TO SEPT. 1	=	1.03		
SEPT. 1 TO OCT. 15	=	.76		
SEASON TOTAL	=	7.33		
LONG TERM AVERAGE	=	10.03		

**no utilization

1501 COCHRA EXCL JULY 25/72 OUT SPRAY

NUMBER PLOTS = 20

PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT CCCUR-RENCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*ARTR	28.00	1.40		3				
6	*OPPO	4.00	.200		2				
6	*PHHO	0.60	3.00E-02		2				
	PER GRASS	22.10	1.10		20	88.33	4.42	4.00	424.13
3	AGSM	3.20	.160	12.5	20	43.35	2.17	13.55	208.15
3	AGSP	1.30	6.50E-02	5.10	4	4.08	1.02	3.14	19.591
3	POSE	17.00	.850	66.7	19	38.88	2.05	2.29	186.69
3	STCO	0.60	3.00E-02	2.35	2	2.02	1.01	3.37	9.6994
	ANN GRASS	2.50	0.12		12	4.24	0.35	1.70	20.36
5	BRTE	1.60	8.00E-02	6.27	12				
5	FEOC	0.90	4.50E-02	3.53	9				
	ANN FORBS	0.90	0.04		4	0.67	0.17	0.74	3.22
4	LARE	0.20	1.00E-02	.784	2				
4	LEDE	0.40	2.00E-02	1.57	4				
4	PLSP	0.30	1.50E-02	1.18	3				
	TOTAL		2.90	100.00		93.240			447.71

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

OPPO

	3.84
Shrub Total	<u>3.84</u>
Total	<u>451.55</u>

PRECIPITATION DATA

RAIN GUAGE NO. 76	COCHRA EXCL	JULY 25/72
OCT. 15 TO APR. 15	= 2.86	
APR. 15 TO JULY 1	= 2.68	
JULY 1 TO SEPT. 1	= 1.03	
SEPT. 1 TO OCT. 15	= .76	
SEASON TOTAL	= 7.33	
LONG TERM AVERAGE	= 10.03	

**no utilization

1901 CUMBER EXCL NO. 1 AUGUST 14/72 INSIDE NATIVE

NUMBER PLOTS = 20

PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR- RENCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*ARTR	28.00	1.40		3				
6	*ATNU	51.50	2.57		7				
6	*CHVI	6.00	.300		3				
6	*PHHO	1.00	5.00E-02		2				
6	*SAVE	219.00	10.9		6				
	PER GRASS	15.40	0.77		13	40.29	3.10	2.62	193.46
3	AGSM	7.70	.385	41.4	13	27.85	2.14	3.62	133.73
3	POSE	4.10	.205	22.0	11	5.33	0.48	1.30	25.593
3	SIHY	3.60	.180	19.4	5	7.11	1.42	1.97	34.140
	PER FURBS	2.80	0.14		11	2.33	0.21	0.83	11.19
2	PHLO	2.80	.140	15.1	11				
	ANN FORBS	0.40	0.02		2	0.08	0.04	0.20	0.38
4	DEPI	0.20	1.00E-02	1.08	2				
4	LARE	0.10	T	.538	1				
4	POAV	0.10	T	.538	1				
	TOTAL		16.20	100.00		42.700			205.03

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	133.01
ATCO	3.26
ATNU	64.75
CHVI	37.15
EULA	.24
PHHO	9.65
SAVE	112.90
TESP	5.95
Shrub Total	<u>366.91</u>
Total	<u>571.94</u>

PRECIPITATION DATA

RAIN GAUGE NO.	31	CUMBER EXCL	NO. 1	AUGUST 14/72
OCT. 15 TO APR. 15	=	.72		
APR. 15 TO JULY 1	=	.72		
JULY 1 TO SEPT. 1	=	.68		
SEPT. 1 TO OCT. 15	=	1.10		
SEASON TOTAL	=	3.22		
LONG TERM AVERAGE	=	7.80		

**no utilization

1901 CUMBER EXCL NO. 1 AUGUST 14/72 OUT NATIVE

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RENCES	WGT./ UNIT BASAL AREA	LBS**
									PER AC.
6	*ARTR	20.00	1.00		1				
6	*ATNU	20.00	1.00		5				
6	*CHVI	2.10	.105		2				
6	*SAVE	10.00	.500		4				
6	*TESP	1.10	5.50E-02		2				
	PER GRASS	22.80	1.14		17	37.79	2.22	1.66	181.46
3	AGSM	16.30	.815	65.5	17	35.40	2.08	2.17	169.98
3	ORHY	0.10	T	.402	1	0.22	0.22	2.20	1.0564
3	POSE	5.30	.265	21.3	6	1.60	0.27	0.30	7.6827
3	SIHY	1.10	5.50E-02	4.42	3	0.57	0.19	0.52	2.7370
	PER FORBS	1.30	0.06		13	1.79	0.14	1.38	8.60
2	PHLO	1.30	6.50E-02	5.22	13				
	ANN FORBS	0.80	0.04		6	0.61	0.10	0.76	2.93
4	DEPI	0.10	T	.402	1				
4	LARE	0.60	3.00E-02	2.41	6				
4	TRI	0.10	T	.402	1				
	TOTAL		3.90	100.00		40.190			192.98

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	142.56
ATNU	160.42
CHVI	46.08
PHHO	2.54
SAVE	34.70
TESP	14.30
Shrub Total	<u>400.60</u>
Total	593.58

PRECIPITATION DATA

RAIN GUAGE NO. 31	CUMBER EXCL	NO. 1	AUGUST 14/72
OCT. 15 TO APR. 15	=	.72	
APR. 15 TO JULY 1	=	.72	
JULY 1 TO SEPT. 1	=	.68	
SEPT. 1 TO OCT. 15	=	1.10	
SEASON TOTAL	=	3.22	
LONG TERM AVERAGE	=	7.80	

**no utilization

1901 CUMBER NO. 1 EXCL AUGUST 14/72 INSIDE SPRAY

NUMBER PLOTS = 20

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPOSITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR- RNCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*CHVI	66.00	3.30		4				
	PER GRASS	47.30	2.36		19	103.44	5.44	2.19	496.69
3	AGSM	39.30	1.96	64.6	19	93.63	4.93	2.38	449.58
3	POSE	7.50	.375	12.3	8	7.87	0.98	1.05	37.789
3	SIHY	0.50	2.50E-02	.822	1	1.94	1.94	3.88	9.3153
	PER FORBS	12.40	0.62		19	22.51	1.18	1.82	108.09
2	PHLO	12.40	.620	20.4	19				
	ANN FORBS	1.10	0.05		7	2.54	0.36	2.31	12.20
4	DEPI	0.70	3.50E-02	1.15	7				
4	LARE	0.40	2.00E-02	.658	4				
	TOTAL		6.34	100.00		128.49			616.97

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	11.47
ATNU	4.42
CHVI	27.12
SAVE	2.93
Shrub Total	<u>45.94</u>
Total	

PRECIPITATION DATA

RAIN GAUGE NO. 31	CUMBER NO. 1 EXCL	AUGUST 14/72
OCT. 15 TO APR. 15 =	.72	
APR. 15 TO JULY 1 =	.72	
JULY 1 TO SEPT. 1 =	.68	
SEPT. 1 TO OCT. 15 =	1.10	
SEASON TOTAL =	3.22	
LONG TERM AVERAGE =	7.80	

**production adjusted for utilization

utilization 12.59
Adjusted Total 675.50

1901 CUMBER EXCL NO. 1 AUGUST 14/72 OUT SPRAY

NUMBER PLOTS = 20									
PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-BASAL AREA	PERCENT COMPOSITION	PLOT SIZE 1X1 ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RENCES	WGT./ UNIT BASAL AREA	LBS**
									PER AC.
6	*ATNU	25.00	1.25		1				
6	*CHVI	9.00	.450		2				
	PER GRASS	49.30	2.46		18	66.08	3.67	1.34	317.30
3	AGSM	37.10	1.85	59.6	18	61.31	3.41	1.65	294.39
3	ORHY	0.50	2.50E-02	.804	1	0.58	0.58	1.16	2.7850
3	POSE	11.50	.575	18.5	9	3.81	0.42	0.33	18.294
3	SIHY	0.20	1.00E-02	.322	2	0.38	0.19	1.90	1.8246
	PER FORBS	2.10	0.10		13	2.00	0.15	0.95	9.60
2	PHLO	2.10	.105	3.38	13				
	ANN FORBS	10.80	0.54		19	41.19	2.17	3.81	197.78
4	ATAR	0.20	1.00E-02	.322	2				
4	LARE	7.50	.375	12.1	19				
4	LEPE	0.60	3.00E-02	.965	6				
4	MONU	1.10	5.50E-02	1.77	7				
4	POAV	0.30	1.50E-02	.482	3				
4	SIAL	1.10	5.50E-02	1.77	7				
	TOTAL		4.81	100.00		109.27			524.68

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	.62
ATNU	60.34
CHVI	17.47
SAVE	5.86
Shrub Total	<u>84.29</u>
Total	<u>608.97</u>

PRECIPITATION DATA

RAIN GUAGE NO. 21	CUMBER EXCL	NO. 1	AUGUST 14/72
OCT. 15 TO APR. 15	=	.72	
APR. 15 TO JULY 1	=	.72	
JULY 1 TO SEPT. 1	=	.68	
SEPT. 1 TO OCT. 15	=	1.10	
SEASON TOTAL	=	3.22	
LONG TERM AVERAGE	=	7.80	

utilization 10.30
adjusted total 619.27

**Production adjused for utilization

1201 CUMBER EXCL NO. 2 AUGUST 15/72 INSIDE NATIVE

NUMBER PLOTS = 20
PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RFNCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*ARAR	151.50	7.57		12				
6	*ARTR	3.00	.150		1				
6	*CHVI	46.90	2.34		12				
6	*LEPU	1.60	8.00E-02		3				
6	*PHMU	5.00	.250		1				
	PER GRASS	40.90	2.04		20	105.89	5.29	2.59	508.45
3	AGSM	28.70	1.43	55.9	20	90.57	4.53	3.16	434.89
3	ELCI	6.00	.300	11.7	1	11.18	11.18	1.86	53.683
3	POSE	4.10	.205	7.99	4	1.56	0.39	0.38	7.4906
3	POFE	1.60	8.00E-02	3.12	4	2.26	0.56	1.41	10.852
3	STWI	0.50	2.50E-02	.975	1	0.32	0.32	0.64	1.5365
	PER FORBS	9.60	0.48		11	13.76	1.25	1.43	66.07
2	AST	3.00	.150	5.85	2				
2	EROV	4.10	.205	7.99	5				
2	LILE	1.00	5.00E-02	1.95	1				
2	PEN	0.10	T	.195	1				
2	PHLC	1.10	5.50E-02	2.14	11				
2	SELU	0.30	1.50E-02	.585	3				
	ANN FORBS	0.80	0.04		8	0.41	0.05	0.51	1.97
4	TRI	0.80	4.00E-02	1.56	8				
	TOTAL		12.96	100.00		120.06			576.49

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARAR	152.69
ARTR	.38
CHVI	95.81
ERMI	16.51
ERUM	27.50
LEPU	3.31
PHMU	28.75
TECA	10.85
Shrub Total	335.80
Total	912.29

PRECIPITATION DATA

RAIN GUAGE NO.	32	CUMBER EXCL	NO. 2	AUGUST 15/72
OCT. 15 TO APR. 15	=	5.47		
APR. 15 TO JULY 1	=	3.61		
JULY 1 TO SEPT. 1	=	0.80		
SEPT. 1 TO OCT. 15	=	0.74		
SEASON TOTAL	=	10.62		
LONG TERM AVERAGE	=	9.44		

**no utilization

1201 CUMBER EXCL NO. 2 AUGUST 15/72 OUT NATIVE

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	NUMBER PLOTS = 20		ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RFNCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
				PERCENT COMPO-SITION	PLOT SIZE 1X1					
6	*ARAR	215.00	10.8			19				
6	*CHVI	8.60	.430			3				
6	*LEPU	4.00	.200			1				
6	*PHHO	3.20	.160			4				
6	*TECA	9.50	.475			3				
	PER GRASS	19.10	0.95			20	29.86	1.49	1.56	143.38
3	AGSM	9.20	.460	25.6		20	20.89	1.04	2.27	100.31
3	POAM	0.60	3.00E-02	1.67		2	2.10	1.05	3.50	10.084
3	POFE	0.80	4.00E-02	2.22		4	1.18	0.29	1.47	5.6660
3	POSE	7.30	.365	20.3		8	4.57	0.57	0.63	21.944
3	STWI	1.20	6.00E-02	3.33		4	1.12	0.28	0.93	5.3779
	PER FORBS	15.60	0.78			16	19.11	1.19	1.22	91.76
2	AST	0.50	2.50E-02	1.39		1				
2	CAS	0.10	T	.278		1				
2	COPA	0.10	T	.278		1				
2	ERMI	5.20	.260	14.4		10				
2	EROV	4.10	.205	11.4		4				
2	PEN	1.70	8.50E-02	4.72		5				
2	PHLO	2.40	.120	6.67		16				
2	SELU	0.90	4.50E-02	2.50		5				
2	VIAM	0.60	3.00E-02	1.67		6				
	ANN FORBS	1.30	0.06			13	1.30	0.10	1.00	6.24
4	TRI	1.30	6.50E-02	3.61		13				
	TOTAL		13.81	100.00			50.270			241.38

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS		
ARAR		235.39
ARTR		.38
CHVI		71.86
ERUM		24.43
LEPU		7.78
PHHO		4.42
PHMU		.58
TECA		8.83
	Shrub Total	<u>353.67</u>
	Total	<u>595.05</u>

PRECIPITATION DATA		
RAIN GUAGE NO. 32	CUMBER EXCL	NO. 2 AUGUST 15/72
OCT. 15 TO APR. 15	=	5.47
APR. 15 TO JULY 1	=	3.61
JULY 1 TO SEPT. 1	=	0.80
SEPT. 1 TO OCT. 15	=	0.74
SEASON TOTAL	=	10.62
LONG TERM AVERAGE	=	9.44

utilization .80
Adjusted Total 595.85

**Production adjusted for utilization

1201 CUMBER EXCL NO. 2 AUGUST 15/72 INSIDE SPRAY

NUMBER PLOTS = 20

PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR- RENCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*CHVI	1.00	5.00E-02		2				
	PER GRASS	77.60	3.88		20	134.87	6.74	1.74	647.60
3	AGSM	24.00	1.20	27.6	20	96.18	4.81	4.01	461.83
3	POAM	0.60	3.00E-02	.690	2	3.83	1.91	6.38	18.390
3	POFE	46.50	2.32	53.5	12	32.03	2.67	0.69	153.80
3	POSE	6.50	.325	7.48	8	2.83	0.35	0.44	13.589
	PER FORBS	8.60	0.43		10	38.38	3.84	4.46	184.29
2	AST	0.50	2.50E-02	.575	5				
2	ERMI	0.10	T	.115	1				
2	LILE	6.80	.340	7.83	7				
2	PHLO	1.00	5.00E-02	1.15	10				
2	SELU	0.20	1.00E-02	.230	2				
	ANN FORBS	0.70	0.03		7	0.44	0.06	0.63	2.11
4	TRI	0.70	3.50E-02	.806	7				
	TOTAL		4.39	100.00		173.69			834.01

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

CHVI	23.95
ERUM	.86
PHMU	1.01
TECA	8.11
Shrub Total	<u>33.93</u>
Total	867.94

PRECIPITATION DATA

RAIN GAUGE NO. 32	CUMBER EXCL	NO. 2	AUGUST 15/72
OCT. 15 TO APR. 15	=	5.47	
APR. 15 TO JULY 1	=	3.61	
JULY 1 TO SEPT. 1	=	0.80	
SEPT. 1 TO OCT. 15	=	0.74	
SEASON TOTAL	=	10.62	
LONG TERM AVERAGE	=	9.44	

**no utilization

1201 CUMBER EXCL NO. 2 AUGUST 15/72 OUT SPRAY

NUMBER PLOTS = 20

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RFNCS	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*CHVI	1.60	8.00E-02		3				
6	*PHHO	0.10	T		1				
	PER GRASS	37.10	1.85		20	28.46	1.42	0.77	136.66
3	AGSM	21.00	1.05	46.0	20	22.60	1.13	1.08	108.52
3	POFE	2.60	.130	5.69	5	1.78	0.36	0.68	8.5470
3	POSE	9.50	.475	20.8	9	3.04	0.34	0.32	14.597
3	STWI	4.00	.200	8.75	2	1.04	0.52	0.26	4.9938
	PER FORBS	7.90	0.39		13	5.12	0.39	0.65	24.58
2	AST	1.20	6.00E-02	2.63	4				
2	ERMI	3.10	.155	6.78	3				
2	LILE	2.30	.115	5.03	11				
2	PHLO	1.30	6.50E-02	2.84	13				
	ANN FORBS	0.70	0.03		5	0.64	0.13	0.91	3.07
4	CHEN	0.10	T	.219	1				
4	DEPI	0.10	T	.219	1				
4	TRI	0.50	2.50E-02	1.09	5				
	TOTAL		2.37	100.00		34.220			164.31

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARAR	4.94
CHVI	59.90
ERUM	1.72
PHHO	1.92
SYOC	.29
TECA	2.69
Shrub Total	<u>71.46</u>
Total	<u>235.77</u>

PRECIPITATION DATA

RAIN GUAGE NO. 32	CUMBER EXCL	NO. 2	AUGUST 15/72
OCT. 15 TO APR. 15	=	5.47	
APR. 15 TO JULY 1	=	3.61	
JULY 1 TO SEPT. 1	=	0.80	
SEPT. 1 TO OCT. 15	=	0.74	
SEASON TOTAL	=	10.62	
LONG TERM AVERAGE	=	9.44	

utilization 29.21
Adjusted Total 264.98

**Production adjusted for utilization

1202 CUMBER EXCL NO.3 AUGUST 15/72 INSIDE NATIVE

NUMBER PLOTS = 20

PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RENCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*ARTR	211.00	10.5		9				
6	*CHVI	15.60	.780		10				
6	*PHHO	27.00	1.35		6				
6	*TECA	5.10	.255		2				
	PER GRASS	35.50	1.77		19	45.70	2.41	1.29	219.44
3	AGSM	4.80	.240	10.4	9	10.84	1.20	2.26	52.050
3	AGSP	16.60	.830	35.9	9	22.57	2.51	1.36	108.37
3	POFE	6.50	.325	14.1	3	8.93	2.98	1.37	42.879
3	POSE	7.10	.355	15.4	9	3.04	0.34	0.43	14.597
3	SIHY	0.50	2.50E-02	1.08	1	0.32	0.32	0.64	1.5365
	PER FORBS	9.60	0.48		18	11.60	0.64	1.21	55.70
2	ERMI	6.20	.310	13.4	6				
2	PHLC	3.40	.170	7.36	18				
	ANN FORBS	1.10	0.05		7	1.02	0.15	0.93	4.90
4	CORA	0.50	2.50E-02	1.08	1				
4	TRI	0.60	3.00E-02	1.30	6				
	TOTAL		15.24	100.00		58.320			280.03

* NOT COMPUTED IN PERCENT COMPOSITION

T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	483.31
CHVI	16.18
PHHO	21.84
TECA	1.58
Shrub Total	<u>522.91</u>
Total	<u>802.94</u>

PRECIPITATION DATA

RAIN GUAGE NO. 33	CUMBER EXCL	NO.3	AUGUST 15/72
OCT. 15 TO APR. 15	=	10.07	
APR. 15 TO JULY 1	=	2.53	
JULY 1 TO SEPT. 1	=	1.68	
SEPT. 1 TO OCT. 15	=	1.42	
SEASON TOTAL	=	15.70	
LONG TERM AVERAGE	=	11.59	

**no utilization

1201 CUMBER EXCL NO. 3 AUGUST 15/72 OUT NATIVE

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPOSITION	PLOT SIZE 1X1 ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR- RENCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*ARTR	355.00	17.8		13				
6	*CHVI	6.60	.330		9				
6	*OPPO	4.50	.225		2				
6	*PHHO	6.00	.300		4				
	PER GRASS	44.60	2.23		19	27.57	1.45	0.62	132.38
3	AGSM	30.60	1.53	57.7	19	18.23	0.96	0.60	87.535
3	AGSP	1.00	5.00E-02	1.89	1	3.12	3.12	3.12	14.981
3	POFE	0.40	2.00E-02	.755	4	2.31	0.58	5.77	11.092
3	POSE	5.90	.295	11.1	12	1.01	0.08	0.17	4.8497
3	STCO	6.70	.335	12.6	4	2.90	0.72	0.43	13.925
	PER FORBS	7.80	0.39		12	5.31	0.44	0.68	25.50
2	ERMI	6.20	.310	11.7	3				
2	PHLO	1.60	8.00E-02	3.02	12				
	ANN FORBS	0.60	0.03		2	0.17	0.08	0.28	0.82
4	TRI	0.60	3.00E-02	1.13	2				
	TOTAL		21.25	100.00		33.050			158.70

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	555.55
CHVI	20.16
PHHO	5.95
TECA	2.54
Shrub Total	<u>584.20</u>
Total	742.90

PRECIPITATION DATA

RAIN GAUGE NO. 33	CUMBER EXCL	NO. 3	AUGUST 15/72
UCT. 15 TO APR. 15	=	10.07	
APR. 15 TO JULY 1	=	2.53	
JULY 1 TO SEPT. 1	=	1.68	
SEPT. 1 TO OCT. 15	=	1.42	
SEASON TOTAL	=	15.70	
LONG TERM AVERAGE	=	11.50	

utilization 10.69
Adjusted Total 753.59

**Production adjusted for utilization

1201 CUMBER EXCL NO. 3 AUGUST 15/72 INSIDE SPRAY

NUMBER PLOTS = 20

PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR- RENCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*TECA	1.50	7.50E-02		1				
	PER GRASS	88.80	4.44		14	139.64	9.97	1.57	670.51
3	AGSM	24.00	1.20	25.7	14	68.45	4.89	2.85	328.68
3	AGSP	47.00	2.35	50.4	14	55.18	3.94	1.17	264.96
3	POFE	15.10	.755	16.2	6	14.72	2.45	0.97	70.681
3	POSE	2.70	.135	2.89	7	1.29	0.18	0.48	6.1942
	PER FORBS	4.50	0.22		8	6.98	0.87	1.55	33.52
2	AST	0.20	1.00E-02	.214	2				
2	COPA	0.10	T	.107	1				
2	ERMI	3.00	.150	3.22	1				
2	PHLO	1.20	6.00E-02	1.29	8				
	TOTAL		4.74	100.00		146.62			704.02

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	7.39
CHVI	1.97
PHHO	1.49
TECA	1.58
Total Shrub	<u>12.43</u>
Total	716.45

PRECIPITATION DATA

RAIN GUAGE NO. 33	CUMBER EXCL	NO. 3	AUGUST 15/72
OCT. 15 TO APR. 15	=	10.07	
APR. 15 TO JULY 1	=	2.53	
JULY 1 TO SEPT. 1	=	1.68	
SEPT. 1 TO OCT. 15	=	1.42	
SEASON TOTAL	=	15.70	
LONG TERM AVERAGE	=	11.59	

