

Nevada Las Vegas Dist

Phenology of Forage Plants

Mustang Allotment

1. Bluebunch wheatgrass (Agsp)

Normal growth and food storage curve. Greens in April on snow melt, if additional ppt received seeds in late June. Trace species in this allotment. Grows in pinyon-juniper type.

2. Blue grama (Bogr) and hairy grama (Bohi)

Greens with warm (70°F) temperatures and precipitation. Responds to summer rains. Replaces about 1/3 of roots between flowering and seed-ripe time. Usually seed ripe in September. Grows in upper sagebrush and pinyon-juniper type.

3. Galleta grass (Hija)

Greens in spring in late Feb. - mid March on winter moisture. Makes little height growth and seldom shoots seed-heads in spring. Stores some NSC (non-structural carbohydrates) in roots on spring growth. Makes major height growth and puts out seed heads in response to summer rains sometime between July 15 - October 15. Does not produce viable seed. Spreads by rhizomes only. Stores NSC in roots after heads emerge. Primary grass forage plant in climax. Grows in all types.

4. Indian ricegrass (Orhy)

Grows in spring (February - May) on winter and spring moisture. If sufficient spring moisture will make viable seed in June. Will also respond to late summer (Sept. - Oct.) moisture and will produce viable seed in late Sept. - Nov. Makes hard-coated seed. Germinates best from 4" depth on sands. Cattle eat the seed-heads the first time through the pasture. Grows on sands in whitesage, hopsage, sagebrush types.

5. Squirrel tail (Sihy)

Grows in spring on winter moisture. Greens Feb. 15 - March 15. Almost always ($r = .7$) makes some seed in spring about April 1 - May 1. Vigorous seeder, easily crowded out by better grasses. Unpalatable after seeds. Grows hopsage - sagebrush types.

6. Dropseeds (spike, mesa, sand) (Spco, Spfl, Spcr)

Green in summer on precipitation between July 1 - October 1. Vigorous seeder, produces much hard-coated seed. Short lived plant, average life span 1.9 years, maximum 8 years. Grows in sands in shadscale, hopsage, sagebrush types.

7. Thurber's needle-grass (St th)

Greens in early spring (Feb. 1 - March 1) on winter moisture. Will seed in April or May. Dormant through summer, may green again in fall. Grows in all sagebrush types and hopsage type.

8. Delicious sagebrush (Ar tr wy)

Greens in mid Feb. Heavily grazed March - April. Makes seed on summer rains - July to Oct. Grows in sagebrush type.

9. 4-wing saltbush (At ca)

Greens in late spring, stays green till fall. Makes viable seed in fall (Sept. - Oct.) in response to rains July 15 - Sept. 15. Invader-type plant, grows only in disturbed areas.

10. Shadscale (At co)

Greens in late spring in response to warm temperatures and moisture. Normally dormant after July 1 but can green again whenever precipitation occurs. Grazed mostly winter and early spring. Usually seeds in spring in April - June period. Grows in valley bottoms and flats.

11. Cliff rose and desert bitterbrush (Cost and Pugl)

Normal growth in spring, begins in March on winter moisture. Seeds in late April - Oct., depending upon moisture. Grows in pinyon-juniper type.

12. White sage (Eula)

Begins growth in spring on winter moisture. May hold green during summer if sufficient moisture but cannot make photosynthetic shift to grow at high temperatures. Seeds in fall in response to precipitation in late Aug. - Nov. Seed ripe usually in Sept. - Dec. Rarely seeds in a cool summer in July. Grazing in Feb. 15 - March 30 period most detrimental to plant because stores food in last year's twigs. Makes viable seed about 1 year in 3. Occupies lower valley areas. Scattered through hopsage and shadscale types.

T A B L E I

Write-up No.	Type	Ac.	Grasses	% Grass	Grass Vigor	Other & edible spp.	Density of Type - %
BS-12	4 Artr-Chvi	440	Stco-Sihy	6 (+4 Brte)	Med.	Cost - 10	21
BS-22	4 (Juos-Pimr)	850	Sihy	T (+20 Brte)	Low	Cost - 8	40
15 Ha	4 Artr-Chvi	6370	Hija	7	Low	--	16
18 H	4 Artr-Chvi	5480	Hija	2	Low	Cost 5, Epne 5	24
22 H	4 Artr-Arno	2200	Orhy-Hija	4 (+13 Brte)	Low	Cost 3	23
24 H	4 Artr-Arno	510	Sihy-Hija	2	Low	Cost 1	17
25 H	4 Artr-Arno	290	Hija	6	Med.	Cost 9	16
30 H	4 (Pimo-Juos)	460	Hija	3	Low	Cost 21	26
WB-1	4 Artr-Arno	270	Hija	3 (20 Brte)	Low	Cost 3	27
WB-2	4 Artr-Cost	1450	Sihy-Hija	4 (+12 Brte)	Low	Cost 23	29
WB-3	4 Artr	400	Hija-Sihy	5	Low	Cost 2 Amal 2	24
BS-18	9 Pimo-Juos	320	Sihy-Stco	9	Med.	Amal 2, Cost 2	18
BS-19	9 Juos-Pimo	1120	Sihy-Stco	5	Low	Cost 5	17
BS-21	9 Juos-Pimo	320	Sihy	T (20 Brte)	Low	Cost 3	25
11-Hc	16 Chvi-Eula	3130	Hija-Sihy	7	Low	Eula (22)	16

Summary 4 type - 18,260 ac.
 9 type - 2,220 ac.
 16 type - 3,130 ac.