



# Southwest Regional Gap Analysis Wildlife Habitat Relationship

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<b>ID</b> 2735	<b>Model Name</b> SWReGAP -3
<b>Taxa code (ITIS)</b> -3	
<b>Scientific Name</b> Myotis occultus	
<b>Common Name</b> ARIZONA MYOTIS	
<b>Created By</b> sproeck	<b>Last Modified By</b> sproeck
<b>Date</b> 4/14/2005 2:15:15 PM	<b>Date</b> 4/18/2005 1:07:55 PM

**Sensitive Data**

**Model Descriptio** LANDCOVER OR HYDROLOGY

**Background** In Arizona, *M. occultus* usually occurs in ponderosa pine, or oak-pine woodland (Hoffmeister 1986). It is a resident of fir, spruce, and ponderosa pine forests (Barbour and Davis 1969). Uses desert scrub, ponderosa pine, spruce-fir, and deciduous and coniferous riparian habitats (New Mexico Department of Game and Fish 2004). A nursery colony was found among cottonwoods, willows, and sycamores on the middle Verde River (Hoffmeister 1986). Bridges and buildings may be used as roosts (Barbour and Davis 1969). Nursery roosts are generally within buildings (Chapman and Feldhamer 1982). It also occurs along permanent water or riparian forest in desert areas such as the lower Colorado or Verde rivers (Arizona Game and Fish Department 2003). The species is frequently found near sources of water (Hoffmeister 1986). Several little brown myotis were captured at Bosque del Apache National Wildlife Refuge in New Mexico 8 miles south of their church colony (Chung-MacCoubrey 1999). Roosts were not found in pure saltcedar stands or mixed saltcedar and cottonwood stands, possibly because the dense understory would hinder flight (Chung-MacCoubrey 1999). At low elevations this species foraged in has been observed foraging in an orchard and beneath cottonwoods; at higher elevations it forages over ponds and in clearings among pines (Barbour and Davis 1969). Winter hibernacula are caves and mines with cool, stable temperatures and high humidity (Chapman and Feldhamer 1982). In Arizona, this species is commonly found between 1,830 and 2,806 m, though they have been recorded from 46 to 305 m along the lower Colorado River and around 1,068 m at the middle Verde River (Arizona Game and Fish Department 2003). *M. occultus* is found along the Colorado River and across northern and eastern Arizona (Bat Conservation International 2002, Adams 2003). Individuals from Rio Grande and Las Animas counties in southern Colorado appear to be *M. occultus* (Piaggio et al. 2002). *M. occultus* is known from low elevation riparian areas in the Rio Grande Valley and montane highlands in New Mexico (Piaggio et al. 2002). It occurs in southwestern New Mexico, east through the Sacramento Mountains and north to the Zuni and Sandia Mountains, but distributional limits remain uncertain (Frey 2004). There is a possibility that this species is present in southwestern Utah (Bogan and Chung-MacCoubrey 2005).

**Description Changes** Added land cover classes 6, 8, 10, 13, 14, 16, 18, 20, 22, 23, 38, 39, 46, 47, 54, 58, 62, 65, 68, 74, 75, 77, 79, 80, 86, 88, 90, 91, 92, 100, 109, 112, 113, 115, 116, and 138 (NM CWCS Review 2005). Edited range map (Bogan and Chung-MacCoubrey 2005).

## Relationships

<b>Elevation</b>	n/a
<b>Slope Min</b>	n/a
<b>Precipitation</b>	n/a
<b>Temperature</b>	n/a
<b>Soil Depth</b>	n/a
<b>Aspect</b>	n/a
<b>Landform</b>	n/a
<b>Distance to Water</b>	0 - 100m from Permanent Streams, Lakes
<b>Soil associations</b>	n/a
<b>Mountain Ranges</b>	n/a
<b>Ecological System</b>	S006 Rocky Mountain Cliff and Canyon S008 Western Great Plains Cliff and Outcrop S010 Colorado Plateau Mixed Bedrock Canyon and Tableland S013 Inter-Mountain Basins Volcanic Rock and Cinder Land S014 Inter-Mountain Basins Wash S016 North American Warm Desert Bedrock Cliff and Outcrop S018 North American Warm Desert Active and Stabilized Dune S020 North American Warm Desert Wash S022 North American Warm Desert Playa S023 Rocky Mountain Aspen Forest and Woodland S028 Rocky Mountain Subalpine Dry-Mesic Spruce-Fir Forest and Woodland S030 Rocky Mountain Subalpine Mesic Spruce-Fir Forest and Woodland S032 Rocky Mountain Montane Dry-Mesic Mixed Conifer Forest and Woodland S034 Rocky Mountain Montane Mesic Mixed Conifer Forest and Woodland S035 Madrean Pine-Oak Forest and Woodland S036 Rocky Mountain Ponderosa Pine Woodland S038 Southern Rocky Mountain Pinyon-Juniper Woodland S039 Colorado Plateau Pinyon-Juniper Woodland S046 Rocky Mountain Gambel Oak-Mixed Montane Shrubland S047 Rocky Mountain Lower Montane-Foothill Shrubland S054 Inter-Mountain Basins Big Sagebrush Shrubland S058 Apacherian-Chihuahuan Mesquite Upland Scrub

S062 Chihuahuan Creosotebush, Mixed Desert and Thorn Scrub  
 S065 Inter-Mountain Basins Mixed Salt Desert Scrub  
 S068 Chihuahuan Stabilized Coppice Dune and Sand Flat Scrub  
 S074 Southern Rocky Mountain Juniper Woodland and Savanna  
 S075 Inter-Mountain Basins Juniper Savanna  
 S077 Apacherian-Chihuahuan Piedmont Semi-Desert Grassland and Steppe  
 S079 Inter-Mountain Basins Semi-Desert Shrub Steppe  
 S080 Chihuahuan Gypsophilous Grassland and Steppe  
 S086 Western Great Plains Foothill and Piedmont Grassland  
 S088 Western Great Plains Shortgrass Prairie  
 S090 Inter-Mountain Basins Semi-Desert Grassland  
 S091 Rocky Mountain Subalpine-Montane Riparian Shrubland  
 S092 Rocky Mountain Subalpine-Montane Riparian Woodland  
 S093 Rocky Mountain Lower Montane Riparian Woodland and Shrubland  
 S094 North American Warm Desert Lower Montane Riparian Woodland and Shrubland  
 S095 Western Great Plains Riparian Woodland and Shrubland  
 S097 North American Warm Desert Riparian Woodland and Shrubland  
 S100 North American Arid West Emergent Marsh  
 S109 Chihuahuan-Sonoran Desert Bottomland and Swale Grassland  
 S111 Madrean Upper Montane Conifer-Oak Forest and Woodland  
 S112 Madrean Pinyon-Juniper Woodland  
 S113 Chihuahuan Sandy Plains Semi-Desert Grassland  
 S115 Madrean Juniper Savanna  
 S116 Chihuahuan Mixed Salt Desert Scrub  
 S138 Western Great Plains Mesquite Woodland and Shrubland  
 N21 Developed, Low Intensity  
 N22 Developed, Medium - High Intensity  
 N80 Agriculture

## Citations

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