

2/10 mi. E Libby Lake (outlet), 10800 ft., Snowy Range, Albany Co., Wyoming
Aug. 4, 1971

Collected the following mammals from Engelmann spruce. These spruce are in more isolated groups with intervening open areas: 50 traps

	710804-1	<i>Phenacomys intermedius</i>	135-31-19-14-28gms ♂ testes 8mm
	710804-2	" "	94-22-16-11-10gms ♀ wt. normal
SKU	710804-3	<i>Clethrionomys gapperi</i>	140-41-18-16-31gms ♀ 4x2 emb 3mm
	710804-4	<i>Eutamias minimus</i>	215-96-32-16-55gms ♀ 2x3 plac. scars

The isolated patch of spruce with saturated trapping (25), did not produce mammals.

The two phenacomys were 40' apart.

Noted 2 *Eutamias minimus* feeding in open fields (30' from trees) on the seeds of grasses which had been covered by winter snows and now being reexposed. The *Thomomys* are more numerous on S exposures than north exposures and are associated with open field now been exposed from receding snow banks. It is difficult to appraise the population of gophers but I would say that practically every ^{usable} ~~usable~~ ground surface is being used and that in the course of 1/10 mile, one would see 30 centers of activity. I would judge these animals to be at a population high. It is not known where the snow is placed in the excavation of winter runways, and one wonders how these animals are adapted to withstand the low temperature of snow excavation, if, for instance, the snow is carved by the teeth and carried in pouches. What is the mechanics in making a 50' core of dirt.

Examined a porcupine skull from above area that measured: 125mm greatest length, nasal - occipital crest 120mm, zygomatic breadth 90mm, alveolar tooth row 29mm, weight of skull 101gms. There is considerable evidence of the ^{winter} presence of these animals.

at 11:00A.M. Annette and I made trip by foot to S face of Sugarloaf Peak and return. Route thru isolated patches of mature Engelmann spruce and open savannas; close group spruce trees of smaller size and krumholz. The objective was to photograph the several communities and to check on percent frequency of birds and mammals. A list of all forms are recorded in consecutive order as are the photographs.

