8/8/63 <u>?</u>	trace	we were away	5/28/64	.5		
8/20/63 <u>?</u>	"		6/9	1	9AM. <u>24 hrs.</u>	
10/9/63	.12	9AM (night shower)	8/31	.1	" early morning	
10/10/63	1.	" "	10/28/64	.9	"	
10/16	.4	(24 hrs)	10/29/64	.3	"	
10/17	.12		11/1	.6		
11/4	.2	" "	11/2	.55		
11/5	.08	12 "	11/8	.1	" "	
11/6	1.5	" "	11/9	1.7	" 24 hrs.	
11/12	.2	9AM-8 hrs	11/10	1.5	" " "	
11/19	.12	" "	11/11	.3	" " "	
11/23	.77		11/12	.8	" " "	
11/24	.55	yesterday-before midnight	11/13	.3	"30°	
12/9	.41	21 hrs.	11/20	.25		
12/18	.03	24 "	11/21	.05		
1/13/64	.12		11/23	.12		
1/18/64	.7	"	11/30	.02		
1/10/64	0	"	12/11{water	.02	2 days deignle	
1/19/64	.8		smear}	.02	-2 days drizzle	
1/21/64	2.2		12/15{water	.15		
		52.5	smear}			
1/22/64	2	[N.5]	12/19	.8		
1/23	.6		12/20	.5		
2/15	.4		12/21	.9		
3/1[ <del>2/29</del> ]	.1	9A.M.	12/22	1.9		
3/2[ <del>2/30</del> ]	.55	9AM-[fall] before 3/2	12/23	4.77		
3/12	.48	" 12 hrs	12/24	1.2	(low 58°	
3/13	.1		12/25	.1		
3/21	.65		12/26	.2		
3/22	1.00		12/27	1.11		
3/23	.82		12/28	1.12		
3[4]/31	.32		12/29	.75		
4/1	.48	"	12/30	.85		
5/1	.15	"	12/31	1.55		
5/2	.45	"	1/3/65	.7		
5/17	.1	"	1/4/65	.8		

1/5/65	.2	9 A.M.			
1/6/65	1.92	J M.IVI.			
1/7/65	1.7				
1/8/65	.15				
1/8/03	.20				
1/18	.35				
1/22	.35				
1.23	.1				
1/24	1.25				
1/25	.1				
2/5	.8				
2/27	.73				
3/5	.12				
3/9	.08				
3/26	.7				
3/27	1.15				
3/31	.32				
4/1	.4				
4/2	.13				
4/8	.7				
4/9	1.75				
4/10	1.6				
4/11	.1				
4/13	.1				
4/14	.1				
4/15	1.1				
4/16	.1				
4/18	.1				
	1	_1	l	1	

Readings - 9 AM

Г	1	1			s - 9 AM
Aug 10 1965 9 AM	.1"	8 hrs	Feb 20 '66 9 AM	.1	
Oct 13 "	.10		Feb 23	.15	
Nov 8	.65		" 24	.65	
" 12 "	.1		Mar 5	.2	
" 13 "	.5		" 9	.25	
" 14 "	.9		" 10	.15	
" 15 "	.22		" 11	.1	
" 17	.8		Apr. 10	.5	
" 18	1.6		11	.10	
" 19	.6		12	.25	
" 20	.1		May 9-10	traces	
" 23	.45		July 30, 1966	.3	
" 24	1.45		Nov 5 "	.1	
" 25	.9		" 6 "	1.3	
" 26	.3		" 12 "	.1	
Dec 11 '65 "	.1		" 15	.2	
" 12	.8		" 16	1.6	
" 23{22 overwritten}	.1		" 20	.85	`
" 24	1.5		" 21{22 overwritten}	.50	
" 29	3.2		" 28	1.	
" 30	1.1		" 29	.35	
" 31	.1		Dec 1	.15	
Jan 4/"66	.9		Dec 3	1.	?
Jan 30	2.25		Dec 4	.1	
" 31	.2		" 5	1.05	
Feb 1	[ <del>2.85</del> ] .90		6	1.4	
" 4	.75		7	.35	
" 6	.5		Jan 20, '	4.75	
Feb 19	.8		" 21	2.9	
				1	

9AM

Jan 24,1967	2.	9AM 4/16/67	.8	
1/25	.4	4/17	1.1	
1/27	.2	4/17		
1/27	2.5	4/19	}.5	
1/28	.3	4/19	.1	
1/30	1.	4/20	.3	
1/30	.2	4/21	.3	
2/10 {or 18} 2/25	trace .5	4/23	.15	
		4/24		
3/10	.2 <del>trace</del>	5/10	.05	
3/11		6/1	.1	
3/12	-  <b> </b>	6/2	.45	
3/13	3.4	6/3	.35	
3/14	J			
3/16	1.85	9/27?	trace	
3/17	.15	10/2	trace	
3/21	.3	10/3	.35	
3/28	.5	11/4	.05	
3/31	2.1	11/5	.02	
4/1	.35	11/14	.4	
4/4	.1	11/28	.2	
4/5	.1	11.29	.1	
4/6	1.8	11/30	1.5	
4/7	1.	12/1	.7	
4/8	.6	12/4	1.4	
4/10	.1	12/5	1.7	
4/11	1.2	12/6	.4	
4/13	.1	12/18	1.	
4/14	.3	12/19	.70	
4/15	.2			

1/10/1968	2.7"	10/11/68 {or 10/01/68}	.02
1/14	.3	10/12/"	.03
1/15	1.75	10/13/"	.04
1/27	.4	10/14	.01
1/28	.3	10/23	.5
1/29	.35 {or .45}	11/2	.2
1/30	2.65	11/3	.8
1/31	.2	11/5	.25
2/16	.4	11/14	.1
2/17	.5	11/15	.9
2/20	.8	11/16	.05
3/4	.1	11/22	.2
3/6	.4	11/23	.1
3/7	.72	11/30	.1
3/13	1.43	12/1	.3
3/14	.68	12/8	.3
3/15	.3	12/9	.1
3/16	.6	12/10	.1
3/17	.6	12/11	.7
3/23	.3	12/12	.1
4/1	.4	12/14	.5
4/2	1.	12/15	1.3
5/3	.1	12/16	.2
5/4	.2	12/23	.3 ?
5/5	.3	12/24 {or 12/25}	2.0 ?
7/20	trace	12/28	.4
8/23	.2	[ <del>1/19</del> ]	[-2.6]
			~
			9.6

1969		3/3/69	.3	
		3/10/69	.1	
1/12-	.1 (traces earlier)	3/12	.5	
1/13	.9	3/13{or 3/12}	.8	
1.14	.7	3/16	2.	
1.19	2.9	3/17	.1	
1/20	2.	3/19	.7	
1/21	3.1	4/3	.5	{or .6}
1/22	.5	4/5	1.	
1/23	.1	4/6	.8	
1/24	.3	4/8	.15	
1/25	2.4	4/22	.5	
1/26	2.3	4/23	.1	
1/27	.3			
1/28	.9			
1/30	.8			
2/1	.1			
2/5	.7			
2/6	1.35			
2/7	.5			
2/11	.8			
2/12	1.1			
2/15	1.7			
2/16	1.8			
2/18	1.3			
2/19	.4			
2/22	.45			
2/23	.4			
2/24	.5			
2/25	.9			
2/26	.7			
2/27	.1			
2/28	1.8			
	~			
	31.1			

1969---1970 Measured at 9 AM

17071770 Wicas					
10/15	.7		1/29 - {or 27}	1.	
10/16	.82		2/11	.1	
10/17	.4		1/12 {probably.2/12}	.1	{or .4}
11/5	.6		2/13	.4	{01.4}
11/6	.1		2/13	1.7	
11/7	.1		2/17	.8	
12/8	.5		2/17	.30	
12/10			2/18 2/27 {or 2/28}	.70	
	.6		2/28		
12/11				1.	
12/12	.35		3/3	.7	
12/19	.1		3/4	1.2	
12/20	.4		3/10	.3	
12/21	2.7		3/11 {or 3/22}	.2	
12/22	2.1		3/12	.65	
12/23	.7		3/13	.5	
12/24	3.				
12/25	1.6				
1/8/70	.1	1970			
1/9	.4				
1/10	1.2				
1/11	.3				
1/13	.1				
1/14	2.6 lightning	storm			
1/15	1.2				
1/16	3.				
1/17	.7				
1/19	.1				
1/20	.4				
1/21	4.8				
1/22	.1				
1/23	1.1				
1/24	.2				
		1			

1970-1971 measured at 9 A.M.

	ured at 9 A.M.			
Oct 18 <sup>th</sup>	trace	1/10/71	.1	
10/20	.7	1/11	.2	
10/22	.4	1/12	1.1	
10/24	.4	1/13	.9	
10/31	.1	1/14	.4	
11/4	.6	2/17	.1	
11/5	.8	2/19	.3	
11/7	.3	3/11	.05	
11/10	.1	3/12	.25	
11/11	.5	3/13	1.7	
11/25	.9	3/25	.1	
11/26	.6	3/26	2.	
11/28	1.5	4/10	.35	
11/29	3.	4/14	.25	
11/30	.6	4/16	.1	
12/1	.8		1 or 2	traces
12/2	1.7	5/28 {or 5/27}	.1	
12/3	.4			
12/4	2.			
12/5	.2			
12/8	.1			
12/9	.3			
12/16	.9			
12/17	1.			
12/18	.75			
12/19	1.40			
12/21	2.6			
12/22	.3 ?			
12/27	1.5			
12/31	[1.1] .1			

Sept 19 <sup>th</sup> 1971-72 noon	.6
Oct 20 <sup>th</sup> "	.05
Nov 15 <sup>th</sup> " (John Willington)	1.25
Nov 28	.8
" 29	.1
Dec 2	1.1
" 3	.3
" 5	.3
" 9	.1
" 10	.25
" 12	.7
Dec.22	2.2
Dec 23	.2
" 25	2.4
to 12/29	1.1
1972 Days and days to low in mid-	
twenties (19°27°) heavy frosts.	
1/22/72	.3
1/25	.5
1/26	.2
1/27	1.2
2/3	.4
2/4	1.0
2/5	.5
2/22	.4
2/24	.15
4/5	.1
4/6	.5
4/11	.1
4/12	.2
4/13	.8
4/23	.5
6/9.	.2
	18.5 "

Sept 9, 1962-Note: - 8/26 & 9/2 my 21 quadrats restaked. Many had been partially or completely destroyed. Precise restaking not always easy. On top of J. R. from Goya Rd. with Ron - 10:30 AM. Weather. - thin sun, chilly autumn day. "Large hairy" tarantula at #16 walking along in meandering or indirect way, but not avoiding even small clumps of dry grass. It happened to hit toe of my moccasin and ran up of one side along this. Intent to explore further made me interrupt this. Later, pale 1/2" straw-colored spider was watched on and about harvest ant nest on serp. by chaparral on Stew Brand's tarantula -transect. This spider was carrying "dying" soldier ant which quieted as we watched This on the glume and lemma blanket. Only 2 ants seen. Many ant heads lay about on ant hill dry and empty. Barn swallows - above site 4 to 6 low over serp and serp chap. (not common sight) Redtail - 1 over serp E of line - same last week 9/2/62. \_\_\_\_ Checked quadrats -Vulture - over top of ridge. Quad info in quad notes as usual }

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Sept 16<sup>th</sup> 1962 _____ - Checked quads for 3½ hours. Info in quad notes- hot day -

Sept 24<sup>th</sup> 1962 -

On line above from Goya Rd. 9:10 A.M.

Weather:-Low fog- visibility not over 1000'. sun at 9:50 with
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Air clearing- warm late summer day.

-Heard in fog - Jays }

- Nuthatches} 100 yd E edge of J.R. Reserve --- Ouail }
- -Noise:- The drone of frequent airliners frequent, smothering all J.R. sounds. Valley noises evident especially from Holyoak, aside of Proj. M. bulldozing for buildings Sometimes the noises were insufferable.
- -Rumex obtusifolia- horizontal branching from divaricate stems and the blackish brown of the dry plants makes these conspicuous in pale dry grass off serp. Top of ridge. It is more abundant now.
- -Juncus patens- conspicuous in swale from below #21 to S of #20 in low area mostly- holding seeds & to 18" tall E to S of #20- shorter, about 12" below (where I would have expected it to be taller).
- -Cordylanthus N.E. of serp (and elsewhere) scant this year as compared with other years—and this year depauperate.
  6" plants common with old blooms—Few to 6" where
  Ron & I collected a couple of years ago in encl. Area.
- -Hemizonia healthy this year slender, widely branching, many blooms. 70' of #16 off serp plants much more dense and luxurious taller than on serp (to 25" -[serp-22"]-spreading to 26"). This is exposed place not prevailing in quite the same way elsewhere.
- -Ants- on burn 20' towards #13 from #15.—reddish black to about 1/8" soldier larger. None over 24" from 1/4" hole in serp. --carrying seeds.

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9/24/62 - (cont.)
_Stipa pulchra on serp - some showing green now to 1" plus.
_Cal Woodpecker - 2 in [aprons] in dome oaks - flushing possible
_ red bellied hawk - (400'without glass. Bird quickly out of sight)
_Blackbirds - 3 over #17 to E
_Flicker - 1 to dome oaks
_Thrasher (possible [worker]) - in brush above #5.
_Cordylanthus rigidus -more then ever - extending range in S. swale
_Corethrogyne - patch top of S. swale growing & more dense
_ 1-last bloom.
_G. C. Sparrow - 1<sup>st</sup> of season - [seasonal] 1<sup>st</sup> notes heard in [our] creek.
_ Several first notes heard from W.dome - six possible
_ migrants [nervously] south from W. dome [p.o.]
_ Off J.R. 11:20
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Sept 30, 1962
         At great inlet. Searsville Lake alone 10:30 A.M. D.S.T. - to SFCr
     Down S.F. Cr. Bed to Biol. Reserve, then up to fence and along top of
      N & W bank on trail.
   \_ Weather: clear, warm, quiet, balmy- to 80+^{\circ}.
               Rain 56 hours ago .12"
    Xanthium - dense bed from laurel by road to tules on N. side of inlet
               -20'at widest x 100'. Only scattered here last year.
               Blooming and pods
   _ Heliotropium - all green and blooming mat - well above water.
   P.O. red in inlet - otherwise all is fresh and green.
   _ Searsville higher than anytime in Spring 1961.
    Salix hindsiana - So. End of lake - many new green shoots.
New Nicotiana bigelovii (Torr.) S.Wats. - Indian Tobacco - 1st seen
               collected - only 1 plant - 30" tall, branched, many
          large white blooms - So side of great inlet in sandy bar
          about 100'from edge of lake. In Heliotropium mat. Typha,
          Xanthium, Tomatillo, Gnaphalium palustre - within 4'.
New Lycopersicon esculentum Mill. - Tomato. (The real thing) to
               18"-with one bloom, 6'from above site on sandy bar in shade
    Vulture - flushed in S.F. Cr.bed from dead possum at point below
               E most redwoods below Searsville Rocks. This about matted,
               dessicated but recent carcass. Thin Maple-Alder cover
              -visible from air. Flushed from behind boulder at 100'away
              from me. Flew to Alder up 20'some 50'downstream.
              Flushed again as I approached to 1200'- Flew downstream.
    Melissa - blooming in Cr. Bed
   _ Trientalis - still green in S. R. shade.
   _ Fairy bells - " "
                               **
     Aloes - no dry leaves "
                                    11
                                             - few elsewhere.
      Buckeyes-½ size fruit green-nearly leafless but with green on some N.side S.F.Cr.
               elsewhere - almost leafless - no green.
     Prunella patch by S.F. Cr. Quite dry, but some green on leaves
    Maples- vary in green with exposure.
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9/30/62 (cont.)\_

- Horned Owl flushed from blue oaks in grassland E of tiger lily site- N. of S.F. Cr. Top of bank. Owl flew E 200'to dense valley oaks near creek. Flushed Again- flew S.E. to Jasper Ridge woodland.
- \_ Live Oak (Q. agrifolia) d.b.h. (from high side)-3 1/2' branching up 12'to 15'-qbout 100'downstream from tiger lily site- W side of S.F. Cr. Near top of bank where S.F.Cr. goes N. Largest Q.a. on Jasper Ridge? The bark is surprisingly smooth.
- \_ Polygonum aviculare prostrate bet. road and serp. cr. above inlet. Quite in contrast to erect C.M.Cr. bed spec. coll. 9/12/59
- \_ Band-tailed Pigeon- 1 towards mountain down grand canyon of serp. cr.-
- \_ Heron (G.B.) from Searsville Pond over swamp \_ 10:30 AM
- \_ Sharp-shinned Hawk wheeling over road S. end of Searsville canoeway.

Oct 8<sup>th</sup> 1962.

On J.R.- south base N.R. alone 8:45 A.M. (D.S.T.) Weather-increasing drizzle-fog-visibility less than 2 miles-Sun at 9:45 AM Cal Jays- 5 in 75' radius, 100' N of end of Mantilla Dr. 2 in [scuffle] in 15'live oak briefly, followed by "screams"- 1 flew 50'W the other joined by one (now "screaming") from 75'So. Others moving about in area, positions [obscured]. Two heard in N. Cr. Canyon from ["deck"]on top of N.R. Two also heard S.W. Jay calls to be heard at all times throughout to C.M.Cr.There must have been at least 20 on transect between C.M.Cr.and Nolan Cr. Many with acorns in mouth. On S. trail 150'outside laurels 8 seen or heard nearby at one time. In C.M.W.5 in sight` was usual. One with 2 steller jays on two occasions. N. trail 100' inside C.M.Cr.-S.trail 150'outside laurels.Cal Jay-[CMF] to mid SW [cherry dome] with acorn. Quail-in scattered family groups in wooded areas. Heard s. foot of N.R. -opp sides C.M.Cr. calling, close to C.M.F., also some in center, and 2 groups at least near (within 150'CMCr. One  $\delta$  crossed trail slowly 20'N of me (150' outside laurels on So. trail), clucked to call 3 nearly full grown across. Later, after circling under brush to W. to S., perched on dead elderberry by trail up 8'-30' S.W. of me. Quail scattered throughout So corner part of line, in 2 or 3 groups of family size. Fox scats- abundant. Extensive "development" of lands may be forcing foxes onto Biol. Res. Locations: -1/2 way up S.W.N.R. on S.E. trail (prune seeds) :-50'of trail in chap. top N.R. (7 prune seeds, also grasshopper mandible-some rodent hair Also seed tests and whole leaf, prob. C. cuneatus. :-30'of above site with 5-8 prune seeds (not pulled apart).:30'NE of above :-50'above cut-off- 5 prune seeds (prob. Less than 2 wks old) :-100'W of cut-off-5 prune seeds :-edge of brush bet N & S. trails Lower C.M.F. - like above (with prunes)

Wild coffee berry only.

