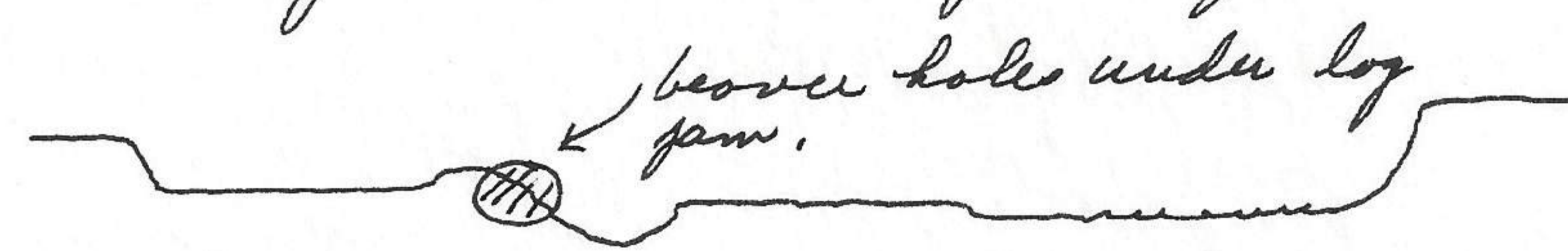


Two American mergansers were in Kaw River directly N of the Longspur area. They flew when we drove to edge of river and continued west. River open more than this time yesterday in bend area but still solid to west. Approx 60 meadowlark were flying and feeding in stubble to east of us. 2 sparrow hawks noted retreating to town but not in area of Longspurs. It is surprising that there were not more predators in area, as in the arctic the Longspurs were a common source of food for the pigeon hawk. This evening at 6:10 we were at the drinking area on the sand bar on the north side of river (see diagram Jan 21). We remain until sundown at 5:27 but did not see any Longspurs which the previous day were at the water edge for drinking purposes. Marsh hawk fly by at 5:35 P.M. Horned larks active at 5:55 P.M. when lights were too faint to see the birds. Considerable calling from horned larks in short stubble fields; more than in daytime. On way out of river bottoms inspected old beaver runways and diggings under high log jam, now high and dry above present river level. Deep runways led for about 100 feet from the two holes under the logs. Few cottontail tracks in sand of river bottom.



4 3/20 mi. E and 4/10 mi. S Lawrence (P.O.), Douglas Co., Kansas

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visited area where Callipepla lapponica were collected (see notes Jan 22 between 3:30 and 5:00 P.M. no Longspurs noted in area but 40 tree sparrows feeding in weedy area near trees. They seldom feed beyond 200' from trees. The horned larks, 30 in number, were in the area just west of the kafir corn field. 1 marsh hawk flying over fields. In the Kaw River, now more open than periods when temperatures were higher, noted 7 ducks in one group (of unknown identification) and 3 pintail-like ducks (identification doubtful) flew overhead. These ducks were too far for details. Temp about 18°F, all day, slight wind and snow flakes. Collected the following:

610125-1	Tree sparrow	152 mm T.L.;	18.5 gms., ♂
610125-2	" "	157 mm T.L.;	21 gms.,
610125-3	" "	157 mm T.L.;	18.5 gms., sex?

There is an interesting comparison between the flock react-