

Plankton sampling Plankton net with 11.28 cm in diameter (100 sq. cm) x 10 meters trawling = $\frac{1}{10}$ cu. meter (100,000 cu cm).

Plant sampling. Entire plant analysis of $\frac{1}{10}$ sq. meter of ground surface. Place in muslin bag and dry. Press higher plants of quadrat. Photograph $\frac{1}{10}$ sq. meter area. Collect in general area all dominant and subdominant and other representative plants from each community trapped.

Small mammals. 200 traps in line, each trap 20 feet apart (use 6 meter interval).

Small bird count. Quadrat of 5 m x 200 m = 1 ha. hectare. will vary according to kind of bird being censused.

Aquatic sample. A dip net 20 cm in diameter thru 5 meters of surface water = population of surface insects per 1 sq. meter of surface area. Same dip net over 5 meters length of bottom surface = population of bottom forms per 1 sq. meter of surface area.

Temperature ^{etc.} analysis. max - min; temp every hour; ground - air - subsurface; relative humidity, evaporation; wind velocity; light intensity; precipitation.

Large mammals. Sign per unit area; scat; burrows; mounds; nests.

Check carefully for Pleistocene mammals including: lion; saber-tooth; dire wolf; Arctotherium; Grant Elk; Antelope; mt sheep; yak; Royal bison; camel; horse; woolly mammoth; mastodon; ground sloth; giant beaver; coyote.