**no utilization

1201 CUMBER EXCL NO. 3 AUGUST 15/72 OUT SPRAY

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER- CENT	AVE. PER- CENT BASAL AREA	PERCENT COMPO- SITION	PLOT SIZE 1X1 ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT CCUR- RFNCES	WGT./ UNIT BASAL AREA	LBS**
									PER AC.
6	*ARTR	8.00	.400		3				
6	*CHVI	0.10	T		1				
6	*PHHO	2.00	.100		2				
	PER GRASS	52.50	2.62		17	62.42	3.67	1.19	299.72
3	AGSM	14.80	.740	27.1	17	27.44	1.61	1.85	131.76
3	AGSP	24.50	1.22	44.8	5	29.98	6.00	1.22	143.95
3	POFE	5.10	.255	9.32	7	2.35	0.34	0.46	11.284
3	POSE	8.10	.405	14.8	12	2.65	0.22	0.33	12.724
	PER FORBS	1.50	0.07		9	2.25	0.25	1.50	10.80
2	AST	0.50	2.50E-02	.914	1				
2	ERMI	0.10	T	.183	1				
2	PHLC	0.90	4.50E-02	1.65	9				
	ANN GRASS	0.10	T		1	1.00	1.00	10.00	4.80
5	BRTE	0.10	T	.183	1				
	ANN FORBS	0.60	0.03		2	1.43	0.71	2.38	6.87
4	DEPI	0.60	3.00E-02	1.10	2				
	TOTAL		3.24	100.00		67.100			322.19

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	25.92
CHVI	12.48
PHHO	4.99
TECA	1.58
Shrub Total	<u>44.97</u>
Total	367.16

PRECIPITATION DATA

RAIN GAUGE NO. 33	CUMBER EXCL	NO. 3	AUGUST 15/72
OCT. 15 TO APR. 15	=	10.07	
APR. 15 TO JULY 1	=	2.53	
JULY 1 TO SEPT. 1	=	1.68	
SEPT. 1 TO OCT. 15	=	1.42	
SEASON TOTAL	=	15.70	
LONG TERM AVERAGE	=	11.59	

**Production adjusted for utilization

utilization	<u>18.88</u>
Adjusted Total	386.04

1902 CUMBER EXCL NO. 4 AUGUST 14/72 INSIDE NATIVE

NUMBER PLOTS = 20

PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RFNCS	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*ARSP	43.10	2.15		9				
6	*ATNU	91.20	4.56		13				
6	*PHHO	4.00	.200		2				
6	*TESP	3.00	.150		2				
	PER GRASS	66.90	3.34		16	54.81	3.43	0.82	263.18
3	ORHY	1.00	5.00E-02	1.49	1	1.26	1.26	1.26	6.0501
3	POSE	0.10	T	.149	1	0.08	0.08	0.80	.38414
3	SIHY	65.80	3.29	98.4	16	53.47	3.34	0.81	256.75
	TOTAL		10.41	100.00		54.810			263.18

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARSP	27.41
EULA	.96
TESP	9.17
Shrub Total	<u>37.54</u>
Total	300.72

PRECIPITATION DATA

RAIN GAUGE NO. 34	CUMBER EXCL	NO. 4	AUGUST 14/72
OCT. 15 TO APR. 15	=	.81	
APR. 15 TO JULY 1	=	1.78	
JULY 1 TO SEPT. 1	=	.76	
SEPT. 1 TO OCT. 15	=	.80	
SEASON TOTAL	=	4.15	
LONG TERM AVERAGE	=	7.98	

**no utilization

1902 CUMBER EXCL NO. 4 AUGUST 14/72 OUT NATIVE

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPOSITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR- RENCES	WGT./ UNIT BASAL AREA	LBS**
									PER AC.
6	*ARSP	7.20	.360		6				
6	*ATNU	275.60	13.8		11				
6	*TESP	1.00	5.00E-02		1				
	PER GRASS	7.50	0.37		6	12.98	2.16	1.73	62.33
3	SIHY	7.50	.375	98.7	6	12.98	2.16	1.73	62.326
	ANN FORBS	0.10	T		1	0.12	0.12	1.20	0.58
4	LARE	0.10	T	1.32	1				
	TOTAL		14.57	100.00		13.100			62.902

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARSP	43.54
EULA	1.44
PHHO	4.03
TESP	.62
Shrub Total	<u>49.63</u>
Total	<u>112.53</u>

PRECIPITATION DATA

RAIN GUAGE NO. 34	CUMBER EXCL	NO. 4	AUGUST 14/72
OCT. 15 TO APR. 15	=	.81	
APR. 15 TO JULY 1	=	1.78	
JULY 1 TO SEPT. 1	=	.76	
SEPT. 1 TO OCT. 15	=	.80	
SEASON TOTAL	=	4.15	
LONG TERM AVERAGE	=	7.98	

**no utilization

2004 DEMER EXCL JULY 26/72 INSIDE NATIVE

NUMBER PLOTS = 20

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-BASAL AREA	PERCENT COMPOSITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ. FT.	AVE. WGT. /PLOT OCCUR-RENCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*ARTR	359.00	17.9		13				
6	*OPPO	11.00	.550		2				
	PER GRASS	30.80	1.54		19	36.33	1.91	1.18	174.45
3	AGSM	8.30	.415	23.3	14	19.99	1.43	2.41	95.986
3	BOGR	10.10	.505	28.4	5	8.01	1.60	0.79	38.462
3	POSE	10.30	.515	28.9	14	6.89	0.49	0.67	33.084
3	SIHY	2.10	.105	5.90	3	1.44	0.48	0.69	6.9144
	ANN GRASS	2.00	0.10		16	2.30	0.14	1.15	11.04
5	BRTE	0.60	3.00E-02	1.69	6				
5	FEOC	1.40	7.00E-02	3.93	14				
	ANN FORBS	2.80	0.14		15	2.47	0.16	0.88	11.86
4	CRIN	0.10	T	.281	1				
4	DEPI	1.10	5.50E-02	3.09	11				
4	GIPU	0.10	T	.281	1				
4	LARE	0.20	1.00E-02	.562	2				
4	LEDE	0.50	2.50E-02	1.40	5				
4	PLSP	0.50	2.50E-02	1.40	5				
4	SIAL	0.30	1.50E-02	.843	3				
	TOTAL		20.28	100.00		41.100			197.35

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	369.89
OPPO	15.89
Shrub Total	<u>385.78</u>
Total	<u>583.13</u>

PRECIPITATION DATA

RAIN GUAGE NO. 8	DEM ER	EXCL	JULY	26/72
OCT. 15 TO APR. 15	=	2.05		
APR. 15 TO JULY 1	=	2.46		
JULY 1 TO SEPT. 1	=	1.22		
SEPT. 1 TO OCT. 15	=	.77		
SEASON TOTAL	=	6.50		
LONG TERM AVERAGE	=	8.16		

**no utilization

2004 DEMER EXCL JULY 26/72 OUT NATIVE

NUMBER PLOTS = 20

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RENCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*ARTR	333.50	16.7		9				
6	*OPPO	2.00	.100		1				
	PER GRASS	32.90	1.64		15	18.73	1.25	0.57	89.94
3	AGSM	2.40	.120	5.83	7	3.75	0.54	1.56	18.006
3	BOGR	21.30	1.06	51.7	12	9.13	0.76	0.43	43.839
3	POSE	8.40	.420	20.4	15	4.23	0.28	0.50	20.311
3	SIHY	0.80	4.00E-02	1.94	4	1.62	0.40	2.02	7.7787
	ANN GRASS	4.60	0.23		12	9.11	0.76	1.98	43.74
5	BRTE	3.40	.170	8.25	8				
5	FEOC	1.20	6.00E-02	2.91	12				
	ANN FORBS	3.70	0.18		13	2.93	0.23	0.79	14.07
4	CHEN	0.10	T	.243	1				
4	CRIN	0.10	T	.243	1				
4	DEPI	1.30	6.50E-02	3.16	13				
4	GIPU	0.10	T	.243	1				
4	LARE	0.20	1.00E-02	.485	2				
4	LEDE	0.70	3.50E-02	1.70	7				
4	PLSP	0.80	4.00E-02	1.94	8				
4	SIAL	0.40	2.00E-02	.971	4				
	TOTAL		18.83	100.00		30.770			147.75

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	357.12
OPPO	14.54
Shrub Total	<u>371.66</u>
Total	<u>519.41</u>

PRECIPITATION DATA

RAIN GUAGE NO.	DEM ER	EXCL	JULY	26/72
OCT. 15 TO APR. 15	=	2.05		
APR. 15 TO JULY 1	=	2.46		
JULY 1 TO SEPT. 1	=	1.22		
SEPT. 1 TO OCT. 15	=	.77		
SEASON TOTAL	=	6.50		
LONG TERM AVERAGE	=	8.16		

**no utilization

2005 DUTCH NICK EXCL JULY 17/72 INSIDE NATIVE

NUMBER PLOTS = 20
PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR- RENCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*OPPO	12.00	.600		5				
	PER GRASS	113.30	5.66		20	78.18	3.91	0.69	375.40
3	BOGR	111.00	5.55	96.6	20	76.35	3.82	0.69	366.61
3	POSE	2.30	.115	2.00	5	1.83	0.37	0.80	8.7871
	ANN FORBS	1.60	0.08		11	1.16	0.11	0.72	5.57
4	CHEN	1.10	5.50E-02	.957	11				
4	CRBR	0.20	1.00E-02	.174	2				
4	LEDE	0.30	1.50E-02	.261	3				
	TOTAL		6.34	100.00		79.340			380.97

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

EULA	4.27
OPPO	60.14
Shrub Total	<u>64.14</u>
Total	<u>445.11</u>

PRECIPITATION DATA

RAIN GAUGE NO. 4	DUTCH NICK EXCL	JULY 17/72
OCT. 15 TO APR. 15	=	2.37
APR. 15 TO JULY 1	=	2.07
JULY 1 TO SEPT. 1	=	2.35
SEPT. 1 TO OCT. 15	=	.89
SEASON TOTAL	=	7.68
LONG TERM AVERAGE	=	7.00

**no utilization

2005 DUTCH NICK EXCL JULY 17/72 OUT NATIVE

NUMBER PLOTS = 20

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPO-SITION	PLOT SIZE 1X1 ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT CCCUR-RENCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*OPPO	21.00	1.05		5				
	PER GRASS	158.30	7.91		20	105.66	5.28	0.67	507.35
3	BOGR	154.60	7.73	97.0	20	102.23	5.11	0.66	490.88
3	POSE	3.70	.185	2.32	5	3.43	0.69	0.93	16.470
	ANN FORBS	1.00	0.05		7	2.61	0.37	2.61	12.53
4	CHEN	0.10	T	6.28E-02	1				
4	CRBR	0.20	1.00E-02	.126	2				
4	DEPI	0.70	3.50E-02	.439	7				
	TOTAL		9.01	100.00		108.27			519.88

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

OPPO

	54.14
Shrub Total	<u>54.14</u>
Total	<u>574.02</u>

PRECIPITATION DATA

RAIN GUAGE NO. 4	DUTCH	NICK	EXCL	JULY	17/72
OCT. 15 TO APR. 15 =	2.37				
APR. 15 TO JULY 1 =	2.07				
JULY 1 TO SEPT. 1 =	2.35				
SEPT. 1 TO OCT. 15 =	.89				
SEASON TOTAL =	7.68				
LONG TERM AVERAGE =	7.00				

**no utilization

0404 FARSON EXCL

AUGUST 16/72 INSIDE NATIVE

NUMBER PLOTS = 20
PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RNCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*ARTR	30.60	1.53		13				
6	*CHVI	6.30	.315		9				
6	*PHHO	16.30	.815		13				
	PER GRASS	33.30	1.66		20	48.13	2.41	1.45	231.11
3	AGSM	7.60	.380	22.8	19	15.23	0.80	2.00	73.130
3	CAEL	0.20	1.00E-02	.599	2	0.46	0.23	2.30	2.2088
3	DRHY	1.60	8.00E-02	4.79	3	3.96	1.32	2.47	19.015
3	POSE	4.50	.225	13.5	2	2.66	1.33	0.59	12.773
3	SIHY	0.20	1.00E-02	.599	2	0.18	0.09	0.90	.86430
3	STCC	19.20	.960	57.5	10	25.64	2.56	1.34	123.12
	PER FORBS	0.10	T		1	0.01	0.01	0.10	0.05
2	EROV	0.10	T	.299	1				
	TOTAL		4.33	100.00		48.140			231.15

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	369.12
ATCO	17.52
CHVI	15.36
EULA	5.09
OPPO	.67
PHHO	30.00
Shrub Total	<u>437.76</u>
Total	<u>668.91</u>

PRECIPITATION DATA

RAIN GAUGE NO. 2	FARSON EXCL	AUGUST 16/72
OCT. 15 TO APR. 15 =	2.58	
APR. 15 TO JULY 1 =	2.06	
JULY 1 TO SEPT. 1 =	.28	
SEPT. 1 TO OCT. 15 =		
SEASON TOTAL =		
LONG TERM AVERAGE =		

**no utilization

0404 FARSON EXCL AUGUST 16/72 OUT NATIVE

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	NUMBER PLOTS = 20		TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RENCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
				PERCENT COMPO-SITION	PLOT SIZE 1X1 ABS. PLOT FREQ. BASE 20				
6	*ARTR	52.00	2.60		10				
6	*PHHO	6.20	.310		10				
6	*CHVI	14.70	.735		10				
	PER GRASS	11.40	0.57		18	19.31	1.07	1.69	92.72
3	AGSM	5.60	.280	44.8	18	12.11	0.67	2.16	58.149
3	CAEL	1.00	5.00E-02	8.00	6	0.46	0.08	0.46	2.2088
3	ORHY	2.10	.105	16.8	2	4.45	2.22	2.12	21.368
3	POSE	0.50	2.50E-02	4.00	1	0.20	0.20	0.40	.96034
3	SIHY	0.60	3.00E-02	4.80	2	0.52	0.26	0.87	2.4969
3	STCO	1.60	8.00E-02	12.8	4	1.57	0.39	0.98	7.5387
	PER FORBS	1.10	0.05		2	0.40	0.20	0.36	1.92
2	EROV	1.10	5.50E-02	8.80	2				94.641
	TOTAL		4.27	100.00		19.710			

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARHO	7.58
ARTR	148.99
ATCO	1.15
CHVI	37.78
EULA	.53
OPPO	1.82
PHHO	17.33
Shrub Total	<u>215.18</u>
Total	309.82

PRECIPITATION DATA

RAIN GUAGE NO. 2	FARSON EXCL
OCT. 15 TO APR. 15	= 2.58
APR. 15 TO JULY 1	= 2.06
JULY 1 TO SEPT. 1	= .28
SEPT. 1 TO OCT. 15	=
SEASON TOTAL	=
LONG TERM AVERAGE	=

AUGUST 16/72

utilization .29
Adjusted Total 310.11

**Production adjusted for utilization

1007 GRANIT MOUNT EXCL AUGUST 17/72 INSIDE NATIVE

NUMBER PLOTS = 20

PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RENCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*ARTR	204.10	10.2		12				
6	*CHVI	5.00	.250		2				
6	*PHHO	2.20	.110		4				
	PER GRASS	89.50	4.47		20	93.42	4.67	1.04	448.57
3	AGSM	13.60	.680	14.1	20	42.34	2.12	3.11	203.30
3	POFE	74.60	3.73	77.5	20	49.79	2.49	0.67	239.08
3	POSE	1.30	6.50E-02	1.35	5	1.29	0.26	0.99	6.1942
	PER FORBS	6.60	0.33		15	11.09	0.74	1.68	53.25
2	ASMI	2.50	.125	2.60	8				
2	CAS	0.90	4.50E-02	.936	5				
2	CRE	1.00	5.00E-02	1.04	1				
2	ERPU	1.60	8.00E-02	1.66	4				
2	PEN	0.60	3.00E-02	.624	2				
	ANN FORBS	0.10	T		1	0.07	0.07	0.70	0.34
4	TRI	0.10	T	.104	1				
	TOTAL		15.37	100.00		104.58			502.16

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	266.78
CHVI	2.88
PHHO	35.33
Shrub Total	<u>304.99</u>
Total	807.15

PRECIPITATION DATA

RAIN GUAGE NO. 6	GRANIT MOUNT EXCL	AUGUST 17/72
OCT. 15 TO APR. 15	=	3.32
APR. 15 TO JULY 1	=	4.36
JULY 1 TO SEPT. 1	=	.75
SEPT. 1 TO OCT. 15	=	.44
SEASON TOTAL	=	8.87
LONG TERM AVERAGE	=	8.75

**no utilization

1007 GRANIT MOUNT EXCL AUGUST 17/72 OUT NATIVE

NUMBER PLOTS = 20

PLANT CLDE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPOSITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR- RENCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*ARTR	221.60	11.1		14				
6	*PHHO	10.80	.540		12				
	PER GRASS	63.60	3.18		19	54.07	2.85	0.85	259.63
3	AGSM	10.50	.525	15.6	19	26.06	1.37	2.48	125.13
3	KOCR	0.50	2.50E-02	.744	1	0.25	0.25	0.50	1.2004
3	POFE	37.20	1.86	55.4	14	18.17	1.30	0.49	87.247
3	POSE	15.30	.765	22.8	11	9.09	0.83	0.59	43.647
3	SIHY	0.10	T	.149	1	0.50	0.50	5.00	2.4008
	PER FORBS	3.50	0.17		8	3.23	0.40	0.92	15.51
2	ASMI	2.10	.105	3.12	8				
2	ERPU	1.40	7.00E-02	2.08	6				
	ANN FORBS	0.10	T		1	0.03	0.03	0.30	0.14
4	TRI	0.10	T	.149	1				
	TOTAL		14.98	100.00		57.330			275.28

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	298.27
CHVI	2.06
PHHO	35.57
Shrub Total	<u>335.90</u>
Total	<u>611.18</u>

PRECIPITATION DATA

RAIN GAUGE NO. 6	GRANIT MOUNT EXCL	AUGUST 17/72
OCT. 15 TO APR. 15	=	3.32
APR. 15 TO JULY 1	=	4.36
JULY 1 TO SEPT. 1	=	.75
SEPT. 1 TO OCT. 15	=	.44
SEASON TOTAL	=	8.87
LONG TERM AVERAGE	=	8.75

utilization 12.33
Adjusted Total 623.51

**Production adjusted for utilization

1007 GRANIT MOUNT EXCL AUGUST 12/72 INSIDE SPRAY

NUMBER PLOTS = 20
PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RENCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*ARTR	4.00	.200		3				
	PER GRASS	121.70	6.08		20	137.41	6.87	1.13	659.80
3	AGSM	37.50	1.88	30.1	20	75.90	3.79	2.02	364.45
3	POFE	82.60	4.13	66.4	18	60.46	3.36	0.73	290.31
3	POSE	1.60	8.00E-02	1.29	4	1.05	0.26	0.66	5.0418
	PER FORBS	2.30	0.11		5	3.30	0.66	1.43	15.85
2	ASMI	0.50	2.50E-02	.402	5				
2	CRE	0.20	1.00E-02	.161	2				
2	ERPU	1.60	8.00E-02	1.29	3				
	ANN FORBS	0.40	0.02		3	1.34	0.45	3.35	6.43
4	ARHO2	0.10	T	8.04E-02	1				
4	TRI	0.30	1.50E-02	.241	3				
	TOTAL		6.42	100.00		142.05			682.08

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	99.48
CHVI	8.50
PHHO	4.61
Shrub Total	<u>112.59</u>
Total	794.67

PRECIPITATION DATA

RAIN GUAGE NO. 6	GRANIT MOUNT EXCL	AUGUST 12/72
OCT. 15 TO APR. 15	=	3.32
APR. 15 TO JULY 1	=	4.36
JULY 1 TO SEPT. 1	=	.75
SEPT. 1 TO OCT. 15	=	.44
SEASON TOTAL	=	8.87
LONG TERM AVERAGE	=	8.75

**no utilization

1007 GRANIT MOUNT EXCL AUGUST 17/72 OUT SPRAY

NUMBER PLOTS = 20									
PLOT SIZE 1X1									
PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RENCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*ARTR	48.00	2.40		7				
6	*CHVI	5.70	.285		5				
6	*PHHO	5.10	.255		6				
PER GRASS		74.10	3.70		18	77.85	4.32	1.05	373.81
3	AGSM	16.50	.825	21.3	18	47.70	2.65	2.89	229.04
3	POFE	39.00	1.95	50.5	15	19.95	1.33	0.51	95.794
3	POSE	17.50	.875	22.6	17	8.14	0.48	0.47	39.086
3	SIHY	1.10	5.50E-02	1.42	2	2.06	1.03	1.87	9.8915
PER FORBS		2.80	0.14		4	4.47	1.12	1.60	21.46
2	AGGL	0.20	1.00E-02	.259	2				
2	ALTE	0.10	T	.129	1				
2	ASMI	0.80	4.00E-02	1.03	4				
2	ERPU	1.20	6.00E-02	1.55	4				
2	MACA	0.50	2.50E-02	.647	1				
ANN FORBS		0.40	0.02		2	0.14	0.07	0.35	0.67
4	ARHO2	0.10	T	.129	1				
4	CAMI	0.20	1.00E-02	.259	2				
4	TRI	0.10	T	.129	1				
TOTAL			6.80	100.00		82.460			395.95

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	174.0
CHVI	16.42
PHHO	20.06
Shrub Total	<u>210.48</u>
Total	<u>606.43</u>

PRECIPITATION DATA

RAIN GUAGE NO. 6	GRANIT MOUNT EXCL	AUGUST 17/72
OCT. 15 TO APR. 15	=	3.32
APR. 15 TO JULY 1	=	4.36
JULY 1 TO SEPT. 1	=	.75
SEPT. 1 TO OCT. 15	=	.44
SEASON TOTAL	=	8.87
LONG TERM AVERAGE	=	8.75

utilization 25.01
Adjusted Total 631.44

**Production adjusted for utilization

C901 HALOGE PASTUR EXCL 1 JULY 12/72 INSIDE NATIVE

NUMBER OF PLOTS
COVER = 200, PRODUCTION = 20
PLOT SIZE 1 FT. X 10 FT.

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER- CENT	AVF. PER- CENT BASAL AREA	PERCENT COMPO- SITION	ABS. PLOT FREQ. BASE 200	TOTAL WGT. GMS/ SQ.FT.	AVE. WGT. /PLOT CCCUR- RENCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*ARSP	0.1	T		1				
6	*OPPC	0.1	T		1				
6	*TFSP	10.1	5.05E-02		2				
1	ATNU	2683.1	13.4	98.1	137	1074.85	7.85	0.40	516.11
	PER GRASS	42.1	.210		20	37.92	1.90	0.90	18.208
3	POSE	31.5	.157	1.15	9	20.65	2.29	0.66	9.9155
3	SIHY	10.6	5.30E-02	.388	20	17.27	0.86	1.63	8.2925
	PER FORBS	3.70	0.02		25	6.46	0.26	1.75	3.10
2	ALTE	3.7	1.85E-02	.135	25				
	ANN FORBS	5.50	0.03		18	9.47	0.53	1.72	4.55
4	DEPI	1.6	T	5.85E-02	16				
4	GIPU	1.8	T	6.58E-02	18				
4	LEDE	1.3	T	4.75E-02	13				
4	MATA	0.2	T	T	2				
4	OESC	0.6	T	2.19E-02	6				
	TOTAL		13.7	100.00		1128.70			541.967

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARSP	2.54
ARTR	3.74
OPPO	9.70
Shrub Prod.	<u>15.98</u>
Total	<u>557.95</u>

PRECIPITATION DATA

RAIN GUAGE NO. 24	HALOGE PASTUR EXCL 1 JULY	12/72
OCT. 15 TO APR. 15 =	1.40	
APR. 15 TO JULY 1 =	1.64	
JULY 1 TO SEPT. 1 =	1.26	
SEPT. 1 TO OCT. 15 =	.32	
SEASON TOTAL =	4.62	
LONG TERM AVERAGE =	5.42	

**no utilization

C905 HALOGE PASTUR EXCL 2 JULY 17/72 INSIDE NATIVE

NUMBER OF PLOTS
COVER = 200, PRODUCTION = 20
PLOT SIZE 1 FT. X 10 FT.

