

Aug. 25, 1937

Memo for Messrs. Talbot and Bentley

Attached hereto are check-list (tentative) and notes. It is regretted that time did not permit me to refine these to some extent.

The collection is only in fair shape - the following should be done.

The specimens that are now on the drying boards should be un-pinned, cleaned and stored at the end of 8 days, provided they are ~~xxx~~ dry.

The specimens in the case should have attention and kept well-poisoned with Di-chloricide. Watch for unusual smells.

The birds are still wrapped and should be left that way until the permanent labels are attached.

All mammals should be brushed.

Watch for indications of any destructive insects - particularly silver-fish.

A collection must have constant care.

Take good care of my Wood Rats - get something there.

JTW

Trapping Notes - Black's Mountain, California Forest & Range Exp. Station

HEBY LAKE, SERRVET33N, Lassen County. Elevation 5600 feet (Approx.)

Date 1937	Description	No. of Traps - Results			Remarks
		M	R	G	
Aug. 3/4	W. side of Lake Willow clumps	30			5 Peromyscus Bait - Cheese Specimen Nos. 669- 670-671
"	W. side - Sage Rocky soil	30			7 " Bait - Oat Flakes 10 traps - Bacon scent 20. Specimen Nos. 672-673-674
4/5	W. Side of Lake Willow Clumps	30			4 " Bait - Cheese Specimen No. 678
4/5	W. side of Lake Willow clumps		5		1 Neotoma #680 Bait - Cheese
4/5	SW of Lake - Sage Rocky soil	30			13 Peromyscus Bait Oat Flakes Specimen Nos. 680- 681-682
5/6	NE of Lake - Sage Rocky soil	30			11 Peromyscus Bait Oat flakes - Specimen No. 687 1 trap lost.
5/6	E. of Lake Sage & Rocks	30			7 Peromyscus Bait - 10 Traps oat flakes - 20 Bacon scent Specimen No. 688-689
5/6	S. of Lake Willow Clumps	20			8 Peromyscus 1 Microtus Bait Cheese Peromyscus No. 691 Microtus No. 690
5/9	Pines S. of Lake	50	3		3 Peromyscus The Mice were taken in the first 60 yds. at edge of pines in ground cover of sage None were taken on a comparatively clean forest floor.

M. Mouse traps. R. Rat Traps. G. Gopher traps

Date	Description	No. of Traps			Results	Remarks
		M	R	G		
Aug. 8/9	Pines S. of Lake	25	1		2 Peromyscus 1 Perognathus	Bait Oat Flakes Taken in sage near edge of pines - Nothing taken on comparatively clean Forest Floor. 3 traps sprung.
8/9	Old pole pen S. of Lake - Sage	5	1		3 Peromyscus 1 Dipodomys No. 697	
8/9	S. of Lake Pine -Juniper- Sage -Rocky soil	10	1		2 Peromyscus	Bait Oat Flakes - Specimen Nos. 698-699
8/9	S. of Lake Willow clumps (dead)	15	5		13 Peromyscus	Bait Oat Flakes Rat traps -Nothing.
9/10	Old pole pen S. of Lake - Sage	5	1		3 Peromyscus	Bait - Oat Flakes Rat trap nothing.
9/10	S. of Lake Pine-Juniper-sage Rocky soil	10	1		4 Peromyscus	Bait Oat flakes Rat trap nothing.
9/10	S. of Lake willow clumps (dead)	15	5		3 Peromyscus 4 Microtus	Rat traps nil
9/10	S. of Lake Pines	50	1		3 Peromyscus 1 Perognathus	Bait - Oat Flakes. Peromyscus No. 709 Perognathus No. 710 Rat trap nothing. Mice were trapped near edge of pines in sage.
9/10	S. of Lake- Pines	25	1		1 Peromyscus 1 Perognathus	Bait Oat flakes. Taken in sage near edge of pines - Nothing trapped on comparatively clean Forest Floor. Rat trap nothing.

Eby Lake -Continued

Date	Description	No. of Traps			Results	Remarks
1937		M	R	O		
Aug. 9/10	Pines Edge of Pines			3 sets	1 <i>Scapanus</i> Nothing	Specimen No. 713
12/13	About 1 mile W. of Hdqtrrs In open area			8	2 <i>Neotoma</i>	Specimen Nos. 723/724 Traps set on nests or at feet of Juniper's containing nests
	In pines back from open area some sage			12	1 <i>Peromyscus</i>	No. 722 taken in sage clump.

The *Peromyscus* trapped in the above area is apparently assignable to *Peromyscus maniculatus gambelii* (Baird). However field identifications are difficult, particularly as to subspecies.