:-C.M. Cr. b ed- fresh scats

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10/8/62 (cont.)
Wildcat scat - 110'S. E] of "[desk]" - nothing but hair - either
               woodrat or rabbit.
Buckeyes - holding in green pods - mediocre crop., prob below or about
             average.
Animal trails - evident in grass of "savannah" some to nearly ½
           as broad as horse trails. Most are much smaller, but
           well traveled - not meandering, but direct. Sometimes skirting
           brush areas out to 20'- top of N.R.
 Flicker - 2 heard near cut-off, one of those to top of N.R.
       in blue oak, answered once by the one at cut-off. Later 1 from upper
       C.M.F. oaks to CMW calls - then followed by what appeared to
       be younger bird to valley oak near edge but within C.M.W.
       Shortly - one of these returned to C.M.F., landing low (up 5')
       on blue oak above CMF fence 100'. One outside edge of
       laurels later. C.M.W. The same birds may have been involved
       on above occasions, tho others were heard in distance.
  Horned Owl - 4 1/2"downy feather 30' N. of desk top of N.R.
            - 6" tertiary found near (W. end) [gran pt] on trail.
_ Adenostoma - red everywhere with abundant holding achenes
               and masked red-brown [leaves].
_ Skunk-(striped) - heavy traffic on S.W.N.R trail. In spite
           of recent horse prints, skunk tracks cover the trail
           also So. trail C.M.W.- common.
_ Calif. Woodpecker - 1 - twice with acorns to top of largest
                 val. Oak in upper C.M.F., further bird present.
                  [-]2 in top of dead fox-oak - 1 storing acorns
                  (could be same seen in upper C.M.F.)
_ Cal. Thrasher-1-[chercks] - edge of chap. Upper edge C.M.F.
               -1- in coffeeberry near baneberry site - 40'inside
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C.M.W. - So. trail.

Spurred Towhee - 4(prob.) at least on [line] - S.W.N.R., 1 in p.o.

upper CMF. (in chap edge with br. Towhee. 2-150'

outside laurels, So. trail C.M.W. 1-So trail near edge CMW.

as usual.

```
8/10/62 (cont) -[prob. 10/08/62]
     Br. Towhee - edge of chap.under live oak upper C.M.F.
                 - 2 " " C.M.W. 40'inside, by So. trail.
     _ Vulture - 2 over Portola Valley 1 of these X over W.J.R.
       Cordylanthus - eliminated from upper C.M.F.
     _ Grindellia rubicaulis - common - S. facing slope S of trail in
                   upper C.M.F. - completely dry. Phyllaries not at all
                   reflexed as are those W. of S.R. by road.
       Hemizonia - only 1 in upper C.M.F. (seen) - scattered alonf fence and
                    trail across C.M.F. and extending down slope part of
                    lower C.M.F.
      G.C.Sparrow - few at end of Mantilla Dr. Few notes heard near
                      edge C.M.W.__ still not common.
     Sharp-shinned Hawk - from W. C.M.W. to over lower C.M.F.circling
                 up 70'- sometimes in circles as small as 20' dia. Rose
                 higher - drifting off E.
       Coffeeberry - ripe fruit abundant.
      Steller Jay - 2 near Sharp-shin west side in C.M.W. Seen while
                  in search of strange, strong call heard several times -
              prob. Steller Jay in view of recently heard wide digressions
               from standard vocabulary. These 2 had acorns, and became
               involved in harangue - prob directed at me joined by 1
               Cal Jay - 2 later 150' outside laurels on So trail -
             calling - also Cal Jay
      Rabbit - 1 near N. trail entrance in willows and brush.
                 1 where N. trail meets. Trail in open nearly leafless p.o.
spect C.M.W. laurel arewa maturing fast, and becoming dense woodland
               willows, cottonwoods, boxelders.
     _ So trail over 150'outside of laurels,50'from where trail bends,base of grass pt.
     Chipmunk - 1 feeding on p.o. berries 15'So of me - much barking
                 and lateral lashing of tail.
     _ Fox squirrels - 2 heard towards gras[s] pt.
       Much bird activity as described in above - here
```

Bees - very active on Baccharis - large activity edge of CMW, down CMF.

8/10/62 (cont) -[prob. 10/08/62]

\_ Tracks on So trail C.M.W. bet grass pt. And C.M Cr.

- Coon
- Fox
- Wildcat (not often seen)
- Skunk (striped)
- Deer
- Squirrel
- Many Jays & Quail

Offline - 12:15 noon -

Oct 14, 1962

- On J.R. foot of N.R. 9:30 AM with Chas. Jeff. & Pip (Sheperd) To C.M.Cr. and Nolan Cr. "delta". Off line 11:30.
- \_ Weather;\_ broken clouds- sunny-occasional N.W. stir. Rain- 24 hrs. 3.23"- 72 hrs. 8.5".
- Coffee-berry many fruit down, but large crop holding.
- \_Cal Jays- never more than 2 in sight- C.M.W. Much fewer than last week.
- \_Quail- family groups- 1 heard So. base of grass island where trail turns toward So., 1 heard 75'W. of above site, 1 heard 100'So. of  $1^{\rm st}$  site.
- Birds generally few about all was quiet.
- V.G. Swallows 2 high above C.M.F.
- ater \_Rivulet near gate, foot N.R. Lower C.M.F. marshy. So. trail under water from entrance to beyond baneberry site, also for about 200' from near grass isl. To within about 40'of C.M. Cr., because of wear in trail. C.M. Cr. running muddy 8'wide at narrowest. It had overflowed to deposit from 3"to 6"of silt to 40'from bed near So. corner of line. Buzzard oak with water running All about it. Silt deposited into W. corner lower C.M.F. Nolan Cr. in strong flood over trail out of Nolan Cr. canyon to 100'
- spect \_ All is still green- even Leatherwood and Blue Witch. Black oaks on Mt. side with many leaves blown down. Some willows fallen trail -down Nolan Cr. In shade, p.o. still largely green. Few limbs blown down in storm in C.M.W.

Spring Hill on Mt. summit showing green in draws.

- Lactuca serriola blooming- So. facing slope N. edge of line- C.M.F.
- \_ Erodium- to 1/4"- above slope leaves of plants often meeting also in lower C.M.F. to about same size on slope
- Geranium molle with Erodium [down] C.M.F. on slope.

Oct 21st, 1962

- On J.R. from Goya Rd. 8:30 A.M.(D.S.T.) ON LINE ON SERP. 8:50

  Weather: dense but shallow ground fog visibility 200' from gate,
  but sun bropke thru. Fog holding in hollows, but Mt. tops
  in view. Fog mostly dispersed by 9 no [stir].
- Flickers 4 heard or seen bet. gate and line.
- \_ Larks much jabbering song possible est. of territories? One from little dead oak area near round end. One from top of tall oak nearest to tumble down oak. One from old corral area. Two or three in rapid, scrambled notes in dome oaks. One from N.W. side of line on serp.-5 or 6 in group lower N.E. dome not in song.
- \_ Doves 6 on little dead oak near round end. (1 facing E., others facing W.). 12 flushed from midline on mid. Serp. Ones and twos flying about on serp. in fields not a Real flock.

Burn

- uads-\_ Plantago erecta (the "grass" on serp.)- to 1" off burn, dense to 3/4" on burn. Much more dense off burn.
  - #15 (burn quad) sparse several areas where soil is present
     are 3" squares where no growth appears, and frequently
     plants (where they appear) are 1" apart.

  - The 2 above quads are not the best for comparison perhaps, as #15 has always been less productive in plants but in general the above prevails.
  - \_ Grass (annuals) some to  $1\frac{1}{2}$ " off burns. None on burn.
  - $\_$  Dicots 1 to 2 and 3-4= prevailing size ratios on & off burn.
  - \_ Stipa pulchra in good shape on and off burn.

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10/21/62 - (cont.)
        Burn (cont.)
        Stipa pulchra (cont.) -
        -Off burn Stipa plants are much more crowded by standing
           dry stuff than on burn plants. On burn plants are no taller
           (to 4") but have more living stuff per plant.
     Met Dr. J.H. Thomas near Quad #15 told me of Dr. Raven joining
     Stanford faculty.
     - Cal Jays - 4 atop leafless p.o. patch 200'W. of top of dome
                 (Quad 11) - same p.o. patch with G.Cr. Sparrows-
     - Erodium botrys - leaves to 5/8"- top W. dome (some to 3/4") - " cicutarium " " " " " " " " "
     - Tillea - .5mm where showing.
                   - Sage - top of Dome - better off than ever.
Quad - Quad #11
           - Burn -
             - Erodium botrys - dense, largest leaf 1"
                     cicutarium - about 1 to 10 ratio with botrys.
             - B.E. grass -10 per sq. ft.? to 2"
             - Grass - sparse to 1 1/2" (no Stipa)
           - Off burn
             - Erodiums - both sparse - to 1 1/4"
             - B.E. Grass - more abundant than in burn, and to 3"
             - Grass - dense, to 4"
     - Quad #12
             - Grass to 2" apart. Prob. B. rigidus to 5" (one).
             - Dicots - (no Erodiums present) - to 3/4"
             - Burn - Almost all cinders gone or obscured excepting on N.E. Dome.
             - Gypsum line near #14 (big boulder) showing dark shadow of
                      rain powdered cinders and green film to 1/2" - mostly
                      much less. This area superficially looks awfully bare.
             - Poppies to 3"- above site - same as last Sunday on S. facing
                    - slopes of upper C.M.F., N edge of line./ - Poppies not
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- affected by fire.

CaO

- 10/21/62 (cont) serpentine
  - Lomatium to 3" mid serp.
- Stipa pulchra clumps are as hard to separate as are Adenostoma clumps.
- Nuthatch heard in dome oaks.
- Aside of litter (much) and few dead limbs down no trace of storm of 10 days or 2 wks ago in J.R.
- Band-tailed Pigeon 1 across top of ridge up 20'- then gap W. of Kieth oak
  - 1 tail feather and 8 down feathers found together on line  $\min$  serp.
- Robins 11:35 20 flying in open formation and "chucking" top of J. R. N. to S.
- Tarweed beat by rain drying and with few blooms showing November aspect.

-

- `Nov. 11, 1962 -
  - On J. R. reserve foot of Nolan Ridge alone 7:30 AM.
- Weather :-clear, still. sunny heavy dew.
  - Quail 56 on Westridge Dr and shoulder in 3 groups at CMG Cr.
  - Cal Jays with acorns. Frequent along Westridge Dr. at above area. also common thru out.
  - Deer 1 doe flushed 50'inside reserve in Coffeeberry S. of trail along foot of N. R.
  - Aster radulinus 2 blooms left formerly several just below oak border below "cut-off" in same area as Grindellia earlier new basal leaves (on other plants) [to] 2".
  - Fox scat stomped by horses 60'above cut-off 5 Prunus ilicifolia seeds.
  - Sp. Towhee edge of chaparral (also under blue oak) W.W.N.R. gully opp. Above site.
    - 1 lower Nolan Creek
    - 1 edge C.M.W.
    - 1 mid C.M.W.
  - Buckeyes pods not split yet poor crop, or well below average.
  - Leatherwood 1<sup>st</sup> bloom 30' E of "desk" also few new leaves
     (earliest previous record late December, I believe) conspicuous
     when hit by early sun.
  - Potentilla leaves to 9". below cut off [N.C.] and elsewhere.
  - Grossularia leaves 1/2"across= top N.R. near desk over 1" elsewhere.
  - Toyon berries green with slight orange to bright red S.W N R.
  - Fox Squirrel down blue oak 10'S.W. of base of "desk" on ground to limb, and over side of woodrat nest in nearby p.o.; down p.o. branch to closest blue oak base then up blue oak on probable route used by woodrat occupant.
  - Woodrat nest base of "desk" obliterated no trace, but hollow insides show much use by small animals.
  - Thrasher song top of N.R. chap. 1 lower Nolan Cr.
  - Flicker 1 flushed from ground, firetrail top of N.R., flew off but came back to land again in 2 min., and veered off upon seeing me, landing atop nearby chap. and called.

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11/11/62 (cont.) -
    - Flicker )cont.) - 2 in bee tree, and 1 nearby (S.E.).
                - C.M.W. outside laurel area - So. trail
   - Plants up:-
          - Cryptantha microstachys}
                                     }prob. Both - to 3/8"top N.R.
                 {amissidipsih
          - Sanicula crassicaulis - to 1 1/2" across (leaf) -
          - Delphinium calif. - to 1 1/2 "across (N.E.N.R.)
          - Thallictrum - up 5"
                                                 (N.E.N.R.)
          - Bee plant - up 6"
                                                (N.E.N.R.)
          - Elymus glauca - up 10"
                                               (N.E.N.R.)
          - Pitcher Sage - 1+" N.E.N.R. and Cooper #9 11/3/62
          - Blue Witch - leaves to 5/8" (lower Nolan Cr. bed)
                                         ( "
          - Barbarea - to 6"
                                    to over 1" (" " " ")
          - Miners lettuce /
          - Wild Parsley - 3"to 10"
          - Anthriscus - to 2"
                                          ( " " " )
          - Ninebark - all with old leaves, and new leaves to 1 1/2" Lower N.Cr.
          - Lupinus dnesiflorus - to 2"above cotyledon leaves above fence CMF.
          - Nettles - new leaves to over 1"- C.M.W. in laurel area.
          - Checkerbloom - lower C.M.F. - leaves to 5" - mostly 3".
          - Heracleum - 1 up 4"- 40'inside So trail in low moist area.
- Calif. Jays. prob. 5 on line bet. top of cherry dome & top N.R.
             2 in bee tree with flickers - usually carrying acorns
- Chickadees - 4 or 5 near bee trees.
- Bewick wren
- N.E.N.R. - 1st smell of winter.
- Single crickets heard at good pace on S. facing cherry dome.
- Quail - heard - lower N. Cr. bed.
- Wren-tit - 8:55 first heard - N.E.N.R. - 2 in dogwood - po. Lower N.Cr.
- Coon tracks - lower N. Cr. - throughout C.M.W.
          - throughout whole South J.R. area - common.
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                                     Ó
                                          Ó Ó
- Deer
- Salix lasiolepis - lower N. Cr. - few leaves yellow - but buds full tom1/4.
 Tarweed - 2 blooming plants only above fence C.M.F.
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- 11/11/62 (cont)
- Cal Woodpeckers heard in large val oak upper C.M.F.
  - 2 in laurel over C.M. Cr.
- Cal Jays common. C.M.W.
- Steller Jays 2 at least near C.M. Cr.
- C.M.Cr. running clear 2wide.
- G. C. Sparrows- few heard today but scattered thru C.M.W.
- Blue Elder seedlings with new leaves to 6.
- Coffee berries So trail C.M. W. few ripe berries still holding -
- Laurel area C.M.W. being taken over by S. lasiolepis which in turn is being invaded or in early displacement by S. lasiandra
- Brown Towhee 2 in S. corner of reserve by C.M.Cr. in brush.
  - 3 or 4 edge of reserve at Mantilla Dr. with 1 Sp. Towhee
- Wren N. trail near sharp-shin nest site heard-
  - So. trail, S. corner of reserve or line heard-
- Anna hummer buzzed to within 3 of me mid S facing
  - cherry dome
- Hairy Woodpecker-(prob) high in bee tree couldn't see.
- There was considerable drip early this morning. The soil in woodland areas is moist but warm -
- Meadow larks 11/4/62- top of J.R. East edge of line few  $100^{\circ}$ S.E.
  - a flock of about 42 -

Off line 9:55 A.M.

Nov 22<sup>nd</sup> 1962- Thanksgiving Day -

On Jasper Ridge at end of Mantilla 11:40 A.M. - Went along side Hills to Searsville, returning along swamp trail.

Weather: - Thin sun - high cirrus and cirro-stratus clouds - N.W.[stir]

- Nuthatch in oaks bet. foot N.R. and so. trail- Tho not always reported, these may be heard somewhere in oaks on every trip.
- Cal Woodpecker quiet high in upper C.M.F. Val. Oaks.
- Aud. Warbler 2 high in Val. Oaks above 1 to C.M.W.
- B. Wren 1 in p.o. up blue oak, upper C.M.F., joined by another who chased it out to C.M.W.
- 1 Br. Towhee p.o. under upper C.M.F. oaks.
- Calif. Jays 2 or 3 in and about C.M.F. quiet generally.
- Live Oaks to 16" scattered along lower border of C.M.W. east of line. Advancing since cattle removed and taking advantage of disturbance not followed by Instructions.
- Sharp-shinned Hawk circling over C.M.F. gully up 150' rising and drifting to S.E.
- Aud. Warbler 2 flew above hawk above about 30' and turned.
- Hypocheiros radicata  $1^{\rm st}$  bloom only one 18" tall by trail at edge CMW E. of line
- Buckeyes- beginning to fall few most pods not open.

  Variation in yield spotty, as in lower Dolan Cr. seemingly not a product of exposure.
- Coots 2 on Searsville Lake no other shore or water birds.
- Hyla 2 in Searsville Swamp heard
- Cricket single one in Searsville Swamp also single above N.C. delta.
- Chickweed up everywhere.
- Sparrow Hawk from field above C.M.Cr. to C.M.Cr.side oak 700' SE of line (seen from road on return home).

  Offline 1 p.m.

All was very quiet along J.R. after time has passed. The swamp was actually balmy — with nice smells.

Dec 9<sup>th</sup> 1962

On top of J.R. from Goya Rd. N.W. to and about "line" - 8:30 to 9:30 A.M. Alone.

Weather: - dense fog. (but not thick). Visibility never over 100 yds.

- Ceanothus cuneatus first blooms. So facing edge of chaparral on corner next to blue oaks- bloom under blue oak branch 3'above and covering.
- HOH Drip In hilltop oaks about "Keith Oak" drip audible from out of sight or 100 yds very noisy and crackling on dry leaves in green grass below. This not heard elsewhere, the noise singular.
  - Br. Towhee- 2 heard near [round]encl.
  - Larks occasionally seen
  - Woodpecker (Cal) from tumble down oak
  - Orthocarpus certain now to 1" (red foliaged one along road)
  - Gophers much activity S.W. of road on line on serp.
  - G.B. Goldfinches few occasional overheard on line on serp.

