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#### *About the Institute*

The Hunt Institute for Botanical Documentation, a research division of Carnegie Mellon University, specializes in the history of botany and all aspects of plant science and serves the international scientific community through research and documentation. To this end, the Institute acquires and maintains authoritative collections of books, plant images, manuscripts, portraits and data files, and provides publications and other modes of information service. The Institute meets the reference needs of botanists, biologists, historians, conservationists, librarians, bibliographers and the public at large, especially those concerned with any aspect of the North American flora.

Hunt Institute was dedicated in 1961 as the Rachel McMasters Miller Hunt Botanical Library, an international center for bibliographical research and service in the interests of botany and horticulture, as well as a center for the study of all aspects of the history of the plant sciences. By 1971 the Library's activities had so diversified that the name was changed to Hunt Institute for Botanical Documentation. Growth in collections and research projects led to the establishment of four programmatic departments: Archives, Art, Bibliography and the Library.

Taipale Nat. Forest Stand Plots 1981-1982.

FF38

UNITED STATES DEPARTMENT OF AGRICULTURE  
FOREST SERVICE

Toiyabe National Forest  
Bridgeport, California 93517

May 24, 1982

6320



Mr. Jack L. Reveal  
6983 Camino Pacheco  
San Diego, CA 92111

Dear Jack:

Enclosed is the map you requested. The names you need to complete your office work are, Don Crompton and Lorenzo Stowell. I also completed the test on the sagebrush you brought in and it appears to be Artemisia tridentata wyomingensis.

I went out to the Jack's Spring plot on Friday last week. We can drive right to the site, but it takes over four hours. We had better plan on staying the night.

We will see you around the 1st of June. Have a safe trip back.

Sincerely,

A handwritten signature in blue ink that reads 'Paul Bryant'. The signature is written in a cursive style with a large, sweeping 'P' and 'B'.

Paul Bryant  
for  
Gary E. Sayer  
District Ranger

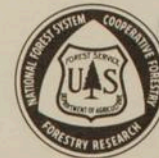
UNITED STATES DEPARTMENT OF AGRICULTURE

FOREST SERVICE

Toiyabe National Forest  
Bridgeport, California 93517

April 22, 1982

6320



Jack L. Reveal  
6983 Camino Pacheco  
San Diego, CA 92111

Dear Jack:

Sorry I didn't get this letter off sooner, but I just got out to Huntoon Valley this Monday. After looking at the country I think we should wait ten days to two weeks before starting the trend studies.

This last week has been the first good growing conditions of the year. Most of the grasses and forbs have just started growing. Conditions should be about right starting the first week in May.

Coordination could be a problem because we are planning to be off the district May 10 thru 14 and May 25 thru 28.

I hope that we can scheule the trend studies around these two weeks. If you have any problems with these dates, please give me a call.

Sincerely,

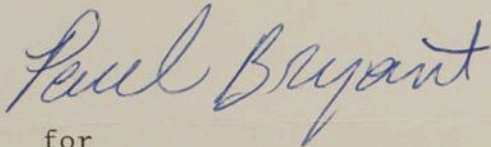
for  
GARY E. SAYER  
District Forest Ranger

Page 2 - 6320 - Jack L. Reveal

I would appreciate it if you could let me know what your plans are for completing the contract. If any of the dates are conflicting with your plans I am sure we can adjust our time schedule.

I am looking forward to working with you again. I could use the work in plant identification.

Sincerely,

A handwritten signature in blue ink that reads "Paul Bryant". The signature is written in a cursive style with a large initial "P".

for  
GARY E. SAYER  
District Forest Ranger

6983 Camono Pacheco  
San Diego, CA 92111  
15 March, 1982

Mr. Paul Bryant  
U. S. Forest Service  
Bridgeport, CA 93517

Dear Paul:

Many thanks for your letter of 3 March. I'd been wondering about the weather and how things were looking.

There are no problems here, Paul. I'll be ready to begin the plot work the last week in April--or later if the season is a bit late as well it might be. We may take a two-week vacation between the 10th and 24th of April, and if we do I'd come up on the 26th which is almost a week beyond the called-for dates. That should not be a problem unless this proves to be a very early spring; so we'll have to keep in touch with each other so I will know where we stand with plant maturity, etc.

I heard from Carol at Christmastime and knew she'd moved to Choteau, Montana. What a great place that is. I hope I'll get up there before she moves elsewhere. And it's startling that her replacement is from Cascade; that is where I started with the Forest Service in 1935--working three seasons on the old Thundermountain District out of what was then the headquarters at Landmark. It was a great place to work.

My work here has fallen off to almost nothing as the result of the depression in the building industry. But I still do bits and pieces of jobs and spend the rest of my time at the herbarium or at my own things.

Oh yes--to the list of plots for 1982 we must add Long Doctor Spring - 227A. It is scheduled for about 19 May. We didn't do it last year because it got fed-down or something. Please note, too, that the number the Contract assigned --227B--was used for the Ryegrass Unit plot and hence Long Doctor becomes 227A. You may also want to do another Bald Mountain Plot because I mislocated the one we installed. I don't mind putting it in again.

Another thing, Paul: putting in five plots in five days is pretty darn fast for this ole boy. The following might be more real: Powell, 4/27; Mickey, 4/29; Wellington, 5/1; Scott, 5/3; Risue, 5/5. The remaining 3 plots could be put in sometime between

the 17th and the 24th of May. If I re-do the Bald Mtn. plot, I might have to come back sometime in June.

I hope you'll check these dates out against what the real-world seems to be saying and let me know as soon as you can if they are amiss. I believe that as long as one does a plot before the stock gets on it, it's better to err on the late side than on the too-early side. But last year on several occasions we were doing plots with the stock looking over our shoulders. The year before was the same or even worse--too close for comfort. So as you well know, Paul, getting to the plot at just the right time can be a problem.

I have with me the expansion folder with all the plot forms that Carol kept in the closet. We have enough to start with except for the Exhibit 2 form.

I'll bet everyone's glad for the new office.

Am looking forward to getting back....

Sincerely,

*Jack*

Jack for RECON

UNITED STATES DEPARTMENT OF AGRICULTURE  
FOREST SERVICE  
Toiyabe National Forest  
Bridgeport, California 93517

March 3, 1982

6320



Jack L. Reveal  
6983 Camino Pacheco  
San Diego, CA 92111

Dear Jack:

It's almost that time of the year again. The last storm washed most of the snow away and I'm already working on a strong case of spring fever. I wanted to contact you early this year so that if there are any problems we can take care of them early.

Carol moved to Montana this winter and a fellow from Cascade Idaho, Bruce Fox, took her place in Bridgeport. I will be handling the initial stages of the trend contract this year until Bruce can get his feet on the ground.

After going back through our records, I show that the following studies need to be completed this year:

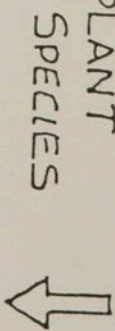
<u>Macroplat Name &amp; Number</u>	<u>Approximate Date of Measurement</u>
④ Wellington Spring - 246A	April 22, 1982
③ Mickey Canyon - 246B	April 21, 1982
⑤ Scott Spring Unit - 246C	April 23, 1982
① Powell Unit - 239A	April 20, 1982
② Risue Unit - 239B	April 24, 1982
⑦-⑧ Jack Spring Canyon	May 21-22, 1982
⑥ + Long Dr. 2270	^ 19 "

The way the weather has been the past two weeks it looks as though these dates may still be valid. I will be keeping a close watch on the phenology of these areas and I will let you know if we will need to make any changes.

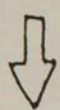
# PLANT LIST

BRIDGEPORT R.D. MACROPLOTS - 1981~

PLANT SPECIES



MACROPLOT



GRASSES & GRASS-LIKE

PLANT SPECIES	MACROPLOT						
	RYEGRASS	HUNEWILL HILLS	CONWAY	BALD MOUNTAIN	BUCKEYE - LOWER	SARDINE	BUCKEYE - UPPER
<i>Bromus tectorum</i>				X			
<i>B. caryinatus</i>				X	X	X	X
<i>Elymus cinereus</i>				X			X
<i>E. triticoides</i>	X						X
<i>Hilaria rigida</i>		X					
<i>Leucopoa Kingii</i>				X			
<i>Melica bulbosa</i>					X		
<i>M. spectabilis</i>						X	
<i>M. stricta</i>					X		
<i>Muhlenbergia richardsonii</i>							X
<i>Oryzopsis hymenoides</i>	X	X	X			X	
<i>Poa cusickii</i>							X
<i>P. sandbergii</i>			X				

Continued

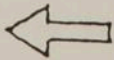

1

JRavent. 8/81



# PLANT LIST

BRIDGEPORT R.D. MACROPLOTS - 1981~

PLANT SPECIES  MACROPLOT 

SHRUBS

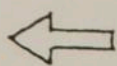
PLANT SPECIES	RYEGRASS	HUNEWILL HILLS	CONWAY	BALD MOUNTAIN	BUCKEYE - LOWER	SARDINE	BUCKEYE - UPPER	BUCKEYE - MIDDLE
<i>Artemisia tridentata</i> ssp. <i>tridentata</i>			X					
<i>A. t.</i> ssp. <i>vaseyana</i>		X		X	X	X	X	X
<i>A. t.</i> ssp. <i>wyomingensis</i>	X							
<i>Chrysothamnus nauseosus</i> ssp. <i>hololeucus</i>			X					
<i>C. viscidiflorus</i> ssp. <i>viscidiflorus</i>	X	X		X	X		X	X
<i>C. v.</i> ssp. <i>puberulus</i>			X					
<i>Ephedra viridis</i>	X			X				
<i>Grayia spinesa</i>			X					
<i>Prunus andersonii</i>				X				
<i>Rurshia tridentata</i>		X			X	X	X	
<i>Ribes cereum</i>					X			
<i>R. velutinum</i>				X				
<i>Rosa canisii</i> var. <i>gratissima</i>							X	
<i>Symphoricarpos vaccinioides</i>	X			X		X	X	X
<i>Tetradymia canescens</i>	X			X				



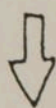
# PLANT LIST

BRIDGEPORT R.D. MACROPLOTS - 1981~

PLANT SPECIES



MACROPLOT



HERBS-2

PLANT SPECIES	RYEGRASS	HUNEWILL HILLS	CONWAY	BALD MOUNTAIN	BUCKEYE - LOWER	SARDINE	BUCKEYE - UPPER	BUCKEYE - MIDDLE
<i>Crepis acuminata</i>							X	X
<i>C. occidentalis</i>	X							
<i>Delphinium nuttanic</i>	X							
<i>Equisetum hyemale</i>							X	
<i>Erigeron bloomeri</i>	X							
<i>Erigeron wilcoxii</i>	X							
<i>Erigeron elatum</i>		X						
<i>E. collinum</i>	X	X						
<i>E. ovalifolium</i>			X					
<i>E. sparganium</i>				X		X	X	
<i>E. umbellatum</i>					X			
<i>Ergasilium capitatum</i>					X			

continued

# PLANT LIST

BRIDGEPORT R.D. MACROPLOTS - 1981~

PLANT SPECIES



MACROPLOT



HERBS - 3

PLANT SPECIES	MACROPLOT	RYEGRASS	HUNEWILL HILLS	CONWAY	BALD MOUNTAIN	BUCKEYE - LOWER	SARDINE	BUCKEYE - UPPER	BUCKEYE - MIDDLE
<i>Gageophytum diffusum parviflorum</i>		X	X			X		X	
<i>Hydrophyllum capitatum</i>							X		
<i>Leptodactylon pungens</i>		X	X		X				
<i>Linanthus nuttallii</i>					X			X	
<i>Lomatium dissectum</i>		X			X		X		
<i>Lotus nevadensis</i>					X				
<i>Lygodesmia spinosa</i>		X			X		X		
<i>Lepinus caudatus</i>					X		X	X	
<i>Mentzelia albicaulis</i>						X			
<i>Mertensia sp</i>							X		
<i>Monardella odoratissima ssp glauca</i>						X			
<i>Mimulus densus</i>		X							

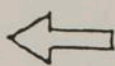
Continued

# PLANT LIST

BRIDGEPORT R.D. MACROPLOTS - 1981~

PLANT

SPECIES



MACROPLOT



HERBS - 4

PLANT SPECIES	RYEGRASS	HUNEWILL HILLS	CONWAY	BALD MOUNTAIN	BUCKEYE - LOWER	SARDINE	BUCKEYE - UPPER	BUCKEYE - MIDDLE
<i>Paeonia bracte</i>					X	X		
<i>Potentilla gracilis</i> var. <i>nuttallii</i>						X		
<i>Rumex pauciflorus</i>							X	
<i>Senecio integerrimus</i> var. <i>exaltatus</i>						X	X	
<i>S. pauciflorus</i>				X				
<i>Thalictrum fendleri</i>						X		
<i>Viola purpurea</i>	X			X	X	X	X	
<i>Wyethia mollis</i>					X	X	X	

