

Habitat Model for Species: **Thirteen-lined Ground Squirrel** *Spermophilus tridecemlineatus*

[Distribution Map](#) [Habitat Map](#)

Landcover Category

0 - Comments

[#Reviewer]

Habitat Restrictions

Comments

Finck : Add Lyon Co.

08 - Bur Oak Floodplain Woodland

Beck and Vogl, 1972

unburned woodland described as oak savanna - MARGINAL habitat, but burned area in similar habitat had more grass (Andropogon, Schizachyrium, Poa) and were considered optimal habitat for this species

12 - Sandsage Shrubland

Fleharty and Navo, 1983

Moulton et al., 1981

Higgins and Stapp, 1997

McCulloch, 1962

MARGINAL habitat (1 squirrel)

grazed sand sagebrush is SUBOPTIMAL habitat

SUBOPTIMAL habitat, but most individuals associated with low flat areas and sites with less sandy soils

13 - Saltbush - Grama Shrubland - not mapped

Higgins and Stapp, 1997

17 - Tallgrass Prairie

Keyse, 1967

Clark et al., 1992

Kirsch, 1997

Finck et al., 1986

Clark et al., 1998

McMillan and Kaufman, 1994

MARGINAL habitat

prefer breaks over upland and lowland prairie sites, greater abundance in burned than unburned prairie

MARGINAL habitat - 4 individuals captured

most abundant on woody limestone outcrops, prefer uplands and limestone breaks over lowlands

MARGINAL habitat - 2 captures

MARGINAL habitat - 6 individuals

19 - Sandstone Prairie - not mapped

Phillips, 1936

density of dens highest in mowed hayfields and moderately overgrazed pastures, but heavily overgrazed pasture and undisturbed prairie were SUBOPTIMAL

20 - Western Wheatgrass Prairie

Deisch et al., 1990

Kozel and Fleharty, 1979

22 - Mixed Prairie

Brown, 1946

Frydendall, 1969

Kaufman et al., 1990

Kaufman and Fleharty, 1974

Kaufman and Kaufman, 1989

Kaufman and Kaufman, 1990

Kaufman et al., 2000

Kaufman and Kaufman, 2000

Schnell et al., 1980

Kozel and Fleharty, 1979

Fleharty and Channell, 1997

Lock, 1966

Whitmer, 1966

present, but no numbers given

upland prairie considered SUBOPTIMAL, but limestone breaks OPTIMAL

limestone breaks grazed by cattle - SUBOPTIMAL habitat

grazed mixedgrass a MARGINAL habitat - 1 individual

moderately grazed grassland a MARGINAL habitat - 1 individual

MARGINAL habitat

MARGINAL habitat; a few individuals captured

Watts, 1983
Valek, 1985

present, but no information on abundance given
no plant species given, association chosen based on
'relict prairie' and location - MARGINAL habitat (7
squirrels)

Welker, 1994
Bogan, 1966
Smith, 1967

MARGINAL habitat
preferred grazed areas to nongrazed areas
present and associated with 40-acre prairie dog town,
but no numbers given

25 - Shortgrass Prairie

Keyse, 1967
Brown, 1946
Choate and Fleharty, 1975
Moulton et al., 1981

MARGINAL habitat
present, but no numbers given

Higgins and Stapp, 1997
Flake, 1973
Kozel and Fleharty, 1979
Fleharty and Channell, 1997
Mellott, 1984

grazed shortgrass OPTIMAL, but ungrazed
shortgrass MARGINAL habitat

SUBOPTIMAL habitat
shortgrass pasture is MARGINAL, shortgrass
roadside ditches are SUBOPTIMAL

31 - Freshwater Marsh

Pendleton and Davison, 1982

MARGINAL habitat - 3 individuals

33 - Cattail Marsh

Pendleton and Davison, 1982

MARGINAL habitat - 3 individuals

40 - Non-native Grassland

Haner et al., 1996

habitat was triangles along interstate interchange
maintained by mowing and periodic spraying and was
MARGINAL at best

44 - Cultivated Land

Kirsch, 1997

cornfield a MARGINAL habitat - 2 individuals captured

Kaufman and Kaufman, 1989

post-harvest wheatfields fallow wheat-sorghum field a
MARGINAL habitat - 1 individual

Kaufman and Kaufman, 1990

crops: wheat & fallow wheat; SUBOPTIMAL habitat (2
in wheat, 1 in fallow wheat)

Navo and Fleharty, 1983
Kaufman et al., 2000

wheatfield is MARGINAL habitat - 2 captures
fallow wheat-sorghum field a MARGINAL habitat - 1
individual

Whitaker, 1972

clover (*Trifolium*) appeared in diet, so likely was a
hayfield nearby

Fleharty and Channell, 1997

crops wheat stubble to grain sorghum to wheat -
MARGINAL habitat

Cristoffer, 1984

crops: stubble phase of winter wheat-sorghum-fallow
rotation; MARGINAL habitat

Valek, 1985

crops: wheat stubble, grain sorghum, sorghum stubble,
wheat-MARGINAL habitat (3 squirrels)

Welker, 1994

crops: winter wheat, soybean- MARGINAL habitat (0.7 -
0.6 individs per 100 trapnights)

