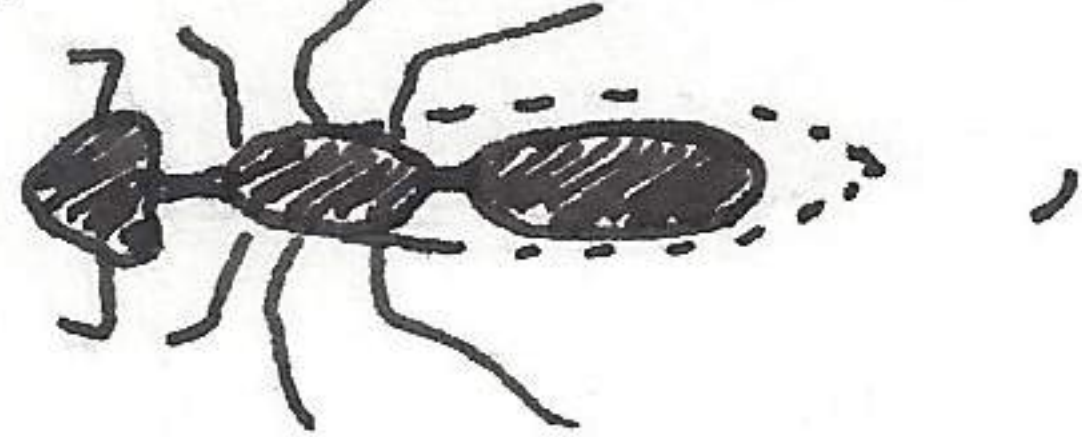



Lawrence, Douglas Co., Kansas

Feb. 8, 1971

yesterday split a railroad tie and found approx 60 black ants dormant. They occupied a lenslike cavity approx. 50 x 10 mm and adjacent corridors. Three inches of wood separated the ants from winter temperatures. When placed in a jar at room temperature they remained motionless for 8 hours. Today, 15 hours later they are active. There were three sizes represented: two winged forms , a small one , and an intermediate size.

Elk Creek area, Wakarusa Valley, Douglas Co., Kansas

Feb. 28, 1971

Dennis Dailey and I made census of birds and mammals on S side of Wakarusa east of Elk Creek. Route covered 8 1/2 miles, half of which was hillside grasslands and half in deciduous forests (see map). The return trip was in area of Wakarusa Valley destined to Clinton Reservoir. Birds observed enroute were typical winter residents. Major county roads open but secondary road muddy & impassible. Left Elk Creek at point where valley ridge intercepts Elk Valley (at 11:48 A.M.) Sky overcast and without sun, slight wind from NW and temp. 35°F. Snow only on protected exposure and field supersaturated. The first half mile along contact between upland fields of native Andropogon (cut) and deciduous forests. The first field of grass had been plowed for the first time in my memory. Along ecotone noted several sets of deer tracks and coyote trails. The only birds observed in this area were 3 blue jays. 12:16 fence-line on ridge. Some cutting of trees at this point. A redtail, 2 black-capped chickadees and a crow in this area. On traverse into next drainage noted considerable change in succession with young trees on slope that years ago were small shrubs and previous to that time, grasses. Overgrazing throughout the area was noted. 12:27 drainage and water flowing 1/2 gal per second. 12:31 confluence of 2 major streams with water capacity of 1 gal each per second. Water clear. On slope beyond found meretricine runway with fecal pellets of *Synaptornis cooperi*. A cottontail was the only other mammal noted. 12:45 point of ridge. all slopes heavily grazed. 12:50 pond. on both ends of earth dam were diggings of badger. Drainage on east side