- end -

7

Sample  
of  
reared plants

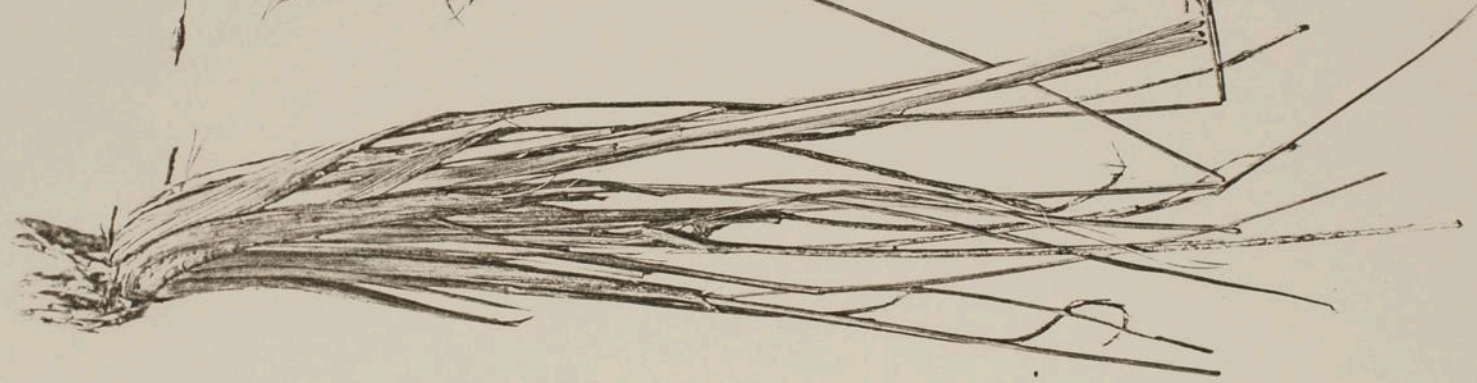
PLANT  
VOUCHER SPECIMENS

Allen



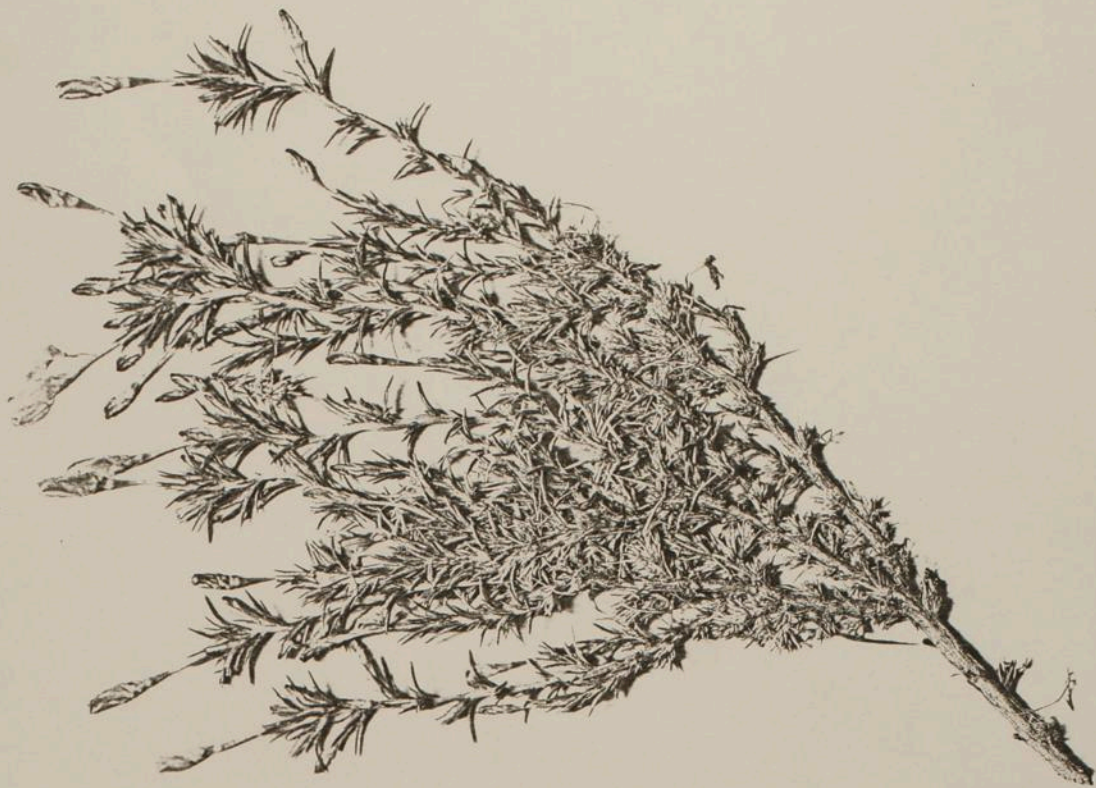
RYEGRASS -  
1981

#2. *SITANION HYSTRIX*



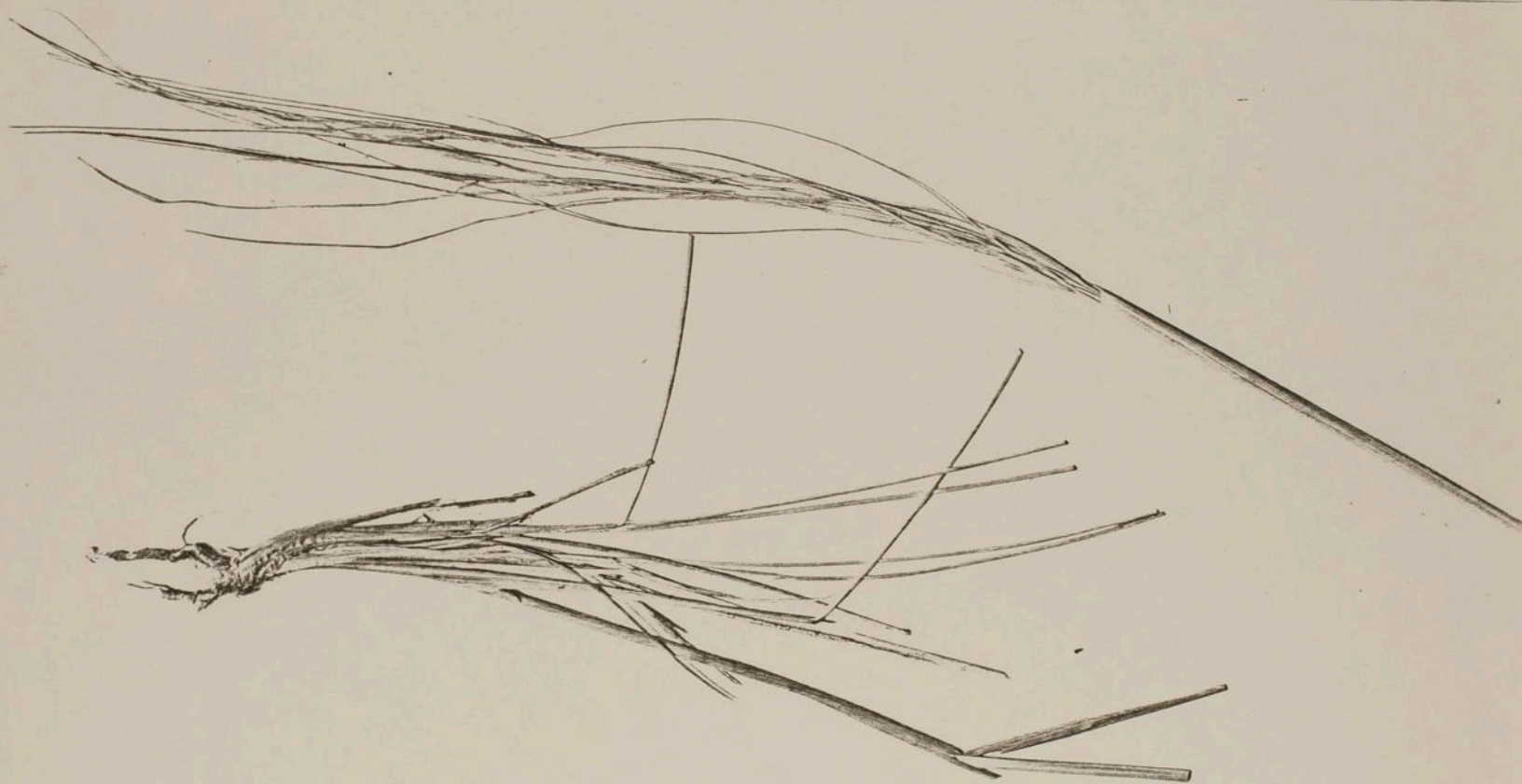
RYEGRASS  
1981 227-13.

#1. *ORYZOPSIS HEMENOIDES*



Ryegrass. 1981

#4 *Leptodactylon purgens*



Ryegrass 1981

#3 *Stipa comata*



Ryegrass 1981

#6. *Chaenactis douglasii*



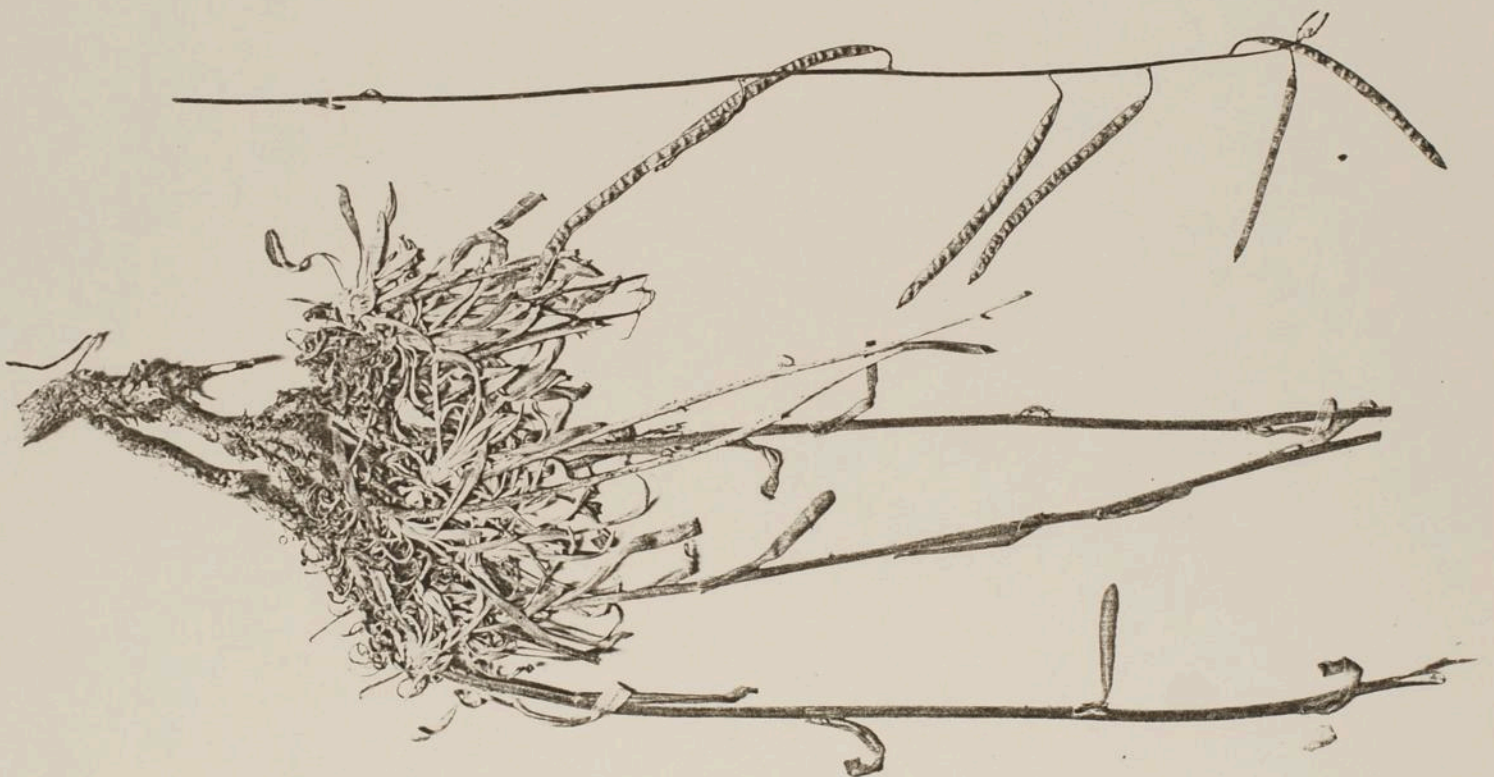
Ryegrass 1981

#5. *Phlox hoodii*



Ryegrass 1981

8. *Lygodesmia spinosa*



Ryegrass.  
1981

#7. *Arabis holboellii*

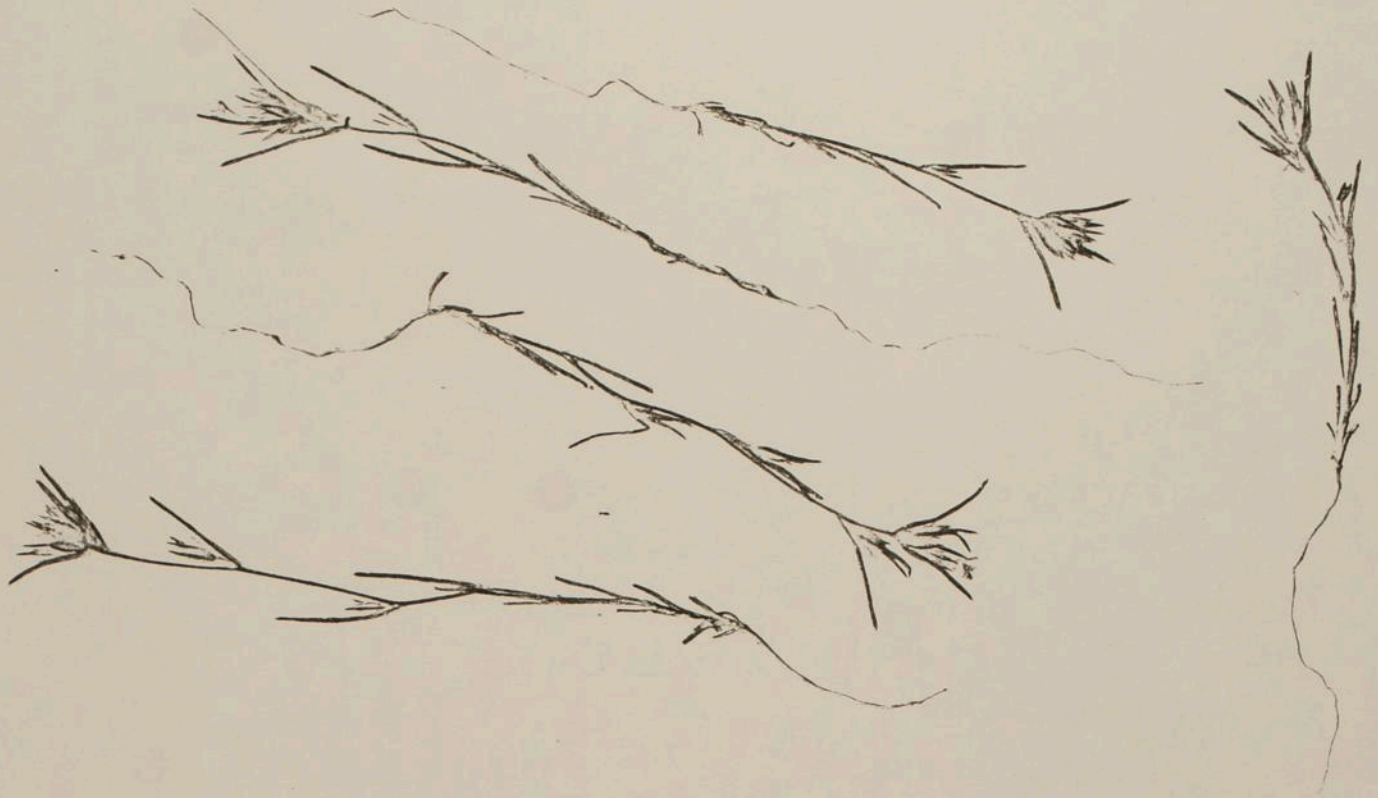


Ryegrass 1981 #10. *Artemisia tridentata* ssp. *wyomingensis*



Ryegrass 1981

9. *Chrysothamnus viscidiflorus* ssp. v.