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPOSITION	ABS. PLOT FREQ. BASE 200	TOTAL WGT. GMS/ 200 SQ.FT.	AVE. WGT. /PLOT CCCUR- RENCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*ARSP	1.0	T		1				
6	*OPPC	4.0	2.00E-02		1				
1	ATNU	843.2	4.22	77.2	181	848.87	4.69	1.01	407.60
	PER GRASS	219.7	1.10		76	321.97	4.24	1.47	154.60
3	POSE	73.1	.365	6.69	48	64.49	1.34	0.88	30.966
3	SIHY	146.6	.733	13.4	76	257.48	3.39	1.76	123.63
	PER FCRBS	1.30	0.01		13	1.16	0.09	0.89	0.56
2	ALTE	1.3	T	.119	13				
	ANN FORBS	27.90	0.14		147	58.02	0.39	2.08	27.86
4	DEPI	5.0	2.50E-02	.458	50				
4	GIPU	0.5	T	4.58E-02	5				
4	LARE	1.0	T	9.16E-02	10				
4	LEDE	19.2	9.60E-02	1.76	147				
4	MATA	2.2	1.10E-02	.201	22				
	TOTAL		5.5	100.00		1230.02			590.618

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

OPPO

	2.16
Shrub Prod.	<u>2.16</u>
Total	592.78

PRECIPITATION DATA

RAIN GUAGE NO.	167	HALOGE PASTUR EXCL 2 JULY	17/72
OCT. 15 TO APR. 15	=	2.00	
APR. 15 TO JULY 1	=	2.01	
JULY 1 TO SEPT. 1	=	1.41	
SEPT. 1 TO OCT. 15	=	.61	
SEASON TOTAL	=	6.03	
LONG TERM AVERAGE	=	6.03	

**no utilization

0903 HALOGE PASTUR EXCL 3 JULY 18/72 INSIDE NATIVE

NUMBER OF PLOTS
COVER = 200, PRODUCTION = 20
PLOT SIZE 1 FT. X 10 FT.

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 200	TOTAL WGT. GMS/ 200 SQ.FT.	AVE. WGT. /PLOT OCCUR-RANCES	WGT./ UNIT BASAL AREA	LBS ** PER AC.
6	*ARSP	15.6	7.80E-02		12				
6	*OPPC	9.8	4.90E-02		8				
1	ATNU	883.8	4.42	82.3	155	636.21	4.10	0.72	305.49
	PER GRASS	116.8	.584		38	208.03	5.47	1.78	99.890
3	SIHY	116.8	.584	10.9	38	208.03	5.47	1.78	99.890
	PER FORBS	3.80	0.02		37	4.99	0.13	1.31	2.40
2	ALTE	3.7	1.85E-02	.345	37				
2	OECA	0.1	T	T	1				
	ANN FORBS	69.60	0.35		84	61.48	0.73	0.88	29.52
4	DEPI	2.8	1.40E-02	.261	28				
4	EUSE	0.2	T	1.86E-02	2				
4	GIPU	2.0	T	.186	20				
4	LARE	3.1	1.55E-02	.289	31				
4	LEDE	47.8	.239	4.45	44				
4	LUPU	0.5	T	4.66E-02	1				
4	MATA	13.2	6.60E-02	1.23	84				
	TOTAL		5.5	100.00		910.710			437.295

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS
OPPO

Shrub Prod.	<u>2.54</u>
Total	<u>439.84</u>

PRECIPITATION DATA

RAIN GAUGE NO. 168	HALOGE PASTUR EXCL 3 JULY 18/72
OCT. 15 TO APR. 15 =	1.48
APR. 15 TO JULY 1 =	1.74
JULY 1 TO SEPT. 1 =	1.36
SEPT. 1 TO OCT. 15 =	.42
SEASON TOTAL =	5.00
LONG TERM AVERAGE =	5.00

**no utilization

0904 HALOGE PASTUR NO. 1 JULY 13/72 OUT NATIVE

NUMBER OF PLOTS
COVER = 200, PRODUCTION = 20
PLOT SIZE 1 FT. X 10 FT.

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 200	TOTAL WGT. GMS/ 200 SQ.FT.	AVE. WGT. /PLOT CCCUR- RENCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*ARSP	1.5	T		2				
6	*OPPO	1.1	T		2				
1	ATNU	1215.2	6.08	99.0	172	891.60	5.18	0.73	428.12
	PER GRASS	2.6	1.30E-02		18	3.55	0.20	1.37	1.7046
3	SIHY	2.6	1.30E-02	.212	18	3.55	0.20	1.37	1.7046
	PER FORBS	0.80	T		8	0.45	0.06	0.56	0.22
2	ALTE	0.8	T	6.52E-02	8				
	ANN FORBS	8.50	0.04		30	6.34	0.21	0.75	3.04
4	DEPI	3.0	1.50E-02	.244	30				
4	GIPU	0.9	T	7.33E-02	9				
4	HAGL	1.3	T	.106	6				
4	LARE	1.8	T	.147	18				
4	LEDE	1.4	T	.114	14				
4	OESC	0.1	T	T	1				
	TOTAL		6.1	100.00		901.940			433.084

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARSP	1.34
OPPO	14.21
Shrub Prod.	<u>15.55</u>
Total	<u>448.63</u>

PRECIPITATION DATA	Exclosure 1 Rain Gauge Data
RAIN GUAGE NO. 24	HALOGE PASTUR NO. 1 JULY 13/72
OCT. 15 TC APR. 15	= 1.40
APR. 15 TO JULY 1	= 1.64
JULY 1 TO SEPT. 1	= 1.26
SEPT. 1 TC OCT. 15	= .32
SEASON TOTAL	= 4.62
LONG TERM AVERAGE	= 5.42

**no utilization

0905 HALOGE PASTUR NO. 2 JULY 12/72 OUT NATIVE

NUMBER OF PLOTS
COVER = 200, PRODUCTION = 20
PLOT SIZE 1 FT. X 10 FT.

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 200	TOTAL WGT. GMS/ SQ.FT.	AVE. WGT. /PLOT OCCUR- RENCES	WGT./ UNIT BASAL AREA	LBS ** PER AC.
1	ATNU	2316.8	11.6	97.2	137	1080.07	7.88	0.47	518.62
	PER GRASS	46.4	.232		33	46.10	1.40	0.99	22.136
3	POSE	24.0	.120	1.01	6	15.05	2.51	0.63	7.2265
3	SIHY	22.4	.112	.940	33	31.05	0.94	1.39	14.909
	PER FORBS	2.60	0.01		26	5.84	0.22	2.25	2.80
2	ALTE	2.6	1.30E-02	.109	26				
	ANN FORBS	18.20	0.09		73	25.42	0.35	1.40	12.21
4	DEPI	2.9	1.45E-02	.122	25				
4	GIPU	2.7	1.35E-02	.113	27				
4	HAGL	7.7	3.85E-02	.323	73				
4	LARE	2.1	1.05E-02	8.81E-02	17				
4	LEDE	2.0	T	8.39E-02	20				
4	MATA	0.5	T	2.10E-02	5				
4	OFSC	0.3	T	1.26E-02	3				
	TOTAL		11.9	100.00		1157.43			555.762

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARSP	.29
OPPO	6.82
TESP	1.15
Shrub Prod.	<u>8.26</u>
Total	<u>564.02</u>

PRECIPITATION DATA	Exclosure 1 Rain Gauge
RAIN GAUGE NO. 24	HALOGE PASTUR NO. 2 JULY 12/72
OCT. 15 TO APR. 15	= 1.40
APR. 15 TO JULY 1	= 1.64
JULY 1 TO SEPT. 1	= 1.26
SEPT. 1 TO OCT. 15	= .32
SEASON TOTAL	= 4.62
LONG TERM AVERAGE	= 5.42

**no utilization

0907 HALOGE PASTUR NO.4A JULY 13/72 OUT NATIVE

NUMBER OF PLOTS
COVER = 200, PRODUCTION = 20
PLOT SIZE 1 FT. X 10 FT.

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVF. PER-CENT BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 200	TOTAL WGT. GMS/ SQ.FT.	AVE. WGT. /PLOT OCCUR-RENCES	WGT./ UNIT BASAL AREA	LBS ** PER AC.
6	*OPPC	36.1	.180		4				
1	ATNU	1120.0	5.60	95.6	160	750.17	4.69	0.67	360.21
	PER GRASS	19.1	9.55E-02		27	16.85	0.62	0.88	8.0909
3	POSE	16.0	8.00E-02	1.37	3	12.19	4.06	0.76	5.8533
3	SIHY	3.1	1.55E-02	.265	27	4.66	0.17	1.50	2.2376
	PER FORBS	0.80	T		8	1.39	0.17	1.74	0.67
2	ALTE	0.8	T	6.83E-02	8				
	ANN FORBS	32.10	0.16		97	119.29	1.23	3.72	57.28
4	DEPI	5.2	2.60E-02	.444	52				
4	GIPU	0.5	T	4.27E-02	5				
4	HAGL	0.2	T	1.71E-02	2				
4	LARE	4.7	2.35E-02	.401	47				
4	LEDE	12.5	6.25E-02	1.07	97				
4	MATA	9.0	4.50E-02	.768	70				
	TOTAL		6.0	100.00		887.700			426.246

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

No Shrub production observed

PRECIPITATION DATA Enclosure 2 Rain Gauge Data
RAIN GAUGE NO. 167 HALOGE PASTUR NO.4A JULY 13/72
OCT. 15 TO APR. 15 = 2.00
APR. 15 TO JULY 1 = 2.01
JULY 1 TO SEPT. 1 = 1.41
SEPT. 1 TO OCT. 15 = .61
SEASON TOTAL = 6.03
LONG TERM AVERAGE = 6.03

**no utilization

0908 HALOGE PASTUR NO.4B JULY 12/72 OUT NATIVE

NUMBER OF PLOTS
COVER = 200, PRODUCTION = 20
PLOT SIZE 1 FT. X 10 FT.

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 200	TOTAL WGT. GMS/ 200 SQ.FT.	AVF. WGT. /PLOT OCCUR-RENCES	WGT./ UNIT BASAL AREA	LBS ** PER AC.
6	*ARSP	8.8	4.40E-02		13				
6	*OPPO	21.6	.108		9				
1	ATNU	771.3	3.86	89.5	169	462.59	2.74	0.60	227.12
	PER GRASS	53.2	.266		34	55.61	1.64	1.05	26.702
3	SIHY	53.2	.266	6.17	34	55.61	1.64	1.05	26.702
	PER FORBS	0.80	T		8	0.58	0.07	0.72	0.28
2	ALTE	0.8	T	9.28E-02	8				
	ANN FORBS	36.80	0.18		111	106.97	0.96	2.91	51.36
4	DEPI	2.2	1.10E-02	.255	22				
4	GIPU	2.3	1.15E-02	.267	19				
4	HAGL	0.2	T	2.32E-02	2				
4	LARE	5.9	2.95E-02	.684	59				
4	LEDE	7.9	3.95E-02	.916	71				
4	MATA	18.3	9.15E-02	2.12	111				
	TOTAL		4.5	100.00		625.750			300.466

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARSP	.72
OPPO	6.53
Shrub Prod.	<u>7.25</u>
Total	<u>307.72</u>

PRECIPITATION DATA	Exclosure 2 Rain Gauge Date
RAIN GAUGE NO. 167	HALOGE PASTUR NO.4B JULY 12/72
OCT. 15 TO APR. 15 =	2.00
APR. 15 TO JULY 1 =	2.01
JULY 1 TO SEPT. 1 =	1.41
SEPT. 1 TO OCT. 15 =	.61
SEASON TOTAL =	6.03
LONG TERM AVERAGE =	6.03

**no utilization

0909 HALOGE PASTUR NO. 5 JULY 17/72 OUT NATIVE

NUMBER OF PLOTS
COVER = 200, PRODUCTION = 20
PLOT SIZE 1 FT. X 10 FT.

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 200	TOTAL WGT. GMS/ 200 SQ.FT.	AVE. WGT. /PLOT CCCUR- RENCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*OPPC	6.7	3.35E-02		4				
1	ATNU	579.3	2.90	72.2	151	374.43	2.48	0.65	179.79
	PER GRASS	206.7	1.03		82	528.57	6.45	2.56	253.80
3	POSE	0.1	T	1.25E-02	1	0.10	0.10	1.00	4.8017E-02
3	SIHY	206.6	1.03	25.7	82	528.47	6.44	2.56	253.76
	PER FORBS	2.30	0.01		17	1.52	0.09	0.66	0.73
2	ALTE	1.7	T	.212	17				
2	MUDI	0.6	T	7.48E-02	2				
	ANN FORBS	14.30	0.07		53	11.56	0.22	0.81	5.55
4	DEPI	2.6	1.30E-02	.324	26				
4	GIPU	1.3	T	.162	13				
4	HAGL	0.1	T	1.25E-02	1				
4	LARE	2.7	1.35E-02	.336	27				
4	LEDE	5.3	2.65E-02	.660	53				
4	MATA	2.3	1.15E-02	.287	23				
	TOTAL		4.0	100.00		916.080			439.873

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARSP
OPPO

	.10
	8.02
Shrub Prod.	<u>8.12</u>
Total	<u>447.99</u>

PRECIPITATION DATA Enclosure 2 Rain Gauge Date

RAIN GAUGE NO.	167	HALOGE PASTUR NO.	5	JULY	17/72
OCT. 15 TO APR. 15	=	2.00			
APR. 15 TO JULY 1	=	2.01			
JULY 1 TO SEPT. 1	=	1.41			
SEPT. 1 TO OCT. 15	=	.61			
SEASON TOTAL	=	6.03			
LONG TERM AVERAGE	=	6.03			

**no utilization

0910 HALOGE PASTUR NO.6 JULY 18/72 OUT NATIVE

NUMBER OF PLOTS
COVER = 200, PRODUCTION = 20
PLOT SIZE 1 FT. X 10 FT.

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVF. PER-CENT BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 200	TOTAL WGT. GMS/ 200 SQ.FT.	AVE. WGT. /PLOT OCCUR- RENCES	WGT./ UNIT BASAL AREA	LBS ** PER AC.
6	*ARSP	2.0	T		3				
6	*OPPO	32.8	.164		13				
1	ATNU	462.2	2.31	66.4	116	470.22	4.05	1.02	225.79
	PER GRASS	210.7	1.05		127	524.09	4.13	2.49	251.65
3	PRHY	0.5	T	7.18E-02	1	0.51	0.51	1.02	.24489
3	SIHY	210.2	1.05	30.2	127	523.58	4.12	2.49	251.41
	PER FORBS	0.30	T		3	0.29	0.10	0.97	0.14
2	ALTE	0.3	T	4.31E-02	3				
	ANN FORBS	23.10	0.12		102	46.33	0.45	2.01	22.25
4	GIPU	0.6	T	8.62E-02	6				
4	LARE	4.2	2.10E-02	.603	42				
4	LEDE	4.1	2.05E-02	.539	8				
4	*ATA	14.2	7.10E-02	2.04	102				
	TOTAL		3.7	100.00		1040.93			499.823

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS
OPPO

Shrub Prod.	2.32
Total	<u>2.32</u> 502.14

PRECIPITATION DATA Exclorsure 3 Rain Gauge Data
RAIN GUAGE NO. 168 HALOGE PASTUR NO.6 JULY 18/72
OCT. 15 TO APP. 15 = 1.48
APR. 15 TO JULY 1 = 1.74
JULY 1 TO SEPT. 1 = 1.36
SEPT. 1 TO OCT. 15 = .42
SEASON TOTAL = 5.00
LONG TERM AVERAGE = 5.00

**no utilization

C911 HALOGE PASTUR NO 7A JULY 18/72 OUT NATIVE

NUMBER OF PLOTS
COVER = 200, PRODUCTION = 20
PLOT SIZE 1 FT. X 10 FT.

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVF. PER-CENT BASAL AREA	PERCENT COMPOSITION	ABS. PLOT FREQ. BASE 200	TOTAL WGT. GMS/ 200 SQ.FT.	AVE. WGT. /PLOT OCCUR- RENCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*ARSP	3.0	1.50E-02		1				
6	*OPPO	9.1	4.55E-02		3				
1	ATNU	909.3	4.55	81.1	120	422.04	3.52	0.46	202.65
	PER GRASS	170.6	.853		70	233.66	3.34	1.37	112.20
3	ORHY	0.1	T	T	1	0.62	0.62	6.20	.29770
3	SIHY	170.5	.852	15.2	70	233.04	3.33	1.37	111.90
	PER FORBS	1.10	0.01		11	0.87	0.08	0.79	0.42
2	ALTE	1.1	T	9.81E-02	11				
	ANN FORBS	39.80	0.20		138	124.18	0.90	3.12	59.63
4	GIPU	0.2	T	1.78E-02	2				
4	LARE	2.4	1.20E-02	.214	24				
4	LEDE	1.1	T	9.81E-02	11				
4	NATA	36.0	.180	3.21	138				
4	PLPA	0.1	T	T	1				
	TOTAL		5.7	100.00		780.750			374.892

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

OPPO

	3.12
Shrub Prod.	3.12
Total	378.01

PRECIPITATION DATA Enclosure 3 Rain Gauge Data
RAIN GAUGE NO. 168 HALOGE PASTUR NO 7A JULY 18/72
OCT. 15 TO APR. 15 = 1.48
APR. 15 TO JULY 1 = 1.74
JULY 1 TO SEPT. 1 = 1.36
SEPT. 1 TO OCT. 15 = .42
SEASON TOTAL = 5.00
LONG TERM AVERAGE = 5.00

**no utilization

0912 HALOGE PASTUR NO. 7B JULY 18/72 OUT NATIVE

NUMBER OF PLOTS
COVER = 200, PRODUCTION = 20
PLOT SIZE 1 FT. X 10 FT.

PLANT CODE	PLANT NAME	TOTAL TRANS PASAL AREA PER-CENT	AVE. PER-BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 200	TOTAL WGT. GMS/ 200 SQ.FT.	AVE. WGT. /PLOT CCCUR- RENCES	WGT./ UNIT BASAL AREA	LBS ** PER AC.
6	*ARSP	10.3	5.15E-02		12				
6	*OPPO	7.1	3.55E-02		4				
1	ATNU	714.7	3.57	72.0	126	329.08	2.61	0.46	158.01
	PER GRASS	264.8	1.32		94	352.83	3.75	1.33	169.42
3	ORHY	0.2	T	2.02E-02	2	0.69	0.34	3.45	.33132
3	SIHY	264.6	1.32	26.7	94	352.14	3.75	1.33	169.09
	PER FORBS	5.10	0.03		29	5.03	0.17	0.99	2.42
2	ALTE	2.9	1.45E-02	.292	29				
2	AST	0.1	T	1.01E-02	1				
2	DECA	1.1	T	.111	11				
2	SPCC	1.0	T	.101	6				
	ANN FORBS	7.60	0.04		48	10.72	0.22	1.41	5.15
4	GIPU	0.3	T	3.02E-02	3				
4	LARE	0.6	T	6.05E-02	6				
4	LEDE	1.9	T	.191	19				
4	MATA	4.8	2.40E-02	.484	48				
	TOTAL		5.0	100.00		697.660			334.995

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARSP	.29
OPPO	8.50
Shrub Prod.	<u>8.79</u>
Total	<u>343.79</u>

PRECIPITATION DATA Enclosure 3 Rain Gauge Data
RAIN GAUGE NO. 168 HALOGE PASTUR NO. 7B JULY 18/72
OCT. 15 TO APR. 15 = 1.48
APR. 15 TO JULY 1 = 1.74
JULY 1 TO SEPT. 1 = 1.36
SEPT. 1 TO OCT. 15 = .42
SEASON TOTAL = 5.00
LONG TERM AVERAGE = 5.00

**no utilization

0913 HORSE CREEK EXCL JULY 26/72 IN AGSP

NUMBER PLOTS = 20

PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RENCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*ARTR	55.00	2.75		5				
6	*PHHO	0.60	3.00E-02		2				
	PER GRASS	86.60	4.33		20	77.39	3.87	0.89	371.60
3	AGSM	0.90	4.50E-02	1.02	5	3.69	0.74	4.10	17.718
3	AGSP	84.00	4.20	95.6	18	73.20	4.07	0.87	351.48
3	POSE	1.70	8.50E-02	1.93	4	0.50	0.12	0.29	2.4008
	PER FORBS	0.10	T		1	0.18	0.18	1.80	0.86
2	SPCO	0.10	T	.114	1				
	ANN FORBS	1.20	0.06		12	1.14	0.09	0.95	5.47
4	DEPI	1.20	6.00E-02	1.37	12				
	TOTAL		7.17	100.00		78.710			377.94

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	98.02
GUSA	.67
OPPO	5.38
PHHO	1.82
Shrub Total	<u>105.89</u>
Total	483.83

PRECIPITATION DATA

RAIN GUAGE NO.	12	HORSE CREEK EXCL	JULY 26/72
OCT. 15 TO APR. 15	=	4.11	
APR. 15 TO JULY 1	=	3.01	
JULY 1 TO SEPT. 1	=	2.57	
SEPT. 1 TO OCT. 15	=	.76	
SEASON TOTAL	=	10.45	
LONG TERM AVERAGE	=	11.49	

**no utilization

0913 HORSE CREEK EXCL JULY 26/72 OUT AGSP

NUMBER PLOTS = 20
PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RENCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*ARTR	77.00	3.85		6				
6	*GUSA	15.50	.775		9				
6	*OPPO	0.10	T		1				
6	*PHHO	4.30	.215		10				
	PER GRASS	33.10	1.65		14	30.36	2.17	0.92	145.78
3	AGSM	3.90	.195	10.9	14	9.59	0.68	2.46	46.048
3	AGSP	27.00	1.35	75.4	10	18.17	1.82	0.67	87.247
3	POSE	2.20	.110	6.15	5	2.60	0.52	1.18	12.484
	PER FORBS	2.30	0.11		3	4.06	1.35	1.77	19.49
2	SPCO	0.70	3.50E-02	1.96	3				
2	VIO	1.60	8.00E-02	4.47	3				
	ANN FORBS	0.40	0.02		4	0.16	0.04	0.40	0.77
4	DEPI	0.40	2.00E-02	1.12	4				
	TOTAL		6.63	100.00		34.580			166.04

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	98.02
GUSA	.67
OPPO	5.38
PHHO	1.82
Shrub Total	<u>105.89</u>
Total	<u>271.93</u>

