

Appendix

The following pages are a list of all organisms that have been observed in Vistoso Trails Nature Preserve, uploaded to iNaturalist, and attained “Research-grade” status. The latter means that the community consensus is that the organism is of a particular species.

The lists are arranged alphabetically by scientific name within the broad categories of mammals, reptiles, amphibians, birds, invertebrates, plants, and fungi. Some of the organisms in the guide have not attained Research-grade status on iNaturalist and, as such, are not yet on these lists. This is generally because they have not been identified to the species level. This is especially true of the insects and the fungi.

The scientific name of each species listed here is hyperlinked (if viewing online) to a set of iNaturalist observations of that species within Vistoso Trails Nature Preserve.

Mammals

| <u>Common Name</u> | <u>Scientific Name</u> |
|------------------------------|--------------------------------------|
| Harris' Antelope Squirrel | <i>Ammospermophilus harrisi</i> |
| Coyote | <i>Canis latrans</i> |
| Desert Pocket Mouse | <i>Chaetodipus penicillatus</i> |
| Merriam's Kangaroo Rat | <i>Dipodomys merriami</i> |
| Bobcat | <i>Lynx rufus</i> |
| Long-legged Myotis | <i>Myotis volans</i> |
| White-throated Woodrat | <i>Neotoma albigula</i> |
| Mule Deer | <i>Odocoileus hemionus</i> |
| Collared Peccary | <i>Pecari tajacu</i> |
| Arizona Cotton Rat | <i>Sigmodon arizonae</i> |
| Desert Cottontail | <i>Sylvilagus audubonii</i> |
| Botta's Pocket Gopher | <i>Thomomys bottae</i> |
| Round-tailed Ground Squirrel | <i>Xerospermophilus tereticaudus</i> |
| Cactus Mouse | <i>Peromyscus eremicus</i> |

Reptiles

Common Name

Western Whiptail
Zebra-tailed Lizard
Western Banded Gecko
Western Diamond-backed Rattlesnake
Sonoran Desert Tortoise
Desert Nightsnake
California King Snake
Coachwhip
Regal Horned Lizard
Saddled Leafnose Snake
Gopher Snake
Long-nosed Snake
Desert Spiny Lizard
Ornate Tree Lizard

Scientific Name

Aspidoscelis tigris
Callisaurus draconoides
Coleonyx variegatus
Crotalus atrox
Gopherus morafkai
Hypsiglena chlorophaea
Lampropeltis californiae
Masticophis flagellum
Phrynosoma solare
Phyllorhynchus browni
Pituophis catenifer
Rhinocheilus lecontei
Sceloporus magister
Urosaurus ornatus

Amphibians

Common Name

Great Plains Toad

Red-spotted Toad

Sonoran Desert Toad

Couch's Spadefoot

Scientific Name

Anaxyrus cognatus

Anaxyrus punctatus

Incilius alvarius

Scaphiopus couchii

Birds

Common Name

Cooper's Hawk
Black-throated Sparrow
Verdin
Lesser Scaup*
Great Horned Owl
Red-tailed Hawk
Gambel's Quail
Anna's Hummingbird
Costa's Hummingbird
Cactus Wren
Wilson's Warbler
Northern Cardinal
Pyrrhuloxia
Turkey Vulture
Lesser Nighthawk
Western Wood-Pewee
Ruby-crowned Kinglet
Common Raven
Broad-billed Hummingbird
Ladder-backed Woodpecker
American Kestrel
Greater Roadrunner
House Finch

Scientific Name

Accipiter cooperii
Amphispiza bilineata
Auriparus flaviceps
*Aythya affinis**
Bubo virginianus
Buteo jamaicensis
Callipepla gambelii
Calypte anna
Calypte costae
Campylorhynchus brunneicapillus
Cardellina pusilla
Cardinalis cardinalis
Cardinalis sinuatus
Cathartes aura
Chordeiles acutipennis
Contopus sordidulus
Corthylio calendula
Corvus corax
Cyananthus latirostris
Dryobates scalaris
Falco sparverius
Geococcyx californianus
Haemorhous mexicanus

