

Lawrence, Douglas Co., Kansas  
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 Feb. 10, 1969

Cardinal singing as if on territory.

Wakarusa Valley, SW Clinton, Douglas Co., Kansas  
~~Wakarusa Valley, SW Clinton, Douglas Co., Kansas~~  
 Feb. 15, 1969

Started road census at Sigel School house at 8:45 A.M. Mileage 40.0. Temp. 30°F. Slight wind from N. At 40.1 noted a flock of approx 40 Lapland Longspurs and 60 horned larks. The horned larks had considerable white across frontal. These birds were, at times in, a single flock but at other times subdivided into small groups. They fed on plowed field with snow covering except uppermost projections of the plowed soil. In contrast, the horned larks moved with body low and horizontal while the longspurs were more upright, more continuously and temporarily active and generally faster in movement. The usual group consisted of 8-10 horned larks and 3-5 longspur, both species freely intermingling. 40.8 8 blue jays, 1 red-bellied and 2 cardinals. 41.3 Wakarusa bridge, water open with dots of slush. At a point 20 or so feet downstream from N end of bridge is a refuse pile of corn and other grain (?) as a talus on the slope of the river. At this point and immediate areas of the farm yard were 43 cardinals, 5 blue jays, 1 redbellied woodpecker, 30 slate-colored juncos, 12 Harris sparrows. The attraction seemed to be the corn and the cardinals while the rest of the birds were there because of the cardinal aggregate which in turn was controlled by a food resource. 42.8 main Clinton road & now to W. 42.9 sparrow hawk. 43.4 8 tree sparrows. 45.7 Clinton. 46.4 3 blue jays, 2 cardinals. 46.8 2 blue jays. 47.3 now to S. red-tail. 48.4 base of hill and parked car. Field covered with snow of last night (approx. 3 1/2 inches) Left car at 10:10 A.M. and will survey hillside community of S side of Wakarusa valley. (see map of route). Will observe activity of animals by movement in snow. As it is <sup>sometimes</sup> difficult to distinguish between cottontail and fox squirrel in snow will assess numbers by relative numbers and average numbers per unit of distance. At road at car noted 3 crows and 8 tree sparrows. 4 rabbit tracks at edge of road. 10:12 tree sparrow and redtail circling at head of canyon. 10:15 good redtail nest to left near top of hill. 10:20 creek crossing, open (80%). Considerable clearing by forests on left side of creek up drainage. Squirrel crossed creek at this point. 10:21 9 tree sparrows. 10:27 Point