PRECIPITATION DATA

RAIN GUAGE NO.	12	HORSE CREEK EXCL	JULY 26/72
OCT. 15 TO APR. 15	=	4.11	
APR. 15 TO JULY 1	=	3.01	
JULY 1 TO SEPT. 1	=	2.57	
SEPT. 1 TO OCT. 15	=	.76	
SEASON TOTAL	=	10.45	
LONG TERM AVERAGE	=	11.49	

**Production adjusted for utilization

utilization 24.29
Adjusted Total 296.22

0913 HORSE CREEK EXCL JULY 26/72 INSIDE AGSM

NUMBER PLOTS = 20									
PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPO-SITION	PLOT SIZE 1X1 ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RENCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*OPPO	5.00	.250		2				
	PER GRASS	42.60	2.13		20	67.57	3.38	1.59	324.45
3	AGSM	33.60	1.68	73.0	20	64.34	3.22	1.91	308.94
3	POSE	9.00	.450	19.6	14	3.23	0.23	0.36	15.509
	ANN GRASS	0.70	0.03		7	0.91	0.13	1.30	4.37
5	BRTE	0.70	3.50E-02	1.52	7				
	ANN FORBS	2.70	0.13		18	4.12	0.23	1.53	19.78
4	DEPI	2.60	.130	5.65	18				
4	LARE	0.10	T	.217	1				
	TOTAL		5.75	100.00		72.600			348.60

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	126.34
GUSA	1.73
OPPO	8.30
PHHO	1.20
Shrub Total	<u>137.57</u>
Total	486.17

PRECIPITATION DATA

RAIN GUAGE NO. 12	HORSE CREEK EXCL	JULY 26/72
OCT. 15 TO APR. 15	=	4.11
APR. 15 TO JULY 1	=	3.01
JULY 1 TO SEPT. 1	=	2.57
SEPT. 1 TO OCT. 15	=	.76
SEASON TOTAL	=	10.45
LONG TERM AVERAGE	=	11.49

**no utilization

0913 HORSE CREEK EXCL JULY 26/72 OUT AGSM

NUMBER PLOTS = 20
PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT CCCUR-RENCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*ARTR	119.50	5.97		9				
6	*GUSA	5.00	.250		7				
6	*OPPO	5.00	.250		2				
6	*PHHO	2.40	.120		8				
	PER GRASS	33.60	1.68		19	33.11	1.74	0.99	158.98
3	AGSM	18.90	.945	54.3	19	22.30	1.17	1.18	107.08
3	AGSP	5.50	.275	15.8	4	8.60	2.15	1.56	41.295
3	POSE	9.20	.460	26.4	12	2.21	0.18	0.24	10.612
	PER FORBS	0.70	0.03		2	0.61	0.30	0.87	2.93
2	ERPU	0.20	1.00E-02	.575	2				
2	SPCO	0.50	2.50E-02	1.44	1				
	ANN GRASS	0.10	T		1	0.20	0.20	2.00	0.96
5	BRTE	0.10	T	.287	1				
	ANN FORBS	0.40	0.02		2	0.05	0.02	0.12	0.24
4	CHEN	0.10	T	.287	1				
4	DEPI	0.10	T	.287	1				
4	LEDE	0.20	1.00E-02	.575	2				
	TOTAL		8.33	100.00		33.970			163.11

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	167.66
GUSA	19.78
OPPO	6.62
PHHO	8.16
Shrub Total	202.22
Total	365.33

PRECIPITATION DATA

RAIN GUAGE NO. 12	HORSE CREEK EXCL	JULY 26/72
OCT. 15 TO APR. 15	=	4.11
APR. 15 TO JULY 1	=	3.01
JULY 1 TO SEPT. 1	=	2.57
SEPT. 1 TO OCT. 15	=	.76
SEASON TOTAL	=	10.45
LONG TERM AVERAGE	=	11.49

**Production adjusted for utilization

utilization	14.20
Adjusted Total	379.62

0914 KANE DEER EXCL AUGUST 10/72 INSIDE NATIVE

NUMBER PLOTS = 20

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER- CENT	AVE. PER- CENT BASAL AREA	PERCENT COMPO- SITION	PLOT SIZE 1X1 ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR- RENCES	WGT./ UNIT BASAL AREA	LBS**
									PER AC.
6	*GUSA	0.60	3.00E-02		2				
6	*JUOS	366.00	18.3		7				
6	*PHHO	0.10	T		1				
	PER GRASS	4.00	0.20		5	4.70	0.94	1.17	22.57
3	AGGR	0.10	T	1.85	1	0.16	0.16	1.60	.76827
3	AGSP	3.30	.165	61.1	5	4.37	0.87	1.32	20.983
3	POSE	0.60	3.00E-02	11.1	2	0.17	0.08	0.28	.81629
	PER FORBS	0.30	0.01		2	1.28	0.64	4.27	6.15
2	EROV	0.20	1.00E-02	3.70	2				
2	SECA	0.10	T	1.85	1				
	ANN FORBS	1.10	0.05		2	0.03	0.01	0.03	0.14
4	DEPI	1.10	5.50E-02	20.4	2				
	TOTAL		18.60	100.00		6.0100			28.858

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS
No shrub data taken

PRECIPITATION DATA		KANE	DEER	EXCL	AUGUST 10/72
RAIN GUAGE NO. 21					
OCT. 15 TO APR. 15	=	5.47			
APR. 15 TO JULY 1	=	4.15			
JULY 1 TO SEPT. 1	=	3.72			
SEPT. 1 TO OCT. 15	=	.80			
SEASON TOTAL	=	14.14			
LONG TERM AVERAGE	=	12.67			

**no utilization

0914 KANE DEER EXCL AUGUST 10/72 OUT NATIVE

NUMBER PLOTS = 20

PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RENCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*JUOS	310.00	15.5		8				
	PER GRASS	1.40	0.07		4	2.14	0.53	1.53	10.28
3	AGGR	0.20	1.00E-02	10.0	2	0.14	0.07	0.70	.67224
3	AGSP	1.20	6.00E-02	60.0	4	2.00	0.50	1.67	9.6034
	PER FORBS	0.50	0.02		3	1.14	0.38	2.28	5.47
2	ERCO	0.20	1.00E-02	10.0	2				
2	SECA	0.30	1.50E-02	15.0	3				
	ANN FORBS	0.10	T		1	0.02	0.02	0.20	0.10
4	CRBR	0.10	T	5.00	1				
	TOTAL		15.60	100.00		3.3000			15.846

* NOT COMPUTED IN PERCENT COMPOSITION

T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

No shrub data taken

PRECIPITATION DATA

RAIN GUAGE NO. 21	KANE	DEER	EXCL	AUGUST 10/72
OCT. 15 TO APR. 15 =	5.47			
APR. 15 TO JULY 1 =	4.15			
JULY 1 TO SEPT. 1 =	3.72			
SEPT. 1 TO OCT. 15 =	.80			
SEASON TOTAL =	14.14			
LONG TERM AVERAGE =	12.67			

**no utilization

0914 KANE DEER EXCL AUGUST 10/72 INSIDE SPRAY

NUMBER PLOTS = 20

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPOSITION	PLOT SIZE 1X1 ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCURRENCES	WGT./ UNIT BASAL AREA	LBS**
									PER AC.
6	*ARNO	30.10	1.50		2				
6	*GUSA	1.60	8.00E-02		3				
	PER GRASS	50.00	2.50		12	59.04	4.92	1.18	283.49
3	AGGR	6.30	.315	9.75	12	9.10	0.76	1.44	43.695
3	AGSP	35.10	1.75	54.3	3	41.83	13.94	1.19	200.85
3	POSE	4.50	.225	6.97	5	1.54	0.31	0.34	7.3946
3	STCO	4.10	.205	6.35	3	6.57	2.19	1.60	31.547
	PER FORBS	8.90	0.44		5	11.44	2.29	1.29	54.93
2	ERCC	1.20	6.00E-02	1.86	4				
2	HAAC	0.50	2.50E-02	.774	1				
2	SECA	6.20	.310	9.60	5				
2	TAOF	1.00	5.00E-02	1.55	1				
	ANN GRASS	0.10	T		1	0.07	0.07	0.70	0.34
5	BRTE	0.10	T	.155	1				
	ANN FORBS	5.60	0.28		5	19.63	3.93	3.51	94.26
4	DEPI	0.30	1.50E-02	.464	3				
4	GIL	2.20	.110	3.41	5				
4	LAC	2.30	.115	3.56	5				
4	LARE	0.80	4.00E-02	1.24	4				
	TOTAL		4.81	100.00		90.180			433.02

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS
No shrub data taken

PRECIPITATION DATA

RAIN GUAGE NO.	21	KANE	DEER	EXCL	AUGUST 10/72
OCT. 15 TO APR. 15	=	5.47			
APR. 15 TO JULY 1	=	4.15			
JULY 1 TO SEPT. 1	=	3.72			
SEPT. 1 TO OCT. 15	=	.80			
SEASON TOTAL	=	14.14			
LONG TERM AVERAGE	=	12.67			

**no utilization

0914 KANE DEER EXCL AUGUST 10/72 OUT SPRAY

NUMBER PLOTS = 20

PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR- RENCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*ARFR	0.10	T		1				
6	*GUSA	9.10	.455		6				
	PER GRASS	4.40	0.22		5	4.89	0.98	1.11	23.48
3	AGGR	1.30	6.50E-02	7.34	5	2.83	0.57	2.18	13.589
3	AGSP	1.50	7.50E-02	8.47	2	1.66	0.83	1.11	7.9708
3	POSE	1.60	8.00E-02	9.04	4	0.40	0.10	0.25	1.9207
	PER FORBS	6.80	0.34		5	8.20	1.64	1.21	39.37
2	ERCO	3.10	.155	17.5	4				
2	HAAC	0.50	2.50E-02	2.82	1				
2	SECA	3.20	.160	18.1	5				
	ANN FORBS	6.50	0.32		9	13.75	1.53	2.12	66.02
4	CRBR	0.70	3.50E-02	3.95	3				
4	CRY	0.70	3.50E-02	3.95	7				
4	DEPI	0.50	2.50E-02	2.82	5				
4	LAC	3.30	.165	18.6	4				
4	LARE	1.30	6.50E-02	7.34	9				
	TOTAL		1.34	100.00		26.840			128.88

* NOT COMPUTED IN PERCENT COMPOSITION

T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

No shrub data taken

PRECIPITATION DATA

RAIN GUAGE NO. 21	KANE	DEER	EXCL	AUGUST 10/72
OCT. 15 TO APR. 15 =	5.47			
APR. 15 TO JULY 1 =	4.15			
JULY 1 TO SEPT. 1 =	3.72			
SEPT. 1 TO OCT. 15 =	.80			
SEASON TOTAL =	14.14			
LONG TERM AVERAGE =	12.67			

**no utilization

0921 KANE G.R.I. AUGUST 10/72 INSIDE SPRAY

NUMBER PLOTS = 20

PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPOSITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR- RENCES	WGT./ UNIT BASAL AREA	LBS PER AC.	**
6	*ARNO	4.00	.200		1					
6	*GUSA	10.20	.510		5					
6	*JUOS	85.00	4.25		1					
	PER GRASS	7.20	0.36		10	11.82	1.18	1.64	56.76	
3	AGSP	5.90	.295	28.9	10	11.00	1.10	1.86	52.819	
3	POSE	1.30	6.50E-02	6.37	4	0.82	0.20	0.63	3.9374	
	ANN FORBS	13.20	0.66		10	49.66	4.97	3.76	238.45	
4	DEPI	1.10	5.50E-02	5.39	7					
4	LAC	2.60	.130	12.7	10					
4	SAKA	9.50	.475	46.6	8					
	TOTAL		5.98	100.00		61.480			295.21	

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

No shrub data taken

PRECIPITATION DATA

RAIN GUAGE NO.	149 KANE	G.R.I.	AUGUST 10/72
OCT. 15 TO APR. 15	=	5.45	
APR. 15 TO JULY 1	=	3.79	
JULY 1 TO SEPT. 1	=	3.94	
SEPT. 1 TO OCT. 15	=	.65	
SEASON TOTAL	=	13.83	
LONG TERM AVERAGE	=	13.87	

**no utilization

0921 KANE G.R.I. AUGUST 10/72 OUT NATIVE

NUMBER PLOTS = 20
PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR- RENCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*CELE	90.00	4.50		1				
6	*GUSA	2.20	.110		4				
6	*JUOS	479.10	24.0		12				
	PER GRASS	0.20	0.01		2	0.20	0.10	1.00	0.96
3	AGSP	0.20	1.00E-02	33.3	2	0.20	0.10	1.00	.96034
	PER FORBS	0.10	T		1	0.14	0.14	1.40	0.67
2	EROV	0.10	T	16.7	1				
	ANN FORBS	0.30	0.01		3	0.06	0.02	0.20	0.29
4	DEPI	0.30	1.50E-02	50.0	3				
	TOTAL		28.59	100.00		.40000			1.9207

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS
No shrub data taken

PRECIPITATION DATA

RAIN GUAGE NO. 149	KANE	G.R.I.	AUGUST 10/72
OCT. 15 TO APR. 15 =	5.45		
APR. 15 TO JULY 1 =	3.79		
JULY 1 TO SEPT. 1 =	3.94		
SEPT. 1 TO OCT. 15 =	.65		
SEASON TOTAL =	13.83		
LONG TERM AVERAGE =	13.87		

**no utilization

1502 KIRBY CREEK EXCL JULY 25/72 INSIDE NATIVE**

NUMBER PLOTS = 20

PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RENCES	WGT./ UNIT BASAL AREA	LBS PER AC.
6	*SAVE	103.00	5.15		4				
	PER GRASS	10.50	0.52		13	57.87	4.45	5.51	277.87
3	AGSM	3.30	.165	17.6	13	44.09	3.39	13.36	211.71
3	POSE	7.20	.360	38.5	7	13.78	1.97	1.91	66.167
	PER FORBS	0.10	0.00		1	0.07	0.07	0.70	0.34
2	VIAM	0.10	T	.535	1				
	ANN GRASS	0.90	0.04		5	11.55	2.31	12.83	55.46
5	BRTE	0.90	4.50E-02	4.81	5				
	ANN FORBS	7.20	0.36		16	70.19	4.39	9.75	337.03
4	ATAR	0.20	1.00E-02	1.07	2				
4	CAMI	0.50	2.50E-02	2.67	5				
4	DEPI	0.70	3.50E-02	3.74	7				
4	LARE	0.50	2.50E-02	2.67	5				
4	LEPE	5.30	.265	28.3	16				
	TOTAL		6.08	100.00		139.68			670.70

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

OPPO
SAVE

86.02
86.79
Shrub Total
Total 757.49

PRECIPITATION DATA

RAIN GUAGE NO. 77 KIRBY CREEK EXCL JULY 25/72
OCT. 15 TO APR. 15 = 3.05
APR. 15 TO JULY 1 = 2.69
JULY 1 TO SEPT. 1 = 1.32
SEPT. 1 TO OCT. 15 = 1.00
SEASON TOTAL = 8.06
LONG TERM AVERAGE = 8.93

** No utilization

1502 KIRBY CREEK EXCL JULY 25/72 OUT NATIVE

NUMBER PLOTS = 20

PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RNCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*OPPO	2.00	.100		1				
6	*SAVE	50.60	2.53		6				
	PER GRASS	8.20	0.41		8	28.52	3.56	3.48	136.94
3	AGSM	1.60	8.00E-02	9.20	8	14.59	1.82	9.12	70.057
3	POSE	4.10	.205	23.6	7	9.48	1.35	2.31	45.520
3	SPAR	2.50	.125	14.4	2	4.45	2.22	1.78	21.368
	ANN GRASS	0.20	0.01		2	0.83	0.41	4.15	3.99
5	BRTE	0.20	1.00E-02	1.15	2				
	ANN FORBS	9.00	0.45		20	140.93	7.05	15.66	676.70
4	ATAR	0.10	T	.575	1				
4	LARE	0.30	1.50E-02	1.72	3				
4	LEPE	8.50	.425	48.9	20				
4	PLSP	0.10	T	.575	1				
	TOTAL		3.50	100.00		170.28			817.63

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

OPPO	6.48
SAVE	121.58
Shrub Total	128.06
Total	945.69

PRECIPITATION DATA

RAIN GUAGE NO.	77	KIRBY CREEK EXCL	JULY 25/72
OCT. 15 TO APR. 15	=	3.05	
APR. 15 TO JULY 1	=	2.69	
JULY 1 TO SEPT. 1	=	1.32	
SEPT. 1 TO OCT. 15	=	1.00	
SEASON TOTAL	=	8.06	
LONG TERM AVERAGE	=	8.93	

**no utilization

1001 LANDER ANT EXCL AUGUST 17/72 INSIDE NATIVE

NUMBER PLOTS = 20

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPOSITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR- RENCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*ARTR	166.60	8.33		12				
6	*OPPO	5.50	.275		3				
6	*PHHO	3.00	.150		2				
	PER GRASS	39.50	1.97		19	51.03	2.69	1.29	245.03
3	AGSM	7.20	.360	17.0	17	15.26	0.90	2.12	73.274
3	CAEL	0.80	4.00E-02	1.89	4	0.92	0.23	1.15	4.4176
3	ORHY	0.20	1.00E-02	.473	2	0.64	0.32	3.20	3.0731
3	POSE	11.70	.585	27.7	11	7.76	0.71	0.66	37.261
3	STCO	19.60	.980	46.3	10	26.45	2.64	1.35	127.00
	PER FORBS	0.90	0.04		5	0.49	0.10	0.54	2.35
2	ALTE	0.10	T	.236	1				
2	ERPU	0.50	2.50E-02	1.18	1				
2	SPCO	0.30	1.50E-02	.709	3				
	ANN FORBS	1.90	0.09		14	1.34	0.10	0.71	6.43
4	LEDE	0.30	1.50E-02	.709	3				
4	PLPA	1.60	8.00E-02	3.78	12				
	TOTAL		10.87	100.00		52.860			253.82

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	302.21
OPPO	18.92
PHHO	8.32
Shrub Total	<u>329.52</u>
Total	<u>583.34</u>

PRECIPITATION DATA

RAIN GAUGE NO. 5	LANDER ANT	EXCL	AUGUST 17/72
OCT. 15 TO APR. 15	=	5.52	
APR. 15 TO JULY 1	=	2.40	
JULY 1 TO SEPT. 1	=	.95	
SEPT. 1 TO OCT. 15	=	.79	
SEASON TOTAL	=	9.66	
LONG TERM AVERAGE	=	8.91	

**no utilization

1001 LANDER ANT EXCL AUGUST 17/72 OUT NATIVE

NUMBER PLOTS = 20

PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RENCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*ARTR	182.80	9.14		15				
6	*OPPO	5.50	.275		7				
	PER GRASS	65.50	3.27		19	61.42	3.23	0.94	294.92
3	AGSM	6.60	.330	9.81	19	27.02	1.42	4.09	129.74
3	BOGR	43.10	2.15	64.0	6	16.85	2.81	0.39	80.909
3	DRHY	2.10	.105	3.12	3	1.27	0.42	0.60	6.0982
3	POSE	9.20	.460	13.7	12	10.09	0.84	1.10	48.449
3	STCC	4.50	.225	6.69	5	6.19	1.24	1.38	29.722
	PER FORBS	0.30	0.01		3	0.19	0.06	0.63	0.91
2	SPCO	0.30	1.50E-02	.446	3				
	ANN FORBS	1.50	0.07		13	2.97	0.23	1.98	14.26
4	LEDE	0.20	1.00E-02	.297	2				
4	PLPA	1.30	6.50E-02	1.93	13				
	TOTAL		12.78	100.00		64.580			310.09

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	163.97
OPPO	28.42
PHHO	4.27
Shrub Total	<u>196.66</u>
Total	<u>506.75</u>

PRECIPITATION DATA

RAIN GUAGE NO.	LANDER ANT	EXCL	AUGUST 17/72
OCT. 15 TO APR. 15	= 5.52		
APR. 15 TO JULY 1	= 2.40		
JULY 1 TO SEPT. 1	= .95		
SEPT. 1 TO OCT. 15	= .79		
SEASON TOTAL	= 9.66		
LONG TERM AVERAGE	= 8.91		

**no utilization

1003 LOWER GOVT DRAW AUGUST 18/72 IN NATIVE

NUMBER PLOTS = 20

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-BASAL AREA	PERCENT COMPO-SITION	PLOT SIZE 1X1 ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RENCES	WGT./ UNIT BASAL AREA	LBS PER AC.	**
6	*ARTR	77.00	3.85		12					
	PER GRASS	39.40	1.97		20	58.84	2.94	1.49	282.53	
3	AGSM	9.30	.465	18.9	19	25.46	1.34	2.74	122.25	
3	CAEL	0.70	3.50E-02	1.42	3	0.79	0.26	1.13	3.7933	
3	POSE	9.70	.485	19.7	12	6.81	0.57	0.70	32.700	
3	STCC	19.70	.985	40.0	6	25.78	4.30	1.31	123.79	
	PER FORBS	0.20	0.01		2	1.44	0.72	7.20	6.91	
2	AST	0.20	1.00E-02	.407	2					
	ANN GRASS	9.40	0.47		19	24.32	1.28	2.59	116.78	
5	BRTE	9.30	.465	18.9	19					
5	FEOC	0.10	T	.203	1					
	ANN FORBS	0.20	0.01		1	0.14	0.14	0.70	0.67	
4	CAMI	0.10	T	.203	1					
4	MIGR	0.10	T	.203	1					
	TOTAL		6.31	100.00		84.740			406.90	

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	299.23
OPPO	2.74
PHHO	3.17
Shrub Total	<u>305.14</u>
Total	<u>712.04</u>

PRECIPITATION DATA

RAIN GUAGE NO. 16	LOWER GOVT	DRAW	AUGUST 18/72
OCT. 15 TO APR. 15	=	3.45	
APR. 15 TO JULY 1	=	4.40	
JULY 1 TO SEPT. 1	=	1.16	
SEPT. 1 TO OCT. 15	=	.60	
SEASON TOTAL	=	9.61	
LONG TERM AVERAGE	=	10.54	

**no utilization

1003 LOWER GOVT DRAW AUGUST 18/72 OUT NATIVE

NUMBER PLOTS = 20

PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RENCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*ARTR	145.70	7.28		11				
	PER GRASS	32.70	1.63		17	23.77	1.40	0.73	114.14
3	AGSM	2.00	.100	5.24	8	3.34	0.42	1.67	16.038
3	KOCR	1.00	5.00E-02	2.62	2	1.09	0.54	1.09	5.2338
3	POSE	25.50	1.27	66.8	17	15.19	0.89	0.60	72.938
3	STCO	4.20	.210	11.0	8	4.15	0.52	0.99	19.927
	PER FORBS	0.50	0.02		3	0.87	0.29	1.74	4.18
2	AGGL	0.10	T	.262	1				
2	AST	0.10	T	.262	1				
2	SPCC	0.30	1.50E-02	.785	3				
	ANN GRASS	3.60	0.18		19	12.64	0.67	3.51	60.69
5	BRTE	3.50	.175	9.16	19				
5	FEOC	0.10	T	.262	1				
	ANN FORBS	1.40	0.07		11	0.52	0.05	0.37	2.50
4	CAMI	0.10	T	.262	1				
4	LEDE	0.10	T	.262	1				
4	MIGR	1.10	5.50E-02	2.88	11				
4	PLPA	0.10	T	.262	1				
	TOTAL		9.19	100.00		37.800			181.50

