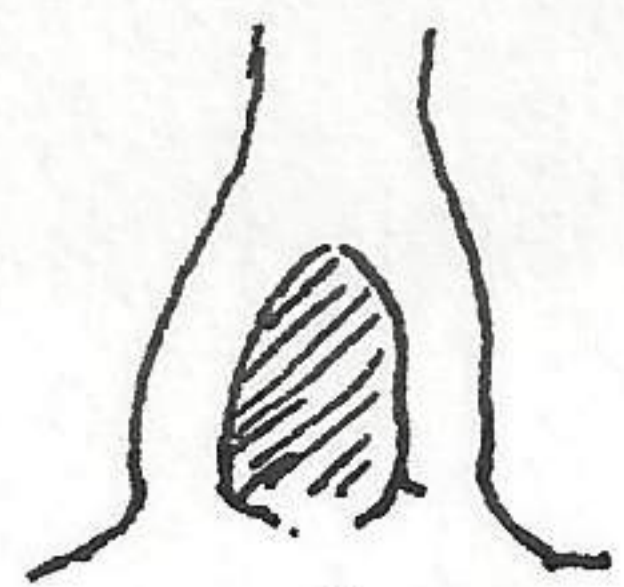


insect hollow base. This tree has unusual repair of old scar.



This tree measured 147 inches in circumference at breast height. Photo 710519-6 old oak tree in late stages of deterioration. Photo 710519-7

of hickory leaves and general forest and drainage creek in background. 710519-8 effect of root system of tree on erosion of creek. 710519-9 elm with pathological surface & bark.

710519-10 old house along w side of drainage. X 710519-11 elm with sky and clouds as background, just n of residence on Peterson road. & 710519-110V ^{and 710519-120} cross-sections of elm where chuck-will widow inhabits 710519-12 Elm tree used by redheaded woodpecker.


Birds observed today in field and wooded area are: purple martin, meadowlark, dickcissel, catbird, grackle, cardinal, warbling vireo, bobwhite, eastern kingbird, English sparrow, Baltimore oriole, brown thrasher, indigo bunting, great crested flycatcher, titmouse, Kentucky warbler, red-bellied woodpecker, red-eyed vireo, bluebird, eastern wood pewee, black capped chickadee, mourning dove, Carolina wren, Swainson thrush, western kingbird. Set 12 line traps along fence line between turnpike & field to W of K.P. Right-of-way.

1 2/10 mi. n and 1 3/10 mi. W Lawrence (P.O.), Douglas Co., Kansas

May 20, 1971

Collected mammals from trapline (12) set as above:

	<u>710520-1</u>	<i>Synaptornis cooperi</i>	115-16-18-9-28 gms ♀ wt. normal
	<u>710520-2</u>	" "	122-19-20-11-29 gms ♂ testes 6 mm
m. only	<u>710520-3</u>	<i>Peromyscus maniculatus</i>	132-54-19-13-10 gms testes 7 mm
S. ow	<u>710520-4</u>	<i>Sigmodon hispidus</i>	233-92-31-17-120 gms ♂ testes 19 mm
	<u>710520-5</u>	<i>Sigmodon hispidus</i>	262-112-31-18-139 gms ♂ testes 19 mm
	<u>710520-6</u>	<i>Microtus ochrogaster</i>	142-33-19-12-28 gms ♂ testes 11 mm

Hip gland of 710520-2 is 10x7 black and 6x4 white 

Birds in field and wooded area: Bell's vireo, brown thrasher, dickcissel, meadowlark, robin, purple martin, bronze grackle, cowbird, catbird, red-bellied woodpecker, cardinal, mockingbird, bluejay, mourning dove, bobwhite, great crested flycatcher, indigo bunting, b.c. chickadee, eastern wood pewee, red-eyed vireo, rose-breasted grosbeak, house wren, starling, eastern kingbird, chimney swift, warbling vireo, Kentucky warbler, English sparrow, Baltimore oriole, titmouse, hairy woodpecker, redhead. Observed a female Cowbird at a newly constructed Baltimore oriole nest (in sycamore approx 30' high, that is the nest height). The bird nervously moved back and forth in front of the nest at about 1 foot away. It did not enter the nest nor did the orioles defend the nest.