

681103-168

Air temp in windy stretch  $54^{\circ}\text{F}$ . Wind dying down from earlier this afternoon. This is generally always true as sun nears horizon. 4:55 kingfisher. 5:05 mouth Soldier Creek. R.R. bridge 5:15 P.M. Heard a frog call from mouth of hole 5 feet up bank. It was not the usual call of frogs or toads that I am acquainted with.

Kaw River, Lawrence to Linwood, Douglas, Leavenworth Cos., Kansas  
Nov. 9, 1968

made solitary canoe trip, leaving bridge at Lawrence at 8:42. Temp of air  $31^{\circ}\text{F}$  (air temps are always taken at shaded side of canoe approx. 2 feet above water), water temp  $43^{\circ}\text{F}$  (always taken on shaded side of canoe at about 3 inches deep). Sky 90% in clouds in organized formation and clear deep blue between cloud masses. Wind from S and moderate. The clouds, in turn, are moving to the NE. A short distance down river noticed that I had 16 gauge shells for the 12 gauge gun so stopped at Snow's residence on N side of River (Charles L Snow, 876 Oak St) and called Chris. Because of complication and misdirection I was not able to leave until 11:55. Mr Snow claims that fishing is not as good as it was 20 years ago (in Kaw) and that sewage from Lawrence (south side of river) prevented them from setting trout lines because of entanglement material covering lines. During the last floods 1952 (1951?) the levee (now ~~now~~ naturally formed by Kaw) protected his home. Water come in on first flood about one foot, whereas in those home to north <sup>(200' beyond)</sup> the water was half way up windows. At the FMC plant the water was 8 feet deep. Mr Snow claims that in early days the meandering channel in valley was 20 feet deep in some places. He informs me that Indian artifacts have been dredged from the sand operations at the Sand Pits NE of Lawrence. He also said that acid is eliminated at the outlet drainage from FMC. In winter when the hot water from the outlets forms an open channel into the Kaw River, the carp will be 'side to side' through out the entire open channel. After Chris delivered the gun, I left at 11:55. Utility lines across river at 12:10. A great horned owl left trees on S side & flew N across river, alighting in cottonwood tree about 1/2 way up. 12:35 bank swallow colony to right and still no erosion of cliffs at this site. Air temp  $38^{\circ}\text{F}$