

willows along river ranging from greens of summer to dominant greenish-yellow (near green) to an occasional yellow. Cottonwoods slightly more yellowish than willows but and with nearly full complement of leaves. Some cottonwoods bright yellow, some trees (a few) without leaves, especially on lower levels of tree. The condition of leaves on or off tree depends on two factors: trees exposed to wind and trees in a young consociation have few leaves than others. The dominant unchanged condition of riparian leaves from late summer condition is probably a result of excessive moisture this year and lack of drying winds. Can hear crows calling to right. Flock of approx. 60 redwings flying south. 8:55 first observation of gulls since leaving Lawrence population, there being one ring-bill flying up river and one flying down river. 8:57 spotted sandpiper on broad sand bar. Cottonwood tree leaves here about 85% on trees. Slight increase in wind and from back, favoring movement of leaves. Enough wind to cause leaves on tops of cottonwood to move vigorously and cause some slender branches to bend. Less noticeable on water. 8:55 Harlan redtail fly from left to right across river. 8 crows calling down river, 5 of them alighting on sandbar and drinking. Redbellied woodpecker calling. 9:04 first set submerged pipes (hissing noise on bank. 9:05 second set of pipes (bubbling water). 9:10 second set high utility lines. One great blue heron left edge water and flew down river. Ring-bill gull flew up river. 21 killdeer on sandbar and in close formation. All of them bathed in water and within area of 20 linear feet. 16 killdeer flew upstream at approx. 400' altitude. Considerable sand along N side of river and in positions unusual for this channel. 9:13 lone long-billed dowitcher feeding along edge of river on sand bar. One greater yellowlegs associated with dowitcher and flew with the dowitcher when I approached them. 9:20 Great blue heron left top of tree, circled ^{downward} and flew up river. This may have been the same one observed previously. 9:23 first swallow cliffs to right supporting approx. 75 nests in a restricted