Seedling Notes

Jan 29/33

1 mile NW of Sonora

5 slopes

Bromus rigidus

1st blade 2 3/4 - 3mm wide 7 nerved

~~[illegible]~~ evenly hairy on blade

hairy all over sheath somewhat

longer than on blade.

leave spoon shaped.

To Curtis Crk plots
From pavement Sonora-
Standard Rd Turn west
at 1.3 enter Sonora Rd
signed 4 1/2 to Sonora
Turn left
at 1.65 Turn right on Stout Rd.
at 2.40 bottom of hill start
up. Ranch House to W.
at 2.57 Start down hill
at 2.7 cross ditch
at 2.75 " " again
at 2.97 in swale turning S
at 3.0 gate to W. start up
at 3.03 on top of rise in
saddle start
down.

March 15 1933
Left Berkeley in Chev #17
US 5-217 DA at 7:40AM
Tracy, Stockton, San Andreas
Lunch Valley Springs 65
Supper San Andreas 50
Lodging " " 1.50
Car storage " " 35
Examined the 500' contour
stops (Gan-Dennis Ranches)
and the S and E slopes
of the Philipini Range at
1000' elevation
March 16
Breakfast Valley Sprgs 50
Lunch Merced 40
Supper Madera 60
Lodging " " 2.00
Car storage " " 25
Tire change " " 50

Route San Andreas, Bellota
Escalon, Modesto, Madera,
O'Neals, Madera,

Left San Andreas the early part of the morning and headed for O'Neals. Met, CJK, MWT, FGR about 3 miles above O'Neals and return to Madera with them. It rained hard last night and this morning through out my route. It let up south of Merced.

March 17

Breakfast	Madera	50
Lunch	" "	60
Supper	" "	60
Lodging	" "	2.00
Car storage	" "	25

Purchases next page 1.05

1 can white paint	10
25' white cotton rope (cord)	10
1 paint brush	25
1 3/4 x 4 x 36 pc pine less	08
8 sq feet Upson board 3¢	40
	$1.00
Nails assorted	5¢

Fore-noon discussed photographic methods of measuring plant growth with M.J.W.T. and F.G.R. Purchased above listed materials and painted Upson board 1 coat of flat white paint. P.M. Prepared outline for talk in front of A.W. Sampson's graduate student class.

March 18

Breakfast	Madera	40
Lunch	" "	30
Supper	Northfork	45
Lodging	Southfork	1.50

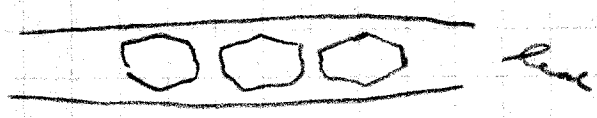
A.M. Helped M W.T photograph
Bellview quadrats. P.M.
discussed on the ground the
possibilities for range research
work on the Clark site.
March 19 Sunday

Breakfast	Southfork	50
Lunch	O'Neala	50
Supper	Sonora	55
Lodging	" "	1 50
Fire chain repair	Madera	25

A.M. Cut valley tin at North-
fork and with M W T and T G R
examined the 2000' (Fine gold)
contour stop on the Madera Rd
PM Continued by myself to Sonora
March 20

Breakfast	Sonora	40
Lunch	" enroute	45
Supper	"	90¢
Lodging	"	1 50
Car storage		25 50

Rattle snake
36" long including rattles
1½" dia
Coloration
Rusty brown spotted
the spots. best developed
in center of body hexagonal
shaped.



The body color on side
dirty gray white this
coloration forming rings
close to tail; the markings
also forming bands rather
than spots
Scales very marked and
strong

The under portion of head and jaws white the body yellowish gray and purplish marked

Examined and took notes
on Big Hill Plot (quadrats)
March 21

Breakfast	Sonora	40
Lunch	" "	30
Supper	" "	65
Lodging	" "	150
Car storage	" "	50

Examined the 500' and
1000' elevational plots on
the Sonora Rd.

March 22

Breakfast	Sonora	30
Lunch	" "	35
supper	" "	60
Lodging	" "	150
Car storage	" "	50

Examined the Curtis Crk
Quadrats

Mar. 23

Breakfast	Sonora	50
Lunch	" "	25
Supper	" "	60
Lodging	" "	150
Car storage	" "	25

1/2" of snow fell last night together with a considerable amount of rain perhaps 0.3 inches.

