June 26, 1979

Work Plan 1979

BMt Bitterbrush Exclosure Site studies

Cage study Series III

1. Select bitterbrush plants for Series III and cage, to produce effect of treatment A B in 3-treatment RR grazing system
   (Plants caged June 29) but not measured (Lavon Pikon Herman)
   Cages pinned down?
2. Remove cages about mid August
   Done August 9/79 Lavon Shumway, Mower
   Measure plants
3. Remeasure plants end of grazing season Sept 15 +

Series I and II

Remeasure Sept 15 +

I first caged May 14 1961
II " " June 26 1963

Boyle
Aug 27 1979

Study Plan - Bitterbrush Pruning
~~1979~~ 1980 Series V

Location BM#1 bitterbrush exclosure

Purpose To determine the effect of pruning out all dead wood from the crowns of bitterbrush plants on the growth and vigor of the plants

Kinds and location of plants
kind Intermediate bordering on large size. 35-75% old crown (30 to 40 years of age)
Location Inside exclosure on strips on which bitterbrush plant will not be harvested for size - age information. Study plants will be under "full" competition stress

Time of pruning Month of ~~September~~ May 1979
after seasonal growth has been completed

Number of plants 10 to 20 if available together with an equal number of check (unpruned) plants

Location of pruned and check plants

Pair the pruned and check plants within strips on similar site conditions but keep the plants separated so one does not influence the other

Measurements (pruned and check plants)

1. Stake each plant
2. Information on stake
   - Plant number 1, 2, 3, etc
   - Treatment PR = pruned CK = check
   - Year of treatment '79
3. Record coordinates of location of plants on strips.

Plant measurements

Before pruning & check plants
- Crown
  - L" and W" (overall live and dead crown)
  - Height" Max live or dead
  - Square inches Live crown
  - Ave twig growth 1979
  - Seed production " 0, L M or H

After pruning
- Live crown
  - L" and W"
  - Height"

Materials and equipment

Stake 3/4" x 1 1/2" x 15" 20 to 50
Stamps Ink pad; info for info on stakes
2 100' tapes
2 74" rulers
2 36" rulers
1 1 ft square wire frame
1 6" " " "

Pruning 1979 Bitterbrush
Date of pruning Sept 1979
100% removal dead wood

Measurements on each plant

	Before pruning	After pruning
Whole crown (dead & live portions together		
Length inches	✓	
Width "	✓	
Dia "	✓	
Height "	✓	
Percent crown alive	✓	100
" " dead	✓	0
Live crown sq"	✓	✓
" " L"	✓	✓
" " W"	✓	✓
" " Dia"	✓	✓

Note! Check list. Oct 15, 1979

Records for 1978 seedlings (caches) overlooked and not staked and measured in 1978 but found and staked in 1979 are on the sheets headed — Missed 1978 Seedlings. The caches are numbered from 383 Through 536 Total — 536 − 383 = 293

The location of these caches is as follows

Cache No		Strip
383	Note!	6
384-388 & 397		6A
389-395		1
396		1A
398-412		7
413-17		2A
418-22		3
423-26		3A
427-34 & 441		4
435-40 & 42, 43		5
444-45		5A
446-51		6
452-58		6A
459 only		7
460-64		7A

Cont'd

(1)

Cache No	Strip
465 - 70	8
471 - 76	8A
477 - 82	9
483 - 85	9A
468 - 93	10
494 - 99	10A
500 - 08	11
509 - 17	11A
518 - 27	12
528 - 39	12A
540 - 49	13
550 - 55	13A
536 - 59	14
560 - 63	14A
564 - 66	15
567 - 71	15A
572 - 76	16
577 - 80	16A
581 - 85	17
586 (only) and last	17A

Note! Continue page (3)

(2)

Also sheets (1) Through (4) contain records of other Pt plants and of pine trees on the ships indicated 0 Through 6 1A and 7

Oct 15 1979
AH

Note! Records for 2 year old and older plants on the remaining strips (13A through 17A) are on the separate sheets attached the first page is marked → 2yr old +

The records consist of cache number and location - coordinates and site, No size measurements or record of number of plants in cache taken