In the willow clumps along the present shore line of Eby Lake (August shore line) are a number of wood rat nests. Trapping here resulted in only 1 specimen. This specimen is probably *Neotoma lepida nevadensis* Taylor. A similar specimen was taken Aug. 12/13, No. 723. A specimen taken the same date is apparently not the same wood rat. In this connection the following is noted. On July 25th, I went into the forest to the west of the Hdqtrrs. buildings and found in the open area in a Juniper a wood rat nest - similar to the one pictured in Vertebrate Natural History of Lassen Peak Region (Univ. of Cal. Pub. in Zool., Vol. 35) on page 519, after much work the occupant was routed out and shot - it was a round-tailed wood rat. Six specimens of this Wood Rat were taken, all but one, by tearing up the nest and routing out the rat:

Date	No.	Sex	L.	T.	Hf	Ear (from notch)	Wt.	Location of nest
July								
25	627	♀	399	196	37	30	350	In Juniper
27	634	♀	371	174	38	38	237	"
Aug.								
3	664	♂	398	199	39	32		"
11	717	♂	412	194	42	32	398	"
12	719	♂	329	110	40	30	343	"
13	724	♀	394	188	41	32	348	"

No. 719 - A battered old veteran - gone is his tail - ears chewed and frozen.

The nests of these rats conformed as to location with the description of the nests given in the above cited publication for *Neotoma cinerea occidentalis*. No Bushy-tailed Wood rats were taken although a special search was made for them. The stomach contents of the specimens above

enumerated had a strong odor of Juniper. Juniper twigs, bones, mushroom and cattle feces were found in the food compartments. The nests were built in Juniper trees and were of the complex type. It is regretted that I was not afforded an opportunity to collect a good series of this Wood rat and make a study of the nests and food habits. //

Comparative table of traps (Mouse) set in the Eby Lake Region.

Trap Nights	Results	Genera	Type of locality
130	43	Peromyscus	Sage- rocky soil (open area)
110	35	"	Willow (lake shore)
156	9	"	Pine - In forest so. of Lake
20	6	"	Pines-Juniper-Sage-Rocky soil to the east of the lake - in open area - ground litter and fallen tree

Experimental Range Trapping notes - Cut-over Jeffry-Ponderosa Pine Area

Date	Quadrat No.	No. of Traps M R G	Results	Remarks
1937 16/17	55/60	60	5 Peromyscus See Nos. 728-729 728-729-	Bait Oat Flakes 1 Peromyscus eaten Peromyscus caught in young pine growth with slash and debris
16/17	88/93	60	8 Peromyscus See No. 730-731-732 730-731-732	Open heavy soil - partially eaten 14 traps sprung Pines, mule-ear debris 12 traps sprung 1 missing
16/17	176/180	60	2 Microtus See No. 734	1 part At
			3 Peromyscus No. 733	
16/17	near Q-178	6	4 Co	
		6	1 Thom	

This was the first day's trapping and the t the p.m., between 2:30 p.m. and 5:30 p.m. - so it is believed by Chipmunks, that the value of th

Date	Quadrat Nos.	No. of Traps M R G	Results	Remarks
1937 Aug. 17/18	268/275	90	1 Peromyscus nil 2 Peromyscus	Q. 268-269 - 1 sprung 269-270 270/271 1 sprung by toad
	See No. 738		nil 2 Peromyscus	271-272 273-275
17/18	314/306 Perognathus No. 739 Peromyscus 740/741	89	1 Peromyscus 1 Perognathus 2 Peromyscus 8 Peromyscus 3 Peromyscus	306/307 1 sprung 308 309-310 3 sprung 310-312 3 sprung 312-314 4 sprung
	1 sprung by Eutamias - 1 by Gold-mantled,			1 had feet of peromyscus
18/19	306/299 Perognathus Nos. 744-745 Peromyscus Nos. 746-747	90	4 peromyscus 2 Peromyscus 222-222 Nil 2 Peromyscus 2 Perognathus nil 2 Peromyscus	306-304 304-303 303-302 302-301 302-301 302-300 300-299 1 sprung
18/19	365/371 See Nos. 748-749-750	89	1 peromyscus 1 " 1 " nil 3 peromyscus 2 "	365-366 4 sprung 366-367 3 sprung 367-368 3 sprung 368-369 2 sprung 369-370 1 sprung 370-371 2 sprung
19/20	371/378 See No. 751	89	nil 1 Peromyscus 1 " nil 1 peromyscus 2 " 3 "	372-373 372-373 373-374 374-375 375-376 376-377 1 sprung 377-378 1 sprung 2 traps missing
19/20	457 to fence Perognathus No. 752 Peromyscus 753		nil 3 Peromyscus nil nil 1 Peromyscus 1 Perognathus 1 Eutamias	457-458 458-459 459-460 460-461 461-462 462-463 1 trap missing.

The attached chart shows the area covered and it is believed that if this method is followed and traps sets along dotted lines - a record kept of the catch i.e. specimens from each trap line of each genera and after the plot has been trapped, co-ordinate the record with the type map - it is believed that a very definite population figure may be found.

Actual ocular counts of *Eutamias* and *Callospermophilus* should be made in areas - these should cover every type

Thomomys colonies should be counted and approximate area recorded , type of soil and vegetation

Microtus colonies should be located , approx. area, type of soil, moisture - vegetation

After all this data has been gathered then prepare a map showing the distribution on the Range.

to this should be added the ground temperature

After this is done - checks should be made each year and any pertinent information added to the map.

Gopher traps were set near the windmill and specimens taken

May 20 - Gopher trap set on fresh burrow - at 5:20 am traps empty
7:30 am 1 trap had gopher and the other a gold-mantled
ground squirrel (Double set made - trap facing each way)