Examined the 500 and 1400' stops on Sonora Rd.

Mar 24

Breakfast	Sonora	40
Lunch	Sonora	50
Supper	Tracy	70

Examined the Sonora Catholic Cemetery and the 1500' and 1000' contour stations on the San Andreas Rd.

Arrived in Berkeley 10:15 PM in Gov Car USDA 5/217

April 4

Left Berkeley at 4:00 PM in Gov Car #16 USDA 5-216

Supper	Tracy	80
Lodging	Madera	1.75
Car storage	" "	75

Stopped enroute to compare height growth of perennial and annual vegetation in Altamont pass.

April 5

Breakfast	Madera	75
Lunch	" "	20
Supper	South Lake	~~50~~ 33 1/3
Lodging	" "	1.00

Reworked comparative height growth of annual and perennial vegetation north of "rock cut" on Madera - Bellview road

Proceeded to Clark Area and there scouted the site

for the location and establishment of vegetative quadrats and plots.

April 6

Breakfast	5 Jock	$1.00	50
Lunch	" "		50
Supper	" "		50
Lodging	" "	$1.00	X 50

Established 7, five meter square plots inside the 10 acre fence area (one in duplicate rodent exclosure) and 6 plots of the same size outside the fence. Scouted the 1931 burn on the Clark site for the location of a few transects contrasting burned and unburned conditions. Conditions were found unsatisfactory for the setup of any complete experiment.

April 7

Breakfast	South Fork		50
Lunch	"	" 1.00	50
Supper	"	"	50
Lodging	"	" 1.00	1.50

Discussed conditions in the Poa scabrella plot inside the exclosure and decided pantographing was the most reliable and satisfactory way of obtaining records on the growth of Poa. Mapped and took notes on the Ceanothus cuneatus plot inside the 10 acre fence. with Geo. A. Fischer

April 8

Breakfast	Sfork	$1.00
Lunch	"	
Supper	"	
Lodging	"	$1.00

Geo Fischer and I mapped and took record on the Rhus diversiloba and Eriodictyon californicum plots located inside the 10 acre exclosure.

April 9 Sunday

Breakfast	Sfork	$1.50
Lunch	"	
Supper	"	
Lodging	"	$1.00

Stayed in camp.

April 10

Breakfast	Stork	50
Lunch	" $1.00	50
Supper	"	50
Lodging	" $1.00	X

With George Fischer mapped and took notes on the "Seedling" Criodictyon californicum plot and took notes on the three grass-weed plots two inside and one outside the ten acre pasture. Mapped and took notes on Rhus trilobata plot inside exclosure.

April 11

Breakfast	S fork	1.00
Lunch		
Supper		
Lodging		1.00

~~Mapped and~~ took notes on the Rhus trilobata plot outside exclosure also on the Eriodictyon californicum and Ceanothus Cuneatus plots outside (Renner arrived and inspected the work done so far)

April 12

Breakfast	S fork	1.00
Lunch	"	
Supper	"	
Lodging	"	1.00

AM With Fischer and Renner tagged and took notes on individual shrubs and trees. PM I took notes on four quadrats

(vegetation) inside the 10 acre enclosure. Renne and Fisher left in car #16 to work northern slope

April 13.

Breakfast
Lunch
Supper } 1.00
Lodging 1.00

Examined W.L.C. plots the 2000' contour (Timefold) and 4 quadrats on Clark.

April 14

Breakfast
Lunch
Supper } 1.00
Lodging. 1.00

Examined Brownell contour station and obtained notes

on utilization there and on
the Clark Area.

April 15

Breakfast	S Fork	33½
Lunch	"	33⅓
Supper	Merced	50
Lodging	"	1.75

Examined 1000 contour station on N fork Rd. Also examined Perennial grass and annual vegetation contrasts South of Bellview, SW of Friant and Between Merced and Madera

April 16

Brkfast	Merced	30
Lunch	Mariposa	95
Supper	Merced	70
Lodging	Lodging	1.75

Examined 1500 and 2000'
contour stations on Mariposa Rd
April 17
Breakfast Merced-Planada 40
Lunch Planada 30
Arrived in Berkeley at 6 PM
in Gov. Car USDA 5-217
Examined 500' and 1000'
contour stations on Mariposa Rd

1933

LEAVE

April 24 10:30 AM to
" " 4:30 PM
Returned to work 8:30 AM
April 25

April 26.

