

redheaded woodpecker, 5 or 6 sets deer tracks in trail associated with coyote tracks, house wren singing. 5:05 at turn (to E) in road. Redbellied woodpecker left hole in tree. Back to car at 5:18 P.M. Continued on road to Clinton, enroute noted indigo bunting, mourning dove, 2 redwings, 3 cowbirds, 9 grackles, mourning dove, 35.1 now to S, redwing, grackle, 35.3. base of hill, cottontail, indigo bunting, meadowlark, meadowlark, robin, grackle, g.c. flycatcher, large box turtle, bobwhite, Boettworse oriole, 2 mourning doves, grackle, loggerhead shrike, grackle, robin. 36.1 middle of Clinton, now to E. robin, 2 great blue heron about 400' high and travelling N., robin, (not listing Eng. sparrow) 36.5 out-shirts of E Clinton, robin, 2 barn swallows, 2 lark sparrows, robin, 37.2 Corp of Engineer road block at point where road turns to S. This gate is at top of grade and above ^{proposed} reservoir level. Will leave car here and walk E to Rock Creek bridge. Small cottontail, meadowlark, woodkill mole, redwing, dickcissel, cowbird, lark sparrow. at point where Wakarusa comes close to road made sidetrip to bottom of creek. The banks here are as high as I know of along this river. Below dark soil are clays which are unstratified. In upper level of clay is a nodular layer of round nodules averaging 1 inch in diameter. In the clays below this zone the nodules are confluent and the sets average about 3 inches in length. There is a graded gulch toward the Wakarusa and may be the old ^{wagon} trail that crossed or forded the river at this point. The erosion of these clays produce fantastic surface designs, and remind me of the deserts of Utah. Raccoon track along edge of Wakarusa. no Indian evidence along creek. A dead Blarina along wash on clay. Returned to road. dickcissel, redwing, mourning dove, 2 meadowlarks, dickcissel, 2 bank swallow, some M. ochrogaster in meadows, dickcissels, 2 redwings, 2 redwings, dickcissel, mourning dove, 38 cowbirds in one flock, dickcissel, 2 redwings, great blue heron flying S between here & dam and out 200' high, redwing, dickcissel 6:35 beginning of clay elevated area for dam. upper 3-5 feet of black soil removed and clay exposed to undetermined depth. Black soils with rock fragments (common); no clay beneath without artefacts. The line of separation between the two soils is abrupt. This exposure denuded area foreign to Kansas. No bird life between here and bridge over Rock Creek except 1 beed deer. Coyote tracks in clay. 6:50 P.M. Rock Creek Bridge. 12 barn swallow nesting under bridge. Log jam created by damming river with only a small culvert for water. Perched on a dead limb of a tree pile from clearing of area by Corp of Engineers was a Swainson hawk. (white chin, white around and above bill, head, back of neck and chest same color, primaries black, slight streaking below dark neck band and extending to 1/2 distance