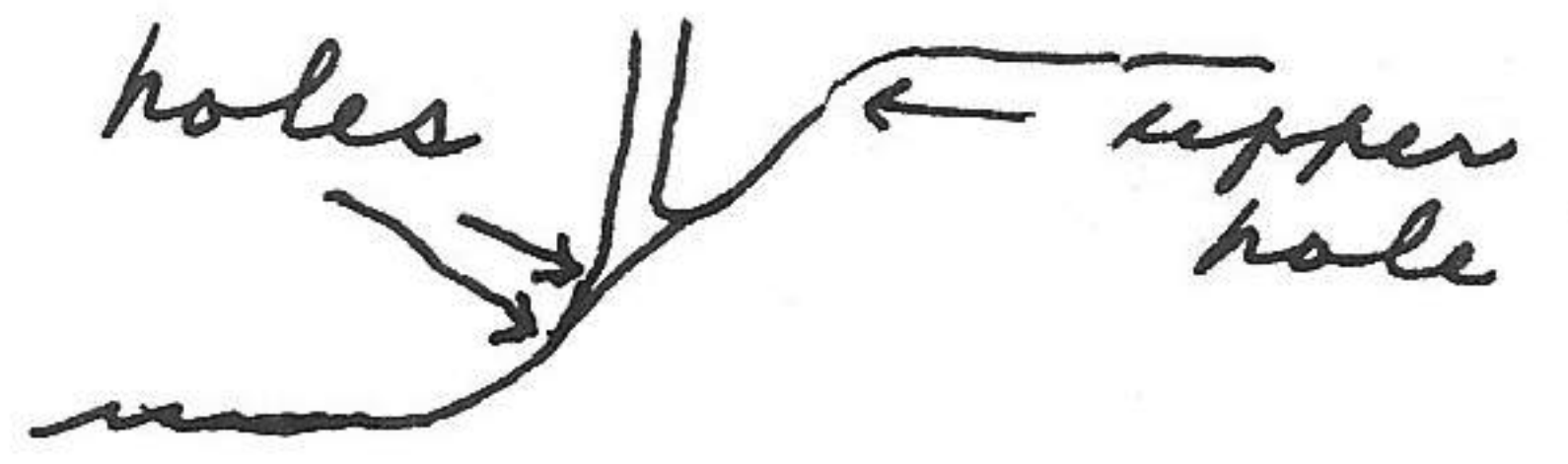


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4:02 S. B. Heron. Several hundred bank swallows nesting holes in sandy cliffs on N side of river, a good colony. As we pass by the sandy cliffs, an inverted shadow of the cones and occupants is reflected off of the water onto the cliff. Arrived De Soto Bridge (now torn down for rebuilding) at 4:07. Continued down river to mouth of Kill Creek, thence S to highway bridge. The creek has just enough water to support loon. Arrived 4:20 P.M. at a point about 100 feet N of the highway bridge on west side noted a marmot run into its burrow at the base of a tree. A fox squirrel was associated with this animal. A well beaten path connected the



lower hole with one under a slab of cement near top of bank. This afternoon noted a few frog (all small) on bank of river. Max temp about 76°F. The carp seemed to be more numerous than on previous trip. Water relatively high for this time of year and fewer extensive sandbars! This is unusual considering the drought conditions which have prevailed this summer and autumn.

Wakarusa River, Douglas Co., Kansas
Nov. 10, 1963

Annette & Mary and myself made canoe trip on Wakarusa from Blue Mounds Bridge to Eudora Bridge (W of Eudora on main highway) water at Haswell Avenue bridge & Louisiana bridge too low for navigation. Left 12:30 A.M. day clear, slight wind, temp 69°F. I have never seen so many small birds in vegetation and trees along the bank. Their numbers are perhaps 50 times greater than the winter population. No attempt to keep complete record this trip except great horned owls, g. b. hawks & red tail hawks, no numbers of small birds. 12:50 S. H. owl being harassed by 5 crows. 80% of trees in yellow color, some without leaves but most of them retaining leaves. Small birds numerous, 2 lone red wing blackbirds along river. 12:55 beaver house and activity. 200 redwing blackbirds calling from top of a cottonwood tree (this flock consisted of 200 redwings, 60 grackles and 20 cowbirds) Photo 631110-1 of Annette & Mary in canoe at point where major creek enters from N (2:00 P.M.). One sharp-shinned hawk sailed directly overhead and about 40 feet beyond darted into a group of weeds and small tree where small birds were feeding. It left bank of river and flew up to upper bank and sailed three large trees for another 100 feet or so. 2:10 large scaly lined cross creek. 2:12 beaver house & activity. Photo 631110-2 and 631110-3 of Annette & Mary on river at 2:20. At this point a S. B. Heron left tree and flew down river. Also 2 wood ducks left water,