

April 7, 1963

withcatch: 441 end trail of moches, best seen so far. 6304 07-93
 2 bluebirds, male following ♀. 445 Grassing chick ^{but all look used, finch.} ^{can hear gold finch.}
 1 ♀ and 3 ♀♀ cardinal, 1 red bellied. 4:46 good grass to left. 4:50 house,
 2 cardinals. 4:55 road turns N. Good m. vobis in fields SE of house, old
 fields but not native, 2 phoebes, 2 cardinals, 4 sparrows sp?, 1 junco, 2 chickadees
 near house. 5:00 drainage from S. good micro-moches trails along edge of
 base of hill (should set traps to test, runway continuous, 2 cardinals. 5:02 red-
 tail, 5:03 graticatcher; 5:04 1 bluebird, 6 red-wings in top tree, 2 cardinals,
 1 chickadee. (Time out for lunch). ^{5:05} There has been a decided lack of meadow
 larks along route; they are more strictly an upland bird in their best
 community. On trail again at 5:25; 2 blue jays; 5:28 main road; 5:30
 N.H. owl good grass in canyon floor, fine grass but not many runways;
 5:35 bridge, 2 cardinals, red bellied, 1 meadow lark; 5:38 red bellied, 2
 jays; 5:40 leaving road, gooseberry in leaf & flower; 1 cardinal; 1 flicker,
 Symphoricarpos in leaf; 1 chickadee; 1 titmouse; 1 graticatcher; 5:45 1
 cottontail, 1 chickadee; 8 goldfinch, 2 cardinals, 1 hairy; 5:47 opposite
 (E) bridge along base hill; 5:50 Oregon junco, cardinal, titmouse
 5:51 red-bellied woodpecker; small bird outer tail feathers white, body green with
 grey & conspicuous eye ring; 2 cardinal, 1 red bellied, 1 titmouse, 2 mourning dove
 2 jays; 5:56 cardinal, 2 crow, 1 cardinal, 1 red bellied; 2 blue jays.
 6:00 red tail left nest; 6:01 cardinal, 6:04 cardinal 6:05 red-tail voted
 at 6:00 returned to nest; 6:08 painted rump; 6:09 red bellied, 2 cardinals
 bridge at 6:15, 1 red bellied. From bridge Annette was there with car.
 We travelled S, thence E, thence N to Clinton.

Univ. Kansas, Lawrence, Kansas
 April 8, 1963

Five male English Sparrows were chasing a single female English Sparrow. The course was erratic and about 3 feet from ground. The female was forced down and the 5 males started to chase the female and ^{to} fight among themselves. They formed a circle around the female at about 6 inches away. Copulation was attempted several times and one was successful. After about 1 minute of this activity the female flew and was again forced to the ground where the same kind of performance took place. A sixth male sparrow attempted to join the group but was forced away by the males. Whether all the males participated in the copulation act was not ascertained but it appeared as if they did.

5 3/4 mi. W and 9/20 mi. S Clinton (center of town), Douglas County, Kansas.

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Annette and I made trip to Topeka in afternoon and on return set 100 traps at the above locality. The exact locality