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January 6<sup>th</sup> 1963 - (1<sup>st</sup> trip since Christmas)
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- Ruddy duck one [one] each
- Ring-necks 30 on S.P. 1/4/56 -
- Wood ducks 2 on W. S.P. (Row) 1/1/63
- Townsend Warbler 1 in Dogwood Dausel Cr. at home 1/1/63 feeding lower than chickadees, and going to ground.
- Brown Towhee 1 at baby blue eyes site upper C.M.F.
- Wren-tit brush N of heron rookery heard -
- Vultures 2 high over Searsville Rocks.
- Downy Woodpecker in [small] tall willows by trail in Swamp 150 yds from S.L.
- Salix lasiandra some bare, but many still holding top yellow leaves.
- Song Sparrow } Searsville Swamp at above woodpecker site.
- Sp. Towhee -
- Creeper in live oaks edge of Swamp by willows and just W. of great lupine field.
- Corte Madera Cr.- running well main course just below Nolan Cr. close to trail. It pretty much follows base of S.W. facing slope. Water rewaches into grassland along brush line from "vernal pool" to corner oak. Vernal pool joined by rivulet across end of lower C.M.F. Standing puddle into CMW
- Nolan Cr. not running.
- Fox ? 100' W of val. Oak N. bend of line, lower C.M.F. Heard noise on dry leaves under live oaks saw long, low bushy tail disappear. Old Fox and deer tracks 30' W. by C.M. Cr.
- Sp. Towhee under live oak beneath N. bend Valley oak lower C.M.F.

- 1/6/63 cont-
- Cal Jays 1 top of chap N. Nolan Ridge quiet profile @ 2000'.
  - 1 lower C.M.F. oaks
  - 1 upper C.M.F. oaks to Baccharis in gully.
- Sapsucker N. bend of line, lower C.M.F. in live oaks flew to N. Cr. delta.
- Flicker to upper C.M.F. oaks from lower N. Cr. area
- Thrasher heard upper edge upper C.M.F. in chaparral.
- Coon tracks along C.M.Cr. in CM woods near buzzard oak
- Plants all are up excepting late summer plants Navaretia, and orchids (grass pt.).
- Laurel drowned near buzzard oak with sprouts to 4' from lower limbs.
- Oyster mushrooms no sign yet C.M.W.
- Boisduval (small) Sulpher near heron rookery from lupin field.

January 20<sup>th</sup> 1963.

On Jasper Ridge with Ron - from Goya Rd. - 10:00 A.M. - to 1 - Weather: - clear - cold - temperatures going dailynto below 28°.

Trip to E. serp, W. to round encl. by the "backway" - across serp to p.o. charcoal pile - to trough, and W. to above heron rookery- Return to top of ridge and to car by "road".

- Indian Warriors, scant and somewhat lax from water loss Many up thru ground.
- Fox scat near 2<sup>nd</sup> encl. from E. Border of reserve entirely of Toyon berries some almost whole, showing poor eficiency.
- Linanthus plants up to  $1\,^{''}$  on serp near Laz. Bunting site dense.
- G. C. Sparrows few seen throughout rarely 10.
- C. cuneatus buds showing white 1 branch blooming in sun by trail 150 yds. W. of trough.
- G.B. Goldfinches flock of about 15 in oaks high above heron rookery.
- Heron rookery about 15 old platforms visible in leafless Cottonwoods no heron activity.
- Thrasher 2 only heard 1 200' W. of trough, 1 200' E. of old corral.
- Grass near laurels south of dome showing wilt evaporation in warmth of days, but cold ground preventing absorption (Ron) -
- Erodium botrys forming large red-patches still but more restricted than previously.
- Water running below willows and standing in swale, but elsewhere none on top even the soles of boots and keds were dry throughout.
- Willows in swales (Salix lasiolepis) 1st bloom.

Jan 26<sup>th</sup> 1963

- Along N. side Searsville Pond 11:15 12 -
- J. R. from Mantilla 12:10 1:30 about up N.Cr. to heights above heron rookery alone
- Weather: max temp 40°+ overcast of max. density for here, beginning at about 2000 descending to 1200 at midday. N. breeze intermittent.
- Ring-necked ducks nearly 200 On S.P. At 11:50 there rose in 3 flocka successively, circled and flew to lake apparently leaving perhaps 4 or 5 behind. Not flushed - no evident reason for departure. These had been in open mixed flock scattered on pond. Later seen in So. S.L. from hill above heron rookery.
- Ruddy ducks about 20 with above some left with Ring-necks when they flew.
- Canvas Backs 30 to 50 mostly S.E. end of S.P. keeping either to themselves but sometimes mixing with above.
- Coots few, about 15 to 20 on S.P. mixing with above.
- Buffleheads none today perhaps 10 2 days ago on S.P.
- Buzzard in past 3 weeks 1 or 2 have roosted on bare redwood top by old Co. Rd. at Alembique Cr.
- Live Oak largest near S.P. outlet toppled in Autumn wind -Storm and rain. Most roots not exposed. Leaves full and green.



- ground. {This may live for awhile

- S.P. - [long] full

increase.

26" d.b.h. Many see things about - As pond fills, live oak opportunities should

- Robins 20 overhead to So into Portola Valley.
- Buckeyes many still on ground, Nolan Cr. "delta" area some - sprouting.
- Montia abundant (above spot) no perfoliate leaves all basal
- Trillium no trace " "
- Nolan Cr. no water abrupt bend to S  $\ensuremath{\mathtt{W}}$  caused by hardness of "green-wacky" formation from cr to top of hill W.N.W. Stone appears cherty - serp color.

- Br. Towhees 10 seen in ½ mile in grass near brush So facing slope above C.M. Swamp.
- Fox scats 5 sets on above hillside all entirely and exclusively Toyon.
- Horned Owl flushed from live oak to live oak up buckeye canyon near Dinah's puddle above heron site. Little ditch with running water.
- Herons no activity at rookery. Yesterday at 9:30 AM, 1 seen in high flight from N. across Sand Hill Rd and across N.W. J.R. in direction of this site.
- Flickers 2 flushed from ground 50nipul taerg rewol ,trapa ' field rocky Eriogonum area.
- G.C. Sparrows only 5 seen 200' above above site.
- G. B. Goldfinches few in oaks high above heron rookery site.
- Linnets 20 to N Cor oak, lower C.M.F.
- Wildcat scat with mandible of woodrat 200'W of N. cor. Oak.

  Sometimes I think fox leave scats on wildcat scats. Such
  a possibility found by trail, edge C.M.W. just So of line. The
  scats were different and seemed of slightly different ages several
  days old.
- Hutton Vireo}by C.M.Cr. brush border below great lupin field
- Sp Towhee
- C M Cr. running well
- Cal Jays 4 or 5 heard and seen on hillsides and along C M Cr from Mantilla to great lupin field

Feb 10<sup>th</sup> 1963

On line below "cut-off" 11:15 AM alone

Weather: - complete overcast - light rain, clearing about noon; broken Clouds, sun, N.W. wind following.

Rainfall 2/8 - 9AM - .18" 2/9 - "2." 2/10 " 1.4"

- Dodecatheon hendersonii ssp. Cruciatum  $(4 \text{ merous}) 1^{\text{st}}$  blooms prob over 1 week at usual  $1^{\text{st}}$  bloom site on line [on] grassy slope above trail and 50' above "cut-off". 1 flower 5 merous on stem with 2 4-merous flowers.
- Cal Jay 1 at "cut-off" 1 top of N.R. 1 at bee-tree areafrequent throughout to Searsville Lake.
- Hound's tongue  $1^{st}$  bloom to 13" near bottom of gully 50' above cut-off. Only bloom seen.
- B. Wren song in chap 100' N. of cut-off, 2 on line N.E.N.R. heard frequently thruout S W J R area.
- Vulture 1 flushed from top of large dead val. Oak, near top of N.R., N.W. edge of savannah- Few id.
- Buckeye buds breaking, top of N.R.- few seedling or sapling leaves to 4". - No leaf buds breaking elsewhere on S.W.J.R. or in gullies - Large leaflets seen last Sunday on S.W. coal-mine Ridge high.
- \_ Cryptantha hispidissima (Cleveland's C.) or Microstachys prob former - with several full leaves - common - trail in chap. top of N.R.
- Sambucus leaf buds breaking N.E.N.R.
- Nolan Cr. running 4' to 8' across turbid.
- Bugle Currant leaves  $\frac{1}{2}$ " across. N.Cr. shelf, SW side.
  - Toyon berries still conspicuously holding on thruout.
- Hyla at N. Cr.
- Red-tail Hawk flying w cherry dome towards Searsville.
- Thrashers 2 in song on line N.E.N.R. few heard elsewhere

2/10/63 (cont.)-

- Grass on hillsides to 10" + or throughout.
- Willows in Searsville Swamp entirely leafless -
- Salix lasiandra beginning bloom in swamp some tops Quite yellow as seen from hills above.
- Ducks about 200 on S.L. Ring-necks

Canvas backs Ruddy Lesser Scaups - prob.

- Coots few about lake, and at edge -
  - Bullfrogs several jumped into water, edge of swamp
  - nearest lake-
- Herons 4 on platforms 1 lying in nest visible only from hill above
  - 2 flushed from top of dead oak on line near lower W. corner lower CMF, w of vernal pool.
    - Sparrow hawk from field above heron nests to ½ mile W.
- Flicker trees in " " " " " .
- G.B.Goldfinches chap near oaks above S.L.
- Lupins none noticed or evident plants in field above heron nests.
- Stellar Jays 1 heard mid CMW.
- Song Sparrow 1 " "
  - Amelanchier NENR no leaves yet showing.
- Water- All trails with standing or running water even in chap.
  - Nolan Cr. from N. Cr. Canyon to "Delta" full of shifting bars and channels. Sediments in places to 2', channels in flood about 3' deep. Delta with 200' wide alluvial fan. Water's main course W. downtrail.
  - S.L. full and prob long overflowing.
  - C.M.W. on line "Vernal pool" full in low area along whole W. part.lower C.M.F. 10" silt bar along W. bordering Baccharis.
    - C.M. Cr. at buzzard oak over 150' wide new shifting channels throughout with 24" of silt over 100' from present water courses. Swamp very unstable much tree drowning Off line & ridge 2:30 P.M.

Feb. 17<sup>th</sup> 1963 -

On top of J.R. - to E serp - to Stew Brand's tarantula site and back to Goya Rd. - 12:30 to 3 with Stew Brand, Dick &n Ann Raymond - Weather: - clear at noon - thru sunny, clear, and beautiful.

Yesterday afternoon .2" rain.

- Eriodictyon 100' from Westridge border (Mr. Henry's) advanced into field about 25' from chaparral (sage) border scattered few 12" to 26" since cattle removal.
- Sage thickening into field above site.
- Pedicularis more bloom on way to E. serp.
- \_ Lepidium nitidum much (full) bloom on serp throughout also pods.
- Dodecathion clevelandii patulum bloom on serp few,

but prob 1 week - perhaps more - scattered W of Hodge oak - promising abundance.

- Hyla bright green serp bet dome & hodge oak grass & standing water another later found W.
- Larks normal flock community seen rising & landing
- Blackbirds 2:30 2. E over line over serp
- Pigeons 20 (about) in blue oaks NW of Hodge oak
  - flocks of three bandtails to  $40\ \mathrm{or}\ 50\ \mathrm{seen}$  over
  - J.R. crossing line from W to E
  - Blue oaks leaves opening
- C. cuneatus earliest 1 to bloom now in full bloom 100 yds From Westridge border -
  - Baeria 6 or 8 seen on serp rays much reduced disc convexed
- Doe trotted from dome to N of Hodge oak no cause seen.
  - Calandrinia 1<sup>st</sup> near (N) of Keith Oak a bout 200' bloom

Feb 22<sup>nd</sup>/1963

On J.R. from Mantilla Dr. 12:15 noon - alone -

Waether: - Very clear, warm (over 70° in sun). NW wind - not strong

\_ Cyanog Possum - on either side of trail in oak woodland - foot

of N.R. - five plants with many blooms, all

strong, light red violet. I ten feet away- blue - other plants not yet blooming

- Band-tailed Pigions 9 from CMW upo line over N.R.
- Baby Blue Eyes no trace yet at usual site
- Yarrow many to 4" baby blue eye site near broken oak
- Coon tracks trail by CMW throughout CMW all over N.Cr.
- Wild Cat " " " - So trail " - at N. Cr. -

- " no scats -- Fox
- Ninebark early leaves in autumn drought, following rain wilted or arrested by frost - new leaves coming on - sunny area N. Cr. delta - Early leaves better off under cover.
- Flicker aross CMW. over tree height
- Sp Towhee 50' inside CMW on So trail as usual
- Hutton Vireo 2 in Song in C.M.W.
- Sparrow Hawk from Mistletoe oak to largest Valley oak upper C.M.F.
- Trillium several showing deep red in opening bracts, throughout CMW.
- Leatherwood bloom along So trail -

[CMW on line]

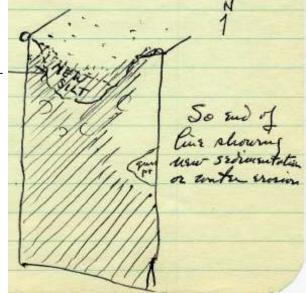
- Laurels only living ones- cluster of 4 near So corner of line.
- C M Cr. not under 10' wide murky. N.Cr. clear

Much deposition this winter with shifting Cr. courses. Silt deposited

to over 18" in places.

Lowest C.M.F. covered with to 6" slush Baccharis border likely killed -----Sedimentation of 1956 slows water to extent that more was deposited since than in that flood.

Earlier willow saplings thinning, larger plants persisting - Coffeeberry sometimes silt invader



Off line 1:15 -

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Feb 24<sup>th</sup> 1963
    To Searsville Pond - 9:15 AM - met S M Co Audubon Group
and went into Searsville with them - around lake to Q dumosa
site, thence to heron rookery area & back to parking - 12:15 noon
    Weather: - clear sunny - 72°
- Cinnamon Teal - 3 on pond - E end -
- Ring-necks - prob 30 on pond
- Coots - " 10 " "
                                        also at S.L.
- Ruddy ducks " 6 " "
- Bufflehead - S.L. prob 4 - mid lake
- Canvasbacks - S.L. ____ " "
- Yellowthroat
- G.C Sparrow
- Br. Towhee -
                      Tules edge in S. hindsiana S end of lake
- B. Wren
- Chickadee
- Herons - 16 flushed from nests.
- Anna hummers - feeding on Indian Warriors - 200´ S ed of
        Q dumosas -
- Fox scats - 3 sets W. part of reserve - all toyon
- Toyon - berries still holding -
- Redtail - immature, soaring over chap-
- B. Wren } songs in chap above heron nests
- Thrasher}
- Waxwings - about 15 - flycatching and pecking (feeding on ?)
new willow carpels- S. lasiandra - So end S.L.
- Sharp-shin hawk - into willows - " " "
```

March 4<sup>th</sup> 1963 -

At Searsville - Proj. M border on Sand Hill Rd. - 9:10 AM alone Weather: - extremely clear - persistant NNE wind.

- S.F. Cr. 8' to 20' across clear. Earlier flood to 6'deep or more.
- Alders some trees with no leaves others with few to 1½"
- Salix lasiolepis leaves to 1½" S.F.Cr.
- Sharp-shinned hawk from W to Searsville Rocks, and to largest fir beyond (flushed later)
  - Flicker -Oaks at S.R
- Vulture 1 over N. J. R.
- Grindelia basal leaves to 5"- W.S.R.
- Amsinkia  $1^{st}$  bloom seen (2 or 3) field W. of S. F. Cr. and N.W. of S.R.
- Toyon losing berries along brush line above S.R. serp berries litter the ground. Berries holding in woodlands.
- Dodecathion hendersonii cruciatum blooming in shade S.R.serp area
- Mission Bells some with full buds prob bloom in week.
- Trilliums some fine blooms most yet to come, prob.
- Sweet pea (round leaved) 3 blooms N.J.R. middle to lower ridge
- Berberis 1 with yellow buds bloom this week.
- Eriophyllum lanatum up 5" above S.F.Cr. near tiger lilies
- Polypodiums up to 8"
- Tiger lilies up 3" to 6"
- Hutton vireo song in l.o. mid N.J.R.
- Angelica to 10" near tiger lilies
- Milk maids abundant in woodland throughout N.J.R.
- Fat Sol Seal shade N.J.R. to 8"
- Maples by S.F.Cr. beginning bloom some quite full.
- Maidenhair ferns about ½ way up to nearly full size
- P. O. some leaflets to 1" in sun by S.F.Cr.
- [Fragaria] saw 3 blooms N.J.R.
- Brodiaea pulchella 1<sup>st</sup> bloom seen 1 sunny grass bank above S.F.Cr. opp. Tiger lily site.

- 3/4/63 (cont.) Jasper Ridge -
- Sanicula crassicaulis about to bloom -= grassy slope opposite tiger lily site -
- Nuthatch heard above site .
   Montia perfoliata 1<sup>st</sup> blooms where we park near S.F. Cr.
- Hazel leaves to 3/4" NE of S.R. across S.F. Cr. Catkins about since Dec. prob.
- Sedge abundant at confluence of S.F. and Bear Creeks -
  - blooming yellow anthered heads terminal, white stigmas below in separate heads- Bracts black.
- Fairy lanterns basal leaves to full size N.J.R.
- Fairy Bells about to bloom violet site by S.F.Cr.

Off J.R. - 11:10 A.M.

March 10, 1963

Ontop of J.R. from Goya Rd. 9:30 AM alone -

Weather: - sunny, clear, N.W. breezes.

- Calif. Thrasher song in p.o. clump 150' inside reserve
- Br. Towhee two " " " " " " G.C Sparrow very few " " " "
- \*\*
- Cedar Waxwings about 10 top of oaks bet top of J.R. grassland and E serp - flew SE. but returned in 2 or 3 minutess.
- Robins 2 with above flew with above, and returned. ["] few notes.
- Indian Warriors about peak of bloom.
- Cal. Jays in woodland N.E. of top of J.R. to line - roughly 1 per 100 yds - each way-
- Juncos 2 on trail edge of woods at E serp.
- Linnets 2-oak-toyon next to E serp.
- Lomatium white & yellow blooms E serp.
- Poppies 3 plants blooming E. to S. border of live oak canopy -live oak in or by serp - 100' N of trail emergence from woodland to E serp -
- Brodiaea pulchella 5 same site as above under edge of live oak canopy - anthesis of oak here
- Live oak in woodland W of E serp some in or approaching anthesis -
- Black oak many "pink" leaves showing -
- Valley oaks some with pale yellow green new leaves

Woodland bet E serp and Keith Oak chap - NE slope - dense to open

- Indian Warriors blooming -
- Dodecatheon hendersonii cruciatum open area blooming
- Tauschia (prob) full bloom
- Quercus durata intermixed here the general assembly of plants is "different" here - as would be shown in complete listing -

## 3/10/63 -

- Dodecatheon clevelandii var. patulum full bloom becoming more widespread in last 3 years on serp outcroppings -
- Larks song E serp -
- Redtails 2 over Portola Valley circling.
- Orthocarpus densiflorus 1<sup>st</sup> bloom 200' W of round encl. only 1 seen
- Lomatium abundant on serp -
- Quad #13 stakes pulled -
- Barria near #14 some 5 petalled some 8 petalled and 2 13 petalled -
- Bromus rigidus first heads seen 3/3 grass heads still not appearing -
- Sparrow hawk top of tumble down oak to dome oak.
- Cal. Woodpecker with above flight, this left tumble down oak to large Val. oak S.W., but followed shortly to limb near sparrow hawk on dome oak.
- Anna hummer perched atop Adenostema about 1000' E of dome another heard E.
- Lepidium nitidum still blooming on serp -
- Fire- Effects of fire of Aug 8<sup>th</sup> on line grass difference hardly distinguishable in aspect tho less on burn.

Off J.R. 10:40

Duplicate - toss

