



Southwest Regional Gap Analysis Wildlife Habitat Relationship

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|-------------------------|--------------------------|-------------------------|----------------------|
| ID | 1931 | Model Name | SWReGAP 173429 |
| Taxa code (ITIS) | 173429 | | |
| Scientific Name | Scaphiopus couchii | | |
| Common Name | Couch's spadefoot | | |
| Created By | lobrien | Last Modified By | cmettenbrink |
| Date | 1/1/2004 | Date | 7/28/2005 2:57:47 PM |
| Sensitive Data | <input type="checkbox"/> | | |

Model Description Couch's Spadefoot
Scaphiopus couchii
Entire Range
SWREGAP Final Model

Background Scaphiopus couchii are found in southwestern U.S. and much of northern Mexico (Hammerson 1999). Inhabits shortgrass prairie, mesquite savanna, creosote bush desert, thorn forest, and tropical deciduous forest (w. Mexico) and other areas of low rainfall (Stebbins 2003). Degenhardt et al. (1996) states that *S. couchii* is probably the most xeric adapted of all the North American anurans. In Colorado, *Scaphiopus couchii* inhabits southeastern shortgrass prairie ecosystems at elevations of 1,160- 1370m (Hammerson 1999). In New Mexico it occupies arid grasslands and areas grown to creosotebush and mesquite, where soils are sandy and well drained (Degenhardt et al. 1996). Also found in irrigated agricultural lands of the larger river valleys, and often abundant on desert roadways after rain (Degenhardt et al. 1996). In White Sands National Monument it was found that they may bury themselves in gypsum sands (Degenhardt 1996). In New Mexico, found at elevations from 900m to 1800m (Degenhardt et al. 1996). Stebbins (2003) reports this species from sea level to 1800m. Burrows underground or occupies rodent burrows when inactive (Natureserve). Eggs and larvae develop in temporary pools formed after heavy rains (Natureserve).

Description Changes Import of CO-GAP data; SWReGAP Internal Review 2004- changed max elevation to 1800m (Stebbins 2003 and Degenhardt et al. 1986) and added landform 1-3; added 62, 98 based on Degenhardt et al.; CO CWCS Review 2005 added wetlands- S120, S100; CO species expert review made changes to the range map, added S074 and removed S089 and S087;

Relationships

| | |
|--------------------------|--|
| Elevation | 0 - 1800; |
| Slope Min | n/a |
| Precipitation | n/a |
| Temperature | n/a |
| Soil Depth | n/a |
| Aspect | n/a |
| Landform | valley flats; toe slopes, bottoms, and swales; gently sloping ridges and hills; |
| Distance to Water | n/a |
| Soil associations | n/a |
| Mountain Ranges | n/a |
| Ecological System | S058 Apacherian-Chihuahuan Mesquite Upland Scrub S062 Chihuahuan Creosotebush, Mixed Desert and Thorn Scrub S069 Sonora-Mojave Creosotebush-White Bursage Desert Scrub S074 Southern Rocky Mountain Juniper Woodland and Savanna S077 Apacherian-Chihuahuan Piedmont Semi-Desert Grassland and Steppe S086 Western Great Plains Foothill and Piedmont Grassland S088 Western Great Plains Shortgrass Prairie S090 Inter-Mountain Basins Semi-Desert Grassland S098 North American Warm Desert Riparian Mesquite Bosque S100 North American Arid West Emergent Marsh S109 Chihuahuan-Sonoran Desert Bottomland and Swale Grassland S113 Chihuahuan Sandy Plains Semi-Desert Grassland S120 Western Great Plains Floodplain Herbaceous Wetland |

Citations

NatureServe 2003 NatureServe Explorer: An online encyclopedia of life (web application). Version 1.8

Hammerson, Geoffrey A 1999 Amphibians and reptiles in Colorado, second edition University Press of Colorado and Colorado Division of Wildlife, Niwot, Colorado. 484 pages

Painter, Charles and Leland Pierce 2000 Expected Ranges of New Mexico Amphibians and Reptiles NMHERP; Archive on CD for ArcView GIS

Stebbins, R.C 2003 A field guide to western reptiles and amphibians. Third Edition Houghton Mifflin, Boston

Degenhardt, William G., Charles W. Painter, and Andrew H. Price 1996 Amphibians and reptiles of New Mexico University of New Mexico Press, Albuquerque, New Mexico. 429 pages

Blair, Kathleen 2005 Species list of the Bill Williams River National Wildlife Refuge. Unpublished data.

Livo, Lauren 2005 Species expert review and personal communication.