

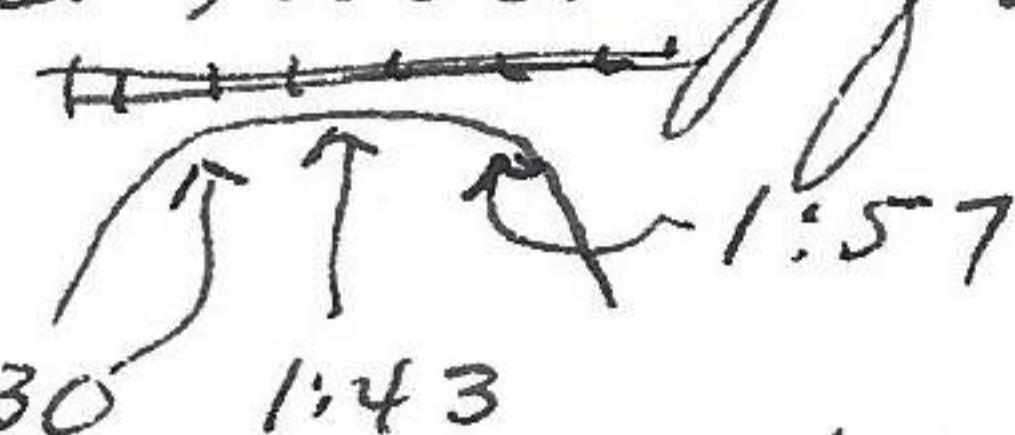


a mink track?  indicated an animal that fed along the bank,  going first into water and then onto land. The tracks were catlike but with claw marks showing 5 claws and fingers. A squirrel (fox) and rabbit were also recorded in same area. Coyote tracks 80 and 72. (some set as previously recorded). Left 11:04 Temp. 62.6°F. From ^{upper} bank measured a horsetail stem of 40 mm circumference. 11:15 mouth this channel. 11:30 marsh hawk flew across river from right to left. 2 redtail hawks circled over oak on hillside. Another roughleggedlike hawk circled but moved out of area. It frequently hovered. 11:45 spotted sandpiper. a hind foot of a beaver measured 190 mm. 11:53 apex of bend. 11:55 point of abrupt turn. great blue heron. 2 yellowthroated flickers from across river and carried on a behaviour suggesting spring nuptials. 12:10 double drainage & island of trees. G. blue heron. water temp 53.6°F. 12:42 Eudora bridge 1:00 wakarusa river. 1:20 redtail calling from tree but did not leave. 1:30 bend of river to N  1:57 and greatest amount wave action from wind blowing from SW. ^{axis + powerlines} Have noticed that when animals & birds walk over ^{the} mud on sand, the mud sticks to the feet of these animals and exposes the sand beneath. This track, if preserved as a fossil, would be difficult to interpret. no monarch butterflies and only 10 yellow ones so far. noted a fox squirrel feeding 2 feet from edge of water. The slopes of the river are rarely used by birds or mammals, except those aquatic forms or those that follow the edge of the river. 1:57 start of cliffs and drainage from left. 2:07 8 killdeer and silently feeding. 2:17 cow or buffalo skull. 2 angle wing butterflies so far. at this time inspected mammal & bird tracks on sand bar. Some measured are: raccoon 88 x 52, 105 x 62, 80 x 40, 60 x 45. muskrat 40 x 30, 52 x ?. a turtle left sand. its straddle measured 90 mm. Left 2:45 temp 71.6 mm. Arched bridge (RR) at beginning of bend just beyond Captain Creek at 3:25. Raccoon (back foot) 49, another 53 x 42. 3:56 The entire swallow colony on S side gone from cliff erosion. The current is fast 20' from cliffs but slow immediately adjacent 4:03 rock barrier just beyond old bank Swallow colony. 4:20 13 lesser scaups, a baldpate, 38 bluewing teal left from center of river. The scaup flew directly overhead. 4:20 stopped