```
March 18<sup>th</sup> 1963
  On top of J.R. from Goya Rd. alone 9:30 AM
Weather: - clear, sunny, NE. breeze -
- Band-tailed Pigeons - 50'up Westridge border and over J.R.
                      towards mountains - flying up 100'
                      - then 17 towards mountains seen about over
                      round end near line.
                      - 3 to 5 live oaks near E serp - 2's & 3's
                      flying about E.J.R.
- Sparrow hawk - 1 in flight to E over E.J.R.
- Dove - heard - canyon E. of round enclosure.
- Bush-tits - flock in l.o. on serp butend #2 & #3
- Titmouse - in song above l.o. - another heard down canyon
             200' N.
- Thrashers - song in p.o. clump 200' inside preserve - several
          - songs heard E.N.E. J R.
- Junco - in l.o. toyon group 100' W. of 2^{nd} encl.
- Waxwings - about 8 in above 1.o. -quiet - later to top
           of base nearby blue oak
           - about 15 in tight flock from over end of Goya
           Rd. towards J.R. - up 100' about.
- Jay - in above toyon - oak -flew up 2^{nd} brush 50' NE.
                                                                  Noon
- Red-tail - "buzzed" repeatedly by sparrow hawk over [home]
- Deer - 3 does - 1 spike (buds of antlers about 3/4" high) on E serp
          2 " - passed to W down canyon by 2nd encl.
          1 doe - 2 yearling fawns - trail to E serp - but opp.
          end of woodland from serp. These N into chaparral.
          In all 9 deer in 100 yd, radius.
- Toyons - berries holding - dark red - over-ripe.
- Linanthus - white and pale violet - about a dozen on E serp.
```

New blooms at base of new growth on stems 1" to 4" bearing pale pubescent leaves to 3/4". Old bloom dry, and not from new terminal stems, but attached immediately below

of 2nd encl. checked in anthesis with Ron (Xmas?). In anthesis anew

- Live oaks - in anthesis - 1 lone oak standing in grassland 200' NW.

March 23, 1963 -

Top of J.R. from Goya Rd. alone - 9:20 AM.

Weather: - clear - steady N. breeze.

Area between Westridge edge of preserve to E. serp.

- V.G.Swallows - 3 high over top of J.R. - Others or same established nest sites in 1.o. close to trail to E.

First this year 3/19 - Sand Hill Rd. over Bear Cr.

- Thrashers 2 E. & W. of trail to E.serp.
- Sp. Towhee 2 E " " " " "
- Band-tailed Pigeons 1 to E. over J.R. E serp-
- Linnets small group in l.o. toward E. serp.
- Titmouse " " " " "
- Juncos few " " " " "
- G.C.Sparrows in live oaks near Westridge border
- W. Flycatcher ? 1st by trail to E serp.
- Quail trail to E serp -
- Lomatium daseycarpum (small grey fuzzy foliage) N. edge E. serp variable spacing to under Q durata pressed.
   Blooms white, turning yellowish in full anthesis then white, the yellow being filaments and anthers corolla white.
- Lomatium sp. Nearby on E. erp. long lobed leaves no bloom



Yellow umbelliferid - under Q durata - full bloom, same as that in Hodge Pool area.

- Anna hummer feeding on Indian-warriors by trail to E. serp. and N. of E serp.
- Brush rabbit } tracks on trail that goes by 2nd enclosure.
- Spotted Skunk } but 100 yds below 2nd encl. & N of E Serp.
- Wren-tit in song by 2nd enclosure.
- Toyon holding fruit throughout.
- Cal Jays 4 bet. Westridge border & E. Serp. few N. of E serp.
- Titmouse in song in 1.o. by 2nd encl.

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3/23/63 (cont.)
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- Dodecatheon clevelandii patulum few, large off serp N. of 2nd encl. appearing quite as at blue oak area N of serp. - N. top J.R. - same parent soil.
- Valley oaks blooming leafing out -
- Lomatium caruifolium N of E serp & on serp. foliage only - few -
- Waxwings N. across lower E serp about 12 in tight flock. 10 min. later, 3 groups totaling over 50 flew to E - 150' N. of 2nd encl.
- Fox scats large all toyon berries and deposited next to old skunk or wildcat scats.
- Baeria forming extensive cover of bloom.
- Layia platyglossum 1st bloom; mid-serp on line.
- Dodecatheon clevelandii patulum five large plants blooming abundantly in N top J.R. blue oaks.
- Red-tail Hawk immature circling N.J.R.
- Band-tailed pigions about 30 to N.W. along NE.J.R.
- N. blue oaks top J.R.
  - Hairy Woodpecker in blue oaks
  - Nuthatch 11 11 11
  - 11 11 11 - 3 to 6 Linnets 11 11 11
  - Junco
- Vulture over N.E.J.R.
- Dove heard earlier, top of J.R. near E serp.
- Flicker flew from ground near 2nd encl.
- Luzula bloom about gone coll. 100 yds N of Keith oak.
- Stipa approaching anthesis, no heads last Mon.
- Callandrinia seems to be always deer grazed no blooms seen - 1 bloom last Monday ----Off J.R. 1:45

- April 14, 1963 Easter -
  - On J.R. E serp 10:30 with John Schultz to upper C.M.F. off J.R. noon. On Cooper Line 12:20 and along top of J.R. to line 12:40 1:40 P.M.
- Weather: intermittent showers downpour 12:20 to 1:40 strong S.W. wind. Collected first for John then back for a few items to be checked.
- Lupinus micranthus collected in grassland 100' SW of buckeyes wilted to point not suitable for Dudley Herbarium.
  - pods to 7 mm. Wide
  - leaflets- sparsely pubescent to glabrous above
  - reflexed part of banner longer than appressed portion?

This is a difficult one to resolve - collect more.

- Thelypodium lasiophyllum (H. & A.) Greene var. inalienum Robins.

  The first and only plant of this seen was near E edge of line
  On serp. by large rock near "road" to about 24" tall.

  Now quite widespread showing frequently within 30'- also
  Scattered on E. serp. collected.
- Baeria chrysostoma on serp. noticeably more abundant on burn of last Aug.8th The cover above road where not burned restricted Baeria. Also noticed this year more heads with more than 8 ray flowers (the normal dominant). The heads this year seen greater in diameter. Altho no measurements or counts of samples were made, these differences are real -- no proof.
- Lupinus nanus (April 15) checked on dome (off serp.)

  The habit of following major disturbance manifested

  By abundance on burn only on top of dome, and

  Down east and other sides where light(?) permitted.

  No L. micranthus on dome as before
- Erodium (mostly botrys) thriving on burn.
- Festuca grayii common along serp creek on serp. side. collected.
- Brodiaea terrestris still spreading on serp in absence of cattle.

- 4/14/63 (cont.) --
- Lupinus nanus X L. densiflorus upper C.M.F. sits in abundant bloom on hip of hill above fenceparticularly 50' up. These L. nanus seem introgressed, but pods must be gathered. Leaflets too broad for nanus and flowers more verticilate. Pods beginning, but already second.
- Cryptantha micromeres bet #4 & #5 in cleared Cooper line
- Bromus rigidus on fill of road sloping into remnant of #3 also more widespread on off serp grasslands on reserve showing red. not tall (to 14" or 16") -
- Festuca dertonensis (prob.) by serp Cr. in decomposed heavy, wet, serp soil. Not in full heads. (check in 2 wks.).
- Quercus douglasii X Q lobata on N.E. dome following douglasii leafing - slightly ahead of nearby Q. lobatas, but not as advanced as some Q douglasii.
- Rosa gymnocarpa (prob.) in Cooper quad #3. Prob. Listed as R. calif.
- Vulture 1 over N.W. end J.R.
- Brewer Blackbird sonf top of oak near round enclosure.
- Red-tail over S.W. J.R. reserve -
- Lower C.M.F. extensively flooded

April 21st, 1963

On top of J.R. 1:10 P.M. to 4:30 - from Goya Rd to serp chaparral W. of Hodge oak - to encl., Holyoak, and Grass Island. Weather: - 24 hr. rainfall .15". Broken overcast - S.W. wind, brief Light shower.

- Flicker low over ground from J.R. across end of Goya Rd.
- Red-tail over N.R. circling
- G.C.Sparrow heard from dome also at home
- Sparrow Hawk top of Hodge Oak made one pass to ground and back.
  - Grasshopper chorus pronounced on serp. also last Sunday.
- Heron (G.B.) seen in distance flying to nest site.
- Dist.- Trifolium fucatum Lindl. Var. virescens (Greene) Jeps.{as given in Munz} only one previous specimen coll day. W. end of serp by "road" near blue oaks. (See Ron's 1961 material). Today frequent in low wet gummy serp near "road" So of Hodge Oak. coll.& pressed.
  - Hesperolinum micranthum (Linum) formerly rare. Now becoming widespread on open serp.
  - Baeria passing peak of bloom
  - Linanthus not at peak bloom yet, it seems, because of recent continuing rains. Not appearing at quad #19 because of tall grass.
  - Trifolium dichotomum more abundant on serp than previously This is tall enough to be cattle-grazed.
  - No Pectocarya penicillata could be found W. of Mimulus gully in chap. as last year (Rare)

- 4/21/63 (cont.)
- Hyla many voices in serp. cr. towards Mimulus gully.
- Trifolium tridentatum. Tomcat clover) for first time seen on serp. Very few near Hodge Oak area and Mimulus gully prob. Disturbance.
- New Euphorbia spathulata Lam. conspicuous 2 dm. Tall about full bloom scattered in grass near edge of Baccharis and p.o. about 100+ feet S. of Holy oak on line. Had this appeared earlier on line, it could not possibly have been overlooked.
  - Lithophragma affinis Woodland Star blooming at Grass Island -
  - Lupinus micranthus 1 plant only found in swale E of #20
  - Festuca reflexa common about #21.
  - Festuca myuros in patches, growing to 16" tall along road and in fields bet.Westridge & line -

April 28th 1963

Top of J.R. from Goya Rd. to line about 11:30 to 1 P.M. D.S.T. with John Schultz.

Weather: - clear, sunny - first break in long wet spell -

Aspect:- All is green Hardly any drying seen by "road". Prob greenest year since 1953

- Quercus all showing new leaf.
- Bromus rigidus showing red in large hillside patches.
- Erodium still showing broad patches, but more restricted than previously.
- Baeria still a bright carpet on burn of last Aug 8th.
- Linum micranthum for first time in patches between #15 & #17 on line becoming common.
- Trifolium barbigerum more widespread in grasslands.
- Bromus rubens edge of chaparral where chap. is nearest to "road" bet. Westridge and line.
- Bromus madritensis with above. Tho each growing in separate clumps for the most part
- Band-tailed pigeons 7 to E.S.E. along top of J.R. from line
- Brodiaea hyacinthine 1st bloom just breaking bet#15 & #17
- Brodiaea coronaria etc. (terrestris) scattered bet #15 & #17 and elsewhere where it hasn't appeared previously. The extention of range noticed last year, and now considerably enlarges either from cattle removal, or this year, from increased rainfall, and better soil moisture condition.
- Gilia sp. Also more widespread on serp (prob. Clivorum)
- Lupinus micranthus scattered not common presumably no L. bicolor bet Westridge & line top of J.R.
- Bromus carinatus by serp cr. S.W. of Hodge Oak.

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May 5th 1963 -
     To Searsville - 11:20 A.M. - 3 P.M. Route - to lupin field,
back by way of Quercus dumosa site. Then to W. of Q. dumosa
in chap. Thence to S.F.Cr. below S.R.
- Weather: - warm, sultry - rising S.W. winds -
- Salix hindsiana - coll pressed - staminate flowers in anthesis, pistilate
                  mostly past - (pressed) - S. end S.L.
- Herons (Swamp rookery) - some sitting on nests - some standing
          no heads of nestlings visible from hillside
Grassland - (great lupin filed opp Heron rookery)
     Aspect - grasslands throughout all green, and unpressidented
            grass heights - no dry spots - no stickers aside
            of few Erodiums
            - Erodiums - crowded in tall grass - plants tall, but
                fewer
            - Trifolium dichotomum - to 10" tall in high grass
                along trail by swamp, in contrast to about
                4" on serp.
            - Astragalus gambellianus - above site to 8"
                quite erect in tall grass - blooms and pods
                perhaps twice size of prostrate (to 3") serp. forms.
            - Festuca myuros - to 18" - abundant.
            - Bromus mollis } dominants "very tall"
            _ "
                    rigidus }
            - Orthocarpus densiflorus - not abundant, but scattered
                    frequently by swamp trail
                                11
            - Ookow - few
            - Brodiaea laxa } common - scattered -
                  " pulchella }
            - Common Grassland plants present, Lotus, Geranium, extra tall
            - Blue-eyed grass - common scattered.
            - Lupinus nanus - " " , narrow-leafed
            - Stachys rigida quecetorum - growing into
                          even dry areas.
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5/5/63 (cont.)
     - Baeria chryptostoma - ssp. W. of Lupin field - fewer this
                year than '61, '62 in same limited patch - coll. Pressed.
                - to 14" - thin stemmed.
     - Blue-eyed grass - 1 white-flowered plant - this more stout
                than most - common blue about.
     - Thysanocarpus curvipes (prob var. curvipes) - to about 18"
                scattered on rock slide SE of parking area S.E. corner
                of S.L.
     - Phacelia imbricate - more abundant top of above slide -
     - Rock slide (above) - with a considerable amount of
                vegetation - for the first time in 2 years (at least)
                - previous to this year - just talus.
     - Pogogyne - common - flat in Baccharis below above slide.
     - Quercus dumosa - with 2 mm pale buds (leaf or flower?)
     - Linanthus pygmaeus }
     - Eriastrum abramsii } dense in qully N.(about 100+') all
     - Anthriscus
                          } together under Cercocarpus canopy - on
     - Montia perfoliata } exposed Franciscan.
     - Monolopia - none seen this year - (see 5/12/63) -
     Down "up" road S.W. of S.R. - serp partially shaded by oak wdld.
         - Plectritis macrocera - abundant above road (coll. pressed)
         - Lomatium caruifolium - common
                                                   **
         - Collinsia franciscana - scattered "
New
               To about 10" full fruit - but blooming -
         - Baby blue-eyes - small, blooming in shade of road-cut
                           oak woodland -
     Serp S.E. of S.R. - Grass tall -
          - Poppies - abundant on lower 1/3 of serp -
           - Other plants much restricted
           - Delphiniums - many in bloom.
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5/5/63 (cont).

- Allium none on serp SE of S.R.
- S.F.Cr.
  - Viola ocellata more abundant N of S.R.
  - Tiger Lilies 3 plants " " " above site.
  - Carex globosa (almost certain) see 4/15/61 as
     ident by Ron only plant then from laurel roots
     25' above Cr. Today's find above large rock
     by S.F. Cr. at Violet site 15' up bank Coll put in fish pond (Whipplea in same sod)
- Whipplea modesta (see above) common & blooming.
- Prunus demissa ? low 24" stems few leaves above site
- SF.Cr. nowhere less than 5' wide running clear.

Aspect. - This late date still showing nothing drying.

The greenest spring in my recollection.

- Hillstars to 2' up side of road by great inlet.
- Brodiaea laxa common along road from swamp to great inlet last year Very scarce this year in contrast
- Festuca megalura by swamp trail -
- Osmorhiza chilensis common about Violet site- bloom & seed.



Swamp full of bird activity - none checked out - Addenda-

- Festuca megalura - common along swamp trail near heron rookery - " myuros - " " " " " " " " "

May 12th 1963

At Searsville Lake to S.E. corner parking area near gate to reserve 11 AM - eventually to serp. S.E. of S. R. - leaving [area] Weather: - sunny thru heavy fracto-stratus clouds. S.W. breezes but mostly still.

- Dove calling repeatedly from willows edge of swamp near car -
- B.H. Grosbeak song above site -
- Robins 2 to top of willow, edge of swamp in 10 seconds flew down into swamp willows
- Herons 1 low to N from rookery 1 higher to rookery from N.
- B. Wren feeding in low willow edge of swamp.
- Baeria site to rock slide within 100 yds of car
  - -+Woodland stars few (coll. & pressed) on talus slope
  - Bromus rubrus usually in clusters but scattered along or near top (not all) of slope (coll & pressed)
  - Thysanocarpus curvipes (prob. var. curvipes) " upper half of steep talus slopes -
  - \* Woodland star on exposed slope borders N. facing. Hill Stars near great inlet N facing roadbank, but in far more mesic circumstances -
  - Baeria c. g.? only 12 blooms seen many last year petals now 5 to 8 mostly 8. Much Geranium and Torillas present also Elymus.
  - Elymus in L. o. shade above site to over 4' very heavy growth. (coll. pressed) -
- Linanthus pygmaeus (coll. pressed) site N, of Q. dumosa plants mostly spreading sev. stems mostly decumbent, spreading: no plants over 3" across, under edge of canopy of Cercocarpus with other plants few over 1 1/2" tall Anthriscus, Montia p., Madia exigua, and Pogogyne.
- White Swallowtail (P.eurymedon) above site on Marah & Cercocarpus not feeding.

- 5/12/63 (cont) -
- Senecio (prob. minimus) in chap. beginning anthesis above site
- Chenopodium calif. Edge of road below Linanthus p. site with inflorescence complete.
- Hieracium albiflorum bloom. Few scattered along road bank in chap.
- Monolopia gracilens at site on end of "road" to above G.C(coll & pressed)

  None found in former locations, but just over edge

  of Canyon at edge of chap but still in grass. Few,

  but all from 12" to 18". Last year's and 25' W to 5".
- By roadside at highest point E. of S.L. where little road to above site joins main dirt road -
  - Festuca megalura quite reddish coll. & pressed
  - Orthocarpus attenuatus only one to full size about 10"
  - Orthocarpus densiflorus 3 only and varying.
- Grindellia large plants large bloom on edge of steep "down" road by S.R.
- Collinsia franciscana only 3 plants found with blooms, and all at last Sunday's (first ever) site up side of "up" road lower edge of serp or within 50' of where lower border of serp crosses this road Not elsewhere

Lowest serp outcropping across field to rocks with rich and abundant growth and in all a striking sight.

May 18th 1963 --

To "cut-off" - upper C.M.F. along chaparral border to N.Cr. - up N. Cr. to N. bend into canyon - to lower C.M.F. - alone  $7:30\ PM$  to 8:20

General aspects: - The grasses are extremely tall by comparison
With previous years, all of which were drought since
Cattle were removed. Small trails overgrown. The main trail up
SW. N.R. now the only trail - no cross trails, excepting game
Trails - now seen more evident.

- Lomatium dasycarpum (prob.) near cut-off with very broad winged fruit.
- Elymus glaucus tall border along chap. upper C.M.F. from cut-off west to buckeyes.
- Brodiaeas field species more abundant and wider ranging than ever, but not reaching height of grasses.
- Lupinus nanus spindly plants only on dry S. facing upper C.M.F. not abundant.
- Grasses growing into and against chap. eliminating
  much of usual border growth Tillea, Psilocarphus etc
   although these may be found with Pogogyne, etc.

HOH Nolan Cr. - water running but going into gravel below N bend.

- growth to twice height forming hedges by trail.
- Bugle current last blooms full green fruit.
- Trilliums virtually absent along lower N.Cr. where abundant 2 years ago.
- Deeer flushed on trail where it bends W. to cross M. Cr.
- Mimulus guttatus var micranthus coll. & pressed by trail at above site just betw. Delta and trail bend to line.
- Senecio aronicoides growing with above coll-not pressed both of above with Montia, woodferns, under oak-buckeyes
- Trifolium ciliolatum to 18" upper upper C.M.F. (coll other material for fresh checking)

May 19th 1963 -

On top of Jasper Ridge from Goya Rd 8:50 AM - to E serp. then "back-way" to encl. on line & return at 11 AM - Thence to
Searsville - Searsville Rocks and violet site by S.F.Cr. 12:30.
- Weather - stratus layer from La Honda summit So, concealing
all of Black Mt. Scattered low overcast rising.
N wind shifting to stronger N.W. winds.

## E. Serp -

Pressed red?]

- Festuca (grayi or pacifica) coll-pressed/This is grayi [mowed? or now
- Agoseris " "
- Stipa pulchra abundant.
- Linanthus saw only 1 on top of E.serp. none to encl.#2.
- Bromus mollis
- Koeleria
- Sitanion
- Lolium



all to 18". Mediterranian grass has successfully invaded the serp this year

- Linum micranthum has become abundant on all serp, increasing since cattle removal.
- Brodiaea hyacinthine common in swale W. of E serp common in low places, and extending to ranges above former limits.

-Gilia clivorum - on ant hill 150' E of encl.#2 with above coll. Festuca, Hosakia, and Astragalus g.

Pressed- Juncus bufonius - by puddle near above site by "road" - <u>pressed</u>
Pressed- Brodiaea terrestris - to about 1' tall - above site - <u>pressed</u>
growing in tall grass - B. mollis, etc.

<sup>-</sup> Toyon berries - all gone - within last 2 weeks.

<sup>-</sup> Fox scats - now all with C. cuneatus (I think) seed.

<sup>-</sup> Sanicula bulbosa - none in lower E. cor. Of encl.

<sup>-</sup> Lupinus bicolor var. microphyllus - 1 by "road" where Franciscan formation is overlain by decomposed serp etc. (pressed in Abrams v. III) - only 1 found

5/19/63 -

- Dudleya cymosa ssp. Cymosa lots of bloom just coming on but full on S.R. coll.
- Pholistoma auritum full purplish-blue flowers climbing over lower north S.R. in grassland under buckeyes.

Pressed- Viola ocellata - 5' above SFCr. N of S.R. coll & pressed " - Collomia - " " " " " " " " " " "

- " Melica geyeri onion grass same site as above.
  - Grasses few about this area coll for live checking.
  - Serp opp. S.R. (nothing new) Castilleja affinis (prob -{the most common}) on serp. Fairy lantern on serp. -

New - Bromus vulgaris - (Hook.) Shear. - under redwoods 100' W of violet site.

- Festuca dertonensis - edge of wood N of S.R. - buckeye area



May 19th 1963 -

Up N.R. to N.Cr. - past bee tree to N Cr. at edge of Stanford land - up fence line & past ["desk'] Aspect - growth in profusion. Trail down N.E. N.R. trimmed. Erosion on this trail about 1' deep in 15 years. Fire trail at Top of N.R. grown over but passable. Firetrail at foot of N.R. completely impenetrable. Trail from N.E. Nolan shelf past Nolan Rock obliterated by grass. Crossing N Cr. south to buckeye grove & valley oaks, entire flat covered with 2' tall Anthriscus - Chap. above so overgrown with Anthriscus and Marah that penetration thru open areas possible only on deer trails. Old trail up Stanford-Westridge fence overgrown with p.o. - now quite impossible. From top of this trail to "savannah" chaparral is closing trail. No trail in "savannah" any longer. - None down S.W.N.R. excepting main trail. - Aquilegia formosa var. truncata (Columbine) - scattered and common to 1/3+ way up from bottom of NE.N.R., but not forming dense patches as previously - coll. pressed - Prunus demissa - full bloom S.W. N.Cr. shelf.

HOH - Nolan Cr. - running across line -

5/19/63 - (cont) -

- Castilleja foliolosa coll & pressed S. cherry dome.
- Dodecatheon hendersonii hendersonii full fruit past bloom S. bank N.Cr.
- Senecio aromicoides 1 at above site (only one) pressed.
- Galium aparine growing to 3' up oak tree above site.
- Grasses coll atop N.R. by fire trail for live chacking.
- Grass on S. cherry dome taller than before. Odd plants found here before may notappear again.



New - Festuca octoflora - pulled with Cryptantha on top of
Nolan Ridge - also Festuca myuros - Madia exigua
1 plant, poor for pressing but easily identifiable
not pressed

May 26th 1963 - - (recollection of 6/17/63 -

Jane and I walked from Skyline down old, impassable, Purissima Rd.

To Purissima Cr. with doggies. Collected ferns (pressed). For Ron.

Clintonia - much bloom - coll. 1 to plant at house -

Lupinus (prob.) latifolius - bloom by road -

Viola ocellata - bloom on road bank higher on hill -

I would have expected reverse positions on above

Ceanothus thyrsiflorus - bloom - upper part of hill.

Horse-tails - common at canyon bottom

Woodwardias - small on road bank by Purissima Cr. growing

to 2' from moss on steep highly crystalline but not dense sandstone - very coarse grains.