Ryegrass 1981

#12. *Eriastrum wilcoxii*



Ryegrass. 1981

#11 *Chryptantha circumcissa*



only one found

Ryegrass 1981

#14. *Chorizanthe watsonii*



Ryegrass 1981



#13. *Cryptantha watsonii*



Ryegrass 1981

#16. *Erigeron bloomeri*



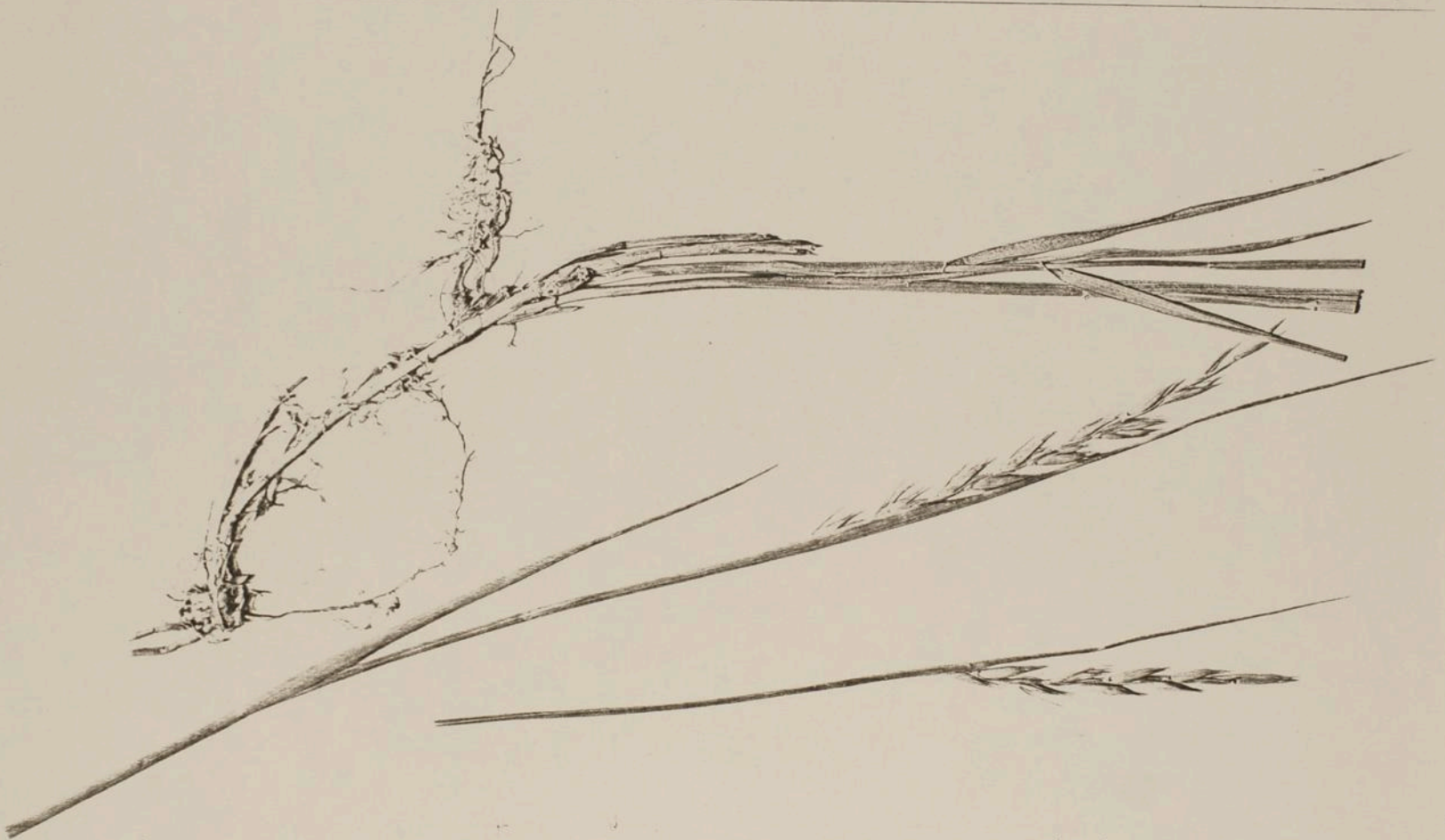
Ryegrass 1981

#15. *Delphinium andersonii*



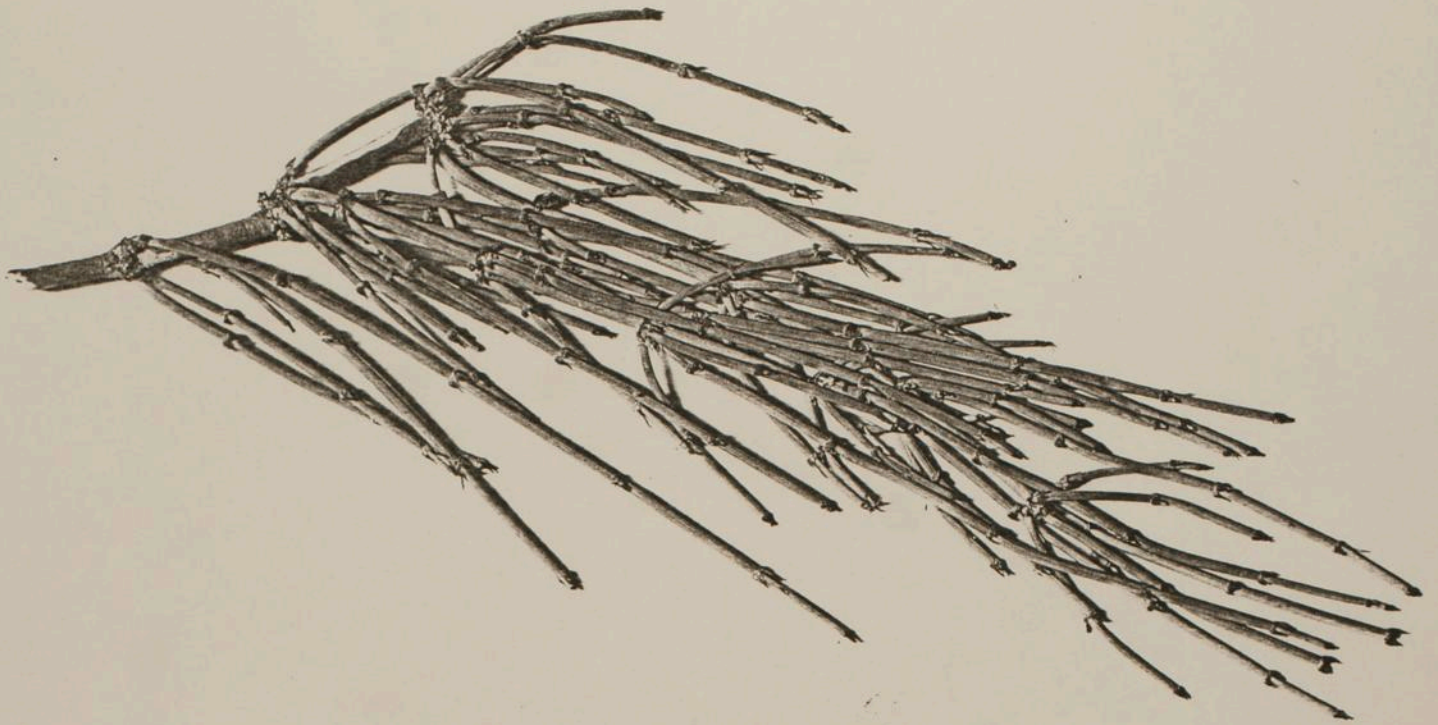
Ryegrass 1981

#18. *Carex* cf. *douglasii*



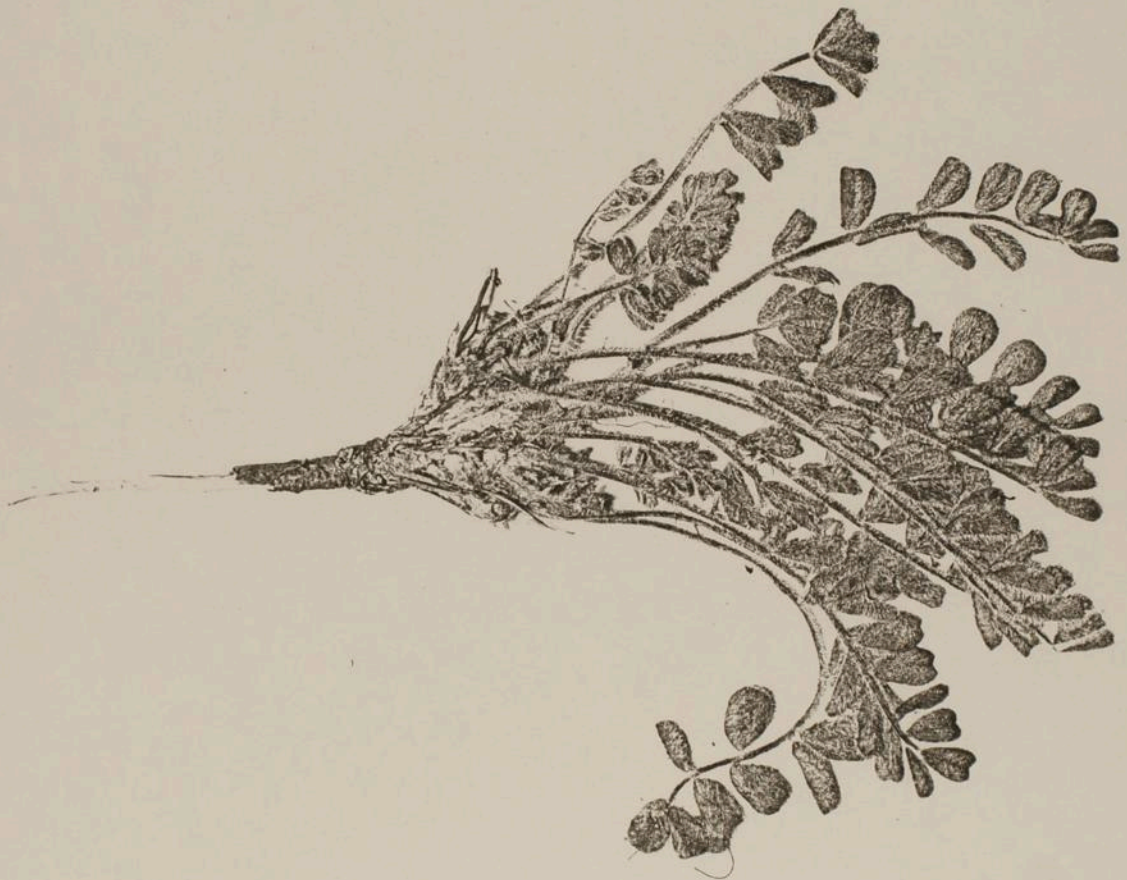
Ryegrass 1981

#17. *Elymus triticoides*



Ryegrass  
1981

# 20. *Ephedra viridis*



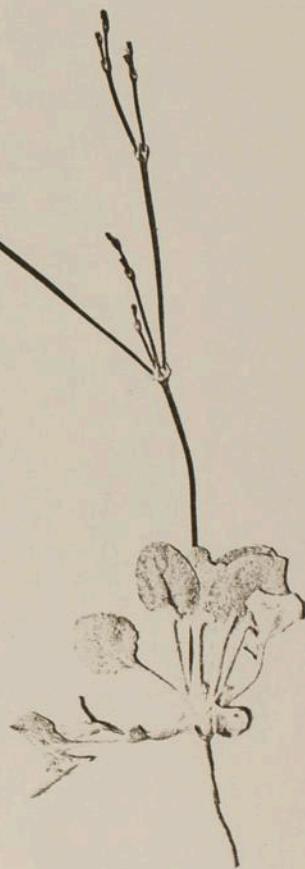
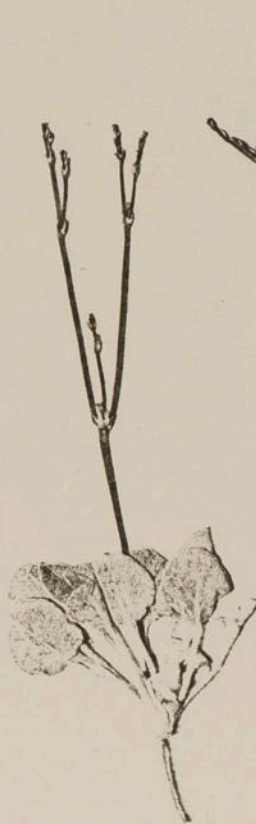
Ryegrass 1981

# 19 *Astragalus* cf. *purshii*

SPECIMEN LOST

Ryegrass  
1981

#22. *Calyptridium roseum*



Ryegrass  
1981

#21. *Eriogonum collinum*



Ryegrass. 1981

#24. *Gayophytum diffusum* ssp. *parviflorum*



Ryegrass  
1981

#23. *Crepis occidentalis*



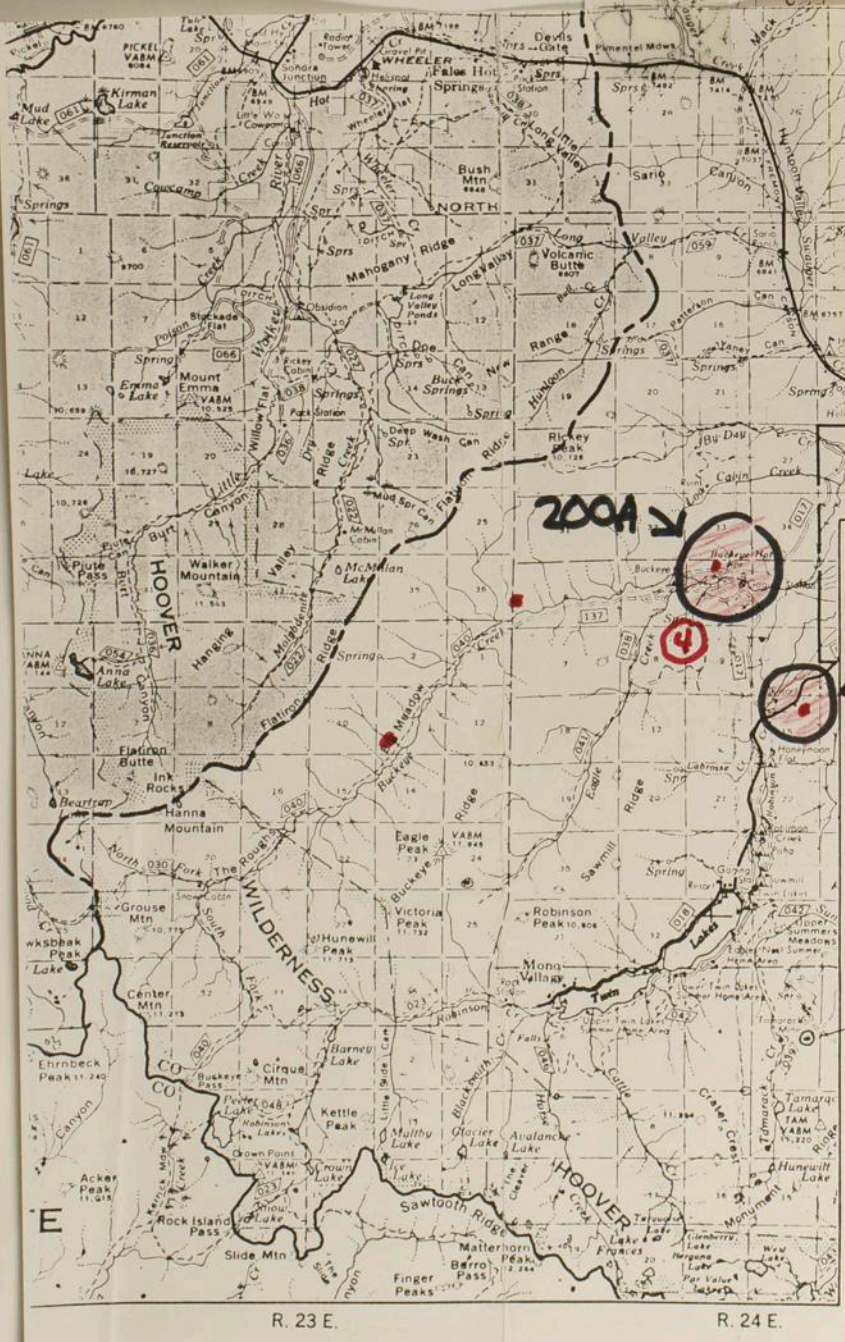
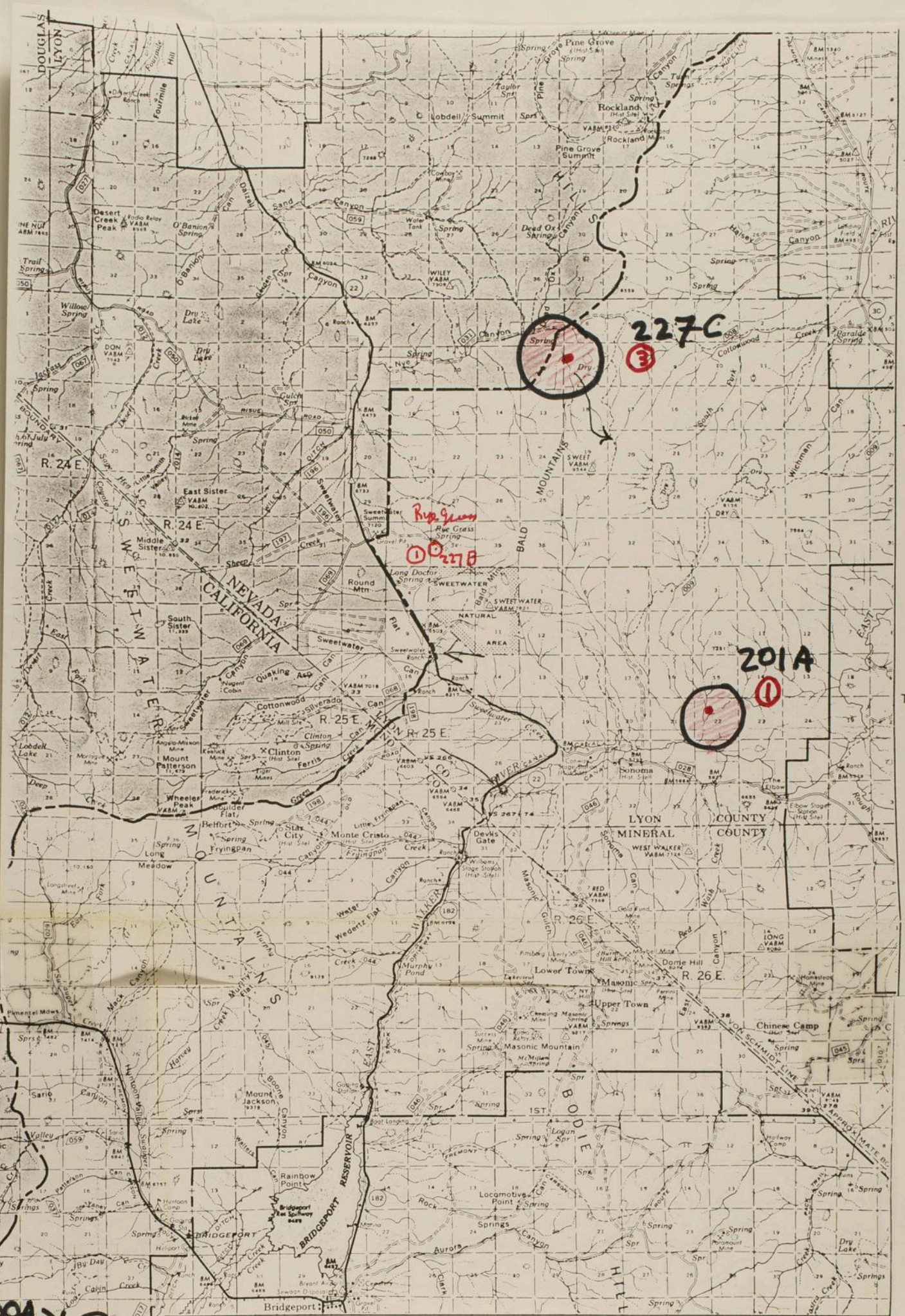
Ryegrass  
1981

#26. *Allium bisceptrum*.



