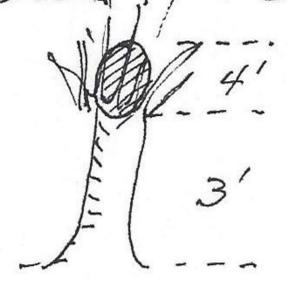


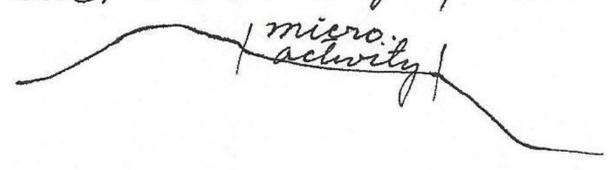
sparrow in brushy pile, 2 cardinals. There are many woodrat houses in this area. 1:55 large wood rat house in ~~the~~ brush pile, yellow butterfly. 1:58 main road, 2 song sparrows. elm in field up to 18 feet. Good grass in field that has been invaded by trees but no microtine runways. 2:12 microtine runways in grass in damp soils. 2:13 clearing (survey corridor) with brush pushed to N. Now up grade. deer tracks 80 and 84 mm. These measurements are intrinsic and never show tracks that have slid forward thereby increasing the length. 2 turkey vultures. 2:24 top ridge. 2 new houses to S. will follow N on ridge top, partly open, cacti and grasses and old road trail still visible. 2 field sparrows, blue-gray gnatcatcher, several good Neotoma houses, 2 cardinals singing in two directions on either side of ridge. 2:36 G.H. Owl. 2:38 2 more large Neotoma nests, one in an osage tree.

Another nest 40' N and 9' high (top nest from ground). Purple phlox. Gooseberry open to expose stamens etc but not ovary



2:45 end forested part of ridge, now onto open ridge at fence line. mallow to 10". microtine on top uncommon but present on brink of ridge to W.

On east side ridge, some microtine activity



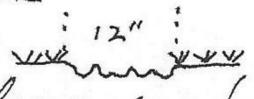
3:12 Survey lane. 3:18 red-headed woodpecker. On east slope of ridge juniper 1 per 20' or less

thru forest. 2 field sparrows, 1 red-headed woodpecker. Car 3:30. Enroute home 2 crows.

402 Yorkshire Dr., Lawrence, Douglas Co., Kansas

April 18, 1979

Robin used 1 sq. feet of mud in area planted to lawn grass (up 1/2") to build nest in pine tree. On ground 10 seconds and then on nest for 10 seconds which continued for at least 30 trips. She called each time she approach the ground. ♂ present but did not participate in mud gathering



S side Rock Creek Bay, Clinton Reservoir, Douglas Co., Kansas

April 18, 1979

made census along E side bay (see map on following page) following the upper (Bee) level. and return via edge lake.