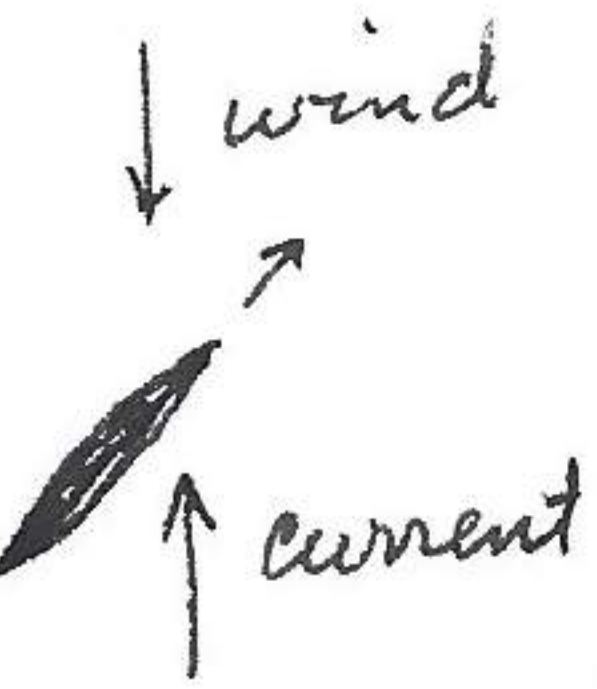


effect of a keel and when in combination with current moves the logs forward.

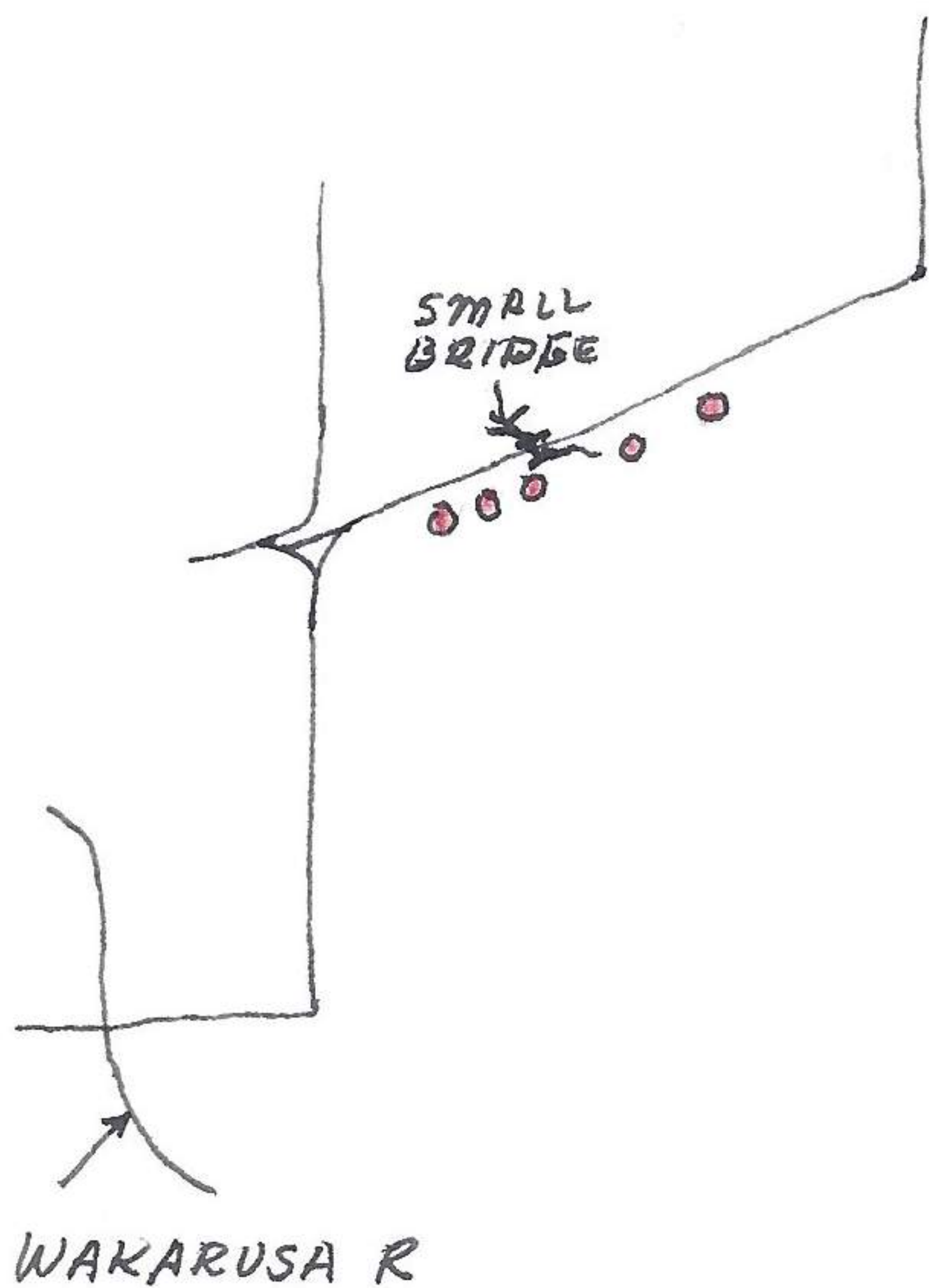
Wakarusa River, <sup>4/10 miles up stream from</sup> ~~near~~ mouth Elk Creek, Douglas Co., Kansas

May 5, 1968



Annette P and I inspected stream piracy on Wakarusa River. No complete census was made but important observations were recorded. Day warm, clear, windy.

Dickcissel. This bird occurred in only two places in area of proposed Clinton Reservoir, or elsewhere for that matter of fact. Followed same route as of April 28. At a point in section 20,



T 138, R 18 E as indicated on map, observed and heard calling 5 dickcissels. Two others were heard singing at a point where 850' contour line cross E-W road in sec. 13, R 18 E, T 13 S. It is peculiar that these were the only dickcissels observed on entire trip and where they occurred were in combination of several in a group, in these cases 2 and 5. Is it possible that these groups are family groups which maintain their identity during migration periods. Ordinarily these birds are generally distributed in the breeding period. In both cases the dickcissels were in lowland positions.

Redwing blackbird. at 3:00 P.M. there were no redwings on territories in area of above map between small bridge and diagonal road to bend. at 6:30 there were 8 on territories there.

Lesser yellowlegs. 3 at pond just east of point where Peterson road joins main valley road. Two lighter than the third one.

Red-headed woodpecker: Four observed along census route. There is definitely an increase in numbers.

Horned larks: Usually observed in road but, <sup>in</sup> all usual places they were singing in fields.

Hawk sp.? a hawk hovered above field 1 mi E of Clinton. It was not an osprey, redtail, Swainson's nor roughleg.

Raccoon. Extensive digging along bank of Elk Creek about 1 foot above level of water.

Solitary sandpiper. One flew up stream, to convergence with stream piracy and after a second of confusion as to continue up main course of river or cut thru piracy channel, decided on channel but when it observed us at falls it flew almost straight up and