* NOT COMPUTED IN PERCENT COMPOSITION

T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	253.30
CHVI	1.54
OPPO	6.14
Shrub Total	<u>260.98</u>
Total	<u>442.48</u>

PRECIPITATION DATA

RAIN GUAGE NO.	16	LOWER GOVT DRAW	AUGUST 18/72
OCT. 15 TO APR. 15 =	3.45		
APR. 15 TO JULY 1 =	4.40		
JULY 1 TO SEPT. 1 =	1.16		
SEPT. 1 TO OCT. 15 =	.60		
SEASON TOTAL =	9.61		
LONG TERM AVERAGE =	10.54		

utilization 6.20

**Production adjusted for utilization

Adjusted Total 448.68

1003 LOWER GOVT DRAW AUGUST 18/72 INSIDE SPRAY

NUMBER PLOTS = 20

PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RFNCS	WGT./ UNIT BASAL AREA	LBS** PER AC.
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6	*OPPO	2.00	.100		1				
	PER GRASS	43.80	2.19		15	81.58	5.44	1.86	391.72
3	AGSM	13.80	.690	19.1	15	31.83	2.12	2.31	152.84
3	POSE	5.50	.275	7.63	4	2.45	0.61	0.45	11.764
3	STCO	24.50	1.22	34.0	12	47.30	3.94	1.93	227.12
	ANN GRASS	28.10	1.40		20	66.77	3.34	2.38	320.61
5	BRTE	28.10	1.40	39.0	20				
	ANN FORBS	0.20	0.01		2	0.24	0.12	1.20	1.15
4	CAMI	0.20	1.00E-02	.277	2				
	TOTAL		3.70	100.00		148.59			713.48

* NOT COMPUTED IN PERCENT COMPOSITION

T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR

Shrub Total	39.36
Total	752.84

PRECIPITATION DATA

RAIN GUAGE NO.	16	LOWER	GOVT	DRAW	AUGUST 18/72
OCT. 15 TO APR. 15	=	3.45			
APR. 15 TO JULY 1	=	4.40			
JULY 1 TO SEPT. 1	=	1.16			
SEPT. 1 TO OCT. 15	=	.60			
SEASON TOTAL	=	9.61			
LONG TERM AVERAGE	=	10.54			

**no utilization

1003 LOWER GOVT DRAW AUGUST 18/72 OUT SPRAY

NUMBER PLOTS = 20
PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RENCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*ARTR	22.60	1.13		4				
	PER GRASS	30.10	1.50		20	19.80	0.99	0.66	95.07
3	AGSM	6.50	.325	19.8	20	9.72	0.49	1.50	46.672
3	POSE	19.90	.995	60.7	18	7.79	0.43	0.39	37.405
3	STCO	3.70	.185	11.3	7	2.29	0.33	0.62	10.996
	PER FORBS	0.40	0.02		4	0.95	0.24	2.37	4.56
2	SPCO	0.40	2.00E-02	1.22	4				
	ANN GRASS	2.20	0.11		10	4.65	0.46	2.11	22.33
5	BRTE	2.20	.110	6.71	10				
	ANN FORBS	0.10	T		1	0.07	0.07	0.70	0.34
4	LEDE	0.10	T	.305	1				
	TOTAL		2.77	100.00		25.470			122.30

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	40.70
CHVI	1.97
Shrub Total	<u>42.67</u>
Total	<u>164.97</u>

PRECIPITATION DATA

RAIN GUAGE NO.	16	LOWER GOVT DRAW	AUGUST 18/72
OCT. 15 TO APR. 15	=	3.45	
APR. 15 TO JULY 1	=	4.40	
JULY 1 TO SEPT. 1	=	1.16	
SEPT. 1 TO OCT. 15	=	.60	
SEASON TOTAL	=	9.61	
LONG TERM AVERAGE	=	10.54	

**Production adjusted for utilization

utilization	<u>17.42</u>
Adjusted Total	<u>182.39</u>

1004 MCGRAW FLATS EXCL AUGUST 16/72 INSIDE NATIVE

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER- CENT	AVE. PER- CENT BASAL AREA	PERCENT COMPO- SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR- RENCES	WGT./ UNIT BASAL AREA	LBS**
									PER AC.
6	*ARTR	212.50	10.6		15				
6	*PHHO	8.60	.430		9				
	PER GRASS	86.00	4.30		20	88.71	4.44	1.03	425.96
3	AGSM	11.50	.575	13.1	19	33.33	1.75	2.90	160.04
3	KOCR	2.00	.100	2.28	1	8.77	8.77	4.38	42.111
3	POFE	69.50	3.47	79.2	16	44.17	2.76	0.64	212.09
3	POSE	3.00	.150	3.42	5	2.44	0.49	0.81	11.716
	PER FORBS	1.40	0.07		9	1.64	0.18	1.17	7.87
2	SPCC	0.20	1.00E-02	.228	2				
2	VIAM	1.20	6.00E-02	1.37	8				
	ANN FORBS	0.40	0.02		4	0.57	0.14	1.42	2.74
4	ARHO2	0.10	T	.114	1				
4	CORA	0.30	1.50E-02	.342	3				
	TOTAL		15.44	100.00		90.920			436.57

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	258.91
CHVI	1.10
PHHO	24.24
Shrub Total	<u>284.25</u>
Total	<u>720.82</u>

PRECIPITATION DATA

RAIN GUAGE NO.	14	MCGRAW FLATS EXCL	AUGUST 16/72
OCT. 15 TO APR. 15	=	2.81	
APR. 15 TO JULY 1	=	4.50	
JULY 1 TO SEPT. 1	=	.76	
SEPT. 1 TO OCT. 15	=	.60	
SEASON TOTAL	=	8.67	
LONG TERM AVERAGE	=	9.66	

**no utilization

1004 MCGRAW FLATS EXCL AUGUST 16/72 OUT NATIVE

NUMBER PLOTS = 20

PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RENCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*ARTR	186.50	9.32		17				
6	*CHVI	0.60	3.00E-02		2				
6	*PHHO	8.10	.405		10				
	PER GRASS	56.30	2.81		20	56.56	2.83	1.00	271.58
3	AGSM	7.40	.370	12.2	20	25.04	1.25	3.38	120.23
3	POFE	37.00	1.85	61.2	17	24.91	1.47	0.67	119.61
3	POSE	11.90	.595	19.7	15	6.61	0.44	0.56	31.739
	PER FORBS	3.00	0.15		10	4.44	0.44	1.48	21.32
2	ERPU	1.30	6.50E-02	2.15	4				
2	SPCO	0.30	1.50E-02	.496	3				
2	VIAM	1.40	7.00E-02	2.31	10				
	ANN FORBS	1.20	0.06		7	1.28	0.18	1.07	6.15
4	CAMI	0.10	T	.165	1				
4	CORA	0.70	3.50E-02	1.16	7				
4	CRE	0.10	T	.165	1				
4	TRI	0.30	1.50E-02	.496	3				
	TOTAL		12.78	100.00		62.280			299.05

* NOT COMPUTED IN PERCENT COMPOSITION

T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	215.76
CHVI	13.06
LEPU	3.55
PHHO	23.86
Shrub Total	<u>256.23</u>
Total	555.28

PRECIPITATION DATA

RAIN GAUGE NO. 14	MCGRAW FLATS EXCL	AUGUST 16/72
OCT. 15 TO APR. 15	=	2.81
APR. 15 TO JULY 1	=	4.50
JULY 1 TO SEPT. 1	=	.76
SEPT. 1 TO OCT. 15	=	.60
SEASON TOTAL	=	8.67
LONG TERM AVERAGE	=	9.66

utilization 2.98

Adjusted Total 558.26

**Production adjusted for utilization

0920 MEDICI LODGE G.R.I. AUGUST 10/72 INSIDE SPRAY

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPOSITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RENCES	WGT./ UNIT BASAL AREA	LBS**
									PER AC.
6	*ARTR	7.00	.350		2				
	PER GRASS	47.80	2.39		10	38.36	3.84	0.80	184.19
3	AGSP	3.50	.175	5.85	2	6.73	3.36	1.92	32.315
3	FEID	31.20	1.56	52.2	8	22.09	2.76	0.71	106.07
3	KOCR	5.20	.260	8.70	5	3.22	0.64	0.62	15.461
3	ORHY	0.10	T	.167	1	0.33	0.33	3.30	1.5846
3	POSE	6.80	.340	11.4	10	4.32	0.43	0.64	20.743
3	STCO	1.00	5.00E-02	1.67	1	1.67	1.67	1.67	8.0188
	PER FORBS	0.50	0.02		4	1.13	0.28	2.26	5.43
2	ALTE	0.10	T	.167	1				
2	SEST	0.40	2.00E-02	.669	4				
	ANN GRASS	3.20	0.16		11	2.48	0.23	0.77	11.91
5	BRTE	3.00	.150	5.02	11				
5	FEOC	0.20	1.00E-02	.334	2				
	ANN FORBS	8.30	0.41		19	18.40	0.97	2.22	88.35
4	ALDE	7.90	.395	13.2	19				
4	CRBR	0.10	T	.167	1				
4	PLPA	0.10	T	.167	1				
4	POAV	0.20	1.00E-02	.334	2				
	TOTAL		3.34	100.00		60.370			289.88

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS
No shrub data taken

PRECIPITATION DATA

RAIN GUAGE NO. 148		MEDICI LODGE G.R.I. AUGUST 10/72	
OCT. 15 TO APR. 15	=	3.42	
APR. 15 TO JULY 1	=	3.52	
JULY 1 TO SEPT. 1	=	3.52	
SEPT. 1 TO OCT. 15	=	1.53	
SEASON TOTAL	=	11.99	
LONG TERM AVERAGE	=	14.02	

**no utilization

0920 MEDICI LODGE G.R.I. AUGUST 10/72 OUT NATIVE

NUMBER PLOTS = 20
PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RANCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*APTR	56.00	2.80		3				
6	*GUSA	1.00	5.00E-02		1				
6	*JUOS	145.00	7.25		2				
	PER GRASS	30.20	1.51		11	9.01	0.82	0.30	43.26
3	AGSP	1.10	5.50E-02	3.16	7	1.64	0.23	1.49	7.8748
3	FEID	2.10	.105	6.03	4	1.80	0.45	0.86	8.6430
3	KOCR	19.80	.990	56.9	8	3.18	0.40	0.16	15.269
3	POSE	6.40	.320	18.4	11	1.91	0.17	0.30	9.1712
3	STCO	0.80	4.00E-02	2.30	4	0.48	0.12	0.60	2.3048
	PER FORBS	2.20	0.11		2	1.92	0.96	0.87	9.22
2	ERPU	0.20	1.00E-02	.575	2				
2	SECA	2.00	.100	5.75	1				
	ANN GRASS	0.70	0.03		6	0.79	0.13	1.13	3.79
5	BRTE	0.10	T	.287	1				
5	FEOC	0.60	3.00E-02	1.72	6				
	ANN FORBS	1.70	0.08		12	2.60	0.22	1.53	12.48
4	ALDE	1.20	6.00E-02	3.45	12				
4	MIGR	0.40	2.00E-02	1.15	4				
4	POAV	0.10	T	.287	1				
	TOTAL		11.84	100.00		14.320			68.760

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS
No shrub data taken

PRECIPITATION DATA

RAIN GAUGE NO.	148	MEDICI LODGE	G.R.I. AUGUST 10/72
OCT. 15 TO APR. 15 =	3.42		
APR. 15 TO JULY 1 =	3.52		
JULY 1 TO SEPT. 1 =	3.52		
SEPT. 1 TO OCT. 15 =	1.53		
SEASON TOTAL =	11.99		
LONG TERM AVERAGE =	14.02		

**no utilization

1503 NORTH BUTTE RELIC JULY 24/72

NATIVE

NUMBER PLOTS = 20

PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPOSITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR- RENCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*ARTR	54.10	2.70		5				
6	*OPPO	2.00	.100		2				
6	*PHHO	0.20	1.00E-02		2				
	PER GRASS	121.80	6.09		19	107.49	5.66	0.88	516.13
3	AGSP	96.20	4.81	77.8	16	91.60	5.72	0.95	439.84
3	BOGR	6.00	.300	4.85	2	2.20	1.10	0.37	10.564
3	CAFI	5.10	.255	4.12	3	3.05	1.02	0.60	14.645
3	POSE	13.60	.680	11.0	16	7.79	0.49	0.57	37.405
3	STCO	0.90	4.50E-02	.728	5	2.85	0.57	3.17	13.685
	PER FORBS	0.20	0.01		2	0.07	0.03	0.35	0.34
2	SPCO	0.20	1.00E-02	.162	2				
	ANN FORBS	1.70	0.08		16	2.24	0.14	1.32	10.76
4	DEPI	1.60	8.00E-02	1.29	16				
4	LARE	0.10	T	8.08E-02	1				
	TOTAL		9.00	100.00		109.80			527.23

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	48.48
OPPO	7.73
PHHO	1.58
Shrub Total	57.79
Total	585.02

PRECIPITATION DATA

RAIN GUAGE NO.	183	NORTH BUTTE RELIC	JULY 24/72
OCT. 15 TO APR. 15	=	3.80	
APR. 15 TO JULY 1	=	3.02	
JULY 1 TO SEPT. 1	=	.84	
SEPT. 1 TO OCT. 15	=	.85	
SEASON TOTAL	=	8.51	
LONG TERM AVERAGE	=	8.51	

**no utilization

1504 ROUND TOP RELIC JULY 24/72 NATIVE

NUMBER PLOTS = 20
PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RENCES	WGT./ UNIT BASAL AREA	LBS** PER AC.
6	*ARTR	90.10	4.50		6				
	PER GRASS	146.20	7.31		19	154.13	8.11	1.05	740.08
3	AGSP	113.60	5.68	76.1	17	123.54	7.27	1.09	593.20
3	CAFI	21.60	1.08	14.5	12	18.99	1.58	0.88	91.184
3	POSE	5.50	.275	3.68	8	6.43	0.80	1.17	30.875
3	STCO	5.50	.275	3.68	5	5.17	1.03	0.94	24.825
	PER FORBS	0.70	0.03		3	1.59	0.53	2.27	7.63
2	ALTE	0.10	T	6.70E-02	1				
2	CRE	0.60	3.00E-02	.402	2				
	ANN FORBS	2.40	0.12		16	7.43	0.46	3.10	35.68
4	DEPI	2.40	.120	1.61	16				
	TOTAL		11.97	100.00		163.15			783.40

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	52.27
GUSA	.62
Shrub Total	<u>52.89</u>
Total	836.29

PRECIPITATION DATA

RAIN GUAGE NO.	ROUND TOP	RELIC	JULY 24/72
182			
OCT. 15 TO APR. 15	=	6.28	
APR. 15 TO JULY 1	=	3.30	
JULY 1 TO SEPT. 1	=	.81	
SEPT. 1 TO OCT. 15	=	.87	
SEASON TOTAL	=	11.26	
LONG TERM AVERAGE	=	11.26	

**no utilization

1505 SAND GULCH EXCL JULY 20/72 INSIDE NATIVE **

NUMBER OF PLOTS
COVER = 200, PRODUCTION = 20
PLOT SIZE 1 FT. X 10 FT.

PLANT CLDE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPOSITION	ABS. PLOT FREQ. BASE 200	TOTAL WGT. GMS/ 200 SQ.FT.	AVE. WGT. /PLOT OCCUR- RENCES	WGT./ UNIT BASAL AREA	LBS PER AC.
6	*OPPO	33.9	.169		18				
1	ATNU	640.1	3.20	61.6	86	532.62	6.19	0.83	255.75
	PER GRASS	336.6	1.68		169	636.37	3.77	1.89	305.57
3	AGCR	0.5	T	4.81E-02	1	1.95	1.95	3.90	.93633
3	AGSM	263.1	1.32	25.3	169	531.83	3.15	2.02	255.37
3	POGR	5.1	2.55E-02	.490	3	3.56	1.19	0.70	1.7094
3	GRHY	13.8	6.90E-02	1.33	12	24.90	2.07	1.80	11.956
3	POSE	48.8	.244	4.69	32	59.11	1.85	1.21	28.383
3	SIHY	5.0	2.50E-02	.481	2	14.36	7.18	2.87	6.8952
3	SPAI	0.3	T	2.89E-02	3	0.66	0.22	2.20	.31691
	PER FORBS	1.30	0.01		4	1.24	0.31	0.95	0.60
2	ALTE	0.8	T	7.69E-02	4				
2	SPCO	0.4	T	3.85E-02	4				
2	VINU	0.1	T	T	1				
	ANN GRASS	33.30	0.17		158	195.18	1.24	5.86	93.72
5	LRJA	0.9	T	8.66E-02	9				
5	BRTE	32.4	.162	3.12	158				
	ANN FORBS	28.50	0.14		84	99.60	1.19	3.49	47.82
4	CAMI	15.3	7.65E-02	1.47	84				
4	DEPI	3.9	1.95E-02	.375	39				
4	EUSE	0.4	T	3.85E-02	5				
4	LARF	0.6	T	5.77E-02	6				
4	LEDE	6.8	3.40E-02	.654	56				
4	LEPE	1.3	T	.125	9				
4	PLSP	0.2	T	1.92E-02	2				
	TOTAL		5.4	100.00		1465.01			703.453

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

OPPO		15.46
	Shrub total	<u>15.46</u>
	Total	718.91

PRECIPITATION DATA

RAIN GAUGE NO. 75	SAND	GULCH	EXCL	JULY	20/72
OCT. 15 TO APR. 15	=	2.55			
APR. 15 TO JULY 1	=	2.63			
JULY 1 TO SEPT. 1	=	1.05			
SEPT. 1 TO OCT. 15	=	.93			
SEASON TOTAL	=	7.16			
LONG TERM AVERAGE	=	8.95			

** No Utilization

1505 SAND GULCH EXCL JULY 22/72 OUT NATIVE**

NUMBER OF PLOTS
COVER = 200, PRODUCTION = 20
PLOT SIZE 1 FT. X 10 FT.

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER- CENT	AVE. PER- CENT BASAL AREA	PERCENT COMPO- SITION	ABS. PLOT FREQ. BASE 200	TOTAL WGT. GMS/ 200 SQ.FT.	AVE. WGT. /PLOT OCCUR- RENCES	WGT./ UNIT BASAL AREA	LBS PER AC.
6	*OPPC	38.1	.190		12				
1	ATNU	1017.6	5.09	73.2	118	1065.69	9.03	1.05	511.71
	PER GRASS	289.1	1.45		41	297.12	7.25	1.03	142.67
3	AGSM	18.7	9.35E-02	1.35	24	42.19	1.76	2.26	20.258
3	BOGR	174.8	.874	12.6	41	87.93	2.14	0.50	42.221
3	POSE	14.6	7.30E-02	1.05	9	10.29	1.14	0.70	4.9409
3	SIHY	81.0	.405	5.83	39	156.71	4.02	1.93	75.247
	PER FORBS	0.10	T		1	0.13	0.13	1.30	0.06
2	ALTE	0.1	T	T	1				
	ANN GRASS	43.10	0.22		184	282.43	1.53	6.55	135.61
5	BRJA	0.1	T	T	1				
5	BRTE	42.9	.214	3.09	184				
5	MUSQ	0.1	T	T	1				
	ANN FORBS	39.40	0.20		142	184.48	1.30	4.68	88.58
4	ATAR	0.3	T	2.16E-02	3				
4	DEPI	0.1	T	T	1				
4	EUSE	2.1	1.05E-02	.151	17				
4	LARE	14.8	7.40E-02	1.07	116				
4	LEDE	20.2	.101	1.45	142				
4	MATA	0.8	T	5.76E-02	8				
4	PLSP	1.1	T	7.92E-02	11				
	TOTAL		7.1	100.00		1829.85			878.638

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

OPPO

	<u>7.44</u>
Shrub Total	<u>7.44</u>
Total	886.07

PRECIPITATION DATA

RAIN GUAGE NO. 75	SAND	GULCH	EXCL	JULY	22/72
OCT. 15 TO APR. 15	=	2.55			
APR. 15 TO JULY 1	=	2.63			
JULY 1 TO SEPT. 1	=	1.05			
SEPT. 1 TO OCT. 15	=	.93			
SEASON TOTAL	=	7.16			
LONG TERM AVERAGE	=	8.95			

**No utilization

1009 SHOSHO ANT NO EXCL 2 AUGUST 21/72 INSIDE NATIVE**

NUMBER PLOTS = 20 PLOT SIZE 1X1									
PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-BASAL AREA	PERCENT COMPOSITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RENCES	WGT./ UNIT BASAL AREA	LBS PER AC.
6	*ARTR	192.60	9.63		9				
6	*OPPO	11.00	.550		3				
	PER GRASS	147.70	7.38		13	32.70	2.52	0.22	157.02
3	AGSM	1.80	9.00E-02	1.20	6	5.57	0.93	3.09	26.745
3	BOGR	138.00	6.90	91.9	13	19.31	1.49	0.14	92.721
3	POSE	0.30	1.50E-02	.200	3	0.61	0.20	2.03	2.9290
3	STCO	7.60	.380	5.06	4	7.21	1.80	0.95	34.620
	PER FORBS	0.20	0.01		1	0.20	0.20	1.00	0.96
2	ALTE	0.10	T	6.66E-02	1				
2	SPCO	0.10	T	6.66E-02	1				
	ANN FORBS	2.30	0.11		12	1.55	0.13	0.67	7.44
4	DEPI	0.10	T	6.66E-02	1				
4	GIPU	0.50	2.50E-02	.333	5				
4	LEDE	1.20	6.00E-02	.799	12				
4	PLPA	0.50	2.50E-02	.333	5				
	TOTAL		17.69	100.00		34.450			165.42

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	105.22
OPPO	42.82
PHHO	.43
Shrub Total	<u>148.47</u>
Total	313.89

PRECIPITATION DATA

RAIN GUAGE NO. 169		SHOSHO ANT NO EXCL 2 AUGUST 21/72
OCT. 15 TO APR. 15	=	4.64
APR. 15 TO JULY 1	=	2.54
JULY 1 TO SEPT. 1	=	1.50
SEPT. 1 TO OCT. 15	=	.57
SEASON TOTAL	=	9.25
LONG TERM AVERAGE	=	9.25

**No utilization

1009 SHOSHO ANT SO EXCL 2 AUGUST 21/72 INSIDE NATIVE **

NUMBER PLOTS = 20

PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPOSITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RENCES	WGT./ UNIT BASAL AREA	LBS PER AC.
6	*ARTR	226.00	11.3		11				
6	*OPPO	5.00	.250		1				
	PER GRASS	238.70	11.93		11	50.74	4.61	0.21	243.64
3	AGSM	7.90	.395	3.27	10	10.74	1.07	1.36	51.570
3	BOGR	225.00	11.3	93.2	11	34.08	3.10	0.15	163.64
3	POSE	2.80	.140	1.16	8	3.26	0.41	1.16	15.654
3	STCO	3.00	.150	1.24	1	2.66	2.66	0.89	12.773
	PER FORBS	0.90	0.04		2	1.70	0.85	1.89	8.16
2	ALTE	0.20	1.00E-02	8.28E-02	2				
2	AST	0.60	3.00E-02	.248	2				
2	SPCO	0.10	T	4.14E-02	1				
	ANN FORBS	1.90	0.09		7	1.65	0.24	0.87	7.92
4	DEPI	0.40	2.00E-02	.166	4				
4	GIPU	0.40	2.00E-02	.166	4				
4	LEDE	0.70	3.50E-02	.290	7				
4	PLPA	0.40	2.00E-02	.166	4				
	TOTAL		23.62	100.00		54.090			259.72