Maiden hair - by P. Cr.

5-fingered ferns on steep bank only above road -

Madia madioides - by road -

Aralia - blooming near creek -

Fir - 1-3' d.bh. across road near cr.

June 2nd 1963.

To top of Nolan Ridge - along fire trail to Nolan Cr. thence thru lower C.M.F. and C.M.W -

Weather: - warm, but all still green

- Festuca dertonensis pressed not uncommon along fire trail.
- Pterostegia drymerioides pressed growing along fire trail in shade of Cercocarphus and Prunus.
- Gopher snake

- Quail



buckeye gully to across line in upper C.M.F. reaches ridge forming slight dip. Buckeyes giving way to chap. within 60' of ridge top

Here under chap - dense thallictrum, and in this a quail path up to fire trail. Several Quail-dusting depressions in fire trail-Waiting in Thallictrum loosely twice flexed gopher snake - about 30" from dusting site. was flushed by my appearance.



lay an approx 30" Ιt

6/2/63 - (cont) - Plants pressed - to be noted -

- Symphoricarpos mollis common W. end N.R. in chap.wdld ecotone blooming.
- Seneci o aronicoides coll. along "delta" area -
- Lower C.M.F. aspect.

On level or least slope of tower C.M.F. much water has been standing. Any Baccharis recovery of border eliminated and the grass dominant is tall Lolium multiflorum. Elymus now scant on E. border of little field, and Hordeum brachyanthum sparse where formerly abundant.

- Pressed - several plants now in press. Notes lately included with specimens; field notes neglected -

June 9th 1963 -

To Searsville with Ron - walked from S.R. to line down and back S.F.Cr. trail -  $\,$ 

Weather: - warm - still.

- no field notes all notes in press with specimens -
- Coffee-fern pressed principal reason for trip. This on line below rattlesnake rock. Only site known to us on J.R. for this -
- Unknown 1 plant pressed lower dark blue stem erect leaves claspiong. Grass under l.o. canopy about 30' N of coffee-berry site.
- Lathyrus latifolius (perennial sweet-pea) 1 bloom across cr. from tiger lily site on sunny sandy bank.
- Steller Jay down S.F.Cr. above sites.
- Cruciferid coll by trail under redwoods 40' E of origin of trail to my old shack site. Only 1 plant mostly [tramping] and talking on this trip all is especially lush in the hills this year
- Peromyscus mamiculatus 1 sitting in trail about [800'] downstream from tiger lily site. It permitted close approach, and must have been ill, though it moved into grass-brush about 4' when touched on tail. Provided fine view of this little mouse -
- Carex barbarae S.F. Cr. sandy bank N side S.F.Cr. bet crossing and fence below S.R.

more than last year - but about past bloom - pressed several - N of SE parking area -

- Quecus dumosa - about past bloom - pressed 2. Two horsewomen passed - they had just seen large rattlesnake top of J.R. prob in a moist draw. One reported Q chrysolepis on their place - Family Farm Rd.

- Coll - assorted wildflowers for Jeff.

- Tiger lilies - buds heavier, or stems suffering from water loss.

Buds hanging vertically

- [Iris] - leaved sedge

- Juncus -

- Cyperus -



on] J.R.- Lotus corniculatus - 1 plant collected (pressed) - only plant present spreading stems to 3+ dm.

- Steller Jay violet site -
- Nuthatch heard from S.R.
- Warbling Vireo heard along S.F. Cr.
- Device " " " "
- Blue herons to 8 seen flying from rookery 1 seen returning.

  The lovely flat across S.F. Cr. from S.R. now hidden beneath pile of dirt over 30' deep and perhaps 1000' long. This is generally hidden from sight but is an unsightly and cruel damage.

June 23rd 1963 -

To top of J.R. from Goya Rd. to E serp thence by wandering to line, encl., and to serp. Cr. Met John Thomas near 2nd encl., and we visited throughout tromp.

- Clarkia purpurea becoming more frequent throughout J.R. Very dense patch on N.facing slope E. of trail down E serp. Also more common throughout serp areas, promising the serp. Circumstance that prevails at 2nd encl. where Clarkia is more abundant than surrounding area.
- Lomatium coll. and pressed near #2- (20' W.under 1.o.). most seed now shattered.
- Indian pink along trail W. of 2nd encl. less than last year at which time they were especially abundant. - Also, fewer this year in serp. Near tiger lily site.

July 1st - 1963 -

Coll. and pressed -

- Tiger lily - 1st one to bloom this year - one bud about to bloom on same stem.

July 7th, 1963 -

To Searsville with Ron and Nancy -

Weather: - Sunny - clear

Walked along swamp trail for look into swamp - about 100 yds.

- Violet Green Swallow nest 75' from trail in woodpecker hole in 8" dia willow stump about
  - 15' above ground. Once 2 birds left nest. Return usually at about 3 minute intervals.
- Yellow warbler [in] seen in willows of swamp briefly.
- Rosa spithamea at hill top site above riders' shack many plants no sign og bud or bloom.
- Calif. Thrasher bounded across picnic area 70' to creek bank from S.R. base. Tail held high.

August 18th 1963

ds-

To J.R. from Mantilla Dr. - across lower S.W. N.R. to 100 yds W. of N. Cr. 'delta' - to CMW and Cr. - 6:20 P.M. to 8 P.M. Weather: - clear, warmest part of day

- Nuthatch 1 heard oaks on line upper C.M.F./later 1 in CMW center near Gr. Point
- Br. Towhees 2 from upper CMF yo C.M.W. on line.
- G.B.Goldfinches 3 or 4 prob. High from C.M.W. to N.R.
- V.G. Swallows upper C.M.F. over CMW to N.Cr. "delta" up N. Cr. to N. bend extremely abundant. Prob. Over 100 in sight, but moving very rapidly. Underparts golden in reflection of low light on dry grass. Porb. Many of this years broods. As two might nearly meet in feeding, frequent fluttering combat took place for couple of seconds.
- Sp. Towhee heard and saw one in buckeyes and brush S.E. N. Cr. delta " " CMW 150' from C.M.F.
- Wren-tit 1 " " " " " "
- Robins 1 in split and fallen oak upper CMF At 7:45 PM about 12 seemed preparing to roost in open top of great cottonwood in C.M.W. Also at latter point 2 heard clucking and answering 150' apart along Cr. brush near cottonwood.
- Doves frequent throughout. At 7:45 P.M. sev. Left C M Cr. on line from tree tops, flying toward N.R. where I've suspected roosting However, not all left.
- Blackbirds at sundown in 10's and 30's from Westridge over swamp to S.P.
- Band-tails 2 high over C.M.Cr.on line to N.E.
- Steller Jay 1 near S.E. cor. Of line at C.M.Cr. quiet in 1/o/
- Song Sparrows 2 edge of CMW by vernal pool in willow saplings.
- Hairy Woodpecker 1 high in laurel near CM Cr. on line lightly tapping.
- Chickadees active in CMW. At home 1 on stem held lily leaf with 1 foot to stabilize it, while packing off small insects.
- Purple Finches 4 or 5 feeding on blue elder berries 150' E  $$\operatorname{N.Cr.}$$  delta.
- Deer I was at CMF gate: Heard 100 s. of So. trail entrance a snort. Doe went E, fawn or fawns went W, tho shorter distance. All were noisy. In a couple of minutes, snorting

8/18/63 - cont.

resumes - this time at 5 to 10 second intervals for about 10 times; these less startled. Half hour later, doe and 2 fawns- one (maybe both) spotted were flushed from lower C.M.F.

## Aspects -

- Hillside on line C.M.F. above gully to N. edge of line seared. Formerly this rocky area was covered largely with filaree and low grassland plants. This area now grassy excepting one spot no more than 50' across which may be covered in a year or two.
- Lower C.M.F. vernal pool area and N along brush line still with moist ground. Baccharia all dead, and willows have moved out as much as 30' this year (S. lasiandra to 30"). About 50 Typha latifolia in this area 30" to 60" 2 with full heads. Juncus and Carex sp. Common.
- Stachys bullata only pink one blooming (no. S. rigidus) C.M.W.
- Stachys pycnantha by trail W. of N.Cr. delta where water flow[ed] last spring.
- Mimulus cardinalis by trail N. Cr. delta.
  - Rumex crispus dry lower C.M.F. even tho moisture present.
  - R. fueginus green, full achenes by laurel nearest C.M.Cr.
    near So corner of line to 40" tangled in other
    growth. Inner parianth segments almost fringed.
    There is no R. persicarioides on J. R. almost for certain
     see Mason.
  - R. salicifolius N. Cr. delta by trail willow-like leaves 1 large callous grain.
  - R. conglomerates N.Cr. delta with above 3 large callous grains filling segments. Leaves of infl.
  - R. obtusifolius perianth seg. CMW very weakly toothed (laurel woods)
  - Epilobium californicum few by trail laurel area CMW
- Live oaks dead ones in C.M.W. losing large limbs.
- Laurels -
- Alders
- Cottonwoods

C.M.W. only 2 large ones living - and these in poor shape increasing - C.M.W.

- Castilleja latifolia var, wrightii - near So corner J.R.- C.M.Cr. bank - pressed

Aug 25th 1963 -

To Searsville Lake 11 AM - lake above S.E. point, and largest E inlet to R.spithamea site - and thence to S.F. Cr. to 1000' "downstream" - Returned 1:15. Weather: - hot, clear -

- Searsville Lake in contrast to last year is down only 3 1/2 to 4'. The S.E. corner "point" where oaks grow on grassland is very different from last year, where to wide exposed bank was quite bare, and, "parrot-feather" (Myriophyllum) dominated the water-edge. The above condition, prevailed for the 3 years of drought. Now A 4' high 30' wide bank of Polygonum and a high bank of new Typha angustifolia borders this part of the lake
- Boisduvalia densiflora (Lindl.) Wats. (var. imbricate Green.)?

  (question as to var.) is common on above grassy bank to 5 dm. The imbrication of bracts here is close, like that at vernal pool, but the plant is 3 times taller, and the foliage round"-leaved" quite at variance and very different in appearance. Vernal pool form is narrow -leaved, the leaves more widely separated. More should be collected of both in Sept. The septa in S.L. plants remain attached to placental axis.
- Eleocharis macrostachya at above site style bifid.
- Paspallum distichum at above site, forming tangle with Eleocharis and both to over 2', with much of the veg. prostrate.
- Epilobium adenocaulon var occidentale at above site at upper edge of Eleocharis Paspalum. (See last weeks C.M.W. notes).

  This differs from C.M.W. form as follows: 
  C.M.W. S.L.

flowers paler, pinkish white petals - 3 mm

heads incl. buds to capsules - 5 flowered some racemes to 10-flowered basal leaf petiole, subssessile to 6 mm. some, subsessile to 2 m.m.

flowers- light reddish magenta petals 4 mm. some racemes to 10-flowered

Leaves not separable in view of shade (C.M.W.) and sun (S.L.) - Both with incurved hairs rather dense above, and scattered glands -

- 8/25/63 (cont.) -
  - Epilobium adenocaulon var. occidentale (cont.). See Mason pg 607 (E. californicum). Pubescence variable and not recognized as separating characteristic.
- Brassica campestre by road W. side S.L. 150' So of
  Lupinus formosus site with pods nearly 3" and
  3 mm in dia. Root 1/2" thick far stouter than any
  seen, and collected because of deviation from usual.
- Mimulus cardinalis still blooming S.F.Cr.
- -Rosa spithamea above riders shack on top of hill close to road.

  No bloom and no prospect of bloom this year plants
  common under l.o. but in limited area. Beneath l.o.s.
  are few mostly dead Ceanothus sorediatus, and some
  Adenostoma.
- Doves common thuout overhead or on ground.
- Wren-tit high on S.R., but on shady side towards redwoods.
- Cal Jays common in groups of 3 to 5 NW end of J.R. picnic area and riders shack.
- S.F.Cr. with long pools, and some trickle, but running only thru or under gravel.
- Big inlet of S.L. with little bank below chaparral-.

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Sept. 22nd 1963
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On J.R. from Goya Rd 6 P.M. to Quad #9 to #17 - alone. Weather: - Stratus overcast complete. Earlier light drizzle

with S.W. winds later shifting to N.W. Summit in clouds -

- Wild Pigeons 3 then 5 to S.W. over dome, later 2 to E.
- Horned Owl 1 heard from near round end -

1 " " above #8 in l.o. top of S.E. swale. Few repeated calls - all before actual sunset.

- Blackbirds 7 over swale towards Searsville
- Green grass 1 1/2" to 3" about 30 blades in all in N. or burned 1/4 of quad #11, top of dome.
- Elymus glauca on dome burn in shade (E. to N.) some green at bases.
- Stipa p. noticeably increasing extent and density
- Small animal trails to 6" across conspicuous in grass on all sides of domes. In tall grass mid W. side of dome the trail was covered above with tall grass skunk?
  - Jack rabbit scats on above trails
  - Skunk (prob.) by above on gopher mound by trail.
  - Weasel likely user of trails
- Quail 20 from ground to val. Oak limb 4' above mid NE dome.

  Later as I went to #12, 7 flushed and flew to grass-p.o.

  W. end of dome- (2 of these flew E to grass.
- Deer grass rolled on top of dome, and in #11.
- Cal Jay 1 W side of dome in oak.
- Cal Woodpecker to N.E. along S.E. edge of line across serp.
- Hemizonia On serp, plants are more slender than previously because of increased grass cover also prob. more numerous. Slender plants to over 1' sometimes crowded to 1" apart.
- [Calycadenia] past bloom, but extended to bet #16 and #17 (spreading?)
- Avena growing to 4' against Adenostoma at borders Keith oak area.
- Sp. Towhee 2 in Adenostoma closest to "road" and about 100' apart.

Off J.R. 7:30 -

Sept 29th 1963

On top of J.R. from Goya Rd. - 10:30 AM - alone Weather: - cloudless - warm (low 80's)

- Flicker heard in oaks at Westridge border
- Cal. Woodpecker 2 in oaks near round encl. occasionally flying to oaks N.E.
- Mockingbirds 2 in p.o. N. of round encl. One flew from E. to blue oaks on line by serp. Three minutes later it flew back E to l.o.s E of line. Other flew from E shortly behinf 1st one to oaks near encl. on line.
- Fox scats fresh edge of serp on trail to S.F.Cr. 1st seen with what must be acorn tests (still uncertain) which made up most of scats.
  - old scats on trail to S.F. Cr. E of encl. All that remained was 6 seeds of Prunus ilicifolia on bare ground.
- Cal Jays 2 in quad oaks. Earlier 1 heard near round encl.
- Lactuca serriola 1 clump scattered in 15' dia. Area, growing to 40" tall to seed. In gopher diggings on serp bet. Round encl. and "road" (close to road)
- Bromus mollis Now commonly to over 20" on hillsides dry.

  Forming extensive stands which appear to have been rolled. This collapse from weather? It is too extensive to be rolled by animals. Avena, Melica, & Stipa not affected so.
- Perideridia Kelloggii slope between serp and trail to S.F. Cr. Common from E of encl. on line, below encl. and W along whole slope.
- Cordylanthus scarce to absent under oaks E. and S.E. of encl. and into quad oaks in contrast to 2 or 3 years ago.
- Screech owl dry, torn apart remnants in grass 20' W of #19.
- Nuthatch in oaks bet. #19 & #20.
- Sp. Towhee near #20
- Vultures 2 from S.W. to N.E. over line low.
- Junco 1 heard in quad oaks.

## 9/29/63 (cont.) -

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- Aster radulinus 1 bloomed 20' N.W. of #20. Plant 18"
  with 26 heads. 1st record of bloom in quad oaks
  (I think), tho appearing as low plants to 8" in N part
  of #20 for 10 years.
- Redtail Hawks 1 mature 1 immature circled Holy oak low then to E. and higher. 1 screamed once.
- Rodent holes in grass in quad oaks to about 1 1/2" in dia. and into ground, but no mounds.
- Grass scattered green blades to 6" tall showing occasionally in quad oaks, appearing most commonly in #20, and about 30' W. of #20.

Offline - 12:30

Oct 6th 1963 -

Searsville - 3:30 P.M. alone - to Rosa spithamea site and return at 5 P.M. Weather: high thin overcast - N.W. breeze

- Edge of Lake at fence 100 yds W. of bridge 200 yds from entrance
  - Azolla out 3' from bank
  - Polygonum to 30" tall from edge of water to up and over top of bank.
  - Artemisia douglasii ] scattered along above edge
  - Epilobium
  - Baccharis douglasii ] next to above 20' wide
  - Epilobium
  - (Variations in above being Polygonum to roadside
  - Live oak seedlings in Baccharis douglasii area.
  - Baccharis douglasii dense dominant under live oak

100' from W area of lake

- Coots only birds on all of lake few.
- Fox scat 100' from road on S.E. part of lake (towards Q. dumosa site. Eight or ten seeds of Prunus ilicifolia some partially to nearly all covered with skins. Detached wild cherry skins are rolled and quite like what appears to be acorn tests in other scats but not the same, I think. Prunus skin remains blackish.
- Prunus ilicifolia heavy crop of wild cherries now red to black.
- Buckeyes leafless up serp canyon 1500' from lake. Few buckeyes many trees with none.
- Xanthium strumonium many as before in great inlet
- Xanthium spinosum 1 only in inlet on sandy base of bank (1st record for us for J.R.?)

October 13th 1963

To J.R., end of Mantilla Dr., 11:40 A.M. after visit to remnants of Cooper #s 3,4 & 5.

Weather: - Clear, sunny, still. Rain (.12" of 10/9/63) cooled ground. Heavy dew. Temp last night 42° Autumn is here.

Edge of J.R. reserve, foot of N.R.

Nuthatches - 3 in 50' area. 1 twice flew to ground - end of Mantilla Dr. Cal Jays 5 in 100' Spruce - noisy.

B. Wren - 3 in 50' area -

Br. Towhees - 2 along fence

Fox Squirrel - 1 in l.o.

- Chap. Current - grows in disturbed chap. Areas -

- Quail Small covey inside fence near field heard, lower C.M.F.
- Flicker 1 in l.o. bet. fence and field lower C.M.F.
  - 1 in l.o. opp. Grass pt. flew in then out.
- Calif. Woodpeckers heard 2 in upper C.M.F. oaks- also 1 in mid C.M.W.
  - Live Oak sapling to 4' drowned in extended willow-cattail area N. of vernal pool. (Willows to 18")
  - Baccharis none here in range of cattails from old N. trail entrance to N. corner oak.
  - North trail entrance now impassible -
  - Deer heavily using lower C.M.F.
  - Western Tanager im. ♂ up 20' in l.o. (much l.o. cover) 50'

    So. of baneberry site towards grass pt. Fine view of bird

     it flew W.
- Sapsucker im. In live oak up 15' near above (saw both in grass at one time) Had heard light tapping.
  - also heard near C.M.Cr. in cottonwoods.
- Cal Jays nuisance. Prob. 7 in line C.M.W. 1 with acorn quiet.
- Steller Jays 2 near C.M.Cr. one came to within 10' of me with acorn in bill.
- Chickadees 4 near Grass pt. occasionally hanging in lichen.

10/13/63 (cont.) -

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- Fox Squirrel Black phase bet. baneberry site & Grass Pt. in l.o.
- Fox Sparrow in p.o. up 6' opposite fox oak.
- Willow Goldfinch 1 in willows at Laurel wood edge. So. trail up 10'.
- Wren tit 1 heard mid C.M.W.
- Chipmunk 1 heard near Fox oak -
- C.M. Cr. running 2' to 3' wide --

October 27th 1963

Top of Jasper Ridge alone 9:30 AM - from Goya Rd.

Weather: - clear, cloudless, excepting cirrus clouds S.

N.W. breeze.

- Larks 1 on round encl. post
  - 1 near #16 on serp.
  - heard at 500' to 1000' intervals on J.R. grasslands.
- Cal Jays 1 in quad oaks
  - 2 on line at S.F.Cr.
  - scattered throughout, giving appearance of greater than usual abundance. Some with acorns.

Aspect Serp - some patches to 3 or 4 yds across with no green.

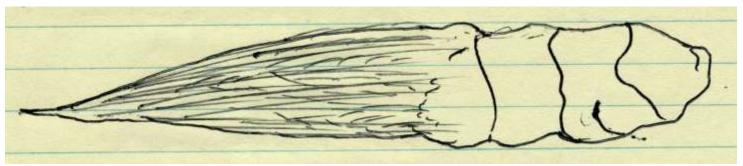
- Robins 1 heard, later flying N. from close to #21
  - about 10 qt S.F. Cr. redwoods and creekside trees, much high tree flyinf about.
- P.O. Baccharis area 125' S. of Holy oak.
  - 8+ G.C.Sparrows
  - 9 G.B. Goldfinches
  - 1 Sp Towhee
  - 1 Br. Towhee
- Solidago californica (Goldenrod) more widespread than ever at grass island - to seed. - falling
- Goldback Ferns green, slightly curled, more widespread? Holyoak to relict.
- Relict-
  - Top of Rock above [Freddies] nest.
- Fox scat old large 3/4" dia looked like wildcat scat, but had prune seed, and grasshopper parts only, excepting for large mass of very fine, linty hairy stuff - gray. This burned and smelled like hair, but didn't look mammal-like. It

any - full felt was felt-like. Mid-part untwisted except for grasshopper legs. Scat terminated in over 50 heads of dry Gastridium ventricosum all layed parallel,

ew seeds) - lower portion of heads towards pointed end. (See over).

10/27/63 (cont)

- Fox scat at relict (cont) - ( 2 masll ones not sketched)



- Buzzard "Freddie's" nest not used this year (Freddie last year)
- Black oaks showing little yellowing at Holy Oak and redwoods below
- Maidenhair fern dry and brown from grass island to S.F.Cr.
- Polypodiums to 9" on E redwood rocks Response to rain is similar to grasses.
- Yerba Buena new full leaves in response to rains.
- spect S.F.Cr. running well as a clear brook 5" and 3" over "falls".

  few leaves fallen. (Running since recent rains.)
  - Beach 100' belof falls cut by small rivulet last year. Now running 18" to 30" wide 18' long 2" deep. Growing in this shallow running water is: -
    - Sonchus asper sev to 9"
    - Apiastrum angustifolium 1 to 14"
    - Gnaphalium palustre 1 18" few small ones
    - Geranium dissectum 10 5" to 9" (full 1" leaves)
    - Epilobium californicum (see Mason)  $\frac{20 \text{ new rosettes}}{1 \text{ new plant to 9"}}$
    - Picris echioides (Ox tongue) 2 rosettes 6" leaves
    - Nasturtium officinale 1 to 2"
    - 1 foot from above water-edge
      - Poa annua full bloom 6" tall
      - Stellaria media to 8" large leaved
      - Lythrum hyssopifolia 2 new plant to 4"
      - -Polypogon interruptus 2 or 3 with full heads to 8".
      - Navarretia squarrosa to 8" full bloom long gone elsewhere

- 10/27/63 (cont) -
- S.F.Cr. on line (cont) -
- Xanthium strumarium few scattered alonf creek bank not previously noted
- Clematis ligusticifolia to 8' treailing over rocks N. border of creek close to water E edge of line (Full leaf).
- Sedges in and along S.F.Cr. heavily grazed by deer
- New grass ungrazed along creek.
- Band-tailed Pigeons 3 or 4 in laurels across S.F.Cr. from E edge of line. Later 20 over top of J.R. to So.
- Juncos few about S.F.Cr. not more than 3 or 4 seen.

  These winter visitors seem fewer.
- Flicker 1 in Alders S.F.Cr.
- Sapsucker heard near S.F.Cr.
- Kingfisher dived for fish 50' below falls, then perched
  - 6' above water on Alder limb for a minute  $\pm$
  - then low 4' to 8' upstream out of sight (dandy view)
- Agrostris exarata -new growth along S.F.Cr. to 10"
- Laurels full green fruit many ripe and falling.
- \_ Amaranthus graecizans L. very few on sandy bank TO 16" -
- Chenopodium ambrosioides few 1 to 20". Full seed & bloom
- Equisetum arvense close to water on gravilly flats

  This distinguished from E. palustre by having solid branches Hollow in E. palustre.
- New Paspalum dilatum coll -1 to 20" N.E. sand bank S.F.Cr. on line. Erect- heads with long silky hairs.
  - Quail 2 flushed N E bank- 90' below falls.
  - Chickadee hanging on large cluster of honeysuckle berries feeding on insects 4' above trail, just above redwoods.
  - Hyla heard by big rock 30' above falls 1 farther upstream.
  - Madrone berries big crop- ripe and falling
  - Blackbirds 25 SW over top of J.R.

Off line 1:35

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Nov 3rd 1963 - No trip
November 10th 1963 -
     On J.R. Biol. Res. 10:45 AM - end of Mantilla Dr.
Weather: - Clear - sunny.
- Earlier went to S.P. -
     - Polygonum - much more widespread than ever before -
                mostly dry, but with frequent stems bearing green leaves.
     - Typha & Tules - much more dense on roadside than previously
     - Pond - full, but hardly visible from road.
     - Injured Coot with broken wing - put into water - Swam to
                dense tules - with ease.
     - Ring-necked ducks - three rose from pond to S.L.
- Audubon warblers - saw "several" - all edges of fields
- Chickadees - feeding about p.o. berries - mid C.M.W.
- G.B. Goldfinches - heard in C.M.W.
- Blooming -
     Pimpernel
     Erigeron Canadensis
     Tomentilla
     Amaranthus or Chenopodiium ambrosioides
     Brassica nigra - (since August) -
     Helenium
- Cal Jays - 10 to12 - bet Mantilla Dr. & S.L.
- Wren-tits - 4 in p.o. within 4' area - 150' W/ of Nolan Cr. Delta.
- Tarweed - still blooming - also new ones by trail near Great Lupine field to 5/8"
           in moist soil.
- Fox scat- fresh - 150' from Searsville boundary on swamp trail
           containing nothing but grasshopper parts. And about
```

