

flew down river and then reversed flight <sup>631110-175</sup> and flew up river <sup>overhead</sup>. The great blue heron was seen several times <sup>and on each occasion</sup> it left trees and flew down stream. At no time was it seen on the ground. Arrived Spring Creek Bridge (Tonganawic sandstone area) at 2:55. Two red tail hawks and a Wilson's snipe here. The water is running at about one gallon per 10 seconds. Leaves in river, especially at portages (about 10 between Blue Mounds and here. Photo 631110-4 of fall colors along river. 3:15 photo 631110-6 to 10 at sandstone cliffs, mainly of gulls and loons. G. Horned owl left this area, black hornets on cliffs (8). 4:00 G.H. owl, 20 bobwhites. 4:18 red tail hawk, g. b. heron and a g.h. owl. 4:40 Photo 631110-11 of reflection in river of yellow leaves. Continued on to Endora Bridge arriving about 5:10 P.M. In summary: more small birds along side vegetation than I have ever seen before at this time of year. They were distributed generally and not in definite flocks as is found in winter. There was considerably more song. I would estimate that in 1/10 of a mile there were 100 small birds. Those identified were (in decreasing abundance): unidentified sparrows, tree sparrows, juncos, Cardinals, chickadees, Kinglets, nuthatches, song sparrows, red bellied woodpecker 5, flickers 2, downy 8, robins 2, hairy 1, Baltimore oriole? 1, 20 fox squirrels. There were no shorebirds. The above is approx and not complete because of the nature of the trip and the opportunities of recording or observing the birds. One pelycepod, Protera alata 631110-15 measured 217 mm, greatest length. It was taken approx. 1 1/10 miles down stream on Wakarusa River from Blue Mounds bridge or 3 1/10 mi. E and 3 1/20 mi S Lawrence (P.O.), Douglas Co., Kansas. The largest specimen at K.U. measured.

Lawrence, Douglas Co., Kansas  
Nov. 13, 1963

Temp to below freezing last night (22°F). This morning and throughout the day leaves have been falling and covering the ground. <sup>fewer</sup> ~~with~~ leaves, the trees now are a <sup>predominantly</sup> brownish yellow instead of the greenish yellow of the preceding day. The leaves that are falling are green. Compound leaves like the walnut and locust are separating from the base of the petiole and the entire unit (green) is shed at one time. Slight wind, clear sky and cold all day.

Nov. 15, 1963

Falling of leaves irregular. Some trees have full complement of green leaves (some oaks, maples and others) while just next to them the same kinds of trees will not have a single leaf on the branches. Black walnut leaves mostly gone, hickories 50-50, <sup>Temp last</sup> 3 days.