* NOT COMPUTED IN PERCENT COMPOSITION

T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	105.22
OPPO	42.82
PHHO	.43
Shrub Total	<u>148.47</u>
Total	313.89

PRECIPITATION DATA

RAIN GUAGE NO. 169	SHOSHO ANT SO EXCL 2 AUGUST 21/72
OCT. 15 TO APR. 15 =	4.64
APR. 15 TO JULY 1 =	2.54
JULY 1 TO SEPT. 1 =	1.50
SEPT. 1 TO OCT. 15 =	.57
SEASON TOTAL =	9.25
LONG TERM AVERAGE =	9.25

**No utilization

1009 SHOSHO ANT EXCL 2 AUGUST 21/72 OUT NATIVE**

NUMBER PLOTS = 20
PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR- RENCES	WGT./ UNIT BASAL AREA	LBS PER AC.
6	*ARTR	176.00	8.80		10				
6	*OPPO	15.00	.750		4				
6	*PHHO	0.50	2.50E-02		1				
	PER GRASS	162.40	8.12		9	35.33	3.93	0.22	169.64
3	AGSM	2.10	.105	1.28	9	8.98	1.00	4.28	43.119
3	BOGR	155.00	7.75	94.4	8	21.04	2.63	0.14	101.03
3	POSE	1.80	9.00E-02	1.10	6	1.43	0.24	0.79	6.8664
3	STCC	3.50	.175	2.13	2	3.88	1.94	1.11	18.631
	PER FORBS	0.60	0.03		2	0.20	0.10	0.33	0.96
2	SPCO	0.60	3.00E-02	.365	2				
	ANN FORBS	1.20	0.06		9	0.85	0.09	0.71	4.08
4	LEDE	0.90	4.50E-02	.548	9				
4	PLPA	0.30	1.50E-02	.183	3				
	TOTAL		17.78	100.00		36.380			174.69

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	130.61
OPPO	53.86
PHHO	.67
Shrub Total	<u>185.14</u>
Total	<u>359.83</u>

PRECIPITATION DATA

RAIN GUAGE NO.	SHOSHO ANT	EXCL 2 AUGUST 21/72
OCT. 15 TO APR. 15 =	4.64	
APR. 15 TO JULY 1 =	2.54	
JULY 1 TO SEPT. 1 =	1.50	
SEPT. 1 TO OCT. 15 =	.57	
SEASON TOTAL =	9.25	
LONG TERM AVERAGE =	9.25	

**No utilization

1011 SHOSHO ANT NO EXCL 4 AUGUST 22/72 INSIDE NATIVE **

NUMBER PLOTS = 20

PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER- CENT	AVE. PER- CENT BASAL AREA	PERCENT COMPO- SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR- RENCES	WGT./ UNIT BASAL AREA	LBS PER AC.
6	*ARTR	167.00	8.35		9				
6	*OPPO	16.00	.800		4				
6	*PHHO	4.10	.205		2				
	PER GRASS	223.30	11.16		10	82.20	8.22	0.37	394.70
3	AGSM	2.60	.130	1.13	10	12.77	1.28	4.91	61.318
3	BOGR	155.00	7.75	67.4	6	15.56	2.59	0.10	74.714
3	ORHY	60.00	3.00	26.1	1	39.69	39.69	0.66	190.58
3	POSE	0.60	3.00E-02	.261	2	1.23	0.61	2.05	5.9061
3	STCO	5.10	.255	2.22	4	12.95	3.24	2.54	62.182
	PER FORBS	2.00	0.10		6	3.10	0.52	1.55	14.89
2	ERPU	0.10	T	4.35E-02	1				
2	SPCO	1.90	9.50E-02	.826	6				
	ANN GRASS	0.20	0.01		2	0.38	0.19	1.90	1.82
5	FEOC	0.20	1.00E-02	8.70E-02	2				
	ANN FORBS	4.50	0.22		12	9.80	0.82	2.18	47.06
4	DEPI	0.40	2.00E-02	.174	4				
4	GIPU	0.30	1.50E-02	.130	3				
4	LEDE	1.30	6.50E-02	.565	9				
4	PLPA	2.50	.125	1.09	12				
	TOTAL		20.85	100.00		95.480			458.47

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	74.02
OPPO	42.72
PHHO	18.43
Shrub Total	<u>135.17</u>
Total	593.64

PRECIPITATION DATA

RAIN GUAGE NO. 170	SHOSHO ANT NO EXCL 4 AUGUST 22/72
OCT. 15 TO APR. 15 =	4.32
APR. 15 TO JULY 1 =	2.36
JULY 1 TO SEPT. 1 =	1.56
SEPT. 1 TO OCT. 15 =	.68
SEASON TOTAL =	8.92
LONG TERM AVERAGE =	8.92

**No utilization

1011 SHOSHO ANT SO EXCL 4 AUGUST 22/72 INSIDE NATIVE**

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER- CENT	AVE. PER- CENT BASAL AREA	NUMBER PLOTS = 20		TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR- RENCES	WGT./ UNIT BASAL AREA	LBS PER AC.
				PERCENT COMPO- SITION	ABS. PLOT FREQ. BASE 20				
6	*ARTR	126.00	6.30						
6	*OPPO	28.00	1.40						
	PER GRASS	108.00	5.40			71.61	6.51	0.66	343.85
3	AGSM	2.10	.105	1.84	9	12.47	1.39	5.94	59.877
3	BOGR	82.10	4.10	72.0	11	14.79	1.34	0.18	71.017
3	ORHY	0.10	T	8.77E-02	1	1.14	1.14	11.40	5.4739
3	POSE	5.60	.280	4.91	7	2.74	0.39	0.49	13.157
3	SIHY	1.00	5.00E-02	.877	1	2.54	2.54	2.54	12.196
3	STCO	17.10	.855	15.0	7	37.93	5.42	2.22	182.13
	PER FORBS	1.20	0.06		4	2.61	0.65	2.17	12.53
2	SPCO	1.20	6.00E-02	1.05	4				
	ANN FORBS	4.80	0.24		13	9.82	0.76	2.05	47.15
4	CHEN	0.10	T	8.77E-02	1				
4	DEPI	0.20	1.00E-02	.175	2				
4	GIPU	1.10	5.50E-02	.965	7				
4	LEDE	0.90	4.50E-02	.789	9				
4	PLPA	2.50	.125	2.19	13				
	TOTAL		13.40	100.00		84.040			403.53

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	74.02
OPPO	42.72
PHHO	18.43
Shrub Total	<u>135.17</u>
Total	593.64

PRECIPITATION DATA

RAIN GUAGE NO. 170	SHOSHO ANT SO EXCL 4 AUGUST 22/72
OCT. 15 TO APR. 15 =	4.32
APR. 15 TO JULY 1 =	2.36
JULY 1 TO SEPT. 1 =	1.56
SEPT. 1 TO OCT. 15 =	.68
SEASON TOTAL =	8.92
LONG TERM AVERAGE =	8.92

**No utilization

1011 SHOSHO ANT EXCL 4 AUGUST 22/72 OUT NATIVE**

NUMBER PLOTS = 20

PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RENCES	WGT./ UNIT BASAL AREA	LBS PER AC.
6	*ARTR	188.00	9.40		8				
6	*OPPO	13.50	.675		4				
	PER GRASS	159.70	7.98		10	39.79	3.98	0.25	191.06
3	BOGR	139.60	6.98	84.1	10	20.24	2.02	0.14	97.186
3	POSE	9.90	.495	5.96	8	7.21	0.90	0.73	34.620
3	STCO	10.20	.510	6.14	4	12.34	3.08	1.21	59.253
	PER FORBS	1.80	0.09		10	4.39	0.44	2.44	21.08
2	SPCO	1.80	9.00E-02	1.08	10				
	ANN FORBS	4.50	0.22		14	6.51	0.46	1.45	31.26
4	DEPI	0.10	T	6.02E-02	1				
4	GIPU	1.40	7.00E-02	.843	10				
4	LEDE	0.70	3.50E-02	.422	7				
4	PLPA	2.30	.115	1.39	14				
	TOTAL		18.37	100.00		50.690			243.40

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	63.94
OPPO	68.54
Shrub Total	<u>132.48</u>
Total	<u>375.88</u>

PRECIPITATION DATA

RAIN GUAGE NO.	SHOSHO ANT	EXCL 4 AUGUST 22/72
170		
OCT. 15 TO APR. 15	=	4.32
APR. 15 TO JULY 1	=	2.36
JULY 1 TO SEPT. 1	=	1.56
SEPT. 1 TO OCT. 15	=	.68
SEASON TOTAL	=	8.92
LONG TERM AVERAGE	=	8.92

**No utilization

1013 SHOSHO ANT NO EXCL 7 AUGUST 22/72 INSIDE NATIVE**

NUMBER PLOTS = 20

PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RENCES	WGT./ UNIT BASAL AREA	LBS PER AC.
6	*ARTR	163.00	8.15		14				
6	*OPPO	11.00	.550		3				
	PER GRASS	27.20	1.36		18	42.42	2.36	1.56	203.69
3	AGSM	7.20	.360	25.6	18	28.23	1.57	3.92	135.55
3	BOGR	8.70	.435	31.0	6	2.27	0.38	0.26	10.900
3	ORHY	1.00	5.00E-02	3.56	1	1.76	1.76	1.76	8.4510
3	POSE	0.80	4.00E-02	2.85	4	0.57	0.14	0.71	2.7370
3	STCG	9.50	.475	33.8	3	9.59	3.20	1.01	46.048
	PER FORBS	0.20	0.01		2	0.19	0.09	0.95	0.91
2	SPCO	0.20	1.00E-02	.712	2				
	ANN FORBS	0.70	0.03		5	1.06	0.21	1.51	5.09
4	LEDE	0.50	2.50E-02	1.78	5				
4	PLPA	0.20	1.00E-02	.712	2				
	TOTAL		10.10	100.00		43.670			209.69

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	38.30
OPPO	47.90
PHHO	3.41
Shrub Total	<u>89.61</u>
Total	<u>299.30</u>

PRECIPITATION DATA

RAIN GAUGE NO. 158	SHOSHO ANT NO EXCL 7 AUGUST 22/72
OCT. 15 TO APR. 15 =	4.40
APR. 15 TO JULY 1 =	2.54
JULY 1 TO SEPT. 1 =	1.72
SEPT. 1 TO OCT. 15 =	.66
SEASON TOTAL =	9.32
LONG TERM AVERAGE =	9.45

**No utilization

1013 SHOSHO ANT SO EXCL 7 AUGUST 22/72 INSIDE NATIVE **

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER- CENT	AVE. PER- CENT BASAL AREA	NUMBER PLOTS = 20 PLOT SIZE 1X1		TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR- RENCES	WGT./ UNIT BASAL AREA	LBS PER AC.
				PERCENT COMPO- SITION	ABS. PLOT FREQ. BASE 20				
6	*ARTR	78.50	3.92		9				
6	*OPPO	15.50	.775		4				
6	*PHHO	15.00	.750		2				
	PER GRASS	111.70	5.58		19	32.26	1.70	0.29	154.90
3	AGSM	2.70	.135	2.38	19	15.14	0.80	5.61	72.698
3	BOGR	100.10	5.00	88.1	8	8.29	1.04	0.08	39.806
3	ORHY	1.00	5.00E-02	.880	1	1.08	1.08	1.08	5.1858
3	POSE	2.70	.135	2.38	4	1.45	0.36	0.54	6.9625
3	SIHY	2.00	.100	1.76	1	0.52	0.52	0.26	2.4969
3	STCO	3.20	.160	2.82	4	5.78	1.44	1.81	27.754
	PER FORBS	0.20	0.01		1	0.56	0.56	2.80	2.69
2	ALTE	0.10	T	8.80E-02	1				
2	SPCO	0.10	T	8.80E-02	1				
	ANN FORBS	1.70	0.08		10	1.02	0.10	0.60	4.90
4	GIPU	0.10	T	8.80E-02	1				
4	LEDE	1.00	5.00E-02	.880	10				
4	PLPA	0.60	3.00E-02	.528	6				
	TOTAL		11.13	100.00		33.840			162.49

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	38.30
OPPO	47.90
PHHO	3.41
Shrub Total	<u>89.61</u>
Total	<u>299.30</u>

PRECIPITATION DATA

RAIN GUAGE NO. 158	SHOSHO ANT SO EXCL 7 AUGUST 22/72
OCT. 15 TO APR. 15	= 4.40
APR. 15 TO JULY 1	= 2.54
JULY 1 TO SEPT. 1	= 1.72
SEPT. 1 TO OCT. 15	= .66
SEASON TOTAL	= 9.32
LONG TERM AVERAGE	= 9.45

**No utilization

1013 SHOSHO ANT EXCL 7 AUGUST 22/72 OUT NATIVE **

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPOSITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR- RENCES	WGT./ UNIT BASAL AREA	LBS PER AC.
6	*ARTR	103.00	5.15		7				
6	*OPPO	33.00	1.65		6				
	PER GRASS	108.40	5.42		18	45.74	2.54	0.42	219.63
3	AGSM	4.30	.215	3.74	18	15.30	0.85	3.56	73.466
3	BOGR	83.60	4.18	72.8	10	12.73	1.27	0.15	61.126
3	POSE	8.20	.410	7.14	12	5.50	0.46	0.67	26.409
3	SIHY	0.70	3.50E-02	.609	3	1.44	0.48	2.06	6.9144
3	STCO	11.60	.580	10.1	7	10.77	1.54	0.93	51.714
	ANN FORBS	6.50	0.32		15	10.34	0.69	1.59	49.65
4	DEPI	0.30	1.50E-02	.261	3				
4	GIPU	0.30	1.50E-02	.261	3				
4	LEDE	1.30	6.50E-02	1.13	13				
4	PLPA	4.60	.230	4.00	15				
	TOTAL		12.54	100.00		56.080			269.28

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	38.16
OPPO	48.38
PHHO	5.66
Shrub Total	<u>92.20</u>
Total	361.48

PRECIPITATION DATA

RAIN GAUGE NO. 158	SHOSHO ANT	EXCL 7 AUGUST 22/72
OCT. 15 TO APR. 15	= 4.40	
APR. 15 TO JULY 1	= 2.54	
JULY 1 TO SEPT. 1	= 1.72	
SEPT. 1 TO OCT. 15	= .66	
SEASON TOTAL	= 9.32	
LONG TERM AVERAGE	= 9.45	

**No utilization

1014 SHOSHO ANT NO EXCL 8 AUGUST 22/72 INSIDE NATIVE **

NUMBER PLOTS = 20

PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER- CENT	AVE. PER- CENT BASAL AREA	PERCENT COMPO- SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR- RENCES	WGT./ UNIT BASAL AREA	LBS PER AC.
6	*ARTR	24.00	1.20		4				
6	*OPPO	11.00	.550		3				
6	*PHHO	3.00	.150		1				
	PER GRASS	160.50	8.02		17	92.72	5.45	0.58	445.21
3	AGSM	6.80	.340	4.20	17	49.81	2.93	7.32	239.17
3	BOGR	144.00	7.20	88.9	8	25.45	3.18	0.18	122.20
3	ORHY	3.00	.150	1.85	1	4.31	4.31	1.44	20.695
3	POSE	1.90	9.50E-02	1.17	7	3.35	0.48	1.76	16.086
3	SIHY	0.10	T	6.18E-02	1	0.40	0.40	4.00	1.9207
3	STCO	4.70	.235	2.90	5	9.40	1.88	2.00	45.136
	PER FORBS	0.20	0.01		2	0.15	0.07	0.75	0.72
2	SPCO	0.20	1.00E-02	.124	2				
	ANN FORBS	1.20	0.06		7	3.41	0.49	2.84	16.37
4	LEDE	0.50	2.50E-02	.309	5				
4	PLPA	0.70	3.50E-02	.432	7				
	TOTAL		9.99	100.00		96.280			462.31

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	14.83
OPPO	45.98
Shrub Total	<u>60.81</u>
Total	<u>523.12</u>

PRECIPITATION DATA

RAIN GUAGE NO. 172	SHOSHO ANT NO EXCL 8 AUGUST 22/72
OCT. 15 TO APR. 15 =	3.96
APR. 15 TO JULY 1 =	2.33
JULY 1 TO SEPT. 1 =	1.46
SEPT. 1 TO OCT. 15 =	.63
SEASON TOTAL =	8.38
LONG TERM AVERAGE =	8.38

**No utilization

1014 SHOSHO ANT SO EXCL 8 AUGUST 22/72 INSIDE NATIVE **

NUMBER PLOTS = 20
PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR- RENCES	WGT./ UNIT BASAL AREA	LBS PER AC.
6	*ARTR	55.10	2.75		7				
6	*OPPO	11.00	.550		4				
	PER GRASS	77.20	3.86		17	56.64	3.33	0.73	271.97
3	AGSM	3.30	.165	4.11	17	39.04	2.30	11.83	187.46
3	BOGR	72.10	3.60	89.8	7	14.10	2.01	0.20	67.704
3	POSE	1.30	6.50E-02	1.62	4	1.52	0.38	1.17	7.2986
3	STCO	0.50	2.50E-02	.623	5	1.98	0.40	3.96	9.5074
	PER FORBS	0.50	0.02		3	1.54	0.51	3.08	7.39
2	ERPU	0.20	1.00E-02	.249	2				
2	SPCO	0.30	1.50E-02	.374	3				
	ANN FORBS	2.60	0.13		12	4.69	0.39	1.80	22.52
4	GIPU	0.10	T	.125	1				
4	LEDE	0.90	4.50E-02	1.12	9				
4	PLPA	1.60	8.00E-02	1.99	12				
	TOTAL		7.32	100.00		62.870			301.88

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	14.83
OPPO	45.98
	<u>60.81</u>
Shrub Total	60.81
Total	<u>523.12</u>

PRECIPITATION DATA

RAIN GUAGE NO.	SHOSHO ANT SO EXCL 8 AUGUST 22/72
172	
OCT. 15 TO APR. 15	= 3.96
APR. 15 TO JULY 1	= 2.33
JULY 1 TO SEPT. 1	= 1.46
SEPT. 1 TO OCT. 15	= .63
SEASON TOTAL	= 8.38
LONG TERM AVERAGE	= 8.38

**No utilization

1014 SHOSHO ANT EXCL 8 AUGUST 23/72 OUT NATIVE **

NUMBER PLOTS = 20

PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RENCES	WGT./ UNIT BASAL AREA	LBS PER AC.
6	*ARTR	139.00	6.95		8				
6	*OPPO	3.10	.155		3				
	PER GRASS	54.60	2.73		17	66.75	3.93	1.22	320.51
3	AGSM	8.10	.405	13.5	17	48.62	2.86	6.00	233.46
3	BOGR	41.00	2.05	68.1	5	10.92	2.18	0.27	52.434
3	POSE	4.40	.220	7.31	11	5.22	0.47	1.19	25.065
3	STCO	1.10	5.50E-02	1.83	3	1.99	0.66	1.81	9.5554
	PER FORBS	0.20	0.01		1	0.13	0.13	0.65	0.62
2	ERPU	0.10	T	.166	1				
2	SPCO	0.10	T	.166	1				
	ANN FORBS	5.40	0.27		18	31.17	1.73	5.77	149.67
4	LEDE	1.10	5.50E-02	1.83	11				
4	PLPA	4.30	.215	7.14	18				
	TOTAL		10.11	100.00		98.050			470.81

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	28.61
OPPO	26.83
PHHO	4.32
Shrub Total	<u>59.76</u>
Total	<u>530.57</u>

PRECIPITATION DATA

RAIN GUAGE NO.	SHOSHO ANT	EXCL 8 AUGUST 23/72
OCT. 15 TO APR. 15	= 3.96	
APR. 15 TO JULY 1	= 2.33	
JULY 1 TO SEPT. 1	= 1.46	
SEPT. 1 TO OCT. 15	= .63	
SEASON TOTAL	= 8.38	
LONG TERM AVERAGE	= 8.38	

**No utilization

1015 SHOSHO ANT NO EXCL 9 AUGUST 22/72 INSIDE NATIVE **

NUMBER PLOTS = 20
PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RENCES	WGT./ UNIT BASAL AREA	LBS PER AC.
6	*ARTR	44.10	2.20		8				
6	*OPPO	12.00	.600		6				
	PER GRASS	53.00	2.65		18	43.16	2.40	0.81	207.24
3	AGSM	4.70	.235	8.67	18	23.05	1.28	4.90	110.68
3	BOGR	40.00	2.00	73.8	4	13.73	3.43	0.34	65.927
3	CAEL	0.80	4.00E-02	1.48	4	1.42	0.35	1.77	6.8184
3	POSE	7.40	.370	13.7	10	3.56	0.36	0.48	17.094
3	STCO	0.10	T	.185	1	1.40	1.40	14.00	6.7224
	ANN FORBS	1.20	0.06		8	0.48	0.06	0.40	2.30
4	GIPU	0.20	1.00E-02	.369	2				
4	LEDE	0.80	4.00E-02	1.48	8				
4	PLPA	0.20	1.00E-02	.369	2				
	TOTAL		5.51	100.00		43.640			209.55

* NOT COMPUTED IN PERCENT COMPOSITION

T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	45.98
OPPO	22.85
PHHO	16.66
Shrub Total	<u>85.49</u>
Total	<u>295.04</u>

PRECIPITATION DATA

RAIN GUAGE NO. 171	SHOSHO ANT NO EXCL 9 AUGUST 22/72
OCT. 15 TO APR. 15 =	4.12
APR. 15 TO JULY 1 =	2.31
JULY 1 TO SEPT. 1 =	1.68
SEPT. 1 TO OCT. 15 =	.64
SEASON TOTAL =	8.75
LONG TERM AVERAGE =	8.75

**No utilization

1015 SHOSHO ANT SO EXCL 9 AUGUST 22/72 INSIDE NATIVE**

NUMBER PLOTS = 20 PLOT SIZE 1X1									
PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER- CENT	AVE. PER- CENT BASAL AREA	PERCENT COMPO- SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT CCUR- RNCES	WGT./ UNIT BASAL AREA	LBS PER AC.
6	*ARTR	136.20	6.81		10				
6	*OPPO	9.00	.450		4				
	PER GRASS	69.00	3.45		14	30.94	2.21	0.45	148.56
3	AGSM	3.40	.170	4.76	14	17.92	1.28	5.27	86.046
3	BOGR	61.00	3.05	85.3	6	7.35	1.22	0.12	35.292
3	POSE	2.60	.130	3.64	3	2.10	0.70	0.81	10.084
3	STCO	2.00	.100	2.80	3	3.57	1.19	1.78	17.142
	PER FORBS	0.20	0.01		2	0.63	0.31	3.15	3.03
2	SPCO	0.20	1.00E-02	.280	2				
	ANN FORBS	2.30	0.11		12	1.48	0.12	0.64	7.11
4	DEPI	0.10	T	.140	1				
4	LEDE	1.20	6.00E-02	1.68	12				
4	PLPA	1.00	5.00E-02	1.40	10				
	TOTAL		10.83	100.00		33.050			158.70

