

Lawrence, Douglas Co., Kansas

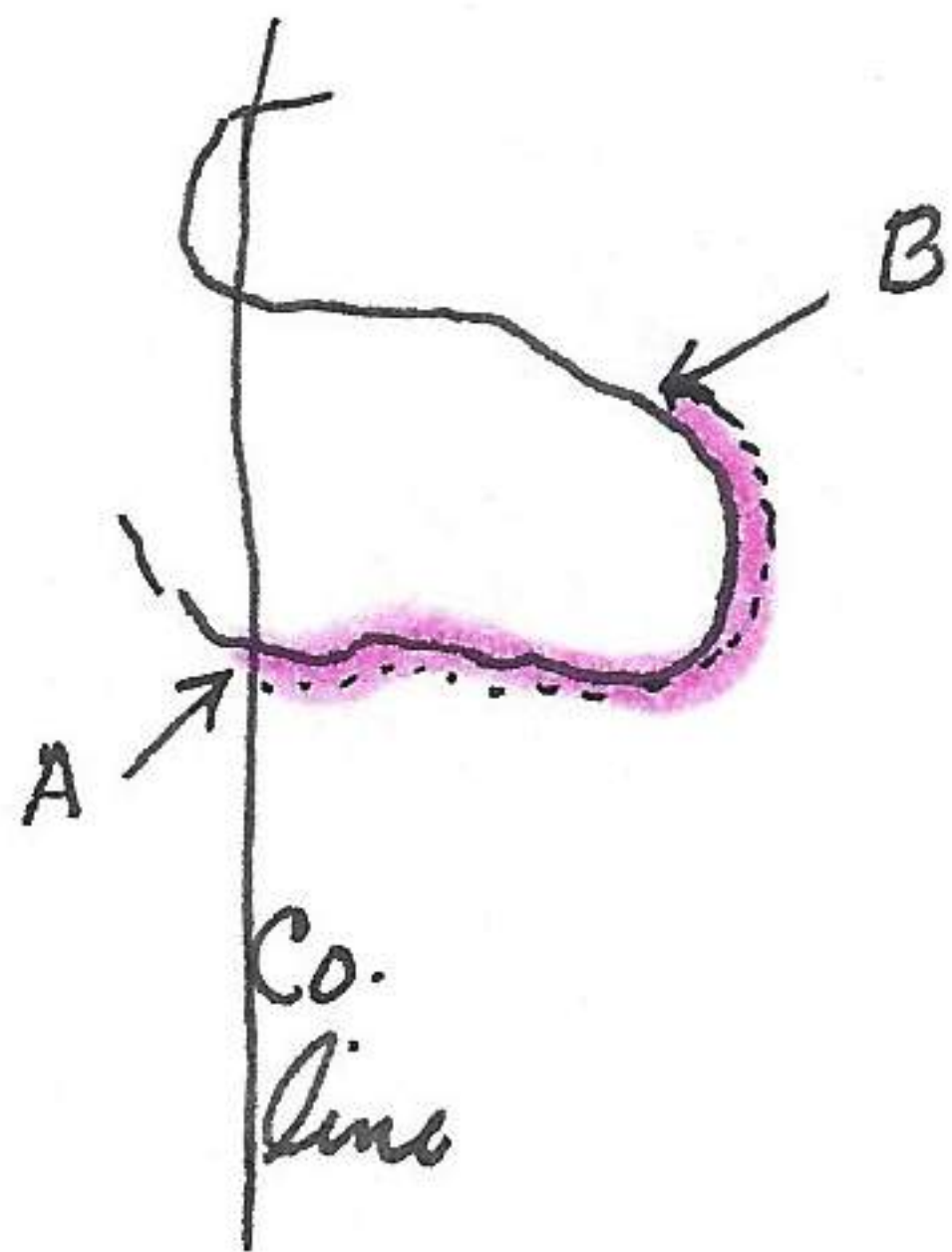
Oct 16, 1966

Frost last night for first time this season. Many plants were affected and leaves drooping.

Wakarusa River, Douglas Co., Kansas

Oct 16, 1966

Mary Bee, Diana Miller & I made collection of unionid molluscs on the Wakarusa River from a point where river crosses the Shawnee-Douglas Co. line to a point $2\frac{1}{10}$ miles down river. An area equivalent to 5000 sq feet of ^{exposed} gravel river bed was examined and all shells were collected, including living forms observable in water bordering the gravel bars. Water flowing at approx 1 gal per 10 seconds. Water dark, presumably from stain of leaves which covered most of the water. From a general comparison would say that the unionids in this area are considerably fewer in number than lower in the drainage system of the Wakarusa River.



Enroute made complete census of birds beginning at Siegel at the N end of the proposed dam site at Siegel School House at 46.7 mileage. 15 Franklin gull circling field $2\frac{1}{10}$ mi. to S; 47.9 blue jay, yellow-shafted flicker, all creeks are dry; 48.2 N end of old proposed dam; 49.2 blue jay; 5:03 Wakarusa bridge opposite Peterson Island; 5:16 passing by Patton bridge; 52.0 blue jay (it is remarkable how few birds are in the area); leaves in valley along river mainly green and yellow and averaging 30% leaves gone, on side hills trees brown & less yellow & green and not intensely colored as in past years. Some areas 80% leaves gone but would average 50% overall, this situation is probably due to drought & high winds. Some trees that were brilliant in previous years have missed out this year & are now dead leaves where right next to them are green trees);

52.7 main road & now to W. 53.5 Belvoir bridge; 53.7 mourning dove; 54.3 now to S; 56.4 bridge in valley; 56.9 meadowlark; 59.5 Elk Creek water intermittent or drop connections, 3 Eng. Sparrows; 60.9 4 Eng. H; 61.5 2 blue jays and leaving main road & following private rd to river; From here walked to area of shell collection & returned.

Left & drove to Richland & returned to Lawrence. At 67.1 (4 corners on side hill) 2 great horned owls. Sun down at about 5:35 P.M. Did not keep complete record on return trip.