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9:22 A.M. 3 crows. 9:26 passing under high voltage utility pole & lines. great blue heron left bank and flew across the river. 9:30 major drainage from right. 9:42 bank swallow nests and all still in contact. Spotted sandpiper preceded me down stream and after alighting 3 times left for N side of river. 10:18 collected horse jaw from eroded sand bank. 10:20 Capsize Point. 5 killdeers, red breasted merganser, redtail and flock of 60 horned larks & all associated with sandbar bar area on N side river. 10:35 channel to E is now disconnected from main race by a 5 inch high sandbar across mouth. Redbellied woodpecker, 2 crows & redtail here. Young stands of cottonwoods are leafless with occasional yellow tree. Birds observed along riparian community are: bluebird, flicker, bluejay, downy woodpecker, starling, goldfinch, junco. 10:45 mud creek. 11:03 middle of island and following along E side to evade the wind. This side is windless and there are some damselflies of about 1 per 200 feet. 11:06 passing E end of peracy channel. Temp now 56°F. Have not observed butterflies so far. 11:15 ♂ & ♀ mallards, left bank and flew up river. 11:33 2 ♂♂ and 6 ♀♀ mallards in water at end of sandbar. They left, gained high elevation and moved E. 11:40 apex of bend 11:44 bend to E. 11:45 across from creek on N side. 12:00 double drainage & the island (inland) 16 meadowlarks and 3 flickers flew along edge of upper bank in field. Beautiful oak sidehill as one looks up stream from here. This area of sand soil & oaks should be checked for *Synonymus* & *Perognathus*. 12:11 first rock barrier beyond sand cliffs (left side). 12:13 a great blue heron alighted on small branch striking ^{out} of water and attained perfect balance. 12:30 Eudora bridge. Temp 52°F. The temp. varies from warm (57°) to cool (52°F) according to whether taken in protected places or on windy expanses. I am of the opinion that the cool temps are reflecting the temp. of the water, as the wind