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	45.98
OPPO	22.85
PHHO	16.66
Shrub Total	85.49
Total	295.04

PRECIPITATION DATA

RAIN GUAGE NO. 171		SHOSHO ANT SO EXCL 9 AUGUST 22/72
OCT. 15 TO APR. 15	=	4.12
APR. 15 TO JULY 1	=	2.31
JULY 1 TO SEPT. 1	=	1.68
SEPT. 1 TO OCT. 15	=	.64
SEASON TOTAL	=	8.75
LONG TERM AVERAGE	=	8.75

**No utilization

1015 SHOSHO ANT EXCL 9 AUGUST 22/72 OUT NATIVE**

NUMBER PLOTS = 20

PLANT CLDE	PLANT NAME	TOTAL TRANS PASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPO-SITION	PLOT SIZE 1X1 ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR- RENCES	WGT./ UNIT BASAL AREA	LBS PER AC.
6	*ARTR	254.10	12.7		14				
6	*OPPO	11.00	.550		4				
6	*PHHO	5.10	.255		2				
	PER GRASS	29.20	1.46		17	21.91	1.29	0.75	105.21
3	AGSM	2.90	.145	9.39	17	15.29	0.90	5.27	73.418
3	BOGR	18.00	.900	58.3	4	3.27	0.82	0.18	15.702
3	POSE	6.30	.315	20.4	8	1.37	0.17	0.22	6.5783
3	STCC	2.00	.100	6.47	1	1.98	1.98	0.99	9.5074
	PER FORBS	0.10	T		1	0.09	0.09	0.90	0.43
2	SPCO	0.10	T	.324	1				
	ANN FORBS	1.60	0.08		13	0.74	0.06	0.46	3.55
4	LEDE	1.30	6.50E-02	4.21	13				
4	PLPA	0.30	1.50E-02	.971	3				
	TOTAL		15.05	100.00		22.740			109.19

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	30.19
EULA	.72
OPPO	40.94
PHHO	7.30
Shrub Total	79.15
Total	188.34

PRECIPITATION DATA

RAIN GUAGE NO.	171	SHOSHO ANT	EXCL 9 AUGUST 22/72
OCT. 15 TO APR. 15	=	4.12	
APR. 15 TO JULY 1	=	2.31	
JULY 1 TO SEPT. 1	=	1.68	
SEPT. 1 TO OCT. 15	=	.64	
SEASON TOTAL	=	8.75	
LONG TERM AVERAGE	=	8.75	

**No utilization

1017 SHOSHO ANT NO EXCL11 AUGUST 23/72 INSIDE NATIVE **

NUMBER PLOTS = 20
PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RENCES	WGT./ UNIT BASAL AREA	LBS PER AC.
6	*ARTR	93.60	4.68		9				
6	*OPPO	5.00	.250		2				
	PER GRASS	47.40	2.37		17	44.12	2.60	0.93	211.85
3	AGSM	2.10	.105	4.30	17	24.78	1.46	11.80	118.99
3	BOGR	40.00	2.00	82.0	4	4.04	1.01	0.10	19.399
3	POSE	2.30	.115	4.71	6	7.02	1.17	3.05	33.708
3	STCO	3.00	.150	6.15	1	8.28	8.28	2.76	39.758
	PER FORBS	0.40	0.02		2	1.14	0.57	2.85	5.47
2	ALTE	0.10	T	.205	1				
2	AST	0.10	T	.205	1				
2	SPCO	0.20	1.00E-02	.410	2				
	ANN FORBS	1.00	0.05		8	1.26	0.16	1.26	6.05
4	LEDE	0.20	1.00E-02	.410	2				
4	PLPA	0.80	4.00E-02	1.64	8				
	TOTAL		7.37	100.00		46.520			223.37

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	27.60
OPPO	45.65
PHHO	.38
Shrub Total	<u>73.63</u>
Total	297.00

PRECIPITATION DATA

RAIN GUAGE NO.	SHOSHO ANT NO EXCL11 AUGUST 23/72
173	
OCT. 15 TO APR. 15	= 4.60
APR. 15 TO JULY 1	= 2.31
JULY 1 TO SEPT. 1	= 1.96
SEPT. 1 TO OCT. 15	= .68
SEASON TOTAL	= 9.55
LONG TERM AVERAGE	= 9.55

**No utilization

1017 SHOSHO ANT SO EXCL11 AUGUST 23/72 INSIDE NATIVE**

NUMBER PLOTS = 20									
PLOT SIZE 1X1									
PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RENCES	WGT./ UNIT BASAL AREA	LBS PER AC.
6	*ARTR	132.00	6.60		8				
6	*OPPO	7.10	.355		4				
	PER GRASS	167.40	8.37		13	46.21	3.55	0.28	221.89
3	AGSM	1.90	9.50E-02	1.10	10	14.70	1.47	7.74	70.585
3	BOGR	161.50	8.07	93.5	13	23.86	1.84	0.15	114.57
3	POSE	1.00	5.00E-02	.579	6	1.21	0.20	1.21	5.8100
3	STCO	3.00	.150	1.74	1	6.44	6.44	2.15	30.923
	PER FORBS	1.10	0.05		5	2.20	0.44	2.00	10.56
2	ALTF	0.20	1.00E-02	.116	2				
2	SPCO	0.90	4.50E-02	.521	5				
	ANN FORBS	4.30	0.21		16	15.82	0.99	3.68	75.96
4	LEDE	0.60	3.00E-02	.347	6				
4	PLPA	3.70	.185	2.14	16				
	TOTAL		15.59	100.00		64.230			308.41

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	27.60
OPPO	45.65
PHHO	.38
Shrub Total	<u>73.63</u>
Total	<u>297.00</u>

PRECIPITATION DATA

RAIN GAUGE NO. 173	SHOSHO ANT SO EXCL11 AUGUST 23/72
OCT. 15 TO APR. 15 =	4.60
APR. 15 TO JULY 1 =	2.31
JULY 1 TO SEPT. 1 =	1.96
SEPT. 1 TO OCT. 15 =	.68
SEASON TOTAL =	9.55
LONG TERM AVERAGE =	9.55

**No utilization

1017 SHOSHO ANT EXCL11 AUGUST 23/72 OUT NATIVE**

NUMBER PLOTS = 20

PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPOSITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR- RENCES	WGT./ UNIT BASAL AREA	LBS PER AC.
6	*ARTR	71.00	3.55		5				
6	*OPPO	17.10	.855		4				
	PER GRASS	100.70	5.03		17	45.40	2.67	0.45	218.00
3	AGSM	2.90	.145	2.78	17	19.28	1.13	6.65	92.577
3	BOGR	96.20	4.81	92.1	13	19.70	1.52	0.20	94.593
3	POSE	1.10	5.50E-02	1.05	7	5.17	0.74	4.70	24.825
3	STCO	0.50	2.50E-02	.479	1	1.25	1.25	2.50	6.0021
	PER FORBS	0.10	T		1	0.25	0.25	2.50	1.20
2	SPCO	0.10	T	9.58E-02	1				
	ANN FORBS	3.60	0.18		17	15.80	0.93	4.39	75.87
4	DEPI	0.30	1.50E-02	.287	3				
4	PLPA	3.30	.165	3.16	17				
	TOTAL		9.62	100.00		61.450			295.06

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	25.28
OPPO	144.45
Shrub Total	<u>170.69</u>
Total	465.75

PRECIPITATION DATA

RAIN GAUGE NO. 173	SHOSHO ANT	EXCL11 AUGUST 23/72
OCT. 15 TO APR. 15 =	4.60	
APR. 15 TO JULY 1 =	2.31	
JULY 1 TO SEPT. 1 =	1.96	
SEPT. 1 TO OCT. 15 =	.68	
SEASON TOTAL =	9.55	
LONG TERM AVERAGE =	9.55	

**No utilization

2009 SMILD EXCL JULY 27/72 INSIDE NATIVE **

NUMBER PLOTS = 20
PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT CCCUR-RENCES	WGT./ UNIT BASAL AREA	LBS PER AC.
6	*ARTR	156.50	7.82		11				
	PER GRASS	8.40	0.42		18	18.45	1.02	2.20	88.59
3	AGSM	2.50	.125	21.9	13	7.99	0.61	3.20	38.366
3	BOGR	2.60	.130	22.8	5	4.65	0.93	1.79	22.328
3	POSE	2.70	.135	23.7	11	4.76	0.43	1.76	22.856
3	SIHY	0.10	T	.877	1	0.44	0.44	4.40	2.1127
3	STCC	0.50	2.50E-02	4.39	1	0.61	0.61	1.22	2.9290
	PER FORBS	0.10	T		1	0.54	0.54	5.40	2.59
2	SPCO	0.10	T	.877	1				
	ANN GRASS	1.40	0.07		13	1.35	0.10	0.96	6.48
5	BRTE	0.10	T	.877	1				
5	FEOC	1.30	6.50E-02	11.4	13				
	ANN FORBS	1.50	0.07		12	0.86	0.07	0.57	4.13
4	DEPI	0.80	4.00E-02	7.02	8				
4	PLSP	0.60	3.00E-02	5.26	6				
4	SIAL	0.10	T	.877	1				
	TOTAL		8.39	100.00		21.200			101.80

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	295.49
OPPO	5.86
Shrub Total	<u>301.35</u>
Total	<u>403.15</u>

PRECIPITATION DATA

RAIN GAUGE NO.	SMILD EXCL	JULY 27/72
36		
OCT. 15 TO APR. 15	= 4.74	
APR. 15 TO JULY 1	= 2.28	
JULY 1 TO SEPT. 1	= 1.34	
SEPT. 1 TO OCT. 15	= 1.06	
SEASON TOTAL	= 9.42	
LONG TERM AVERAGE	= 8.31	

**No utilization

2009 SMILO EXCL JULY 27/72 OUT NATIVE**

NUMBER PLOTS = 20
PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER- CENT	AVE. PER- CENT BASAL AREA	PERCENT COMPO- SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR- RENCES	WGT./ UNIT BASAL AREA	LBS PER AC.
6	*ARTR	130.00	6.50		8				
6	*OPPO	5.00	.250		2				
	PER GRASS	24.20	1.21		16	32.97	2.06	1.36	158.31
3	AGSM	5.00	.250	13.0	14	15.44	1.10	3.09	74.138
3	BOGR	1.00	5.00E-02	2.60	1	0.67	0.67	0.67	3.2171
3	POSE	15.60	.780	40.6	16	14.12	0.88	0.91	67.800
3	SIHY	2.10	.105	5.47	2	2.11	1.05	1.00	10.132
3	STCC	0.50	2.50E-02	1.30	1	0.63	0.63	1.26	3.0251
	PER FORBS	10.00	0.50		1	0.00	0.00	0.00	0.00
2	MAGL	10.00	.500	26.0	1				
	ANN GRASS	1.80	0.09		8	6.23	0.78	3.46	29.91
5	BRTE	1.00	5.00E-02	2.60	6				
5	FEOC	0.80	4.00E-02	2.08	8				
	ANN FORBS	2.40	0.12		10	1.42	0.14	0.59	6.82
4	DEPI	0.50	2.50E-02	1.30	5				
4	LARE	0.30	1.50E-02	.781	3				
4	LEDE	0.10	T	.260	1				
4	PLSP	1.40	7.00E-02	3.65	10				
4	SIAL	0.10	T	.260	1				
	TOTAL		8.67	100.00		40.620			195.04

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	188.26
OPPO	8.40
PHHO	1.06
Shrub Total	<u>197.72</u>
Total	392.76

PRECIPITATION DATA

RAIN GAUGE NO. 36	SMILO	EXCL	JULY	27/72
OCT. 15 TO APR. 15 =	4.74			
APR. 15 TO JULY 1 =	2.28			
JULY 1 TO SEPT. 1 =	1.34			
SEPT. 1 TO OCT. 15 =	1.06			
SEASON TOTAL =	9.42			
LONG TERM AVERAGE =	8.31			

**No utilization

2009 SMILO EXCL JULY 27/72 INSIDE SPRAY **

NUMBER PLOTS = 20
PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVF. PER-CENT BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RENCES	WGT./ UNIT BASAL AREA	LBS PER AC.
6	*ARTR	1.00	5.00E-02		1				
6	*OPPO	3.00	.150		1				
	PER GRASS	3.40	0.17		11	13.88	1.26	4.08	66.65
3	AGSM	1.50	7.50E-02	7.04	11	9.61	0.87	6.41	46.144
3	POSE	1.70	8.50E-02	7.98	9	3.33	0.37	1.96	15.990
3	SIHY	0.10	T	.469	1	0.44	0.44	4.40	2.1127
3	STCC	0.10	T	.469	1	0.50	0.50	5.00	2.4008
	PER FORBS	0.60	0.03		1	2.28	2.28	3.80	10.95
2	MACA	0.50	2.50E-02	2.35	1				
2	SPCO	0.10	T	.469	1				
	ANN GRASS	14.60	0.73		19	115.81	6.10	7.93	556.08
5	BRTE	13.40	.670	62.9	19				
5	FEOC	1.20	6.00E-02	5.63	12				
	ANN FORBS	2.70	0.13		15	4.35	0.29	1.61	20.89
4	DEPI	1.50	7.50E-02	7.04	15				
4	LARE	0.10	T	.469	1				
4	LEDE	0.50	2.50E-02	2.35	5				
4	PLSP	0.40	2.00E-02	1.88	4				
4	SIAL	0.20	1.00E-02	.939	2				
	TOTAL		1.26	100.00		136.32			654.57

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	24.43
OPPO	6.62
Shrub Total	<u>31.05</u>
Total	<u>685.62</u>

PRECIPITATION DATA

RAIN GUAGE NO. 36	SMILO EXCL
OCT. 15 TO APR. 15 =	4.74
APR. 15 TO JULY 1 =	2.28
JULY 1 TO SEPT. 1 =	1.34
SEPT. 1 TO OCT. 15 =	1.06
SEASON TOTAL =	9.42
LONG TERM AVERAGE =	8.31

JULY 27/72

**No Utilization

2009 SMILO EXCL JULY 27/72 OUT SPRAY**

NUMBER PLOTS = 20
PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RENCES	WGT./ UNIT BASAL AREA	LBS PER AC.
	PER GRASS	17.80	0.89		13	28.88	2.22	1.62	138.67
3	AGSM	5.30	.265	14.1	12	15.04	1.25	2.84	72.217
3	BOGR	0.10	T	.266	1	0.12	0.12	1.20	.57620
3	POSE	11.40	.570	30.3	13	12.50	0.96	1.10	60.021
3	SIHY	1.00	5.00E-02	2.66	1	1.22	1.22	1.22	5.8581
	ANN GRASS	15.10	0.75		20	70.71	3.54	4.68	339.53
5	BRTE	13.50	.675	35.9	20				
5	FENC	1.60	8.00E-02	4.26	12				
	ANN FORBS	4.70	0.23		14	11.68	0.83	2.49	56.08
4	ATAR	0.10	T	.266	1				
4	DEPI	1.40	7.00E-02	3.72	14				
4	LARE	0.50	2.50E-02	1.33	5				
4	PLSP	2.30	.115	6.12	11				
4	SAKA	0.30	1.50E-02	.798	3				
4	SIAL	0.10	T	.266	1				
	TOTAL		1.88	100.00		111.27			534.28

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	51.26
OPPO	2.54
Shrub Total	<u>53.80</u>
Total	<u>588.08</u>

PRECIPITATION DATA

RAIN GUAGE NO.	SMILO EXCL	JULY 27/72
OCT. 15 TO APR. 15	=	4.74
APR. 15 TO JULY 1	=	2.28
JULY 1 TO SEPT. 1	=	1.34
SEPT. 1 TO OCT. 15	=	1.06
SEASON TOTAL	=	9.42
LONG TERM AVERAGE	=	8.31

**No utilization

1005 SWEET WATER EXCL JULY 28/72 INSIDE ARNO**

NUMBER PLOTS = 20

PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RENCES	WGT./ UNIT BASAL AREA	LBS PER AC.
6	*ARNO	205.50	10.3		10				
6	*CHVI	4.00	.200		2				
6	*PHHO	1.10	5.50E-02		2				
6	*TECA	0.10	T		1				
	PER GRASS	39.70	1.98		13	49.78	3.83	1.25	239.03
3	AGSM	1.30	6.50E-02	3.17	9	5.37	0.60	4.13	25.785
3	CAEL	0.10	T	.244	1	0.22	0.22	2.20	1.0564
3	CAFI	11.50	.575	28.0	7	6.51	0.93	0.57	31.259
3	KOCR	5.80	.290	14.1	9	7.98	0.89	1.38	38.318
3	ORHY	0.50	2.50E-02	1.22	1	0.17	0.17	0.34	.81629
3	POSE	7.50	.375	18.3	5	3.69	0.74	0.49	17.718
3	STCO	13.00	.650	31.7	13	25.84	1.99	1.99	124.08
	PER FORBS	1.30	0.06		6	11.88	1.98	9.14	57.04
2	AST	0.60	3.00E-02	1.46	2				
2	LIRU	0.60	3.00E-02	1.46	6				
2	VIO	0.10	T	.244	1				
	TOTAL		12.58	100.00		61.660			296.07

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS		217.74
ARFR	TECA	1.49
ARHO		6.48
ARNO		151.49
ARTR		23.28
CHNA		2.93
CHVI		10.66
LEPU		6.43
OPPO		.29
PHHO		14.69
		<u>217.74</u>

PRECIPITATION DATA	SWEET WATER	Shrub Total (2nd Col.)	217.74	232.05
RAIN GUAGE NO. 11		EXCL JULY 28/72		
OCT. 15 TO APR. 15	= 3.14			
APR. 15 TO JULY 1	= 4.02			
JULY 1 TO SEPT. 1	= .70			
SEPT. 1 TO OCT. 15	= .38			
SEASON TOTAL	= 8.24			
LONG TERM AVERAGE	= 8.03			
			Total	528.12

**No utilization

1005 SWEET WATER EXCL JULY 28/72 OUT ARNO**

NUMBER PLOTS = 20

PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPOSITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR- RENCES	WGT./ UNIT BASAL AREA	LBS PER AC.
6	*ARNO	106.10	5.30		7				
6	*ARTR	1.00	5.00E-02		1				
6	*CHVI	0.50	2.50E-02		1				
6	*PHHO	0.10	T		1				
6	*TECA	6.00	.300		1				
	PER GRASS	39.40	1.97		12	49.82	4.15	1.26	239.22
3	AGSM	0.50	2.50E-02	1.08	5	1.40	0.28	2.80	6.7224
3	CAEL	0.30	1.50E-02	.648	3	0.39	0.13	1.30	1.8727
3	CAFI	7.20	.360	15.6	7	5.23	0.75	0.73	25.113
3	KOCR	5.50	.275	11.9	10	7.01	0.70	1.27	33.660
3	ORHY	1.60	8.00E-02	3.46	3	2.66	0.89	1.66	12.773
3	POSE	1.00	5.00E-02	2.16	2	0.42	0.21	0.42	2.0167
3	STCO	23.30	1.16	50.3	12	32.71	2.73	1.40	157.06
	PER FORBS	6.90	0.34		9	25.92	2.88	3.76	124.46
2	ALTE	0.10	T	.216	1				
2	ASMI	0.10	T	.216	1				
2	CRFL	2.30	.115	4.97	4				
2	PSTE	4.40	.220	9.50	9				
	TOTAL		8.00	100.00		75.740			363.68

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARHO	1.97
ARNO	90.53
ARTR	17.47
CHNA	2.30
CHVI	12.58
LEPU	2.26
OPPO	3.17
PHHO	3.36
TECA	6.53

Shrub Total 140.17
Total 503.85

PRECIPITATION DATA

RAIN GUAGE NO.	11	SWEET WATER EXCL	JULY 28/72
OCT. 15 TO APR. 15	=	3.14	
APR. 15 TO JULY 1	=	4.02	
JULY 1 TO SEPT. 1	=	.70	
SEPT. 1 TO OCT. 15	=	.38	
SEASON TOTAL	=	8.24	
LONG TERM AVERAGE	=	8.03	

**No utilization

1005 SWEET WATER EXCL JULY 28/72 INSIDE ARTR **

NUMBER PLOTS = 20
PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER- CENT	AVE. PER- CENT BASAL AREA	PERCENT COMPO- SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR- RENCES	WGT./ UNIT BASAL AREA	LBS PER AC.
6	*ARHO	0.50	2.50E-02		1				
6	*ARTR	120.00	6.00		7				
6	*CHVI	29.60	1.48		6				
6	*LEPU	0.50	2.50E-02		1				
6	*OPPO	1.00	5.00E-02		1				
6	*PHHO	6.00	.300		3				
	PER GRASS	61.40	3.07		20	60.83	3.04	0.99	292.09
3	AGSM	1.90	9.50E-02	3.03	11	3.99	0.36	2.10	19.159
3	CAEL	0.10	T	.159	1	0.07	0.07	0.70	.33612
3	CAFI	25.10	1.25	40.0	11	14.25	1.30	0.57	68.424
3	KOCR	7.60	.380	12.1	5	9.43	1.89	1.24	45.280
3	ORHY	0.10	T	.159	1	0.05	0.05	0.50	.24008
3	POSE	0.30	1.50E-02	.478	3	0.32	0.11	1.07	1.5365
3	STCO	26.30	1.31	41.9	13	32.72	2.52	1.24	157.11
	PER FORBS	1.10	0.05		2	1.67	0.83	1.52	8.02
2	EROV	1.00	5.00E-02	1.59	1				
2	VIO	0.10	T	.159	1				
	ANN FORBS	0.20	0.01		2	0.08	0.04	0.40	0.38
4	GIPU	0.20	1.00E-02	.319	2				
	TOTAL		11.01	100.00		62.580			300.49

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARHO	7.34
ARNO	4.85
ARTR	197.81
CHNA	1.92
CHVI	29.76
LEPU	2.11
PHHO	76.46
TECA	.38
Shrub Total	<u>320.63</u>
Total	<u>621.12</u>

PRECIPITATION DATA

RAIN GUAGE NO.	11	SWEET WATER EXCL	JULY 28/72
OCT. 15 TO APR. 15	=	3.14	
APR. 15 TO JULY 1	=	4.02	
JULY 1 TO SEPT. 1	=	.70	
SEPT. 1 TO OCT. 15	=	.38	
SEASON TOTAL	=	8.24	
LONG TERM AVERAGE	=	8.03	

**No utilization

1005 SWEET WATER EXCL JULY 28/72 OUT ARTR**

NUMBER PLOTS = 20

PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RFNCES	WGT./ UNIT BASAL AREA	LBS PER AC.
6	*ARNO	12.00	.600		1				
6	*ARTR	48.00	2.40		5				
6	*CHVI	25.30	1.26		9				
6	*PHHO	0.10	T		1				
	PER GRASS	64.90	3.24		17	44.01	2.59	0.68	211.32
3	AGSM	7.70	.385	11.6	16	6.61	0.41	0.86	31.739
3	BOGR	1.00	5.00E-02	1.50	1	0.17	0.17	0.17	.81629
3	CAEL	1.10	5.50E-02	1.65	7	1.44	0.21	1.31	6.9144
3	CAFI	33.30	1.66	50.0	17	16.62	0.98	0.50	79.804
3	KOCR	12.20	.610	18.3	11	10.58	0.96	0.87	50.802
3	ORHY	0.60	3.00E-02	.901	2	0.78	0.39	1.30	3.7453
3	POSE	4.00	.200	6.01	8	2.15	0.27	0.54	10.324
3	STCO	5.00	.250	7.51	9	5.66	0.63	1.13	27.178
	PER FORBS	1.70	0.08		3	5.62	1.87	3.31	26.99
2	ALTE	0.10	T	.150	1				
2	ASMI	0.50	2.50E-02	.751	1				
2	PSTE	1.10	5.50E-02	1.65	3				
	TOTAL		7.60	100.00		49.630			238.31

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARHO	6.77
ARNO	16.18
ARTR	129.94
CHVI	35.81
OPPO	.58
PHHO	4.56
Shrub Total	<u>193.84</u>
Total	<u>432.15</u>

PRECIPITATION DATA

RAIN GUAGE NO.	11	SWEET WATER EXCL	JULY 28/72
OCT. 15 TO APR. 15	=	3.14	
APR. 15 TO JULY 1	=	4.02	
JULY 1 TO SEPT. 1	=	.70	
SEPT. 1 TO OCT. 15	=	.38	
SEASON TOTAL	=	8.24	
LONG TERM AVERAGE	=	8.03	

**No utilization

2010 TWO MILE HILL JULY 1972 INSIDE NATIVE**

NUMBER OF PLOTS
COVER = 200, PRODUCTION = 20
PLOT SIZE 1 FT. X 10 FT.

