

showed that the spring was throwing during the periods of freezing weather and the waters had frozen into massive accumulations of ice in the old water courses. It was interesting to note all along the course of travel that the waters were now in a potential form of ~~water~~ ice to be liberated next spring. These ice masses allow great quantities of water to remain among the mountains that would otherwise be sent down into the valleys. It appears to me that the season we are experiencing of cold weather but devoid of snow is favorable in that the waters are stored in the form of ice and are held in the watershed. This condition may prove to be undesirable also in creating abnormal flood providing the springs are exceptionally warm. Continued down the trail and found the same condition prevailing in all the numerous springs except for one exception. One of the main springs among the group was in existence and flourishing about the same as ever. Springs above and below were dry. Dry springs had store of ice below. Continued down trail to flat near large rock talus. Pina did not call from slide area as I passed. Left end of flat and continued down regular trail leading down through aspens. The deer tracks were now very numerous in the trail and indicated present habitation of the area. Arrived at end of trail near ranger station at 3:30 P.M. Destination for tonight was about 1/2 mile above ranger station to the west. In passing up road spot 3 ♀ deer feeding on croosomal side of gulch by spruce. Passed at 120' but they did not move. Arrived at camp at 3:45 P.M. and soon had tent in shape. This camp is located in Tompaonike basin above ranger station where medial moraine separate two main canyons from Tompaonike Cirque. <sup>G.H. Owl called at 5:30 P.M.</sup> Here the ice completely covered a lateral stream while main stream relatively free from ice. Ground where dump frozen. Temperature 43° at 6:30 P.M.

12-10-39 Station 2 at Tompaonike basin camp.

Dawn at 6:20 A.M. Star shining at 6:35 P.M. Temperature in side of tent at 6:30 A.M. = 39°F. Outside in open at 6:30 A.M. = 28°F while under spruce trees along creek the temperature at the same time was 32°F. It indicates that the stream and spruce protection has a tendency to keep the temperatures higher. Coyote calling at 7:10 A.M. from east ridge among conifers