Birds

Common Name

Bullock's Oriole
Hooded Oriole
Loggerhead Shrike
Lucy's Warbler
American Wigeon*
Western Screech-Owl
Gila Woodpecker
Abert's Towhee
Northern Mockingbird
Bronzed Cowbird
Brown-headed Cowbird
Ash-throated Flycatcher
Brown-crested Flycatcher
Ruddy Duck*
Harris's Hawk
House Sparrow
Rufous-winged Sparrow
Phainopepla
Black-headed Grosbeak
Green-tailed Towhee
Western Tanager
Blue-gray Gnatcatcher

Scientific Name

Icterus bullocki
Icterus cucullatus
Lanius ludovicianus
Leiothlypis luciae
*Mareca americana**
Megascops kennicottii
Melanerpes uropygialis
Melospiza aberti
Mimus polyglottos
Molothrus aeneus
Molothrus ater
Myiarchus cinerascens
Myiarchus tyrannulus
*Oxyura jamaicensis**
Parabuteo unicinctus
Passer domesticus
Peucaea carpalis
Phainopepla nitens
Pheucticus melanocephalus
Pipilo chlorurus
Piranga ludoviciana
Polioptila caerulea

Birds

Common Name

Black-tailed Gnatcatcher
Vermilion Flycatcher
Say's Phoebe
Yellow-rumped Warbler
Black-throated Gray Warbler
Mountain Bluebird
Western Bluebird
Northern Shoveler*
Lesser Goldfinch
Brewer's Sparrow
Northern Rough-winged Swallow
Curve-billed Thrasher
American Robin
Western Kingbird
Bell's Vireo
Warbling Vireo
White-winged Dove
Mourning Dove
White-crowned Sparrow

Scientific Name

Polioptila melanura
Pyrocephalus rubinus
Sayornis saya
Setophaga coronata
Setophaga nigrescens
Sialia currucoides
Sialia mexicana
*Spatula clypeata**
Spinus psaltria
Spizella breweri
Stelgidopteryx serripennis
Toxostoma curvirostre
Turdus migratorius
Tyrannus verticalis
Vireo bellii
Vireo gilvus
Zenaida asiatica
Zenaida macroura
Zonotrichia leucophrys

*Birds with an asterisk are typically only found near bodies of water. The former golf course maintained a lake that attracted these birds. As the lake is now gone, so too are the waterfowl.

Arachnids

Common Name

Desert Blonde Tarantula
Arizona Bark Scorpion
Desert Hairy Scorpion
Carolina Wolf Spider
Western Black Widow
Western Spotted Orbweaver
Giant Crab Spider
Tailless Whip Scorpion
Stripe-tailed Scorpion
Green Lynx Spider
Jumping Spider
Superstition Mountains Scorpion

Scientific Name

Aphonopelma chalcodes
Centruroides sculpturatus
Hadrurus arizonensis
Hogna carolinensis
Latrodectus hesperus
Neoscona oaxacensis
Olios giganteus
Paraphrynus carolynae
Paravaejovis spinigerus
Peucetia viridans
Phidippus californicus
Superstitionia donensis

A large number of our iNaturalist arachnid observations have not yet been fully identified or looked over by the community. Those can be viewed here:

[https://www.inaturalist.org/observations?
place_id=181375&quality_grade=needs_id&subview=table&iconic_taxa=Arachnida](https://www.inaturalist.org/observations?place_id=181375&quality_grade=needs_id&subview=table&iconic_taxa=Arachnida)

Insects

Common Name

Desert Leaf-cutter Ant
Longhorn Beetle
Western Honey Bee
Palmer's Metalmark
Sand Cockroaches
Megachiline Leafcutter Bees
Empress Leilia
Schwarz's Shieldback
Peridot Sweat Bee
Pipevine Swallowtail
Parasitic Wasp
Dark Rover Ant
Bellied Antlion
Deduced Graphic Moth
Dried Fruit Beetle
Red-legged Oil-Digger
Hoverfly
Figeater Beetle
Acrobat Ants
Death-feigning Beetle
Queen