20 undigested eggs - oval, white, translucent to 2.5 mm.

Off J.R. 12:30 noon

- Ring-necked Deucks - about 8 -S. 1/4 of S.L. not seen elsewhere.

- Grass - to over lawn height throughout, but hidden by tall dead grass.

- Cal. Gull - 1 on mid Searsville Lake.

Dec. 1st 1963

On J.R. from Goya Rd alone - 11:10 AM

Weather: - clear, still, hazy.

- Fox Sparrow 1 in chap. above trail near edge of Westridge
- Quail heard from chap. (brush) bet. top of J.R. & E. serp.
- Br. Towhees 6 to blue oaks, cor. of "road" and trail to E serp - later into nearby C. cuneatus
- Gopher much activity on open slope beginning 30' S. of Keith oak
- G.C. Sparow 1 call heard S. of Keith oak about 200 yds. few seen. Seem to be fewer this year than previously

- Jack rabbit tracks in dew on grass W. of Keith oak
- Deer 1 doe, 2 nearby full grown fawns -flushed 200' N of Keith Oak
- Larks (saw 10 min. previous from S. to 200" E. of old corral) - Flushed 63 from above spot - not all at once: 51-7-3. All but 2(1st flight) to 50' W. of corral. The 2 to nearest live oak top - but joined flock within the minute.
- Cal Woodpecker 1 top of tumble-down oak
- Quads- Quad #15 3 Stipa, 1 Sitanion. grass and dicots to lass than 1" mostly.
  - Quad #16 About 16 clumps of Stipa; 1 Sitanion. Green to 2" here - much dry grass standing - mostly B. mollis.
  - Quad #17 8 to 10 clumps of Stipa prob. Much dry stuff standing to over 18" in lower (N) part of quad. 2 Sitanion in quad easily spotted by dry awns.

Aspect.Sitanion Stipa p.



Strongly evident in clumps, but in many places difficult to isolate for counting because of B. mollis, and even clumping Melica California. Off serp, dry Lolium to over 24" complicates matters.

- Tarweed few still blooming reddish under corollas noticeable.
  - New plants throughout leaves 1/4" to 3/4".
- Soap Plant leaves 2" to 4" on serp but only within limits of Calycadenia on line and 100' W.
- Robins 6 from N. to S. high over line. Only ones seen.

### 12/1/63 (cont.) -

- Bromus mollis scant in limits of Calycadenia abundant elsewhere on serp on line above "road" (12" 18" tall)
- Blue oaks rusty throughout but duller in color than black oaks 2-3 wks ago.
- Black oaks still with leaves, tho leaves mostly gone.
- Red-tailed Hawk E to W over Holy Oak
- Poppies on serp at #14 leaves to 4" also found off serp.
- Buttercups leaves mostly 2"- 3".
- Sun Cups leaves 1" 3" edge of burn, by "road"
- Burn-Burn of Aug 1961 evident to So by greater amount of dry Stipa and Lolium standing off burn
  - its also tall off burn.
  - Nuthatch 1 heard in quad oaks.
  - Rodents (mice) Excepting quads #14-#15 area where veg is very sparse, runs are everywhere on serp as well as off. Some of these may be gopher runs above ground.
  - Cal Jays 3 heard bet Westridge and W of line few as compared with month ago.

Off J.R. 12:55

- Vicia (narrow-leaved) on dome in usual spot above #12

#### Note: -

[November] 24th no trip - 13th anniversary - a sad one because of Kennedy's murder. November 17th - trip to Searsville no notes - about 8 or 10 ring-necked ducks and half dozen coots on S.L.

Trip to E serp - thence to line - top of J.R. -/ Clarkia to 1" / Tarweed on E serp. showing much red / Eriogonum vimineum many blooms - E. serp. / Juncos- many SW edge E serp in live oaks / Jays - frequent / Wild Pigeons - sev. flights of 10s to 30s towards mountains - some 60+ in all.

Dec 26th 1963.

On top of J.R. - Goya Rd. to line with Ron - Cool dusk - Horned Owls - 2 in large val. Oak at round encl. One flushed to oak 500' N - second flushed as I approached - some 15 seconds later - another heard S.S.W. from oak across serp.

Dec. 27th 1963 -

On top of J.R. with Ron - 10 AM

Weather:- airo-stratus clouds over mts - otherwise clear - still

- Blubirds 8 to 12 opp. Keith oak in oaks
- Linnet flock top J.R. not seen as much, or not as noticeable as in grazing days.
- Red-tail Hawk 1 circling over ridge, prob 1 of 2 seen later over Holy Oak & W. 1 screamed to S.W. not high across serp.
- Larks 62 from serp 100 yds S.E. of Hodge oak to dome
   chatter Earlier notes near Keith oak round encl
   and dome -
- Towhees 8 [Hodge] oak near W. end of serp C. cuneatus
- Hutton Vireos 2 in b.o.s. near above -
- Cal Jays 4 bet serp & Searsville fence heard 1 seen with acorn -
- Shrike in p.o. clump N. cor of serp -



On this day we collected soil with Clarkia by 3rd Enclosure From E. boundary of J.R. This a first sample for Ron's PHD dissertation.