60 - Mixed Prairie-Disturbed Land

Choate and Fleharty, 1975
Kaufman and Fleharty, 1974

prefers overgrazed mixedgrass prairie

Kaufman and Kaufman, 1989	disturbed land was fencerows - these were SUBOPTIMAL habitat
Kaufman and Kaufman, 2000	disturbed area included small quarry and associated spoil bank
Kozel and Fleharty, 1979 Clark et al., 1996	grazed pastures represent MARGINAL habitat - 1 individual captured
Fleharty and Channell, 1997 Whitmer, 1966	MARGINAL habitat

71 - Weedy Upland

Kaufman et al., 1990

81 - Urban Areas

Choate and Fleharty, 1975

authors note species occurs on schoolyards, golf courses, lawns and in parks and closely mowed roadside ditches

Choate and Hays, 1966

locale was Lincoln Park in Pittsburg, KS

Whitaker, 1972

lawns, golf courses and roadsides were locations of captures

McCarley, 1966

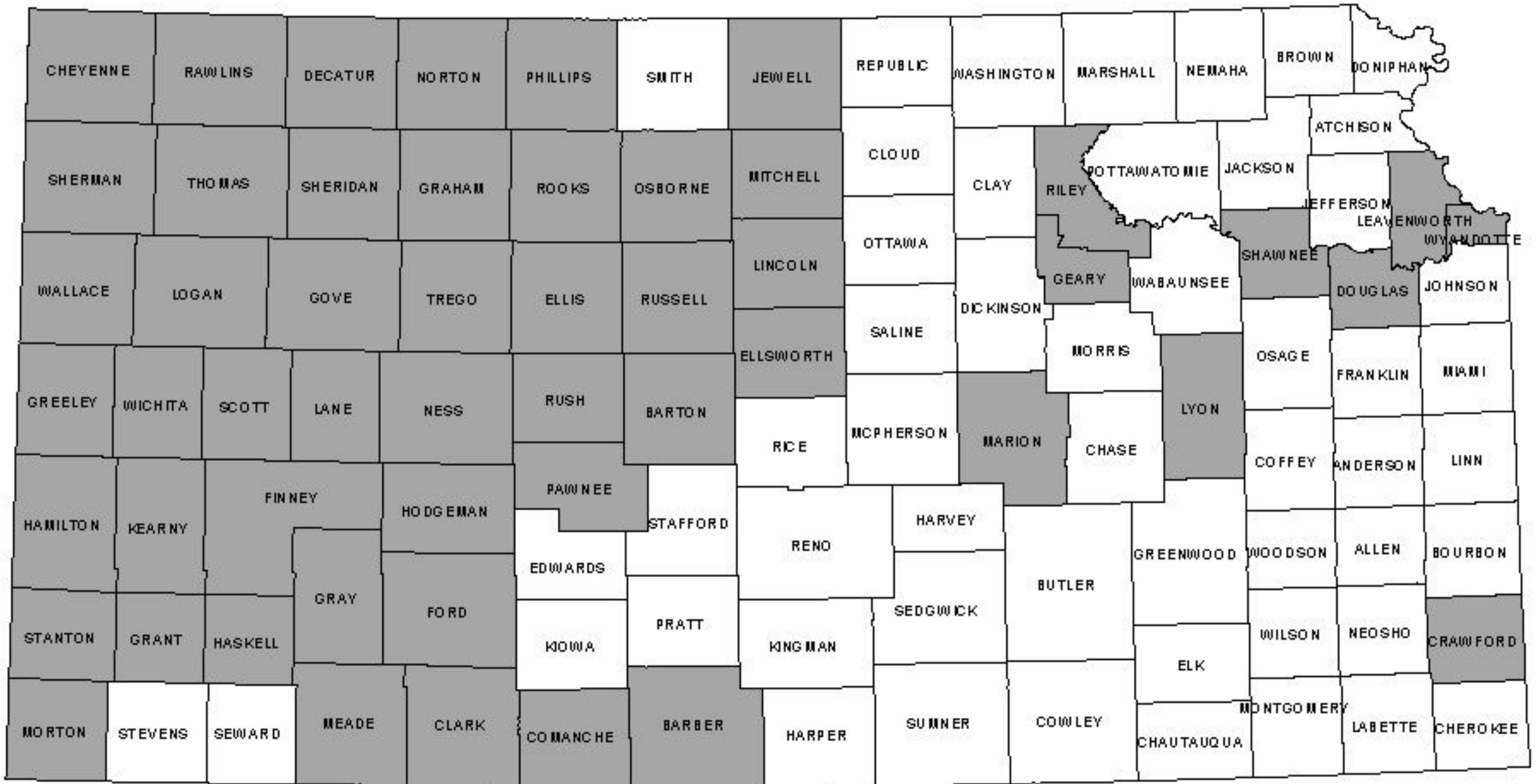
on golf courses, mowed areas were optimal, the rough was SUBOPTIMAL, and rough with tallest grass was MARGINAL

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Thirteen-lined Ground Squirrel



Recorded presence
 No records

Recorded distribution include specimen records and observations collected during 1941-2000 from University of Kansas Museum of Natural History, Sternberg Museum of Natural History, a large to mid-sized mammal survey conducted by regional biologists and conservation officers from the Kansas Department of Wildlife and Parks, and personal observations from professional mammalogists.

[Habitats](#)

[Habitat Map](#)

Thirteen-lined Ground Squirrel