Stipa pulchra at the Pacific Pass turnoff between Merced and Madera

	Stipa	Poa scabrella
Air dr culms	20°	16
Seeds in milk	✓	
Plant green	✓	
Plant dry		✓
Seed ripe bldg shed		✓

Annual vegetation almost completely dry. The stems and a few leaves of E botryo and Thysanus bicolor are still green & drying rapidly

April 26 1933

Left Berkeley at 5:30 AM in Gov. car J.N.SPA 5-217 Chev. pickup. George Fischer left with me.

Breakfast		Tracy	35
Lunch		Modesto	40
3¼ hrs.	Supper	South fork	33⅓
	Lodging	" "	100

Stopped enroute to the Bellview Quadrate and examined the Island of Styx opposite the Pacheco pass road. 16 notes on the Bellview quadrate

April 27

B. L. S. at South fork		1 00
Lodging	" "	1 00

With Geo. Fischer took notes on 1000' contour station on the North fork Road.

April 28

B. L. S Southfork 1.00

Lodging " " 1.00

With H. G. Fischer took notes on the Brownell contour station on the Northfork Road.

April 29

B. L. S Southfork 1.00

Lodging " " 1.00

Reading & Transferred "fixed" data onto new composition and development sheets. Checked species on plots and contour stations (also) worked during the week. Mr + Mrs. F Clements arrived at Southfork

April 30

With Mr + Mrs F Clements, Reuben Benedict, Wafford and Fischer examined W. L. Londenmilk's installations at Northfork

Toward noon the party proceeded to the Clark Administrative site. There met Talbot and discussed the problems and the status of the present and future work there.

May 1

B.L.S. Southfork 1.00
Lodging " " 1.00

A.M. Talbot, Renner, Fischer and I discussed the problems needing attention at the Clark Site.

P.M. Talbot and I scouted Clark Site and outlined the work to be completed in the next 8 weeks.

1. Notes on the ground cover under the 5x5 meter plots
2. Establish another set of

individual shrubs and trees
to be tagged and upon which
notes are to be taken.
3. Mowed the 5×5 meter grass
weed plots
4. Establish quadrats (or plots)
and transects in the burned
area in Clark.
5. Establish another quadrat
on the Poa plots inside and
outside the 10 acre exclosure
6. Obtain utilization notes on all
species in the Clark Site.
7. Tag Pinus ponderosa and
Rhamnus crocea.
8. Exhibit bundles of grasses (2 sets)
9. Utilization Trips
10. Examine burned areas
(a) definite facts
(b) indications
Date of dryness height growth
utilization

May 2

B.L.J. Southfork 1.00

Lodging " " 1.00

Took notes on the 7000' contour station on the Northfork Rd and examined the mostly southfacing plot on W. C. Lowdermilks erosion plots (denuded).

May 3

B. L Southfork 66⅔

Sup. Maffera 60

Lodging " " 1.50

Helped Talbot take photographs

1. A contrast on the southern boundary of the 10 acre exclosure in Clark area Photo. shows height growth after two months of protection in the exclosure contrasted with grazed vegetation

outside since the beginning of the season

2. Photographed 10 established quadrats on the Clark Area

3. Photographed the upper South quadrat on the Bellview quadrats. Light conditions and wind prevented the photographing of the seven remaining quadrats on the area

May 4

B.	Madera	40
L.	" "	40
Sup.	" "	50
Loding	South fork	1.00

Studied means and ways of compiling the season's records taken on the foothill project

Outlined work for the following 10 days on the

Northfork Rd.
May 5
B.L.S Southfork 1.00
Lodging " " 1.00
Examined all but one quadrat (N slope inside exclosure) on the Oak Area
G. Fischer took notes on the ground cover on the 5x5 meter major plots.
R. Klugh collected specimens of foothill grasses in the afternoon after helping Fischer and myself with plot work.