Jan 5th 1964

Top of J.R. from Goya Rd alone

- Thrasher 1 on trail 100' from Goya Rd
- Titmouse 2 up 15' in l.o. " " "
- J.R. foot of S.E.N.R. 11 AM

Weather: - remarkably clear - cloudless - warm. Rising N.W. breeze

Some frost in constant shade. Ice in So trail entrance C.M.W.

- Fox squirrel 1 50' N.W. of end of Mantilla Dr. to tall val oak stumpoutside of reserve.
  - ..- 1 in dense l.o. foliage S.E. of buzzard oak barked (scolded).
     In response, another made its way from l.o. at grass point
     Thru l.o's and coffeeberry to join the first at least 150'
     away. This in about 2 minutes necessarily devious. After
     both being in a thicket area of limbs, one left almost at
     once. All was quiet. I approached site from grass pt.
     by trail, and intercepted the one that had left and was
     returning to "thicket" but it eluded me. Neither could be
     seen Nest? Thick growth on ends of limbs caused
     by limbs having been broken by fall of great val. Oak about
     13 years ago.
- Fox squirrels 5 on one 50' Salix lasiandra in swamp about 100 yds from lake Much milling about, but little confrlict.
- Wren-tit 2 near gate at S.E. bottom of N.R. in l.o.
  - 5 bet outer and mid CMW on line in brush up to 15'
  - 4 or 5 from mid CMW to CMCr low in p.o.
  - 1 heard in swamp-
- Downy Woodpecker 1 pecking on 1 1/2" dia. p.o.stek up 15' S.E. base of N.R. -
- Flicker high in l.o. near grass pt. later high on p.o., 150' S.
- Hutton Vireo in " " " also in swamp frequent.
- Thrasher in coffeeberry on ground 100' E buzzard oak.
- Fox Sparrow near Fox oak on p.o.
- Quail covey So of grass pt. area.

#### 1/5/64

- Sp. Towhee 1 in p.o. So foot N.R.
  - 4 in outer to mid C.M.W.
  - 3 bet S. grass pt and laurels.
  - 1 dead (feathers fresh last wk) So trail entrance C.M.W.
- Brassica niger bloom and siliques near CM Cr. by trail
- HOH CMCr. running well despite 5 week drought.
  - Cal Jays about 6 bet foot S.E.N.R. & mid C.M.W.
    - 5 mid CMW & C.M.Cr. possibly some of the same actors Little acorn carrying this year?
  - Titmouse 2 in l.o. mid CMW
    - 2 in CMW N of grass pt. feeding in lichen up 20'
  - Bush-tits flock in l.o. near "laurels" along So trail CMW
  - Steller Jays 2 at least mid CMW in oak top & at CM Cr broad overlap with Cal Jays.
  - Her. Thrush 1 near great fallen oak in p.o.
  - Chipmunk on oak stump near fox oak CMW sunning and climbing in p.o.
  - Chlorogalums to 6" throughout much in Baccharis-grass,
    Buckeye-grass
  - Coots only 3 on S.L. nothing else
  - Nuthatches 2 on willows in swamp -
  - Aud Warbler in tall willows of swamp flycatching at times
  - Juncos bet line and N. Cr. delta about 12 from ground to tree line.
  - Sapsucker Willow below great Lupin field.
  - Pitcher Sage new leaves to 1"
  - Javs
  - Wren-tits
  - Sp. Towhees



from regional abundances, dispersal hasn't taken place.

Off J.R. 2 P.M.

- Wild Cat scat on trail near Searsville -hair 1 bone (part of scapula) -
- Fox scats 1 mid CMW-So trail 2 on trail to Searsville.

Jan 13th 1964.

On J.R. alone - S.W. foot of N.R. - 9:20 AM Weather: - high thin but complete overcast 35° at home - Gray day - 45° at home at 11:45 AM

- Sharp-shinned Hawk from Ernie Ford's field to top of l.o. by "laurels" on line neart CM Cr.
- G.C. Sparrows about 12, end of Mantilla Dr. in grass flying low over and into blackberries, and thru coffee-berries. Never all flying at once as they would have had they been flushed.
- Sp. Towhees about 6 bet. Westridge fence and field below cut-off. Common & almost abundant in brush of S.W.V.R. area. Heard throughout seen frequently.
- Br. Towhees in brush and woodlands edges of grass common.

  Five lower edge CMF below cut-off.
- Cal Jays Common throughout roughly 1 met with every 100 yds. 1 near Searsville with acorn.
- Juncos 14 at Baby-blue Eye site at fallen oak, upper CMF. in grass and about brush.
- B. Wren 2 in brush near "delta" noisy. Courtship> aggressor tail spreading
- Thrasher 1 up in blue elder 12' alarm notes. Nolan Cr. bend 1 in chap. above So. corner S.L.
- Purple Finch 1 fine  $\ensuremath{\sigma}$  low in p.o. and dense shrub to up 12' in C. cuneatus
  - 3 in tangle at baneberry site So trail in CMW 2 of these ♂ color seemed strong in gray light.
- Bluebirds open hillside about 800' NW of N. bend of N. Cr. 3 bluebirds in mistletoe in single small blue oak feeding alternately sometimes 2 together briefly. Much perching and facing thin sunlight. Shortly joined by 3 more from nearby small b.o. Suddenly 8
- Waxwings appeared up 30' quickly dropping into small b.o.
  4' from mistletoe. Attempts to feed were thwarted by bluebirds.
  This was a one to one encounter with no contact made. Never
  Did more than 2 waxwings try at once for mistletoe berries.

- 1/13/64 cont.
- Bluebirds Wazwings Nuthatches (cont.) -

There were no strenuous forays here, but bluebirds met every Waxwing approach. Notes were heard from both sides. After 3 minutes of no success, the waxwings flew off in a rather erratic but together flight - to high (perhaps 200+') over distant Nolan Ridge.

- G.B. Goldfinch hillside song E of S. corner of S.L. about 8 in [Tocolate] still standing dry.
  - about 8 or 10 in grass corner below "cut-off" mostly on Tocolate.

Searsville Lake - S.E. corner

- Canvasbacks 10 not together 1 diving several times
- Black-headed ducks 40 scattered in small groups These flew later in 6's and 10's to W beyond "bridge".
- Coots 8 scattered
- Pied-billed grebe 2 seen near SE corner with ducks.
- [Cal] Woodpecker from hill above lake to oak near swamp and to willows near S.L.
- Titmouse 1 fence and oak near So. cor. of lake on hillside.
- Hairy Woodpecker 1 seen from [swamp] trail into willows of swamp (Downy?) near "lupin field".
- Red-tailed hawk Immature (banded tail) perched high in oak above lupin field after circling field N of heron rookery.
- Steller Jay screamed in swamp shortly after above.
- Chipmunk S.E. of S. trail in C.M.W. 1 in p.o.

Off J.R. 11:40 - birds had quieted down

Jan 20th 1964 -

On top of J.R. from Goya Rd. - alone - 9:05 AM Weather: - Rainbow from S.F. Cr. to N. Cr. Intermittent rains with growing, rising So wind. Rain - 24 hrs. - .42" - temp now  $50^{\circ}$ 

- Br. Towhee J.R. fence post chirps by chaparral.
- Red-tail flushed to rising circles 150 yds N of E serp then flew low to West.
- Buckeye 2' seedling with open leaves to 1 1/2" 200 yds N of E. serp. Nuts with hypocotyls in ground throughout.
- Cattle 3 flushed in above area from beneath [Cays] l.o.
- Snowberry

some leaves full size - by old "road" in canyon - Blue Witch N side J.R.

- Canyon - E part of reserve, N.J.R. Live oak canopy high much toyon & p.o. beneath. Honeysuckle rampant.



- Sp. Towhee 1 on and in brush -
- Wren-tit 1 seen quiet in brush
- Cal Jay 1 came into the area and left.
- N. Vireo 1 seen in live oaks
- Chickadees 6 or 8 in area
- Hairy Woodpecker on l.o. quiet.
- Kinglet high in 1/o/
- Nuthatch lower in l.o.'s -
- Siskins prob. flock high in canopy of live oaks/ It was at first thot that these were Pygmy nuthatches because of behavior. No light napes detected - but still a strong possibility.
- Edge of Baccharis on J.R. above Webb Rancj
  - Quail covey heard far bank in brush
  - G.C. Sparrows prob. over 100 along long edge of brush
  - Br. Towhees 6 with above
  - Cal Jay with above -
  - Flicker from ground towards Cr. near above brush line

- 1/20/64 (cont.) -
- Steller Jay redwoods near S.F. Cr. 100 yds below line
- S F Cr. turbid 10' across at "falls" to 20' noisy.
- Fox Squirrel on ground on trail S. of N. bend of S.F. Cr.
- Thrasher sang in p.o. near N bend of S F Cr.
- Tarychas scattered along NENR more frequent and no apparent pattern
- Sharp-shinned Hawk (prob) to SW. from N. bend field
- Nuthatch above my old shack site.
- Rodents top N.E.J.R. to S.F. Cr. abundant wherever grassland appears runs and burrow everywhere.
- Meadow Larks 2 at Hodge Oak on fence in song prob. est. territorial boundaries.
  - 1 heard from oaks on dome
  - -1 " " tumble-down oak. This one flew to ground near #16.
- Juncos few in blue oaks at W end of serp -
- Vulture 1 to E low over J.R.

Strong wind grounded most birds - excepting in Protected areas.

Proj. M disturbance now considerable across Cr from J.R. Tremendous amounts of earth moved -

Off J.R. [11:40] AM.

Feb 2nd 1964

At Searsville Pond 8:25 AM - J.R. from Mantilla Dr. alone 9:30 AM Weather: - 5th day of false spring. Clear, sunny, (40° min.) slightly rising N.W. breeze - Patch of Acacias in bloom above S.P.

- Coots about 20 on pond
- Ring-neck Ducks about 35+ on pond mostly towards W. part.
- Canvas-backs 3 (maybe 4) on SW part of pond.
- Cinnamon teal 1 pair crossed pond to N outlet then back - and flew 150' to So. side. The pair stayed together rather closely, the male in front.

So. corner N.R. - up trail along border fence.

- Trail overgrown thru disuse. Game trails forming a net above in grassland - blue oak greq.
- Sp. Towhee
- B. Wren
- Thrasher



heard - so bottom N.R.

- Cal Jays 3 in blue oaks S.N.R. 1 with acorn
- Juncos 8 in b.o's top of N.R.
- Hutton Vireo 1 in b.o. [in] incessant cha-wee-(territorial song?)
- Titmouse frequent notes in bl. Oak top of N.R.
- Buckeyes at "[desk]" -1 leaflet to 2" -
  - only 1 limb with breaking buds. SE facing.
- Grossularia to almost full leaf throughout.
- almost full leaf top N.R. & W facing end of N.R. some quite leafless
- Blue Witch
- Sanicula crassicaulis full leaf basal rosette only
- Quail mid S.N.R. 7 heard 1 seen quietly walking in Adenostoma - top of N.R., w. of trail
- Robins 4to N over N.R. and over Searsville Lake
  - 2 in oak later lower C.M.F. border
- HOH N.Cr. & CM Cr. running well clear -

Cooper quad #9 - NW 1/4 - in places 20 Aster radulinus per sq. ft.

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Feb 9th, 1964 -
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To Searsville Pond 9:45 alone - thence to Mantilla Dr., CMW. N. Cr. - then to hilltop above herons nest.

S.P. - 7 ring-necks

2 - muddy ducks

8- + coots -

Weather: - cloudless, occasional N.st[ ] - sunny, beautiful day.

- Sp. Towhees 5 to 6 bet. end of Mantilla Dr. & line.
- Br. Towhees 2 to brush by So. trail entrance, common at brush lines today
- Cal Jays 4, W of line at edge of C.M.W. 3 or 4 on line in C.M.W.
- \_ Siskins 6 from small deciduous oak by So. trail entrance to high then to oak at edge of CMW West.
- Trilliums unrolling to 8" tall 30 ' into CMW from baneberry site, by trail. Same few at N.Cr. delta.
- Quail few in grass pt.
- Wren-tits 2 near fox oak
- Juncos heard mid CMW
- Redtail circling from hill opp. heron rookery.
- Herons horseman told me some were about his house (near Schulte's) this morning. None at rookery. About 20 platforms in leafless cottonwoods
- Grossularia calif on hilltops of SW JR, this is scattered between grass (with oaks) and chaparral shady chap border
- Chenopodium calif not common usually in some shade often oak and near chap. border. Here atop hill under l.os. in line projected W by N.Cr. (basal leaves only)
- Hounds Tongue leaves to 8" first seen Off J.R. 11:25

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Feb 16th 1964 -
        On top of J.R. with Ron about 11 AM after visit to S.P.
    Weather: - beautiful and clear -
        To E serp - to 3rd encl. site to check Clarkia site - Thence
    to line on serp and to Hodge Spring.
        Dodecatheon patulum - 1st few near round encl. - more
                    W. of Hodge oak -
    - Br. Towhees - about 8 near (N) of Hodge Spring -
                  - to 3'
all stump sprouting -
                                         Ron took 1 photo of p.o.
Fire- P.O.
                 5 - to 5'
    - Blue Elder
                    clump showing succession on bare ground -
               Sanicula crassicaulis - few
               Baccharis p. - scant - scattered
               Anthriscus scandicina - to 2' - dry, old. from last year in dead
                    tangle of unburned p.o. branches -
               Hypocheiris radicata - [Jen]
                    Check others - (The above from memory - 3/1/64
    - Mistletoe - bloom & past - buds?
    Clarkia - Ron says that his hot house Clarkias in
               serp soil look about like those on ridge -
               - tallest - 2". However - those separated
              but still in serp soil double the height.
               Reason - no competition, other factors about equal.
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March 1st 1964 -

On J.R. from Mantilla Dr. alone - 12:30 noon
Weather: - So. wind - drizzle. N.W. wind in gusts at times,
very thin sun occasionally . Summit barely visible
thru sheets of drizzle and sun - Beautiful day.
Blooming

- Hounds tongue early stages few full flowers prob  $1\ \mathrm{wk}$ .
- Trillium Few blooms as compared with number of plants prob. because of drought early.
- Sun cups several blooms in higher fields.
- Zygadene in bloom in chap areas esp. higher on hills.
- Osoberry C.M.W. blooming near buzzard oak
- Dirca much bloom.
- -Winter Current blooming for over 1 mo. More widespread in C.M.W. since since flood. Seems to quickly come thru alluvium.
- Salix lasiolepis commonly in bloom but not peak.
- Laurel since Dec or Nov.
- C. cuneatus widespread but not full on S. facing slope.
- Hillside gooseberry for over 1 mo. leaves showing in other leafless thickets on hillside above swamp.
- Blue witch much bloom, but only in brush and chap on high S - facing hillsides.
- Chickweed abundant in shade.

Birds - Red tail - flushed into flight in rain 1000' W of trench

- Sp. Towhees 3 along So. trail to baneberry site.
- G.C.Sparrows 8 to brush at S. trail entrance.
- Cal. Jays common heard C.M.W. from hillside.
- Chickadees sev. oaks at grass pt.
- Herons 19 seen in rookery as seen from up W. end of J.R. In 1/2 hour only 2 flew, only to circle and realight. Some platforms with 2 birds, some with 1, some perched away from nests. Off line - 2:15 PM.

Namphila the hopey !! -Phototier - coll. P. congrata ? It liver Gran Dol Arrant growing borrenty fort growing services services services services services services services services services sound trickomer shows Seniers spotted Trickomer slaudelan Spen - 1/2 teta Weel apts on corolla lebre Pengua hachapter of the try short Qualissa maynes 46.6

10/15/63 -

Echinochloa crus-galli var. frumentacea (Roxb.) W. F. Wight.

Japanese Millet 
1st - C.M.Cr. bed - sandy bank on line about 100' from So. corner of

J.R. boil. Area -

Xanthium strumarium L. - 1st on line - bloom at above site
Xanthium spinosum - not "checked" in Thomas - (not on our list) - I think by
trail

In C.M.W. opp. fox oak - ?
Eriogonum nudum - by trail below big lupine fields -

March 8th 1964

To top of J.R. from Goya Rd. alone - 2:45 P.M.

Weather: - clear, cloudless, sunny - N to N.E. breeze

- Brown Towhees 2 to buckeyes bet Westridge's border and trail to E serp
- Quail heard covey of quail in above buckeye grove.
- Redtail low over M.E.J.R.
- Buckeyes near Westridge top of V.R. some leaves about full.
- Indian Warriors not yet in full bloom.
- Bloom on E. serp.
  - Poppies in patch on round south-facing slope, 45 flowers in 20' sq. very sparse to wanting elsewhere not this many in adjacent 2 acres
  - Linanthus beginning. 1 blue several large white.
  - Yellow lomatium
  - Plantago erecta -
  - Tillia
  - Calandrinia 4 patches blooming on E serp all on last year's ant hills.
- Calandrinia towards 2nd encl. 2 patches on exposed break on rocky slope
- Black oaks beginning bloom.
- Clarkia near 3rd encl. where dug by Ron and me on Feb 16 all plants virtually unchanged still mostly under
- Swifts (white-throated) 4 or 5 seen 1/2 mile (about) N to N.E. of E. serp. White flanks seen
- V.G. Swallow to low over meadow near blue oak bet round encl and old corral site.
- Dove 1 heard near (N) of 3rd encl.
- Dodecatheon clevelandii var. patulum still in good bloom S.E. of round encl. and W. of Hodge oak
- Owls Clover (Q. densiflorus) beginning bloom serp on line
- Orthocarpus pusillus " serp. W of line.

March 16th 1964 -

On J.R. from Mantilla 1:20 - 2:45 alone.

Weather: - quiet sunny day - 72° light N. stir - beautiful day.

- Hounds-tongue perhaps not more abundant this year, but large full blooming plants abundant.
- C. cuneatus small heavy, top of N.R.
- Redtail Hawks 2 circling from low to quite high over C.M.F. one often with feet hanging down. Often circling in opposite directions, one from them other.
- V.G. Swallows prob 8 or more in very rapid flight about upper C.M.F. oaks where they usually nest.
- Dodecatheon hendersonii hendersonii good bloom on hill E of cut-off no fruiting yet, so not coll.
- Lomatium dasycarpum (prob.) white bloom just W. of cut-off.
- Barbarea orthoceras bloom. CMW trailside
- Sp. Towhee brush inside edge CMW as usual.
- Br. " [toto] " " ".
- Steller Jay CM swamp several heard
- Cal Jay 1 close to above
- Pressed- Winter current 200' W. buzzard oak.
  - G.B. Goldfinch 1 to So over CMW.
  - Song Sparrow song in p.o. near CM Cr. at buzzard oak, as usual.
- Pressed- Salix coulteri leaves and capsules pressed from our lot no staminate flowers here. Couldn't find the site in C.M. Swamp W.S.W. of buzzard oak.

