

Butterfly Lake, 10,321 ft., Duchesne Co., Utah

Aug. 13, 1969

Inspected trapline of 70 traps set at edge of meadows in conifers and the 70 new traps set among rocks and Engelmann spruce.

From meadow-conifer contact: (at 10,327 ft)

690813-1 *Clethrionomys* 128-34-18-14-17 gms ♂ testis 10 mm

From boulder-conifer association: (at 10340 ft)

690813-2 *Clethrionomys* 137-38-18-14-26 gms ♀ 3x4-emb 5 mm

A robin and gray-headed junco from this trapline. no traps sprung other than those that held mammals or birds. Sun at trapline about 7:40 A.M. Temp at this time 40°F (46°F in trailer), sky clear and no wind. Frost and moisture on vegetation. Specimen 690813-1 was in same trap as held the *Peromyscus* of yesterday. Noted some lakes with outlets 2 inches wide and base of organic debris.

Took the following photos.

690813-4 Trapping lake with broken log and reflection.

690813-5 2 small conifers and ripple marks. All lakes show former evidence of muskrat activity.

690813-6 From N end of lake with morning light on boulders. An Engelmann spruce measured 10'9" in circumference on W side of this lake.

690813-7 Tree down onto meadow with Butterfly Lake and Agassiz in background.

Recorded the following elevations with altimeter with Mirror Lake as base (10,050 ft). Butterfly Lake, 10321; divide 10340. trapline at edge of meadows W & N of Butterfly overage 10327; trapline among Engelmann spruce & boulders 10340. (from E to W)

Family and I made trip to highest ridge peak N & W of camp (not highest peak further N). and recorded the following photographs and observations. Left 3:00 P.M.

690813-8 Aspen on ridge at 10560 ft and far above normal range. Several small patches, most of them showing initial growth and the death of trees with new growth from base. Largest tree 12 feet high and 312 mm at 2 feet above base. A dead conifer 75 inches in circumference about 160 ft S & NE of aspen. These aspens are definitely relicts.

690813-9 unusual diked pond at 10480 ft. Rice-like paddy one side & saturated dike on other side. Outlet 4 inches wide and base of organic deposits.

690813-10 Close-up of dike

690813-11 Cross hatch of wave marks in quartzites.

690813-12 folding in quartzite.

690813-13 Chrus on glacial eroded surface

690813-14 Spruce, Siberian juniper & Agassiz in distance

690813-15 pond W of Butterfly from top of ridge directly N of pond. Channels in meadows

690813-16 Annette at edge ridge & Bald Mt in distance.