Ryegrass. 1981

#25 *Lomatium dissectum*



U.S. DEPARTMENT OF AGRICULTURE  
 FOREST SERVICE  
 EDWARD P. CLIFF, CHIEF

**WEST WALKER RANGER DISTRICT**  
**D-3**  
**TOIYABE NATIONAL FOREST**  
 NEVADA AND CALIFORNIA  
 MT. DIABLO MERIDIAN

**JUNE 1981 PLOTS**

1990 Trend Study plot Locations

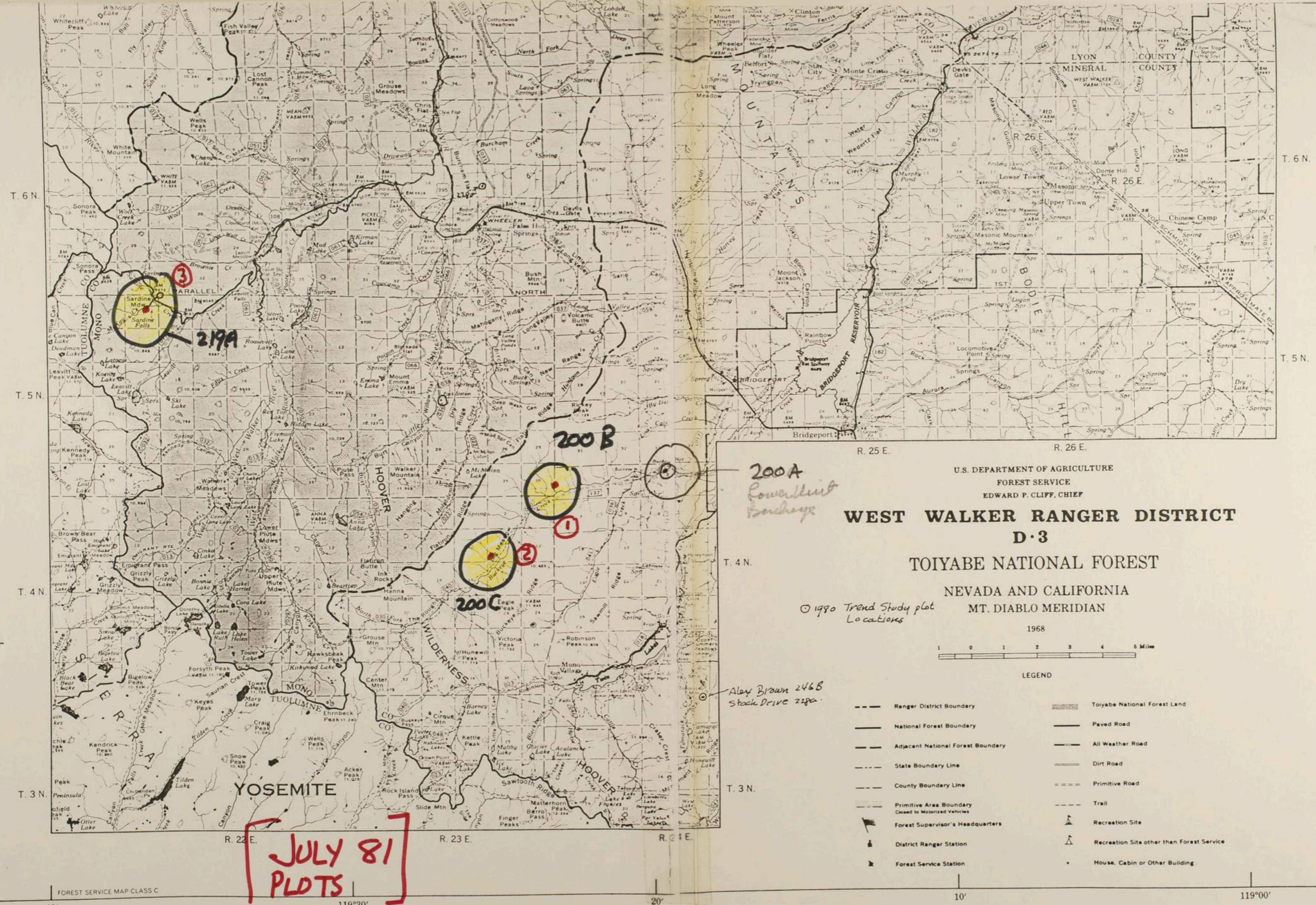
Alex Brown 246B  
 Stock Drive 228a

1968  
 0 1 2 3 4 5 Miles

LEGEND

--- Ranger District Boundary	▨ Toiyabe National Forest Land
— National Forest Boundary	— Paved Road
- - - Adjacent National Forest Boundary	— All Weather Road
- - - State Boundary Line	— Dirt Road
- - - County Boundary Line	— Primitive Road
- - - Primitive Area Boundary Closed to Motorized Vehicles	— Trail
🏠 Forest Supervisor's Headquarters	🏠 Recreation Site
🏠 District Ranger Station	🏠 Recreation Site other than Forest Service
🏠 Forest Service Station	🏠 House, Cabin or Other Building

T. 9 N.  
T. 8 N.  
T. 7 N.  
T. 6 N.  
5 N.



U.S. DEPARTMENT OF AGRICULTURE  
 FOREST SERVICE  
 EDWARD P. CLIFF, CHIEF

## WEST WALKER RANGER DISTRICT

### D-3

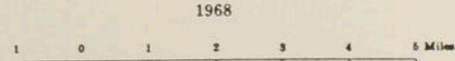
## TOIYABE NATIONAL FOREST

NEVADA AND CALIFORNIA  
 MT. DIABLO MERIDIAN

*200A  
 Powell  
 Ranch*

© 1990 Trend Study plot  
 Locations

*Ally Brown 246B  
 Stock Drive 228a*



LEGEND

--- Ranger District Boundary	▨ Toiyabe National Forest Land
— National Forest Boundary	— Paved Road
- - - Adjacent National Forest Boundary	— All Weather Road
- - - State Boundary Line	— Dirt Road
- - - County Boundary Line	— Primitive Road
▨ Primitive Area Boundary Closed to Motorized Vehicles	— Trail
🚒 Forest Supervisor's Headquarters	🏠 Recreation Site
👤 District Ranger Station	🏠 Recreation Site other than Forest Service
👤 Forest Service Station	• House, Cabin or Other Building

**JULY 81  
 PLOTS**

Jack

Boehme-Upper  
Trend Plot  
200 c  
1981

FREQUENCY TREND STUDY  
MACROPLOT SHEET

Macroplot Name Buckeye - Upper Unit No. 200c Date(s) 8-9.VII 1981  
 Allotment Buckeye C+H. Tape Ht. 0 m. 72 cm 30 m. 67 cm  
 Legal NWNE 50011, T4N, R23E Photo No. 07-77-11 Mag. Bearing 3550 Az 0 m. to 30 m.  
 Frame Size(s) 1M; 0.5M; 0.2M. Weather Clear, warm, calm AM,  
windy PM.

USFS ASSISTANT: Don Crumpton

Baseline Distance from each reference post to:

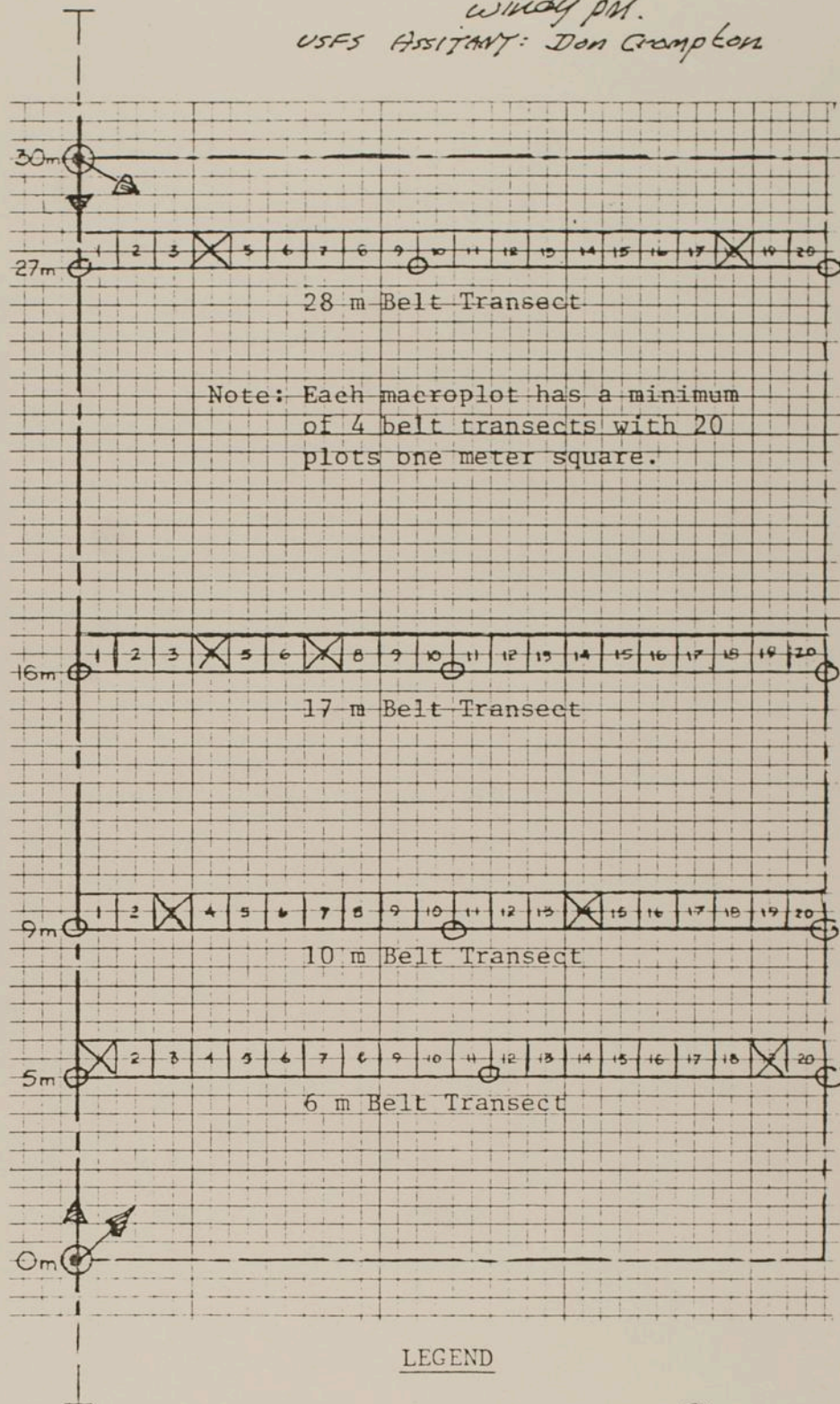
- (1) 0 m. pin 60 cm
- (2) 30 m. pin 90 cm

All belt transects shall be laid out to the right of the base line. Lower edge of belt transect shall be coincident with measuring tape projecting perpendicularly from 5 m., 9 m., 16 m., and 27 m. plot pins on base line. Twenty plots one meter square shall be located and numbered from left to right, beginning at the baseline, within each belt transect. Nested plot frames must have smallest area unit in lower left corner of plot.

PHOTOGRAPHY REQUIRED

Minimum General Views are 0 m. to 30 m., and 30 m. to 0 m. Additional photos shall be shown by arrows (●→).

Notes
*Document all deviations within plot as to pin location, etc.
<u>Pin at 6-11</u>
<u>Pin at 28-9</u>



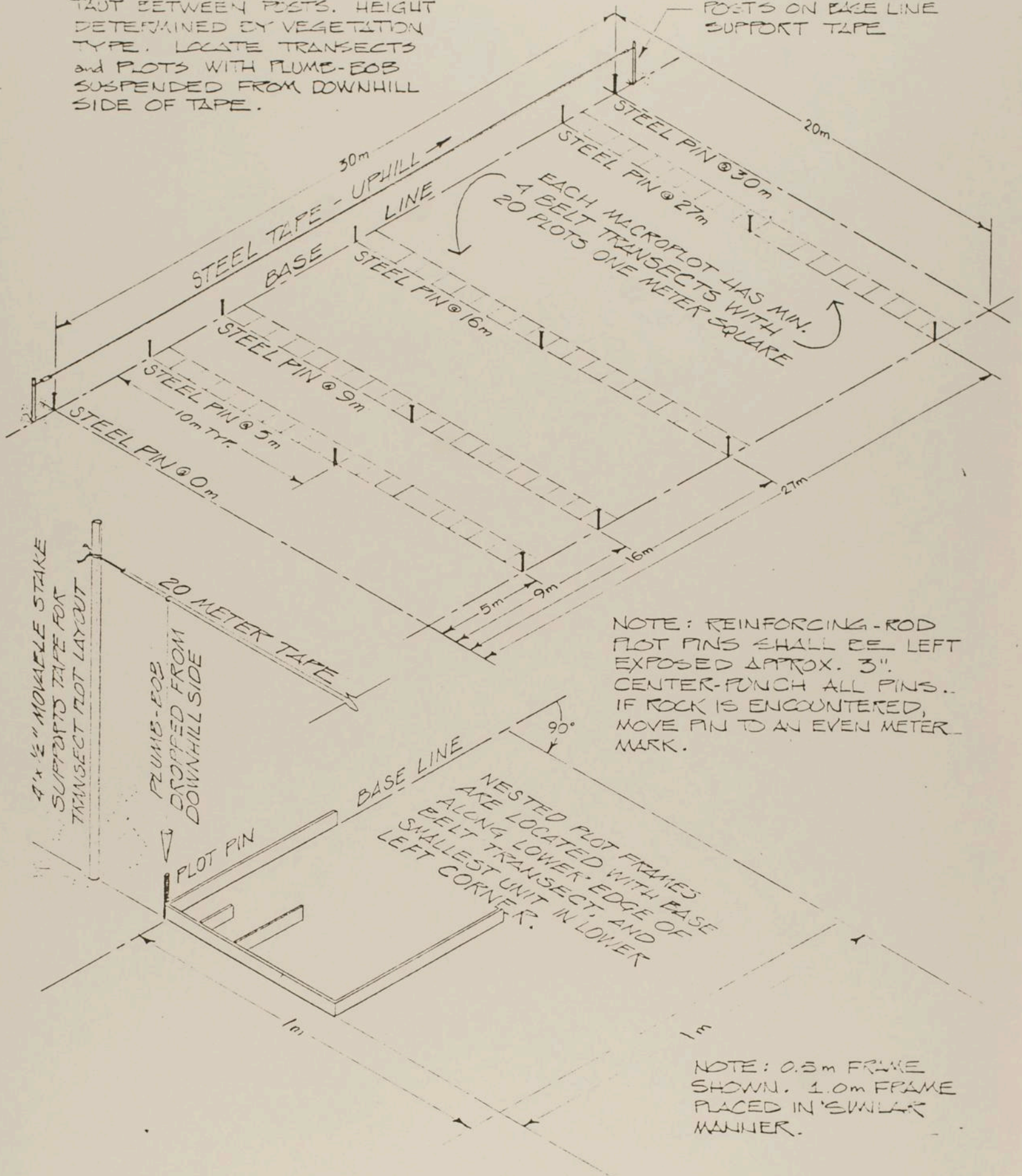
LEGEND

- Base Tape — — — Plot Rebar ⊙
- Plot Bdry. — — — Plots Photo ⊗
- Reference Post ⊥ 1 meter □
- 0-30 m. Pin ⊗

# EXHIBIT 1 TYPICAL FREQUENCY MACROPLOT LAYOUT DIAGRAM

TAPE SHALL BE STRETCHED TAUT BETWEEN POSTS. HEIGHT DETERMINED BY VEGETATION TYPE. LOCATE TRANSECTS and PLOTS WITH PLUMB-BOB SUSPENDED FROM DOWNHILL SIDE OF TAPE.