# Rainfall 1975-76 (9 A.M.)

```
Trace
Oct. 10, '75
                      . 7
Oct. 11
                      . 4
Oct. 12
                      . 3
10/27
                     1.3
                     .25
10/28
10/30
                      . 7
                     in traces -
11/9
                     . 6
12/12
                     . 4
12/13
                      .05
                     . 4
1/9
2/5-6
                     .6 melted snow - snow 2 - 5"+
2/14
                      . 2
2/15-16
                     .35
2/19
                      .45
2/29
                     1.25
3/1
                      .25
3/2
                     1.2
3/3
                      . 6
3/18
                      .35
4/3
                      .3
4/7
                      .1
                      . 7
4/8
4/9
                      .3
                      .5
4/11
5/10 cherry rain -
                      .1
                     ---
                     12.3
```

```
. 4
10/2/74
10/28
               . 9
10/29
              .3
              .65
11/5±
              .25
11/18
              .1
12/2
              .8
12/3
12/4
               . 5
           .5
3.6 interval rain of Jan 2 to Jan 10 -[hospital] - possible
1/10
                     some fall before Jan 1st?
                     hosp.12/31-1/9 -
1/26
               .1
2/1
              1.7
2/2
              1.35
2/3
              1.1
              .2
2/7
               .8
2/9
2/10
               . 7
3/1(2 \text{ wks}) - .5
3/6
                . 6
3/7
               1.1
3/8
               . 9
3/10
               . 4
3/14
               1.2
               1.
3/17
              2.1
3/22
3/24
               . 2
              1.3
3/25
               .2
4/3
4/4
               .3
               1.1
4/5
4/6
               .35
4/7
                .1
4/16
               . 6
4/17
               . 3
4/25
                . 4
               24.35
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Rainfall 1974-75 (9AM)

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Rainfall 1973-74 - 9AM
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```
9/20 --
                      .15
     9/23 --
                      .1
     10/7 --
                      .6
     10/8 --
                      . 5
     10/9 week
                     1.6
                     4.2
     11/6
     11/7
                     . 2
     11/10
                     . 6
                      . 7
     11/11
     11/16
                     1.
     11/17
                     . 4
     11/18
                     1.6
                     . 5
     11/21
                     .3
     11/22
     11/29
                     .6 3days
                    2.5
     12/1
                     .6
     12/13
     12/14
                     .2
     12/22
                     . 4
                     1.
17.75 12/23
     12/27
                     1.7
     12/28
                     .1
                      .2
     1/1 - 8 ?
                     1.
     2/1
                     . 4
                     . 7
     2/10
     2/18
                      .1
     2/19
                     1.2
     3/1
                     1.3
     3/2
                     2.
     3/3
                     1.4
                     .1
     3/26
     3/27
                      . 4
     3/28
                     1.4
                     . 1
     3/29
     3/30
                     .5
                     1.2
     4/1
                     2.1
     4/2
                     .3
     4/23
     4/24
                     .45
     5/17
                      . 2
     6/19
                      .20
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34.80

Book had no page 99.

May 19th 1973 - (Mama's 88th birthday)

Fog on mountains - some cool wind. To C.M.F. alone.

- Heterocodon rariflorum found in considerable mat in 5/18/73 moisture just below Hodge Spring.
- 5/18/73 Calochortus venustus 1st bloom W end of serp.
- Calochortus luteus never so widespread. Uncommon on serp but present also on grasslands elsewhere

Upper C.M.F. in tall grass but more abundant than ever.

- Grindelia hirsutula more widespread in Upper C.M.T. than ever.
- Red-tail Hawk on buzzard oak CMW. screaming.
- Delphinium hesperium very widespread this year far moreso and more abundant than I can recall.
- Lupines C.M.F. all past.

New

- Madias up and about everywhere in grasslands.
- Stipa spreading well noticeably in upper C.M.F.
- Sitanion " but not nearly as well as Stipa.
- Chamise approaching full bloom abundant this year as 2 years ago Poor showing last year.
- [Elymus] spreading well C.M.F.

#### May 27th 1973

- Searsville opened under new 10 year lease this week.
- Weather: from blowing and cool (5/19, 20, 21) to rain (trace 5/25) to very warm today.

Many details of small importance unresolved \_ distributions of plants and nesting birds.

- Brodiaeas \_ all in tall growth and abundance this year as I think never before.
- Viola ocellata about 10 blooms this year at violet site.
- Cal Jays immatures of latge size new conspicuous, The jays all in [aprons].
- Mallard 1 on Searsville Lake in shores. 5/25 no other duck seen.

Some green about, but grass largely dry.

- Bewick Wren Nest with young about 10 days ago by trail S.E. of Tiger Lily site in ground 30' above S.F. Creek.
- Grindellia abundant this year --
- Lupinus nanus last blooms -
- Navarretia viscidula past bloom in tall grass by trail at N.v. site about 10 plants found 5/25
- Quercus dumosa full bloom 5/25.
- Sanicula crassicaulis stem to 48" seen today N. of S.L. beach about 800'.
- Brodiaea elegans common this year more so than in past it seems.
- Phacelia californica 10' from S.F. Cr. at road crossing (W. side) from Whiskey Hill Rd. entrance.

#### June 1st -

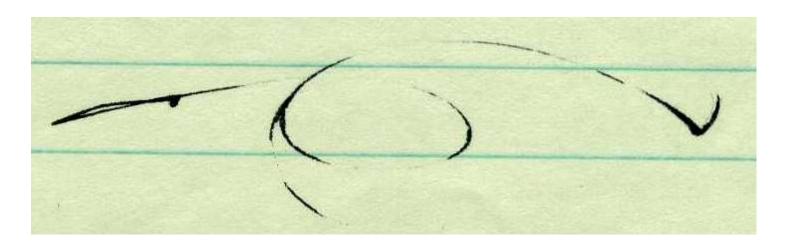
- Steller Jay tousled young flushed at violet rock site.
  - It flew across S.F.Cr. It and parents in [aprons].
- Robin young flushed in our redwoods fluttered to top of sand pile (far back terrace job)
- Black-headed Grosbeak young along S.F.Cr. near violet site.

June 5th 1973

On top of Jasper Ridge from Goya Rd - alone 7:30 A.M. Weather: - low dense overcast to 600' - disperses within 45 minutes To later reach about 85°.

- Clarkia on E. serpentint tangentially a beautiful crimson 2nd enclosure dense. This year is the greatest ever for Clarkia.
- Brodiaea elegans abundant now. Other Bs. Passing.
- Coyote I was tracing the edge of the chaparral (west side of chap. opp. Lazuli Bunting site, Ron checking the
- (Navarretia het.) lovely blue-on-base-edge-of-chap. Navarretia heterodoxa which gave way below to Tocolate. As I quietly emptied Zygadene seeds into my pocket, a young (nearly or full-Grown coyote trotted out of the chaparral 30' in front Of me. At the "road" ca. 100' away it turned to look At me. And I talked to it. It turned to trop on W.S.W. turning at intervals of 100+' as I talked or lightly whistled to it. Finally, at the top of opposite hill ears in profile towards me, it shook itself and trotted out of sight. The coat was light, and quite lacking the dark crest down the back and tail. It seemed not to be frightened. Coyote trotting is Very graceful. It was less shy than some dogs I talk to.





Sept. 10th 1973.

Recollections of daily visits since last entry in notes.

- Acorns begin falling about Dad's birthday 8/21.
- Tarweed at 2nd (from E.J.R.) enclosure much less than in surrounding serpentine. At enclosure by quad #18 this doesn't prevail, but it is less serpentinized. 2nd enclosure has red patch of Eriogonum in and coinsiding with range of last spring's Mimulus douglasii, which latter was first seen there this year.
- Skunks tracks everywhere abundant.
- Foxes for 2 weeks eating wild cherries.
- Amer.Egret for 3 wks at Searsville Lake. Once seen in flight and landing 150' from Great blue heron so. end of lake.
- Caspian Tern 1 in flight and fishing so. end of lake.
- Killdeers 2 last week so. end of lake in flight landed at beach.
- Snowberries Lonicera
- } ripe -
- Blue Elders very large bumper crop of berries this summer.
- Salix hindsiana on bars down S.F.Cr.
- Kingfisher below my shack site over S.F.Cr. which is dry but for pools.
- Stipa noticeable increase in serp.
- Acorn Woodpeckers frequent now at tumble-down oak.
- Thrashers in song top of J.R.

Gun fire heard - (at doves) - Co[rm]elly place - NE of J.R.

May 5th 1974

On top of Jasper Ridge from Goya Rd with Ron and John McKean Weather: - fog on ridge - N.W. breeze, as for past several mornings. Aspect: - All is green - fields with very slight drying.

- 1st ever? Western Kingbird on wire on fence W of Hodge Oak at end of fence - flycatching.
  - Festuca pacifica reddish fescue along trail W. of serp chaparral.
  - Ron home for Tom's wedding -

May 6th 1974

On J.R. from Whiskey Hill Rd with Ron - 8:15 AM 2nd record - Cowbird - top of Alder by S.F. Cr. at bridge"- (concrete) below. S.F. Rocks - singing

May 7th 1974

On J.R. from Mapache Ct - (formerly Mantilla Dr.) with Ron Weather - fairly low fog.

1st on J.R.- Calif. Gray Squirrel - in dead live oak (downed tree) by C.M.Cr. near buzzard oak. I believe seen about Zoology Cabin in 1920's - on Portola Rd 1973 and Family Farm Rd. near Schultes' in 1969±, but this today was first J.R. positive sighting - A few wonderful tromps with Ron.

May 15th 1974

Top of J.R. with Jim and Winifred Robson -- Gopher Snake - 3' on "road" on line on serp

May 21st 1974

C.M.Cr. and Nolan Cr. -

Weather: - cool - sunny.

Aspect: - Following a cool winter with 33+" rainfall
(no measurements) (home) - the grass in Jasper Ridge fields was
the tallest yet seen. Grazing was stopped 13
years ago - (I think) - see 1961 notes.

- Avena ssp. Commonly to 40", but most noticeable is the apparent widely increased distribution and density of <u>Stipa pulchra</u>. In a lesser degree this is sharted by <u>Sitanion jubatum</u> and <u>Stipa lepida</u> latter confined to chaparral and brush borders.

More noticeable is the first widespread appearance of

- <u>Danthonia californica</u>, which has abundant seed and bids for the first time to become a noticeable component of the grassland on top of J.R. growing to 2' with arched culms because of heavy heads (probably a usual circumstance).
- Stipa p. is forming first noticeable patches in grassland
   presence indicated by reddishness.
- Bromus mollis seems taller than I recall it ever before.
   reaching better than 2' on occasion.

  Druning grazing days B.m. was rare on serpentine. Now it is abundant. Consequently wild flowers were fewer, and sometimes stems necessarily longer.
- Delphinium hesperium particularly on E. serp.

far more abundant than ever before.

- Delphinium californicum seem[ing]ly never abundant in trails in chaparral.
- Rodent population less in spite of tall grass.
- Horned Owls none seen on top of J.R. last winter at dawn probably possibly because of fewer rodents?
- Lupine at old Baby-Blue-Eye site seen to be L. nanus and old L. nanus X densiflorus hybrids. Top pods seemed 2-seeded often.

May 22nd 1974 -

S. F. Cr. - Searsville Lake

Weather: - beautiful - clear.

- Spirogyra? (green filamentous alga) appeared to 18' to 30' in S.F. Cr. in last week unless obscured by higher, swifter water of up to this week. Our stone seen last week now obscured by alga.
- Blue Heron flushed from shallow Typha doming[ensus] inlet.
- Coots only 2 on lake, no other birds on water.
- Mallards A pair, prob. same pair, can be flushed from almost any pool along the creek. Pair seen flying up S.F. Cr. below dam at tree top, landing just above dam by E shore. Female flew onto lake with 1/2+" by 1" egg-like shaped something in bill - and swallowerd this before curious male arrived beside her from 150' flight.
- Iris douglasiana more abundant bloom this year

## May 23rd 1974

- Wood Ducks - 2 males flushed from under bridge at Southend of Searsville Lake. They flew out together to opening in Polygonum some 50' [S] of bridge - beautiful mature birds. Then as I watched them they flew off to land again - 100 yards S.W. They are wary.

### May 24th 1974

- Kingfisher - So corner of lake in flight - up 30' - turned and flew back towards [by] inlet - Haven't seen one for many months.

Re-Lost Notes Nov. 15th '74 To
Feb 15th, '75 -

Jasper Ridge field notes - Nov. 15th 1974 to Feb 15th 1975 were lost, presumably. Below is recall. I was not on the preserve between Dec. 30th and Jan 15th - (hospital).

- -Weather ;- generally Dec. was cold and dry Nov. 18th Jan prob. 1 1/2" rain. Jan. = 3.7", and to Feb 15th = 6" from Feb 1st.
- General Aspect:- There has beem generally a lateness in growth and bloom -
- Pedicularis 1st bloom seen with Ron Jan. 16th± usually blooming by Jan 1st.
- Dirca I was absent for 1st bloom.
- Ceanothus cuneatus bloom ca. Feb.5th.



Rodents - The number of rodent runs this year on grasslands exceeds any I remember. Grass is more protective, particularly in the overlay of dry grass. There seems to be considerable burrowing or use of old gopher burrows, probably mostly Microtus. There is hardly a square foot of grassland not traversed by such a burrow.

Kite - White-tailed Kite - for about 3 weeks, seen very nearly daily, perched or in flight.

1st seen about Jan 20th with Ron - 1 perched by Hermit's pit - flew along edge of NE wooded top of J.R. to W.

On succeeding occaisions flights mostly over wooded edge of top of J.R. with perches at above site, near round enclosure. large valley oak N. of round encl. 150 yds ±, Hodge Oak, W. end of serp in large oak, and in oak W. of dome where seen before in 1973. On one occasion, ca Feb 10th ± 2 were seen on ridge, not closer to one another than 200'. Feb 15th on seen in top of oak S. of Keith Oak 150'.

Quads - Have relocated most of my old quadrats.

Coyote- Coyote:- large dark, observed hunting along road next to suspected den patch of chap. Opp. Goya gate in blue oaks this one [flushed] [from] company of two pet dogs.

Nov 15 1974 to Feb 15th 1975 (cont.) -

both large, not seen before, both shortly leaving quickly and furtively as though behaviorly influenced by coyote. The above incident Feb 18th with Charles Comfort. Later same morning I returned towards dome to retrieve keys - and on way back, small light (as seen in same spot nearly two years ago) coyote, now a bit moth-eaten was sitting at "entrance" bay to chap, W-side, and when I was 400' away arose and walked into chap - confirming Den posibility.

February 22nd 1975

Weather: - isibility to Mt. St. Helena - beautiful, sunny.

- Suncups -- blooming 8 days -
- Dodecatheon clevelandii 1 solitary bloom quite S.W. of serp. on gopher mound base. Some petals recurved, some not.
- Kite One heard and seen this morning near round encl. flew N. then E. and about to oak near hermit's pit.

Oct 16th 1976 To Searsville levee with 1st sec of Human Bio #103 class -Weather: - moderately clear but hazy - Long-billed Dowitcher - up to 30 now feeding for about 3 weeks (earlier only about 9 present) along so. shore of retreating water - Red Headed Duck - walking about W. shore of "island" - so end of lake. A not common sight. - Gadwalls - prob. 20 on so. end of lake. - Widgeons - 8 or 10 on lake. - Mallards - 12 or so on lake Ring-necks common - Coots - "many" -- Ruddy Ducks few usual - Pied-billed Grebes - few - Bittern -----1 so end of lake - now drying - Canvas-backs --6 " " " " - Pintails ---- 4 " " 11 Dec. 14th 1976 -- Double Crested Cormorants - 4 on lake - middle - as last year -Dec. 21st 1976 - 7:30 A.M. Searsville Lake, alone Weather: - hazy -Aspect:- Lake very low because of prolonged drought - down ca 10'. - Gadwalls - S.E. side and big inlet. - 12 - 20. - Ring-necks - all in inlet - ca 20 to 30 - Coots - more abundant than ever - possibly hundreds - in and out of water. There is now a whole exposed shore. - Widgeons - about 8 in inlet - Pied Billed Grebes - 6 in inlet - Mallards - 6 outside inlet. - Hooded Mergansers - The second pair ever .

together

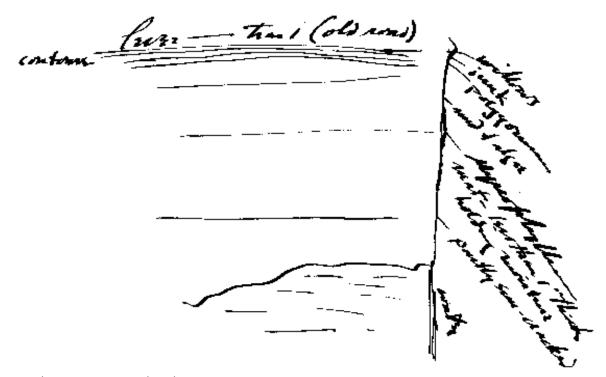
These in middle of lake in great plumage and swimming

March 5th 1977

To Searsville 7:25 A.M. - 8:25 - left Weather:- Very clear, sunny 28° at 7:25 - 36° 8:25

Fewer ducks on lake. Inlet about as before

- Green-winged Teal 5 or 6 so. border of lake in mud shore wading and swimming.
- Cormorant only 1 mid lake flew to dam area
- Killdeers no count prob. 10. but increasingly noisy.
- Long-billed Dowitcher only 1 seen quite in contrast to past months
- Coots numerous as usual.
- Pied-billed Grebes sev. scattered on lake
- Ruddy Ducks few as compared to last week.
- Least Sandpipers 7 S. end of lake.
- Pipit 2 in wide swath of flat mud between parrotfeather and water. Killdeers nearby sending out alarm notes. Pipits in some suggestion of courtship
  - Flickers 3 flushed from Myriophyllum near levee
  - Mussel shells 2-4 per sq. foot, south entrance to big inlet in water and on exposed mud shore
  - 2" snail shells also abundant, but more widespread and more evenly distributed



[See possible transcription on next page.]

	levee trail (old load)	)	
contour		Z	willows
		1	junk
		-1	Polygonum
	•	٦١.	15.
			mud & algae
			Myophyllum
		-  -	mat less than 1" thick
		<u>[</u> !	
		l '	holding moisture
		ſ.	
			partly sun-cracked
		, –	
	[	ì'	Water
	<b>~</b>	1	רָל -
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		II	