Scientific Name

Acromyrmex versicolor
Aethecerinus latecinctus
Apis mellifera
Apodemia palmerii
Genus *Arenivaga*
Genus *Ashmeadiella*
Asterocampa leilia
Ateloplus schwarzi
Augochlorella pomoniella
Battus philenor
Brachymeria podagrica
Brachymyrmex patagonicus
Brachynemurus abdominalis
Bulia deducta
Carpophilus hemipterus
Centris rhodopus
Copestylum apiciferum
Cotinis mutabilis
Genus *Crematogaster*
Cryptoglossa variolosa
Danaus gilippus

Insects

Common Name

Palo Verde Root Borer
Picture-winged Fly
Southern Chimney Bee
Scrub Cicadas
Bicolored Pyramid Ant
Reakirt's Blue
Robber Flies
Desert Stink Beetles
Staghorn Cholla Moth
Bee Fly/Humblefly
Forelius Ants
Forsebia Moth
Tropical House Cricket
Ceraunus Blue
Heteranassa Moth
Bomber Fly
Scavenger Scarab Beetle
Fiery Skipper
White-lined Sphinx Moth
Eight-spotted Lady Beetle
Elegant Bush Katydid

Scientific Name

Derobrachus hovorei
Diacrita costalis
Complex *Diadasia australis*
Genus *Diceroprocta*
Dorymyrmex bicolor
Echinargus isola
Genus *Efferia*
Genus *Eleodes*
Euscirrhopterus cosyra
Exoprosopa agassizii
Genus *Forelius*
Forsebia cinis
Gryllodes sigillatus
Hemiargus ceraunus
Heteranassa mima
Heterostylum robustum
Hybosorus illigeri
Hylephila phyleus
Hyles lineata
Hyperaspis octonotata
Insara elegans

Insects

Common Name

Leaf-footed Bug
Marine Blue
American Snout
Obscure Ground Mantis
Orange-tipped Woodborer
Bloody Net-winged Beetle
Rustic Sphinx
Leafcutter, Mortar, and Resin Bees
Indomitable Graphic Moth
Glowworms and Fireflies
Giant Cactus Longhorn Beetle
Leaf-footed Bugs
Desert Harvester Ant
Bicolored Chloraspilates Moth
Pale-winged Desert Cicada
Large Milkweed Bug
Wandering Glider
Spot-winged Glider
Western Giant Swallowtail
Thisbe's Tarantula-hawk Wasp
Blunt-spined Big-headed Ant

Scientific Name

Leptoglossus zonatus
Leptotes marina
Libytheana carinenta
Litaneutria ocularis
Lithurgopsis apicalis
Lycus sanguineus
Manduca rustica
Genus *Megachile*
Melipotis indomita
Genus *Microphotus*
Moneilema gigas
Narnia femorata
Novomessor cockerelli
Numia bicoloraria
Okanagodes gracilis
Oncopeltus fasciatus
Pantala flavescens
Pantala hymenaea
Papilio rumiko
Pepsis thisbe
Pheidole obtusospinosa

Insects

| <u>Common Name</u> | <u>Scientific Name</u> |
|---------------------------|------------------------------------|
| Rough Harvester Ant | <i>Pogonomyrmex rugosus</i> |
| Golden Paper Wasp | <i>Polistes aurifer</i> |
| Yellow Paper Wasp | <i>Polistes flavus</i> |
| Bird-Dropping Moth | <i>Ponometia cuta</i> |
| Pretty Bird-Dropping Moth | <i>Ponometia venustula</i> |
| Checkered White | <i>Pontia protodice</i> |
| Robber Fly | <i>Saropogon bryanti</i> |
| Gray Bird Grasshopper | <i>Schistocerca nitens</i> |
| Turkestan Cockroach | <i>Shelfordella lateralis</i> |
| Arizona Mantis | <i>Stagmomantis limbata</i> |
| Gray Hairstreak | <i>Strymon melinus</i> |
| Hubbard's Silk Moth | <i>Syssphinx hubbardi</i> |
| Barrel Cactus Longhorn | <i>Svastra duplocincta</i> |
| Iron Cross Blister Beetle | <i>Tegrodera aloga</i> |
| Cruel Toxonprucha | <i>Toxonprucha crudelis</i> |
| Pallid-winged Grasshopper | <i>Trimerotropis pallidipennis</i> |
| Western Carpenter Bee | <i>Xylocopa californica</i> |
| Valley Carpenter Bee | <i>Xylocopa sonorina</i> |
| Zaleops Moth | <i>Zaleops umbrina</i> |
| Braconid Wasp | <i>Zelomorpha arizonensis</i> |
| Four-spurred Assassin Bug | <i>Zelus tetracanthus</i> |