STEEL REFERENCE POSTS ON BASE LINE SUPPORT TAPE



## LINE INTERCEPT RECORD

(Condition and Trend)

National Forest		Ranger District		MACROPLOT		Transect No.		Examiner		Date	
<i>Toiyabe</i>		<i>Bridgeport</i>		<i>Buckeye Upper-Unit</i>		<i>6M</i>		<i>Reveal</i>		<i>9.VII 1981</i>	
<i>Ar. Erv.</i>				<i>200c</i>							
Species		Species		Species		Species		Species			
Actual Intercept	Total cm.	Actual Intercept	Total cm.	Actual Intercept	Total cm.	Actual Intercept	Total cm.	Actual Intercept	Total cm.	Actual Intercept	Total cm.
<i>75-116</i>	<i>41</i>										
<i>188-212</i>	<i>24</i>										
<i>246-343</i>	<i>97</i>										
<i>400-38</i>	<i>38</i>										
<i>550-616</i>	<i>66</i>										
<i>702-46</i>	<i>44</i>										
<i>785-800</i>	<i>15</i>										
<i>815-912</i>	<i>97</i>										
<i>941-65</i>	<i>24</i>										
<i>981-1063</i>	<i>82</i>										
<i>1142-49</i>	<i>7</i>										
<i>1205- 1444</i>	<i>239</i>										
<i>1508-1609</i>	<i>101</i>										
<i>1887-1911</i>	<i>24</i>										
<i>1939-87</i>	<i>48</i>										
Total CM	<i>973</i>										

For trees and shrubs up to 4 feet above the ground.

Breaks in canopy of less than 10cm. will be counted as canopy .

Tape height at 0m *68 cm*

Tape height at 20m *63 cm.*

LINE INTERCEPT RECORD

(Condition and Trend)

National Forest		Ranger District		MACROPLOT		Transect No.		Examiner		Date	
Toiyabe		Bridgeport.		Buckeye Upper Unit		10M		J. Powell		9-VII-81	
Arb		Sylv		200-C							
Species		Species		Species		Species		Species		Species	
Actual Intercept	Total cm.	Actual Intercept	Total cm.	Actual Intercept	Total cm.	Actual Intercept	Total cm.	Actual Intercept	Total cm.	Actual Intercept	Total cm.
130-80	50	371-381	10								
404-77	13	1565-73	8								
429-92	63	1787-1600	13								
605-68	63	1617-26	9								
679-89	10										
704-837	133										
865-91	26										
941-1041	100										
1085-1129	44										
1280-1303	23										
1602-17	15										
1626-41	15										
1688-1731	43										
1763-											
1824	61										
1884-											
1937	53										
Total CM	712		40								

For trees and shrubs up to 4 feet above the ground.

Breaks in canopy of less than 10cm. will be counted as canopy .

Tape height at 0m 65 CM

Tape height at 20m 69 CM

LINE INTERCEPT RECORD

(Condition and Trend)

National Forest <i>Toiyabe</i>		Ranger District <i>Bridgeport</i>		MACROPLOT <i>Buckeye- Upper Unit.</i>		Transect No. <i>17</i>		Examiner <i>J. Reveal</i>		Date <i>8.VII.81</i>	
<i>ARERV</i>				<i>200c</i>							
Species		Species		Species		Species		Species			
Actual Intercept	Total cm.	Actual Intercept	Total cm.	Actual Intercept	Total cm.	Actual Intercept	Total cm.	Actual Intercept	Total cm.	Actual Intercept	Total cm.
<i>0-10</i>	<i>10</i>										
<i>166-72</i>	<i>6</i>										
<i>185-202</i>	<i>17</i>										
<i>332-37</i>	<i>5</i>										
<i>357-77</i>	<i>20</i>										
<i>593-600</i>	<i>7</i>										
<i>636-41</i>	<i>5</i>										
<i>820-57</i>	<i>37</i>										
<i>880-921</i>	<i>41</i>										
<i>939-42</i>	<i>3</i>										
<i>1144-94</i>	<i>50</i>										
<i>1239-68</i>	<i>29</i>										
<i>1321-76</i>	<i>55</i>										
<i>1385-1403</i>	<i>18</i>										
<i>1850-81</i>	<i>31</i>										
<i>1950-92</i>	<i>42</i>										
Total CM	<i>376</i>										

For trees and shrubs up to 4 feet above the ground.

Breaks in canopy of less than 10cm. will be counted as canopy.

Tape height at 0m *63 cm*

Tape height at 20m *75 cm*

LINE INTERCEPT RECORD

(Condition and Trend)

National Forest		Ranger District		MACROPLOT		Transect No.		Examiner		Date	
Toiyabe		Bridgeport		Buckeye Upper Unit		28M		K. Kuehl		8/11/81	
ArÉrv.		ArÉrv		200-C							
Species		Species		Species		Species		Species		Species	
Actual Intercept	Total cm.	Actual Intercept	Total cm.	Actual Intercept	Total cm.	Actual Intercept	Total cm.	Actual Intercept	Total cm.	Actual Intercept	Total cm.
18-33	15	1619-23	4								
129-67	38	1647-76	29								
245-51	6	1813-39	26								
291-338	47	1856-									
618-41	23	1944	88								
708-808	100										
830-53	23										
974-1010	36										
1081-1116	35										
1176-1207	31										
1220-55	35										
1277-86	9										
1318-41	23										
1359-65	6										
1373-80	7										
1403-50	47										
1508-45	37										
Continued → Next column											
Total CM			665								

For trees and shrubs up to 4 feet above the ground.

Breaks in canopy of less than 10cm. will be counted as canopy .

Tape height at 0m 58 cm

Tape height at 20m 77 cm.

Macroplot Budeye-VU No. 200C Examiner Reveal Date 8-9/VI/81 Frame Sizes 1M, 05, 0.2M.

No.	Species / Meter	Belt 6 m.		Belt 10 m.		Belt 17 m.		Belt 28 m.		Belt		Totals	
		Hits	%	Hits	%	Hits	%	Hits	%	Hits	%	Hits	% Frequ.
1	Stoc	13	65	14	70	12	60	11	55			50	63
2	Siky	19	95	20	100	20	100	18	90			77	96
3	Orky	4	20	2	10	8	40	10	50			24	30
4	Mesp	-	-	-	-	-	-	-	-			0	-
5	Caro	-	-	-	-	-	-	-	-			0	-
6	Jupa	7	35	10	50	9	45	10	50			36	45
7	Brea	-	-	2	10	-	-	1	5			3	4
8	Ar-try	15	75	14	70	18	90	13	65			60	75
9	Chvir	-	-	1	5	2	10	-	-			3	4
10	Raho	6	30	6	30	5	25	18	80			39	49
11	Grac	1	5	6	30	10	50	6	30			23	29
12	Syva	-	-	4	20	1	5	1	5			6	8
13	Luca	8	40	8	40	9	45	9	45			34	43
14	Putr	1	5	-	-	-	-	1	5			2	2
15	LySP	-	-	-	-	-	-	-	-			0	-
16	Linu	2	10	4	20	4	20	5	25			15	19
17	Gadip	1	5	2	10	-	-	1	5			4	5
18	Ersp	-	-	3	15	1	5	2	10			6	8
19	MER	-	-	1	5	-	-	-	-			1	1

Continued

FIELD FREQUENCY DATA SHEET

Macroplot Buckeye 0-4 No. 200-1 Examiner J. Reveal Date 8-9/11/81 Frame Sizes 1M, 0.5M, 0.2M

No.	Species Name	Belt 6 m.		Belt 10 m.		Belt 17 m.		Belt 28 m.		Belt		Totals	
		Hits	%	Hits	%	Hits	%	Hits	%	Hits	%	Hits	% Freq.
<u>0.5 M.</u>													
1	Stoc	8	40	7	35	8	40	5	25			28	35
2	Siky	14	70	13	65	12	60	11	55			50	63
6	Jepa	5	25	5	25	6	30	6	30			22	28
<u>0.2 M.</u>													
2	Siky	4	20	8	40	7	35	6	30			25	31

GROUND COVER WORKSHEET

Study Name: Buckeye - Upper Unit 200-C Examiner: Jack Revelle Date: 8-9-11, 1981

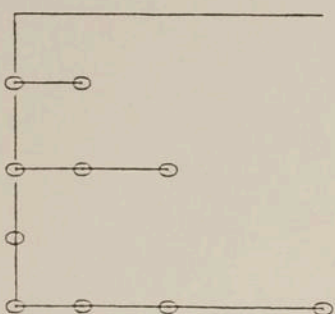
	6		10		17		28		Meter		Hit Sum	%
	Hits	Meter No. %	Hits	Meter No. %	Hits	Meter No. %	Hits	Meter No. %	Meter No. %			
Bare ground		62 31		65 32		56 28		38 19			221	28
Pavement	-	-		8 4		6 3		20 10			34	4
Rock		-		-		3 2					3	1
Litter		132 66		122 61		129 64		132 66			515	64
Vegetation		6 3		5 3		6 3		10 5			27	3
Cryptograms												
SUM		200 100		200 100		200 100		200 100			800	100

MEASUREMENT TECHNIQUE: Ground cover is measured by the *point method* with a plot frame serving as the apparatus for arrangement of 10 points per plot as shown on the diagram. *At each mark, a finely pointed pin is vertically dropped, recording the cover type hit.* HIT entries are by one of these methods: *///* or *☒*

COVER DEFINED:

- Bare ground: Exposed soil and rock fragments <3 mm (1/8 in.)
- Pavement: Rock fragments 3 mm to 2 cm (1/8-3/4 in.)
- Rock: Rock fragments >2 cm (3/4 in.)
- Litter: Dead plant material on the ground
- Vegetation: Living plant material measured at their base or with mat-forming plants, if the point strikes material within crown area
- Cryptograms: Moss and lichen

\* Point selected visually.



## FIELD PHOTO RECORD

Macroplot Name Buckeye-Upper Unit Number 200 C Date 8-9. VII. 81Photos by: Jack RevealCamera Canon AE1 Lens 50mm Film 40ASA Kodacolor

Photo # <u>1</u> Hour <u>1600</u> Expos. <u>250</u> Subject: <u>f/8</u> <u>Baseline from OM RP.</u>	Photo # <u>2</u> Hour <u>1600</u> Expos. <u>500</u> Subject: <u>f/14</u> <u>View-45° of 8-M RP.</u>
Photo # <u>3</u> Hour <u>1610</u> Expos. <u>250</u> Subject: <u>f/16</u> <u>Baseline from 30M RP.</u>	Photo # <u>4</u> Hour <u>1610</u> Expos. <u>500</u> Subject: <u>f/16</u> <u>View- 45° left from 30M RP</u>
Photo # <u>5</u> Hour <u>1620</u> Expos. <u>500</u> Subject: <u>f/14</u> <u>Plot 6-1</u> <u>stoc, Sihy, Luca, Phho</u>	Photo # <u>6</u> Hour <u>1625</u> Expos. <u>250</u> Subject: <u>f/11</u> <u>Plot 6-19</u> <u>Sihy, stoc, Artrv, Linu</u>
Photo # <u>7</u> Hour <u>0815</u> Expos. <u>250</u> Subject: <u>9.VII.81</u> <u>f/14</u> <u>General view - looking up-canyon from OM RP</u>	Photo # <u>8</u> Hour <u>0825</u> Expos. <u>250</u> Subject: <u>f/14</u> <u>Plot 10-3</u> <u>Sihy, Chui, Artrv, stoc</u>
Photo # <u>9</u> Hour <u>0835</u> Expos. <u>250</u> Subject: <u>f/11</u> <u>Plot 10-14</u> <u>stoc,</u> <u>Sihy, Crac Artrv, Jupa,</u>	Photo # <u>10</u> Hour <u>0955</u> Expos. <u>250</u> Subject: <u>f/16</u> <u>Plot 17-4</u> <u>Phho, Jupa, Artrv</u> <u>Crac, Sihy</u>
Photo # <u>11</u> Hour <u>1000</u> Expos. <u>250</u> Subject: <u>f/16</u> <u>Plot 17-7.</u> <u>Sihy, Orhy, Jupa, stoc</u> <u>Artrv, Luca</u>	Photo # <u>12</u> Hour <u>1115</u> Expos. <u>500</u> Subject: <u>f/16</u> <u>Plot 28-4</u> <u>Jupa, Orhy, Sihy, Artrv</u>
Photo # <u>13</u> Hour <u>1120</u> Expos. <u>500</u> Subject: <u>f/16</u> <u>Plot 28-18</u> <u>stoc, Sihy, Artrv, Syva,</u> <u>Luca, Phho, Crac.</u>	Photo # _____ Hour _____ Expos. _____ Subject: _____

PHENOLOGY (based on: AEC at Oakridge Tennessee & Dr. Neil West)

Grass - leaf  
Flower stalks  
heads  
anthesis  
dough  
hard seed  
dissemination  
drying begins  
dry

Forbs - growth starts  
flower stalks  
first bloom  
full bloom (3/4 Blossom)  
bloom over (3/4 Blossom dry)  
seeds ripe (3/4 dry)  
dissemination  
drying begins  
dry

Shrub - leaf starts  
twig  
flower buds  
first bloom  
full bloom (3/4 Blossom)  
bloom over (3/4 Blossom dry)  
seed ripe (3/4 dry)  
dissemination  
Leaves dry

Transect Name Buckeye- Upper Orbit

## PLANT LIST

<u>Plant Name</u>	<u>Phenology</u>
1. <u>Stipa occidentalis</u>	<u>dough.</u>
2. <u>Sitanion hystrix</u>	<u>dough to seed hard</u>
3. <u>Oryzopsis hymenoides</u>	<u>dissemination</u>
4. <u>Melica cf. spectabilis</u>	<u>dry</u>
5. <u>Carex rossii</u>	<u>hard seed</u>
6. <u>Juncus parryi</u>	<u>heads</u>
7. <u>Bromus carinatus</u>	<u>dough →</u>
8. <u>Artemisia tridentata ssp. vaseyana.</u>	<u>heads-fl. buds.</u>
9. <u>Chrysothamnus viscidiflorus ssp. v.</u>	<u>Twig → fl. buds</u>
10. <u>Phlox hoodii</u>	<u>bloom over</u>
11. <u>Crepis acuminata</u>	<u>bloom over</u>
12. <u>Symphoricarpos vaccinoïdes</u>	<u>bloom over</u>
13. <u>Lupinus caudatus</u>	<u>bloom over</u>
14. <u>Purshia tridentata</u>	<u>bloom over → seed ripe</u>
15. <u>Lygodesmia spinosa</u>	<u>flower stalks</u>
16. <u>Linanthus nuttallii</u>	<u>bloom over</u>
17. <u>Gayophytum diffusum parviflorum</u>	<u>bloom over</u>
18. <u>Eriogonum spergulinum</u>	<u>full bloom</u>
* 19. <u>Mertensia sp.</u>	<u>dissemination →</u>
20. <u>Stiporyzopsis bloomeri s.l.</u>	<u>hard seed</u>
21. <u>Stipa comata</u>	<u>dissemination</u>
22.	
23.	
24.	
25.	

