


age to right. 9:10 great horned owl flew n across river, flying about 10' above water. no crow associated. 9:28 Copsize point. Since about 10 minutes after leaving the temperature dropped abruptly and the wind changed from w to n nw. Temp at 9:28 = 38°F. Shortly after the temp. increased. 9:46 channel to right. 1 great blue heron left and flew E. Gizzard shad, approx 3 1/2 inches long, swimming on side. This is the first one noted in this condition. Approx 12 dead so far. Redtail. 10:00 mouth Mud Creek. This n s section of the river is the windiest section on the Kaw. The wind blew directly down direction of channel although ^{blowing} slightly w. Rovers definitely channel winds in different directions. Temp now 42°F. 10:25 down-stream end of island. 11:50 middle of main bend of river. 12:00 wind blowing sand on beaches. When wind blows into cliff the waters are relatively free of waves unless of white cap proportions. If winds blows from land over cliffs the direction of the wind is reversed 

11:25 duck. Kingfisher. Stopped 20 minutes to check on a shoveller duck that was hit and flew into sand bank where it remain 6 feet above water until approached when it left again. Arrived Eudora bridge at 11:50. 12:10 mouth Wakarusa River. Good beaver house approx 200' upstream (Kaw) from mouth of Wakarusa River. 12:50 2 great horned owl left trees on w side and after flying down bank from tree to tree, left w side and flew E across river (1 foot above water). These owls have been observed in identical circumstances of previous trips on previous years. This bank of river has more small birds and raccoon tracks ^(12 sets) than elsewhere along river. 1:15 now at mouth of ~~the~~ Creek at R.R. tracks. Wind directly down this last stretch of river. 1:27 wilely lines cross river. On n side of river the water is quiet and no wind. (protected by hills. Air of water in protected area 50°F. no clouds in sky today. Beyond bend to SE and about 300' beyond entrance of creek on sand cliffs noted gopher (?) diggings into stratified layer with white land shells incorporated in corridors. Will photograph this and check more specifically on another trip. Also noted a condition in which the conspicuous layer of stratified sand & mud is in anticlines & synclines but layers above & below are horizontal.