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PERCENT	AVE. PER-CENT BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 200	TOTAL WGT. GMS/ 200 SQ.FT.	AVE. WGT. /PLOT OCCUR- RENCES	WGT./ UNIT BASAL AREA	LBS PER AC.
6	*ARTR	26.0	.130		2				
6	*OPPO	37.1	.185		16				
1	ATNU	298.6	1.49	62.4	100	332.85	3.33	1.11	159.82
	PER GRASS	61.0	.305		44	156.87	3.57	2.57	75.324
3	CRHY	2.1	1.05E-02	.439	9	6.70	0.74	3.19	3.2171
3	POSE	37.3	.186	7.80	44	78.87	1.79	2.11	37.871
3	SIHY	21.6	.108	4.52	20	71.30	3.56	3.30	34.236
	PER FORBS	6.00	0.03		10	2.96	0.30	0.49	1.42
2	ALTE	0.2	T	4.18E-02	2				
2	LAPU	5.6	2.80E-02	1.17	10				
2	MUDI	0.2	T	4.18E-02	2				
	ANN GRASS	94.40	0.47		200	873.83	4.37	9.26	419.59
5	ERCO	0.1	T	2.09E-02	1				
5	ERTE	94.3	.471	19.7	200				
	ANN FORBS	19.40	0.09		119	41.25	0.35	2.24	19.81
4	CAMI	11.9	5.95E-02	2.49	119				
4	PEPI	2.5	1.25E-02	.523	25				
4	HEPE	1.4	T	.293	14				
4	LARE	1.5	T	.314	15				
4	LEDE	1.1	T	.230	11				
	TOTAL		2.7	100.00		1407.76			675.963

* NOT COMPUTED IN PERCENT COMPOSITION

T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

OPPO

Shrub Total
Total

12.96
12.96
688.92

PRECIPITATION DATA

RAIN GAUGE NO.	39	TWO MILE HILL	JULY 1972
OCT. 15 TO APR. 15	=	3.55	
APR. 15 TO JULY 1	=	3.95	
JULY 1 TO SEPT. 1	=	2.95	
SEPT. 1 TO OCT. 15	=	.85	
SEASON TOTAL	=	11.30	
LONG TERM AVERAGE	=	9.36	

**No utilization

2510 TWO MILE HILL JULY 1972 OUT NATIVE **

NUMBER OF PLOTS
COVER = 200, PRODUCTION = 20
PLOT SIZE 1 FT. X 10 FT.

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 200	TOTAL WGT. GMS/ 200 SQ.FT.	AVE. WGT. /PLOT OCCUR- RENCES	WGT./ UNIT BASAL AREA	LBS PFP AC.
6	*ARTR	155.0	.775		3				
6	*OPPO	9.0	4.50E-02		6				
1	ATNU	513.9	2.57	83.7	115	415.62	3.61	0.81	199.57
	PER GRASS	36.7	.183		58	25.45	0.44	0.69	12.220
3	DRHY	1.0	T	.163	1	2.78	2.78	2.78	1.3349
3	POSE	32.8	.164	5.34	58	17.96	0.31	0.55	8.6238
3	SIHY	2.9	1.45E-02	.472	6	4.71	0.78	1.62	2.2616
	PER FORBS	0.80	T		3	1.39	0.46	1.74	0.67
2	ALTE	0.2	T	3.26E-02	2				
2	LAPU	0.1	T	1.63E-02	1				
2	MUDI	0.3	T	4.88E-02	3				
2	VINU	0.2	T	3.26E-02	2				
	ANN GRASS	29.80	0.15		194	461.55	2.38	15.49	221.62
5	BRTE	29.8	.149	4.85	194				
	ANN FORBS	33.00	0.16		124	78.43	0.63	2.38	37.66
4	CAMI	0.9	T	.147	9				
4	DEPI	3.9	1.95E-02	.635	39				
4	HEPF	2.5	1.25E-02	.407	21				
4	LARE	11.1	5.55E-02	1.81	91				
4	LEDE	12.4	6.20E-02	2.02	124				
4	MONU	0.4	T	6.51E-02	4				
4	PLSP	0.3	T	4.88E-02	3				
4	POAV	1.5	T	.244	11				
	TOTAL		3.9	100.00		982.440			471.738

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	1.58
OPPO	2.69
Shrub Total	<u>4.27</u>
Total	<u>476.00</u>

PRECIPITATION DATA

RAIN GAUGE NO.	39	TWO MILE HILL	JULY 1972
OCT. 15 TO APR. 15	=	3.55	
APR. 15 TO JULY 1	=	3.95	
JULY 1 TO SEPT. 1	=	2.95	
SEPT. 1 TO OCT. 15	=	.85	
SEASON TOTAL	=	11.30	
LONG TERM AVERAGE	=	9.36	

**No utilization

1006 UPPER GOVT DRAW AUGUST 18/72 INSIDE NATIVE**

NUMBER PLOTS = 20

PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR- RENCES	WGT./ UNIT BASAL AREA	LBS PER AC.
6	*ARTR	136.50	6.82		13				
6	*PHHO	2.00	.100		7				
	PER GRASS	49.00	2.45		20	61.84	3.09	1.26	296.94
3	AGSM	11.20	.560	22.2	18	24.57	1.36	2.19	117.98
3	KOCR	26.50	1.32	52.6	15	31.10	2.07	1.17	149.33
3	POSE	11.30	.565	22.4	16	6.17	0.39	0.55	29.626
	PER FORBS	0.20	0.01		2	0.38	0.19	1.90	1.82
2	ERPU	0.10	T	.198	1				
2	SPCO	0.10	T	.198	1				
	ANN FORBS	1.20	0.06		9	1.22	0.14	1.02	5.86
4	ARHO2	0.20	1.00E-02	.397	2				
4	DEPI	0.10	T	.198	1				
4	LARE	0.30	1.50E-02	.595	3				
4	PLSP	0.60	3.00E-02	1.19	6				
	TOTAL		9.44	100.00		63.440			304.62

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	149.62
OPPO	4.37
PHHO	7.34
Shrub Total	<u>161.33</u>
Total	465.95

PRECIPITATION DATA

RAIN GAUGE NO. 9	UPPER GOVT DRAW	AUGUST 18/72
OCT. 15 TO APR. 15	=	2.94
APR. 15 TO JULY 1	=	2.93
JULY 1 TO SEPT. 1	=	.82
SEPT. 1 TO OCT. 15	=	.40
SEASON TOTAL	=	7.09
LONG TERM AVERAGE	=	8.30

**No utilization

1006 UPPER GOVT DRAW AUGUST 18/72 OUT NATIVE **

NUMBER PLOTS = 20

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER- CENT	AVE. PER- CENT BASAL AREA	PERCENT COMPO- SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR- RENCES	WGT./ UNIT BASAL AREA	LBS PER AC.
6	*ARTR	39.30	1.96		10				
6	*OPPO	7.00	.350		2				
6	*PHHO	3.20	.160		6				
	PER GRASS	41.60	2.08		19	35.74	1.88	0.86	171.61
3	AGSM	6.60	.330	15.5	19	15.67	0.82	2.37	75.243
3	KOCR	8.30	.415	19.4	9	7.03	0.78	0.85	33.756
3	POSE	26.70	1.33	62.5	19	13.04	0.69	0.49	62.614
	PER FORBS	0.80	0.04		2	0.50	0.25	0.62	2.40
2	ERPU	0.20	1.00E-02	.468	2				
2	SPCO	0.60	3.00E-02	1.41	2				
	ANN FORBS	0.30	0.01		3	0.15	0.05	0.50	0.72
4	PLSP	0.30	1.50E-02	.703	3				
	TOTAL		4.61	100.00		36.390			174.73

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	122.74
OPPO	4.80
PHHO	6.86
Shrub Total	<u>134.40</u>
Total	<u>309.13</u>

PRECIPITATION DATA

RAIN GUAGE NO. 9	UPPER GOVT DRAW	AUGUST 18/72
OCT. 15 TO APR. 15	= 2.94	
APR. 15 TO JULY 1	= 2.93	
JULY 1 TO SEPT. 1	= .82	
SEPT. 1 TO OCT. 15	= .40	
SEASON TOTAL	= 7.09	
LONG TERM AVERAGE	= 8.30	

**Production adjusted for utilization

utilization	<u>7.51</u>
Adjusted Total	<u>316.64</u>

1006 UPPER GOVT DRAW AUGUST 18/72 INSIDE SPRAY**

NUMBER PLOTS = 20
PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RENCES	WGT./ UNIT BASAL AREA	LBS PER AC.
	PER GRASS	66.90	3.34		20	106.57	5.33	1.59	511.72
3	AGCR	8.00	.400	11.4	3	11.33	3.78	1.42	54.403
3	AGSM	27.79	1.38	39.5	20	73.01	3.65	2.64	350.57
3	KOCR	15.10	.755	21.5	8	12.58	1.57	0.83	60.405
3	POSE	15.60	.780	22.2	13	8.87	0.68	0.57	42.591
3	STCO	0.50	2.50E-02	.712	1	0.78	0.78	1.56	3.7453
	ANN GRASS	3.20	0.16		11	7.40	0.67	2.31	35.53
5	BRCD	1.90	9.50E-02	2.71	11				
5	BRTE	1.30	6.50E-02	1.85	5				
	ANN FORBS	0.10	T		1	0.09	0.09	0.90	0.43
4	DEPI	0.10	T	.142	1				
	TOTAL		3.51	100.00		114.06			547.68

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	38.35
OPPO	3.17
PHHO	.58
Shrub Total	<u>42.10</u>
Total	589.78

PRECIPITATION DATA

RAIN GAUGE NO. 9	UPPER GOVT DRAW	AUGUST 18/72
OCT. 15 TO APR. 15	=	2.94
APR. 15 TO JULY 1	=	2.93
JULY 1 TO SEPT. 1	=	.82
SEPT. 1 TO OCT. 15	=	.40
SEASON TOTAL	=	7.09
LONG TERM AVERAGE	=	8.30

**No utilization

1006 UPPER GOVT DRAW AUGUST 18/72 OUT SPRAY**

NUMBER PLOTS = 20

PLOT SIZE 1X1

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 20	TOTAL WGT. GMS/20 SQ.FT.	AVE. WGT. /PLOT OCCUR-RENCES	WGT./ UNIT BASAL AREA	LBS PER AC.
6	*ARTR	1.10	5.50E-02		2				
6	*PHHO	1.50	7.50E-02		3				
	PER GRASS	42.20	2.11		20	37.48	1.87	0.89	179.97
3	AGSM	10.40	.520	23.8	20	19.04	0.95	1.83	91.424
3	KOCR	1.70	8.50E-02	3.89	4	1.85	0.46	1.09	8.8831
3	POSE	27.50	1.38	62.9	20	14.65	0.73	0.53	70.345
3	STCC	2.60	.130	5.95	5	1.94	0.39	0.75	9.3153
	PER FORBS	0.10	T		1	0.07	0.07	0.70	0.34
2	SPCO	0.10	T	.229	1				
	ANN GRASS	0.20	0.01		2	0.51	0.25	2.55	2.45
5	BRTE	0.20	1.00E-02	.458	2				
	ANN FORBS	1.20	0.06		11	0.66	0.06	0.55	3.17
4	LARE	0.10	T	.229	1				
4	PLSP	1.10	5.50E-02	2.52	11				
	TOTAL		2.31	100.00		38.720			185.92

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARTR	4.80
OPPO	2.02
PHHO	3.22
Shrub Total	<u>10.04</u>
Total	<u>195.96</u>

PRECIPITATION DATA

RAIN GUAGE NO. 9	UPPER GOVT DRAW	AUGUST 18/72
OCT. 15 TO APR. 15	=	2.94
APR. 15 TO JULY 1	=	2.93
JULY 1 TO SEPT. 1	=	.82
SEPT. 1 TO OCT. 15	=	.40
SEASON TOTAL	=	7.09
LONG TERM AVERAGE	=	8.30

**Production adjusted for utilization

utilization	<u>16.06</u>
Adjusted Total	212.02

2006 WEST PASTUR EXCL JULY 11/72 INSIDE NATIVE**

NUMBER OF PLOTS
COVER = 200, PRODUCTION = 20
PLOT SIZE 1 FT. X 10 FT.

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 200	TOTAL WGT. GMS/ 200 SQ.FT.	AVE. WGT. /PLOT	WGT./ UNIT BASAL AREA	LBS PER AC.
6	*ARPE	141.4	.707		24				
6	*ARSP	280.0	1.40		54				
6	*OPPC	100.5	.502		31				
1	ATNU	645.8	3.23	58.8	100	397.98	3.98	0.62	191.10
	PER GRASS	395.5	1.98		155	440.57	2.84	1.11	211.55
3	AGCR	0.7	T	6.37E-02	3	10.42	3.47	14.89	5.0034
3	POGR	10.0	5.00E-02	.910	3	2.83	0.94	0.28	1.3589
3	ORHY	95.5	.477	8.69	41	140.71	3.43	1.47	67.565
3	POSE	79.8	.399	7.26	52	77.35	1.49	0.97	37.141
3	SIHY	191.0	.955	17.4	155	186.05	1.20	0.97	89.335
3	SPCR	18.5	9.25E-02	1.68	21	23.21	1.11	1.25	11.145
	PER FORBS	4.10	0.02		20	6.51	0.33	1.59	3.13
2	ALTE	2.0	T	.182	20				
2	MUDI	2.1	1.05E-02	.191	17				
	ANN FORBS	53.70	0.27		162	155.32	0.96	2.89	74.58
4	GIPU	0.5	T	4.55E-02	5				
4	LARE	0.9	T	8.19E-02	5				
4	LEDE	0.3	T	2.73E-02	3				
4	MATA	45.6	.228	4.15	162				
4	PLPA	6.4	3.20E-02	.582	56				
	TOTAL		8.1	100.00		1000.38			480.352

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARPE	17.42
ARSP	2.40
OPPO	16.37
Shrub Total	<u>36.19</u>
Total	<u>516.54</u>

PRECIPITATION DATA

RAIN GAUGE NO.	13	WEST PASTUR EXCL	JULY 11/72
OCT. 15 TO APR. 15	=	.53	
APR. 15 TO JULY 1	=	1.25	
JULY 1 TO SEPT. 1	=	1.77	
SEPT. 1 TO OCT. 15	=	.41	
SEASON TOTAL	=	3.96	
LONG TERM AVERAGE	=	5.65	

**No utilization

2006 WEST PASTUR EXCL JULY 10/72 OUT NATIVE**

NUMBER OF PLOTS
COVER = 200, PRODUCTION = 20
PLOT SIZE 1 FT. X 10 FT.

PLANT CODE	PLANT NAME	TOTAL TRANS BASAL AREA PER-CENT	AVE. PER-CENT BASAL AREA	PERCENT COMPO-SITION	ABS. PLOT FREQ. BASE 200	TOTAL WGT. GMS/ 200 SQ.FT.	AVE. WGT. /PLOT CCCUR- RENCES	WGT./ UNIT BASAL AREA	LBS PER AC.
6	*ARPE	12.7	6.35E-02		4				
6	*ARSP	423.2	2.12		109				
6	*OPPO	278.6	1.39		45				
1	ATNU	850.3	4.25	64.4	105	511.49	4.87	0.60	245.60
	PER GRASS	417.1	2.09		93	361.58	3.89	0.87	173.62
3	BOGR	0.5	T	3.79E-02	1	0.62	0.62	1.24	.29770
3	ORHY	59.7	.298	4.52	28	74.16	2.65	1.24	35.609
3	POSE	192.2	.961	14.6	74	145.47	1.97	0.76	69.850
3	SIHY	53.4	.267	4.05	93	69.77	0.75	1.31	33.501
3	SPCR	111.3	.556	8.43	83	71.56	0.86	0.64	34.361
	PER FORBS	0.70	T		2	1.22	0.61	1.74	0.59
2	ALTE	0.1	T	T	1				
2	MUDI	0.6	T	4.55E-02	2				
	ANN FORBS	51.50	0.26		184	202.44	1.10	3.93	97.21
4	GIPU	0.1	T	T	1				
4	LARE	1.1	T	8.34E-02	11				
4	LEDE	0.2	T	1.52E-02	2				
4	MATA	43.7	.218	3.31	184				
4	PLPA	6.4	3.20E-02	.485	56				
	TOTAL		10.2	100.00		1076.73			517.013

* NOT COMPUTED IN PERCENT COMPOSITION
T - TRACE

PRODUCTION ESTIMATES OF SHRUBS AND WOODY MAT FORM PLANTS

ARPE	4.13
ARSP	11.23
OPPO	25.54
Shrub Total	<u>40.90</u>
Total	<u>557.91</u>

PRECIPITATION DATA

RAIN GUAGE NO. 13	WEST PASTUR EXCL	JULY 10/72
OCT. 15 TO APR. 15	=	.53
APR. 15 TO JULY 1	=	1.25
JULY 1 TO SEPT. 1	=	1.77
SEPT. 1 TO OCT. 15	=	.41
SEASON TOTAL	=	3.96
LONG TERM AVERAGE	=	5.65

**Production adjusted for utilization

utilization	<u>.63</u>
Adjusted Total	<u>558.54</u>

PASTURE WEST JULY 1973
WEST JULY 1973
WEST JULY 1973

COVER - 500
NUMBER OF PLANTS
PLANT CODE

PLANT CODE
AREA
PER - AREA
CENT

PLANT CODE	AREA	PER - AREA	CENT
101	1.12	0.1	1.12
102	1.12	0.1	1.12
103	1.12	0.1	1.12
104	1.12	0.1	1.12
105	1.12	0.1	1.12
106	1.12	0.1	1.12
107	1.12	0.1	1.12
108	1.12	0.1	1.12
109	1.12	0.1	1.12
110	1.12	0.1	1.12
111	1.12	0.1	1.12
112	1.12	0.1	1.12
113	1.12	0.1	1.12
114	1.12	0.1	1.12
115	1.12	0.1	1.12
116	1.12	0.1	1.12
117	1.12	0.1	1.12
118	1.12	0.1	1.12
119	1.12	0.1	1.12
120	1.12	0.1	1.12
121	1.12	0.1	1.12
122	1.12	0.1	1.12
123	1.12	0.1	1.12
124	1.12	0.1	1.12
125	1.12	0.1	1.12
126	1.12	0.1	1.12
127	1.12	0.1	1.12
128	1.12	0.1	1.12
129	1.12	0.1	1.12
130	1.12	0.1	1.12
131	1.12	0.1	1.12
132	1.12	0.1	1.12
133	1.12	0.1	1.12
134	1.12	0.1	1.12
135	1.12	0.1	1.12
136	1.12	0.1	1.12
137	1.12	0.1	1.12
138	1.12	0.1	1.12
139	1.12	0.1	1.12
140	1.12	0.1	1.12
141	1.12	0.1	1.12
142	1.12	0.1	1.12
143	1.12	0.1	1.12
144	1.12	0.1	1.12
145	1.12	0.1	1.12
146	1.12	0.1	1.12
147	1.12	0.1	1.12
148	1.12	0.1	1.12
149	1.12	0.1	1.12
150	1.12	0.1	1.12
151	1.12	0.1	1.12
152	1.12	0.1	1.12
153	1.12	0.1	1.12
154	1.12	0.1	1.12
155	1.12	0.1	1.12
156	1.12	0.1	1.12
157	1.12	0.1	1.12
158	1.12	0.1	1.12
159	1.12	0.1	1.12
160	1.12	0.1	1.12
161	1.12	0.1	1.12
162	1.12	0.1	1.12
163	1.12	0.1	1.12
164	1.12	0.1	1.12
165	1.12	0.1	1.12
166	1.12	0.1	1.12
167	1.12	0.1	1.12
168	1.12	0.1	1.12
169	1.12	0.1	1.12
170	1.12	0.1	1.12
171	1.12	0.1	1.12
172	1.12	0.1	1.12
173	1.12	0.1	1.12
174	1.12	0.1	1.12
175	1.12	0.1	1.12
176	1.12	0.1	1.12
177	1.12	0.1	1.12
178	1.12	0.1	1.12
179	1.12	0.1	1.12
180	1.12	0.1	1.12
181	1.12	0.1	1.12
182	1.12	0.1	1.12
183	1.12	0.1	1.12
184	1.12	0.1	1.12
185	1.12	0.1	1.12
186	1.12	0.1	1.12
187	1.12	0.1	1.12
188	1.12	0.1	1.12
189	1.12	0.1	1.12
190	1.12	0.1	1.12
191	1.12	0.1	1.12
192	1.12	0.1	1.12
193	1.12	0.1	1.12
194	1.12	0.1	1.12
195	1.12	0.1	1.12
196	1.12	0.1	1.12
197	1.12	0.1	1.12
198	1.12	0.1	1.12
199	1.12	0.1	1.12
200	1.12	0.1	1.12

NOT COMPUTED IN PRESENT REPORT
I - TRACE
ESTIMATION ESTIMATES OF BURNING AND WIND
APPE
ARSP
OPPO
Total date
Total

BLM LIBRARY
SC-324A, BLDG. 50
DENVER FEDERAL CENTER
P. O. BOX 25047
DENVER, CO 80225-0047

PRECIPITATION DATA
WEST WASHINGTON COUNTY TO BURN
APR. 15 TO APR. 15 = 0.23
APR. 15 TO JULY 1 = 1.12
MAY 1 TO SEPT. 1 = 1.12
SEPT. 1 TO NOV. 1 = 0.1
SEASON TOTAL = 2.57
LONG TERM AVERAGE = 2.57
Associated total
228.25

BLM Library
Denver Federal Center
Bldg. 50, OC-521
P.O. Box 25047
Denver, CO 80225

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