\* Only one plant seen.

Transect Name Buckeye Upper UnitPLOT NAME \_\_\_\_\_  
NUMBER 200-C DATE 8.9.11.81  
PAGE Two OF TwoPLANT LIST

<u>Plant Name</u>	<u>Phenology</u>
26.	
27.	
28.	
29.	
30.	
31.	
32.	
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36.	
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## APPARENT TREND

Apparent Trend - stable; under moderate use by cattle and deer at present. However, one would expect a ratio favoring Stipa over Sily and Juncus to feel comfortable about conditions. Also of concern is the considerable hedging on Potr. Shrub intercept was measured at  $\pm 28$  meters, mostly Artrv. Common herbs and small animals are noticeably few this year.

Because this plot is not adjacent to key meadow food areas, it will get somewhat less use than Artrv-GR elsewhere on the upper unit.

APPARENT TREND  
(FSH 2209.21 Chap. 41.28)

*Buckeye - Upper*  
200-C  
8-VII-81

VEGETATION

Up or Stable	Down
1. Desirable frequency groupings and age classes of desirables, intermediates and least desirables. .X.	1. A disproportionate amount of intermediates and least desirables. Seedlings of better plants having difficulty in becoming established. ....
2. Forage plants not being pulled up or trampled out by grazing. .X.	2. Forage species being pulled up and trampled out by grazing. ....
3. Vigor of key species high as indicated by leaf length, seed stock production and normal color. .X.	3. Low vigor of key species as indicated by reduced size of plant, leaf length of seed stalks, and off color (sickly yellow). ....
4. Browse species showing no hedging. ....	4. Browse species showing moderate <del>to heavy</del> hedging. ...X

SOIL

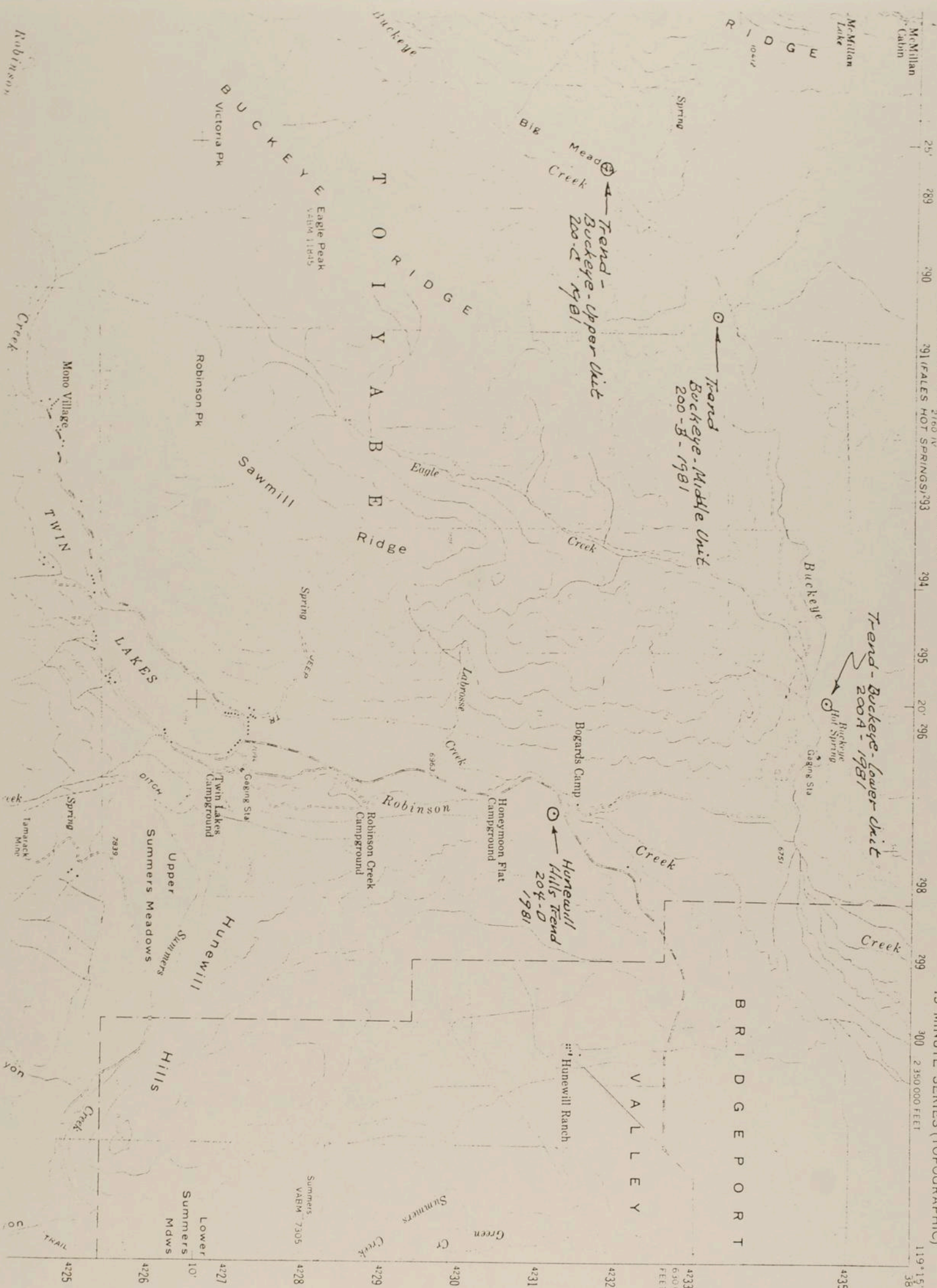
Up or Stable	Down
1. Ground cover dispersion — uniform. ....	1. Ground cover dispersion — variable <del>to highly variable</del> . .X.
2. No detectable soil movement. ....	2. Soil movement detectable. .X.
3. Soil surface continuous and intact. .X.	3. Cupping out between soil remnants. ....
4. No exposure of plant roots. .X.	4. Plant roots exposed. ....
5. Stones and rock fragments, where present, normal and in place — no movement of rock fragments. .X.	5. Stones and rock fragments, where present, concentrating on surface as erosion pavement. Fragments loose and often moving downslope. ....
6. Lichen lines on stones and rock fragments extend to soil level. .X.	6. Lichen lines on stones considerably above soil surface — no lichens on rock fragments. ....
7. No active gullies. .X.	7. Active gullies — indicated by recent cutting and sloughing. ....
8. No recent soil deposits either alluvial or aeolian. .X.	8. Recent soil deposits — alluvial or aeolian. ....
9. No wind-scoured depressions. .X.	9. Wind-scoured depressions. ....

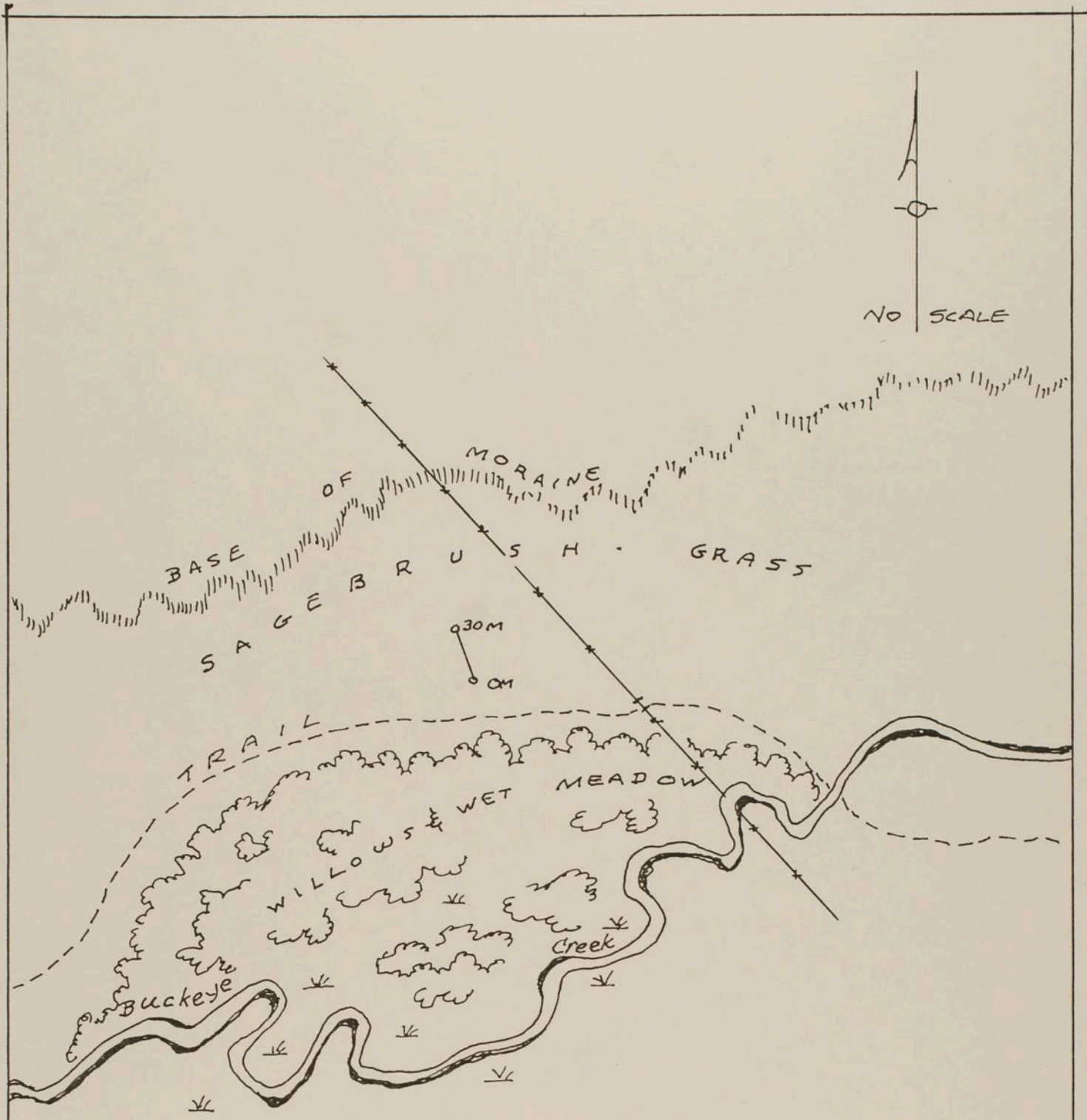
STATE OF CALIFORNIA  
DEPARTMENT OF WATER RESOURCES

2100 AV  
291 PALES HOT SPRINGS, '93

MATTERHORN PEAK QUADRANGLE  
CALIFORNIA  
15 MINUTE SERIES (TOPOGRAPHIC)

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3000  
2 150 000 FEET





SKETCH MAP  
 OF THE  
 BUCKEYE- UPPER  
 TREND PLOT - 200C

8-July 1981

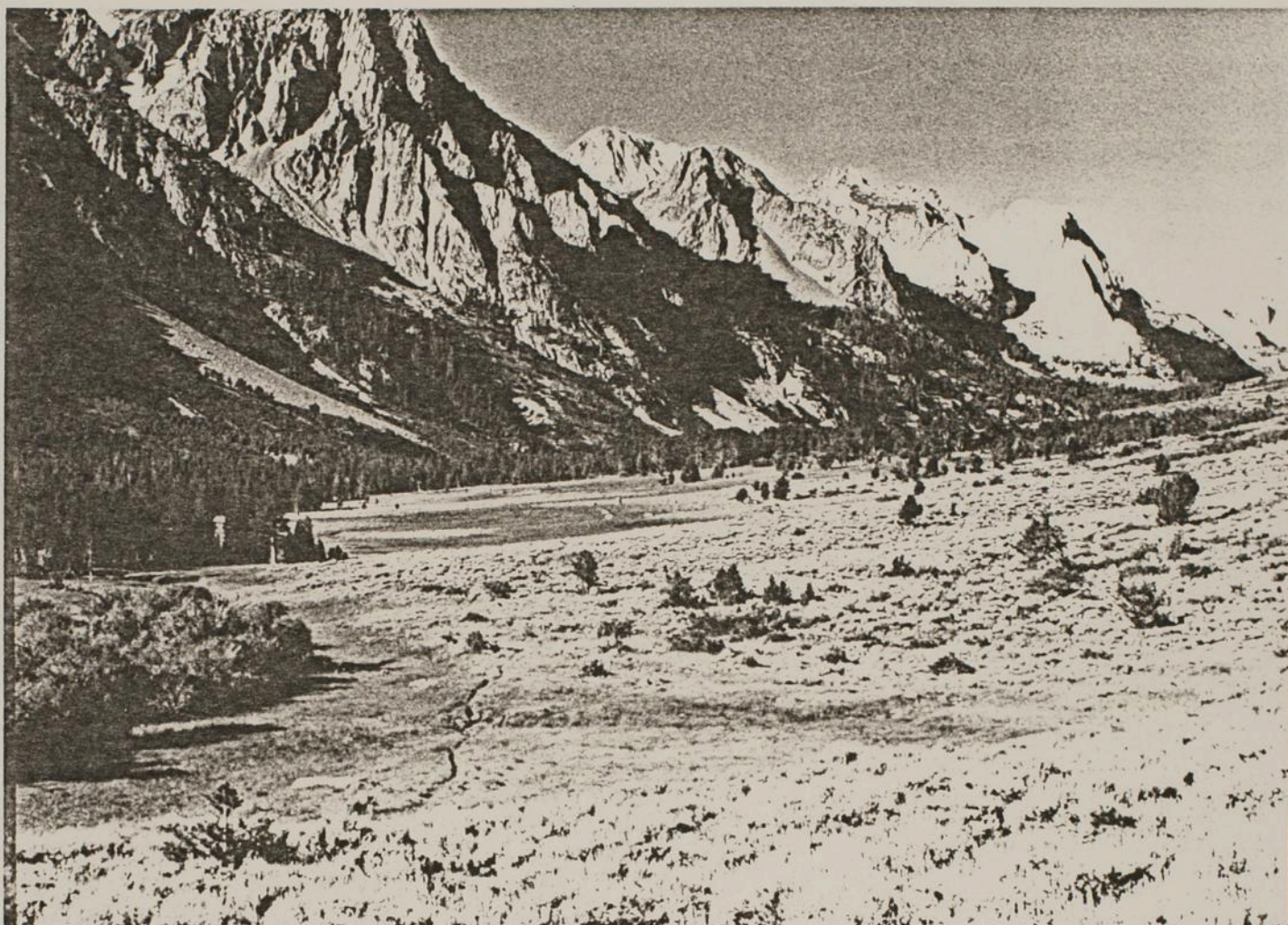
JR



PLANT  
VOUCHER SPECIMENS

RANGE PHOTO POINT RECORD

FOREST Toiyabe RANGER DISTRICT Bridgeport ALLOTMENT Buckeye Cott  
MACROPLOT NAME Buckeye Upper NO. 200C DATE 9-VII-81 HOUR 0815



LOCATION - PURPOSE OF PHOTO - NOTES ON POINTS ILLUSTRATED ETC.

Photo F - General view of locality: looking  
up-canyon from O-M RP.

RANGE PHOTO POINT RECORD

FOREST Toiyabe RANGER DISTRICT Bridgeport ALLOTMENT Buckeye C & G.

