
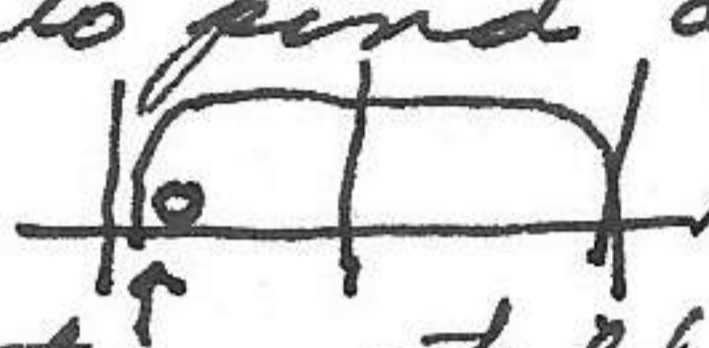


march 26, 1962

water 24' 1" below Louisiana Bridge on Wakarusa measured 

march 29, 1962

water 24' 6" below Louisiana Bridge over Wakarusa River as measured above. Water relatively clear and with heavy sediment of previous days. Recession lines in mud in last foot day but are about 1 inch apart. Higher on bank the drop is nearer a foot or so. It would be of considerable value to keep an hourly ^{or continuously} check on fluctuation of water as an expression of the dynamic influence of climate on the drainage system. This information would be of greater value than temp, wind, rain etc as recorded separately. On pond at SW corner of Haswell Bottom (SW Haswell Bottoms refers to pond at junction of Louisiana and Armstrong Roads.  5 spoonbills, 4 blue winged Teal laying eggs. Pseudacris nigrita still in full chorus. Last night there was an abrupt change in the temperature at about 9:45 P.M from a warm to chilling temperature. yesterday evening there were 3 pairs of grackles at 1613 Tennessee St in Lawrence. They were in tops of conifers but were not investigating trees as possible nesting sites. These trees are used by these bird every year. This year there are starling nesting in several holes.

Haswell Bottoms, 3 1/10 mi. S and 5/10 mi. W Lawrence (P.O.)
Douglas Co., Kansas

march 29, 1962

At 6:00 P.M noted approx. 275 geese (snows and blues) flying high to NNW. From near pond collected the following:

| | | | | | | |
|------------|----------------------|---|----------|------------|----------------------|------------------------|
| * 620329-1 | grackle | ♂ | 315 T.L. | 138 wt. | L. testis 6 x 2.9 mm | R. testis 4.9 x 3.5 mm |
| 620329-2 | grackle | ♀ | 297 T.L. | 124 gms | largest testis 5 mm | |
| * 620329-3 | swamp sparrow | ♂ | 139 T.L. | 18 gms. | R. testis 2 x 1.2 | L. testis 2.2 x 1.6 |
| 620329-4 | red-winged blackbird | ♀ | 233 T.L. | 65 gms. | wt. testis | 2.8 x 1.5 |
| * 620329-5 | fox sparrow | ♀ | TL. 178 | 35 gms wt. | ovary 1 mm long. | |

at 3 1/10 mi. S and 5/10 mi. E Lawrence (P.O.) noted several thousand grackles and redwings arriving to roosting grove just east of Haswell Avenue. Water completely inundates ground of grove and gives excellent protection to roosting birds.

4 1/10 mi. S and 2 2/10 mi. E Lawrence (P.O.), Douglas Co., Kansas

march 29, 1962

Collected one phoebe from along Coal Creek:

* 620329-6 phoebe. ♂ T.L. 175 - wt. 23 gms testis 3.3 x 2 right, left smaller
Also noted 1 fox sparrow and 1 swamp sparrow. These two birds