Saturday May 6

B. L. S Southfork 1.00
Lodging " " 1.00

Staked the locations of 4 transects in burned on The Clark Area.
The plots are essentially of the following types
1. 13 meters long Ceanothus cuneatus seedlings
2. 13 meters long Ceanothus divaricatus seedlings
3. 13 meters long Ericodictyon Ceanothus dichotomus seedlings
4. 21 meters long Ericodictyon Ceanothus bicornutus seedlings
Changed the location of the 5x5 meter plot in the rodent enclosure to the SE

corner, 6" away from and parallel to the fence. Also moved the 5x5 meter plot (inside the 10 acre exclosure comparable to that in the rodent exclosure to a spot bordering the south fence and the 6 foot bare area bordering the rodent fence on the east side.

Located another set of shrubs and trees for the notation of utilization and growth records inside and outside the 10 acre pasture

I took notes on the remaining North slope quadrat in exclosure Clark Fischer continued taking note on ground cover on the 5x5 meter major plots though continued collecting grass specimens.

May 7 Sunday
B.F.L.S Southfork 1.00
Lodging " " 1.00
May 8
B.F.L.S Southfork 1.00
Lodging " " 1.00
Fischel, Klugh and 2
started to obtain current
years utilization data on
the Clark Site. Grazed part
of pasture
May 9
B.F.L.S Southfork 1.20
Lodging " " 1.20
Continued gathering utilization
data on the Clark Area
(Fischer and Klugh)

May 10.
B/L.S Southfork 1.00
Lodging " " 1.00
Fischer Hlugh and I started preparing the field note sheets of the foothill project for analysis. Raining and snowing the day
May 11
B.L.S Southfork 1.00
Lodging " " 1.00
Continued preparing foothill data sheets for analysis.
F-K-H.
May 12
B/L.S. Southfork 1.00
Lodging " " 1.00
Obtained vegetation notes on the area surrounding the Bellvue quadrat. Worked with Hlugh. Collected specimens of Hordeum jubatum

canum and Briza minor.
May 13
B.L.S. Southfork 1.00
Lodging " " 1.00
Obtained utilization notes on the area surrounding the 1000' RR xing. Fischer worked at Bigelows and Klugh between Bigelows and Clark Area
May 14 Sunday
May 15
B.L.S Southfork 1.00
Lodging " " 1.00
Charto graph one Poa scabrella quadrat on the Clark Area Fischer and Klugh present.
May 16
B.L.S Southfork 1.00
Lodging " " 1.00

Chartographed 3 Bora
scatrella quadrats on the
Oak Creek. Collected
plant specimens.
May 19
B. J Lowtfork 35
L. Maddera 40
Arrived in Berkeley at
7:40; by Pacific Grey-
hound Stages to Oakland 7.10
Shipped ole pantograph
from Madera to Oakland 80¢

May 22 Monday
Left Berkeley at 2:45 PM
in Gov. Car USDA 5209
(Wieslander and Yates in party
S Sacramento 90
Lg. Grass Valley 2.00

May 23
B. Grass Valley 50
L. " " 40
S. " " 90
Lg. " " 200

Smartsville Cemetery
Some headstones dated 1860
Perennial grasses abundant
Stipa pulchra, Koeleria cristata
Melica sp. Sitanion sp.

May 24

B Grass Valley 40

L. " 40

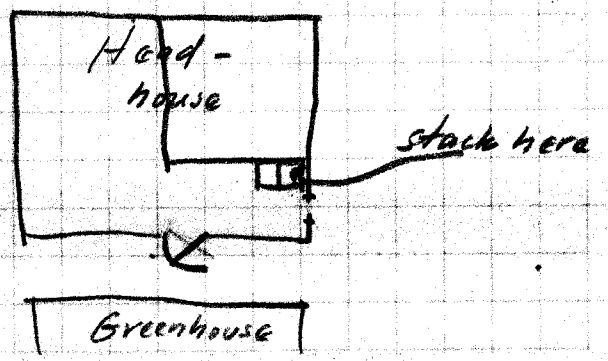
S Sacramento

~~Ly. " 2~~

in Gov Car USDA 5209

Arrived in Berkeley at 9:45 PM

Collected specimens

Identified " "

Please stack these seedling flats with the soil in them in the lean-to greenhouse (22 flats)