MACROPLOT NAME Buckeye - Upper NO. 200C DATE 8-VII-81 HOUR 1600



LOCATION - PURPOSE OF PHOTO - NOTES ON POINTS ILLUSTRATED ETC.

Photo 1 - Baseline from OM R.P.

RANGE PHOTO POINT RECORD

FOREST Toiyabe RANGER DISTRICT Bridgeport ALLOTMENT Buckeye C#68  
MACROPLOT NAME Buckeye - Upper NO. 200 C DATE 8-VII-81 HOUR 16 00

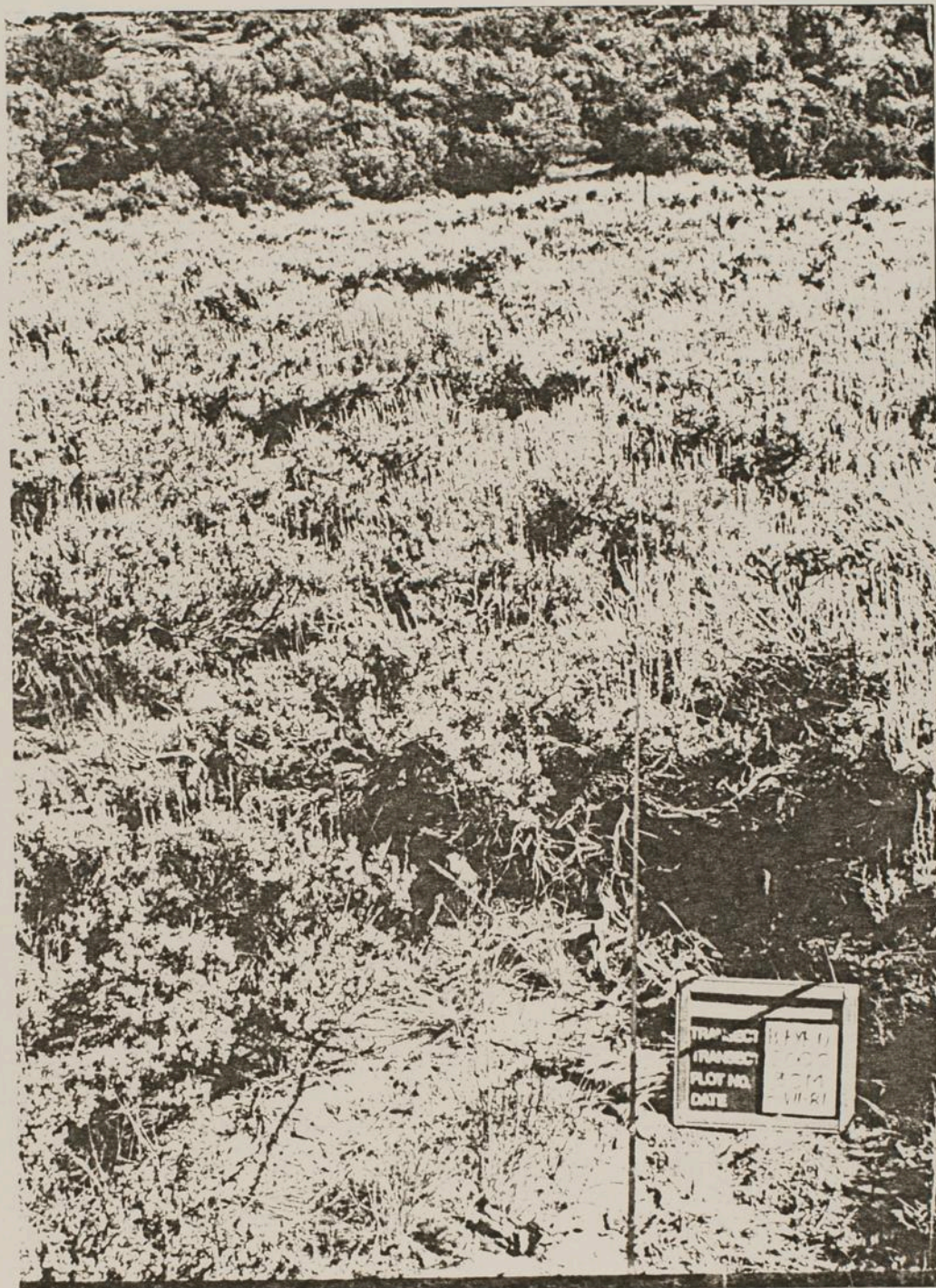


LOCATION - PURPOSE OF PHOTO - NOTES ON POINTS ILLUSTRATED ETC.

Photo 2 - View - 45° r.t. from OM RP

RANGE PHOTO POINT RECORD

FOREST Toiyabe RANGER DISTRICT Bridgeport ALLOTMENT Buckeye C+H  
MACROPLOT NAME Buckeye-Upper NO. 200C DATE 8-VII-81 HOUR 1610

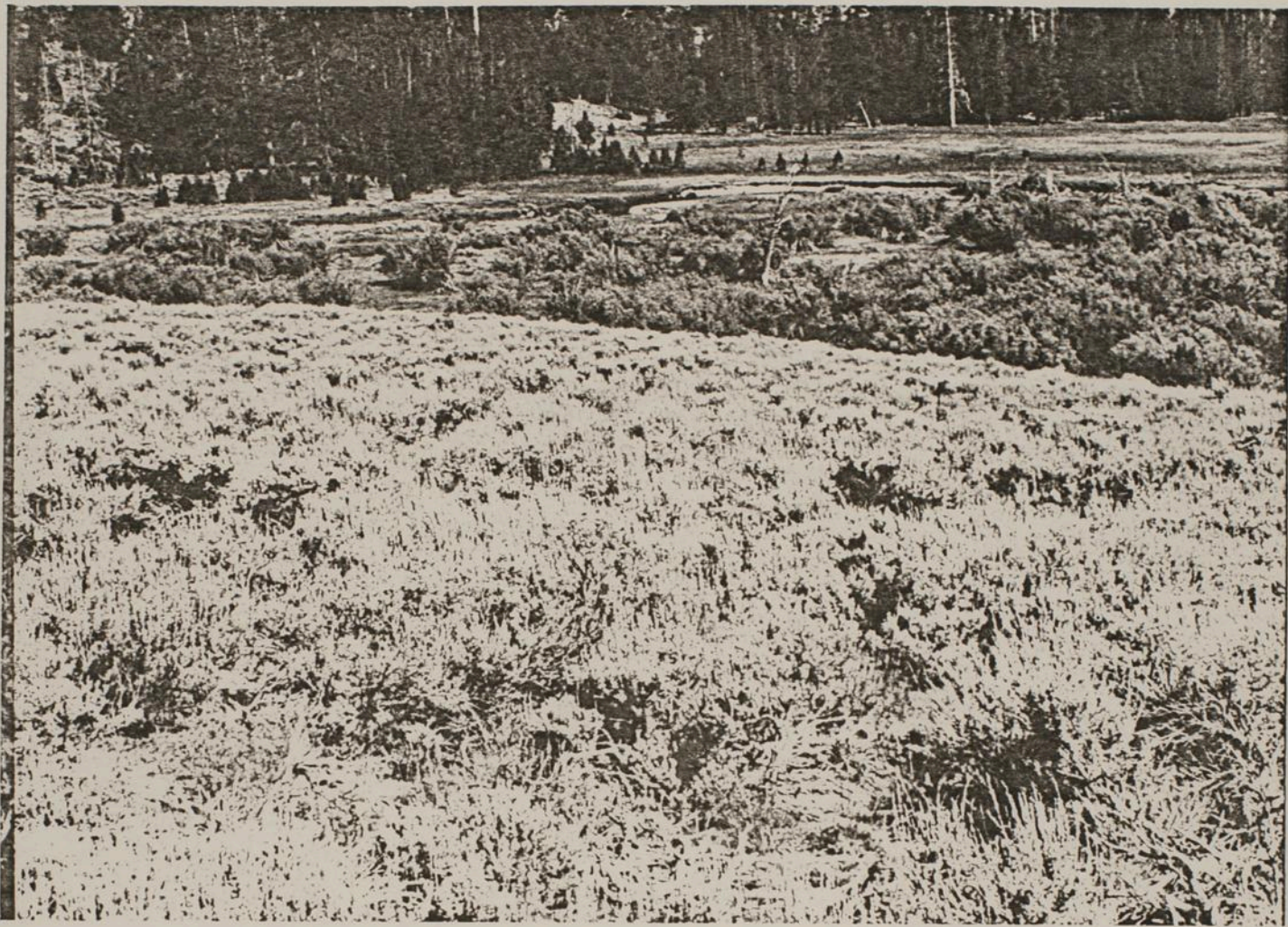


LOCATION - PURPOSE OF PHOTO - NOTES ON POINTS ILLUSTRATED ETC.

Photo 3- Baseline from 30 M. RP

RANGE PHOTO POINT RECORD

FOREST Toiyabe RANGER DISTRICT Bridgeport ALLOTMENT Buckeye C&H  
MACROPLOT NAME Buckeye-Upper NO. 200 C DATE 8-VII-81 HOUR 1610



LOCATION - PURPOSE OF PHOTO - NOTES ON POINTS ILLUSTRATED ETC.

Photo 4 - View - 45° Left from 30 M RP.

RANGE PHOTO POINT RECORD

FOREST Toiyabe RANGER DISTRICT Bridgeport ALLOTMENT Buckeye C+H  
MACROPLOT NAME Buckeye-Upper NO. 200C DATE 8-VII-81 HOUR 1620



LOCATION - PURPOSE OF PHOTO - NOTES ON POINTS ILLUSTRATED ETC.

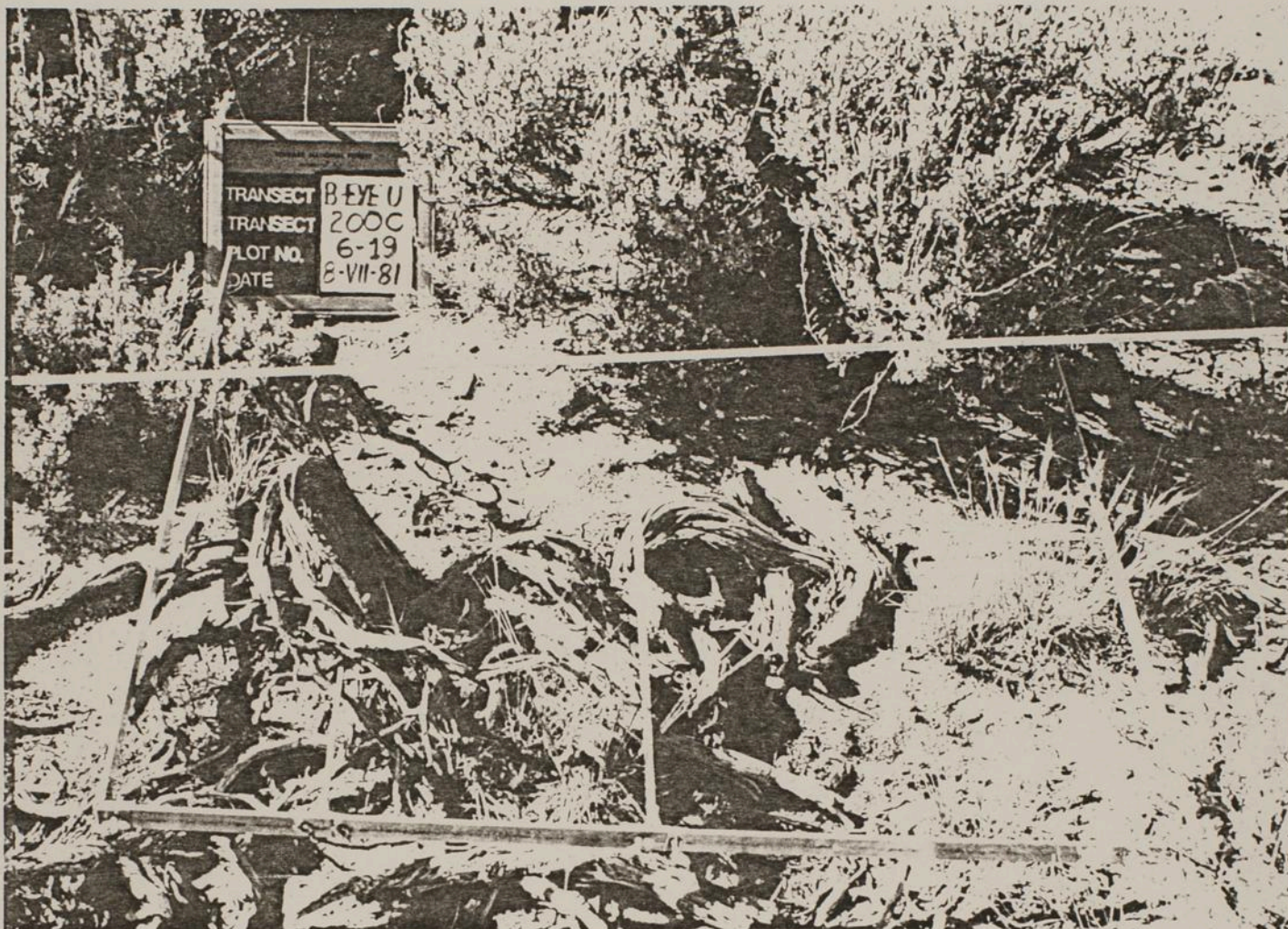
Photo 5 -

Plot 6-1

In view: Stoc, Sihu, Luca, Puko

RANGE PHOTO POINT RECORD

FOREST Toiyabe RANGER DISTRICT Bridgport ALLOTMENT Buckeye C-68  
MACROPLOT NAME Buckeye-Upper NO. 200C DATE 8-VII-81 HOUR 1625



LOCATION - PURPOSE OF PHOTO - NOTES ON POINTS ILLUSTRATED ETC.

Photo 6 - Plot 6-19  
In view - Siky, Stoc, Arbrv, Linu

RANGE PHOTO POINT RECORD

FOREST Toiyabe RANGER DISTRICT Bridgeport ALLOTMENT Buckeye C+H

MACROPLOT NAME Buckeye Upper NO. 200C DATE 9-VII-81 HOUR 0825



LOCATION - PURPOSE OF PHOTO - NOTES ON POINTS ILLUSTRATED ETC.

Photo 8 - Plot 10-3.  
In view: Sisy. Chuv. Arty. Stoc

RANGE PHOTO POINT RECORD

FOREST Toiyabe RANGER DISTRICT Bridgeport ALLOTMENT Buckeye C44  
MACROPLOT NAME Buckeye-Upper NO. 200-C DATE 9.VII.81 HOUR 0835

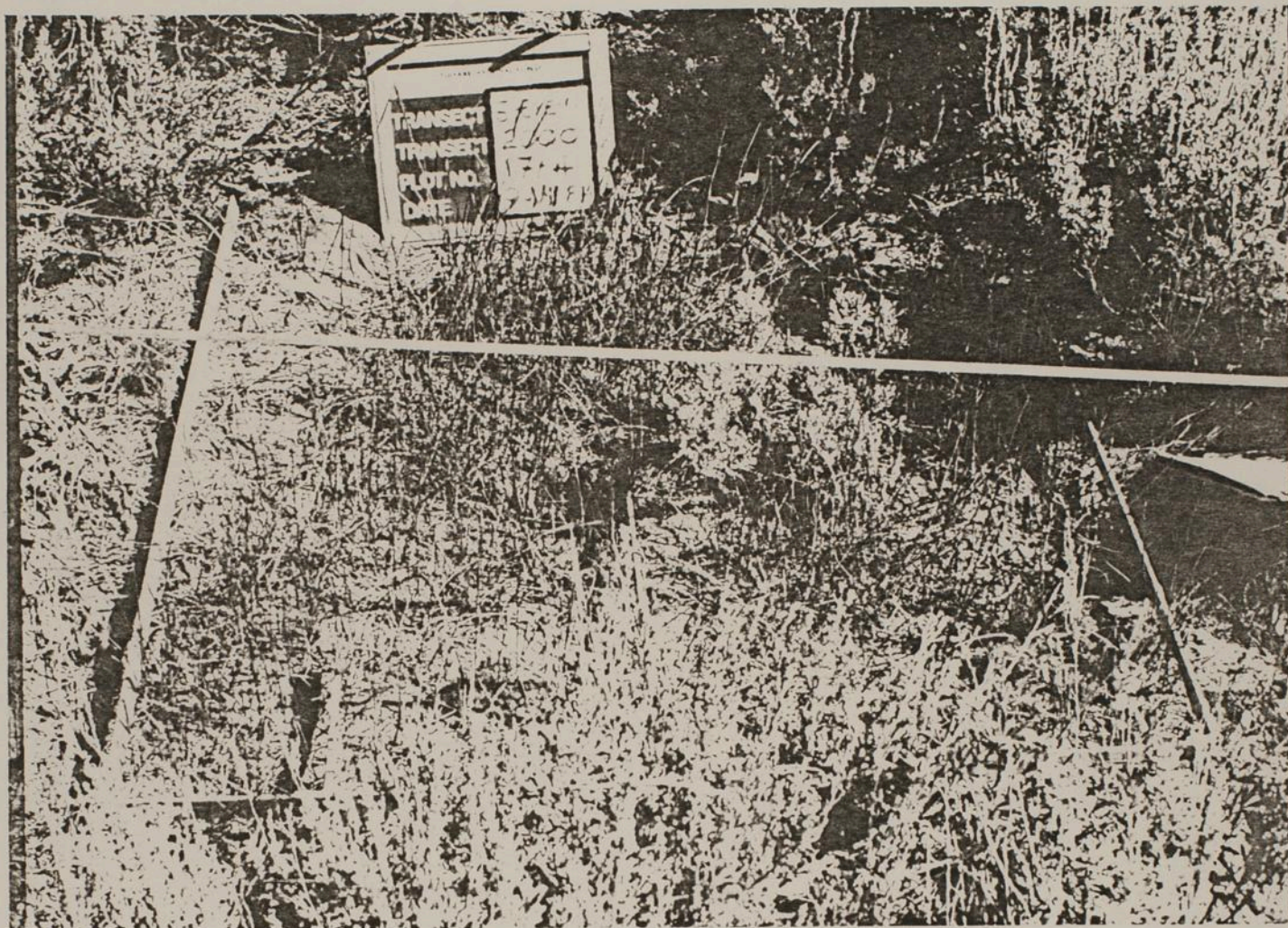


LOCATION - PURPOSE OF PHOTO - NOTES ON POINTS ILLUSTRATED ETC.

Photo 9 - Plot 10-14  
In view: Stoc, Sihy, Crac, Arbrv. Supa

RANGE PHOTO POINT RECORD

FOREST Toiyabe RANGER DISTRICT Bridgeport ALLOTMENT Buckeye C&H  
MACROPLOT NAME Buckeye-Upper NO. 200 C DATE 9-VII-81 HOUR 0955

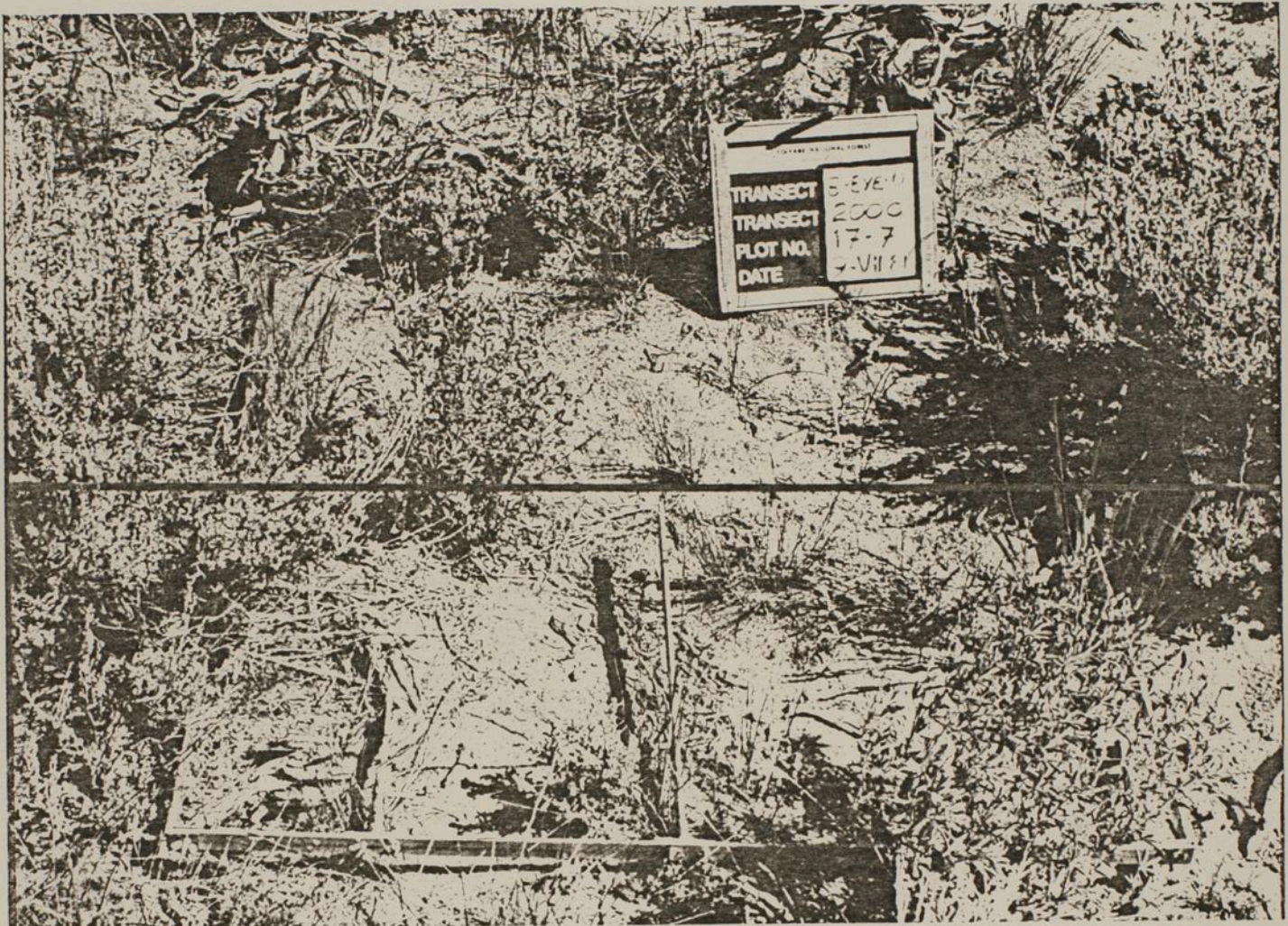


LOCATION - PURPOSE OF PHOTO - NOTES ON POINTS ILLUSTRATED ETC.

Photo 10 - Plot 17-4  
In view: Phko, Jupa, Artrv,  
Crac, Siky

RANGE PHOTO POINT RECORD

FOREST Toiyabe RANGER DISTRICT Bridgeport ALLOTMENT Buckeye C&H  
MACROPLOT NAME Buckeye - Upper NO. 200C DATE 9-VII-81 HOUR 1000

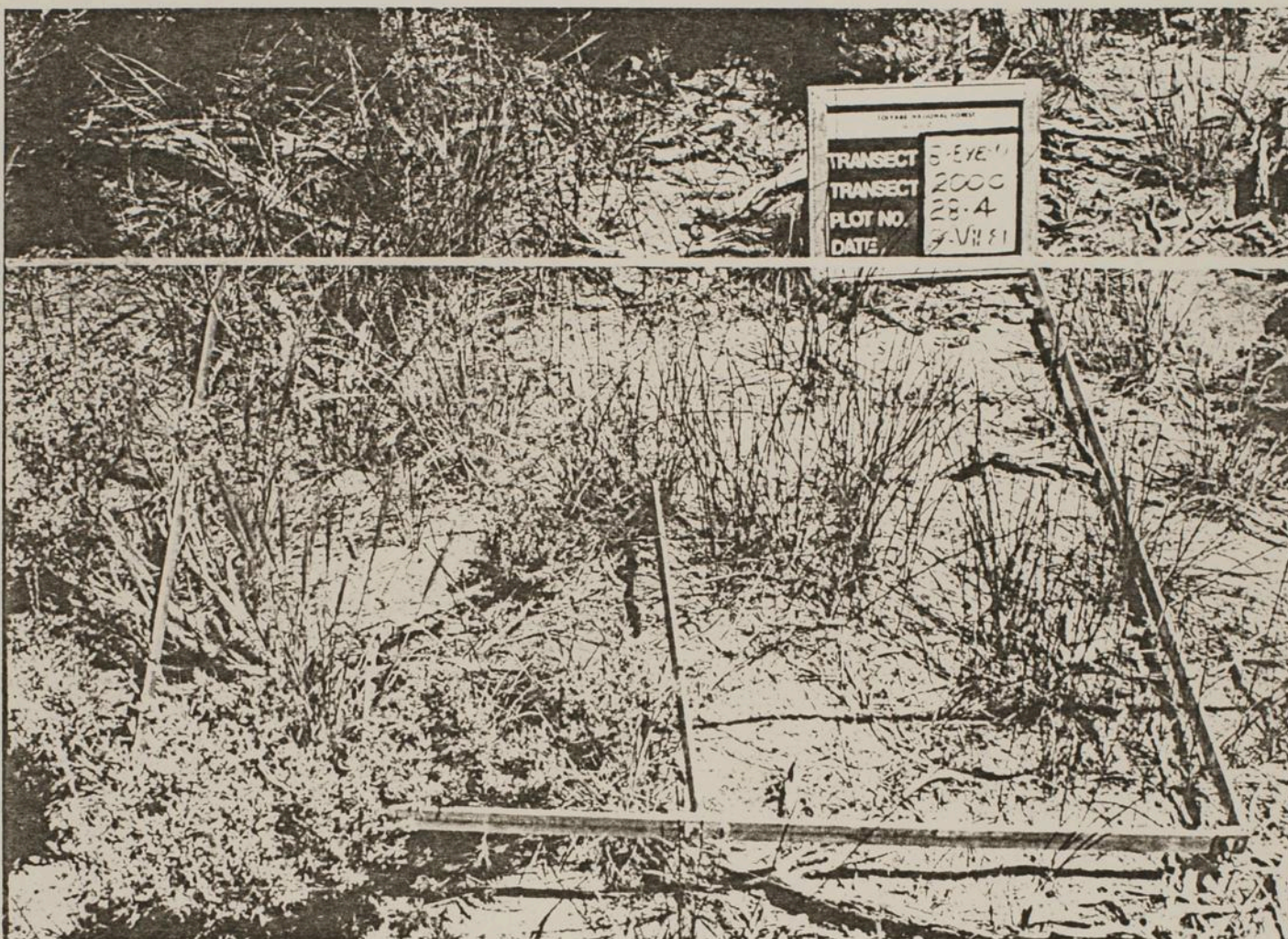


LOCATION - PURPOSE OF PHOTO - NOTES ON POINTS ILLUSTRATED ETC.

Photo 11 - Plot 17-7  
In view: Siky, Orky, Jupa, Stoc  
Artrv, Luca

RANGE PHOTO POINT RECORD

FOREST Toiyabe RANGER DISTRICT Bridgeport ALLOTMENT Buckeye C+H  
MACROPLOT NAME Buckeye-Upper NO. 200 C DATE 9-VII-81 HOUR 1115

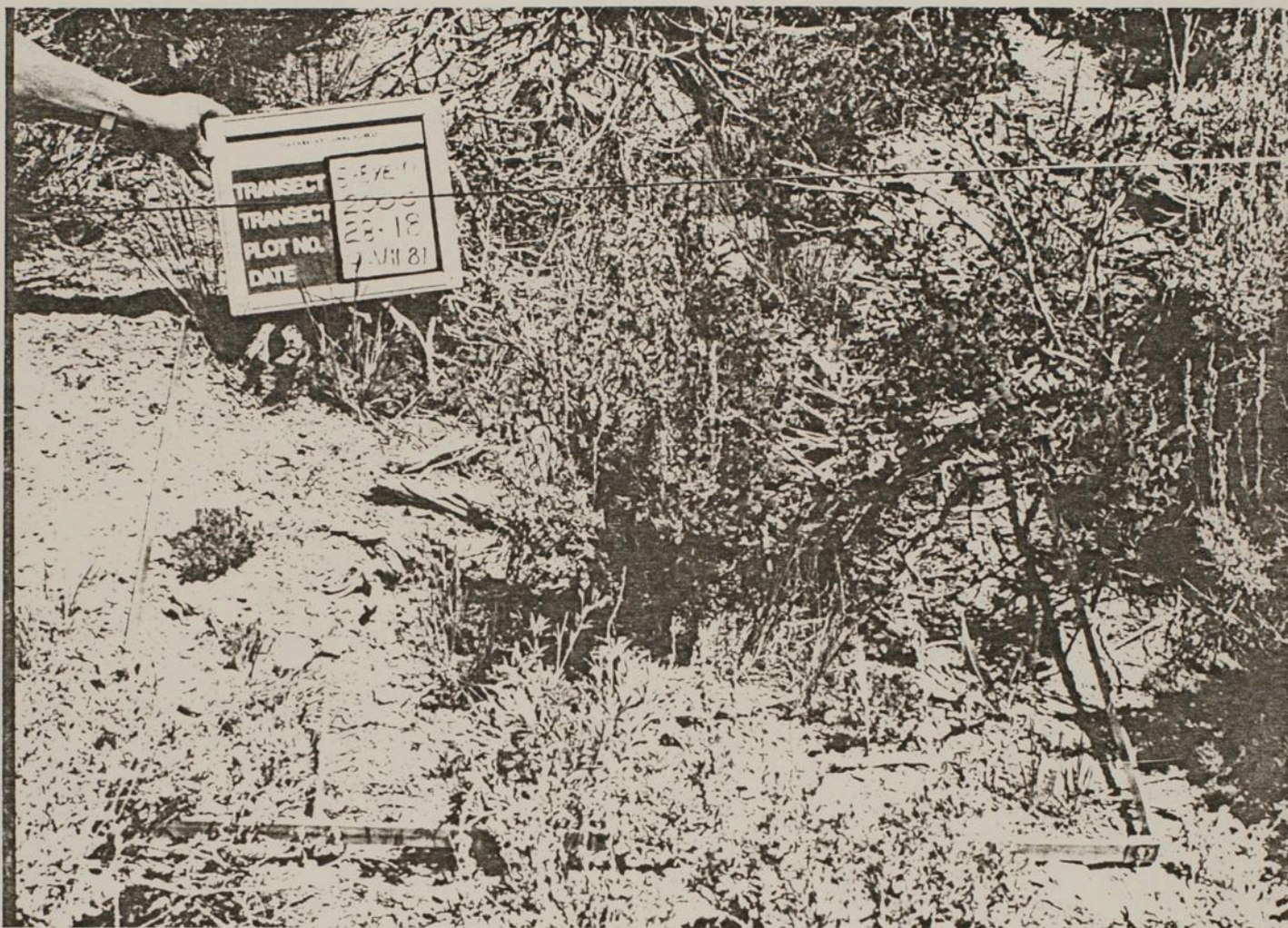


LOCATION - PURPOSE OF PHOTO - NOTES ON POINTS ILLUSTRATED ETC.

Photo 12 - Plot 28-4  
In view: Jupa, Orky, Siky, Artrv

RANGE PHOTO POINT RECORD

FOREST Toiyabe RANGER DISTRICT Bridgeport ALLOTMENT Buckeye C&H  
MACROPLOT NAME Buckeye-Upper NO. 200C DATE 9.VII.81 HOUR 1120



LOCATION - PURPOSE OF PHOTO - NOTES ON POINTS ILLUSTRATED ETC.

Photo 13-

Plot 28-18

In view: Stoc, Siky, Arbr, Syva  
Luca, Phko, Crac