Insects

A large number of our iNaturalist insect observations have not yet been properly identified or looked over by the community. Those can be viewed here:

[https://www.inaturalist.org/observations?
place_id=181375&quality_grade=needs_id&subview=table&iconic_taxa=Insecta](https://www.inaturalist.org/observations?place_id=181375&quality_grade=needs_id&subview=table&iconic_taxa=Insecta)

Other Invertebrates

| <u>Common Name</u> | <u>Scientific Name</u> |
|-------------------------|-------------------------------|
| Common Desert Centipede | <i>Scolopendra polymorpha</i> |

Note: Other invertebrates (insects, arachnids, and beyond) have been observed, but getting community consensus on IDs to species level is extremely challenging. You can see a partial list of myriapods here:

[https://www.inaturalist.org/observations?
place_id=181375&subview=table&taxon_id=144128](https://www.inaturalist.org/observations?place_id=181375&subview=table&taxon_id=144128)

Plants

Common Name

Shrubby Indian Mallow

Pelotazo

Willow Acacia

Dwarf Desert Peony

Brownfoot

Fringed Amaranth

Big Bursage

Triangle-leaf Bursage

Singlewhorl Burrobrush

Cheesebush

Common Fiddleneck

Sixweeks Three-Awn

Rush Milkweed

Fourwing Saltbush

Trans-Pecos Ayenia

Desert Broom

Parish's Goldeneye

Desert Marigold

Scarlet Spiderling

Coulter's Brickellbush

Red Brome

Pink Fairy-Duster

Saguaro

Spiny Hackberry

Scientific Name

Abutilon abutiloides

Abutilon incanum

Acacia salicina

Acourtia nana

Acourtia wrightii

Amaranthus fimbriatus

Ambrosia ambrosioides

Ambrosia deltoidea

Ambrosia monogyra

Ambrosia salsola

Amsinckia menziesii

Aristida adscensionis

Asclepias subulata

Atriplex canescens

Ayenia filiformis

Baccharis sarothroides

Bahiopsis parishii

Baileya multiradiata

Boerhavia coccinea

Brickellia coulteri

Bromus rubens

Calliandra eriophylla

Carnegiea gigantea

Celtis pallida

Plants

Common Name

Buffelgrass
Maltese Star-Thistle
Desert Pincushion
New Mexico Thistle
Warnock Condalia
Little-leaf Cordia
Rosary Babybonnets
Pretty Dodder
Arizona Pencil Cholla
Chain-fruit Cholla
Tree Cholla
Christmas Cholla
Staghorn Cholla
Bermuda Grass
Wheeler Sotol/Desert Spoon
Desert Thorn-Apple
American Wild Carrot
Fall Tansyaster
Arizona Cottontop
Yuma Silverbush
Broad Leaf Hopbush
Engelmann's Hedgehog Cactus
Brittlebush
Button Brittlebush

Scientific Name

Cenchrus ciliaris
Centaurea melitensis
Chaenactis stevioides
Cirsium neomexicanum
Condalia warnockii
Cordia parvifolia
Coursetia glandulosa
Cuscuta indecora
Cylindropuntia arbuscula
Cylindropuntia fulgida
Cylindropuntia imbricata subsp. *spinosior*
Cylindropuntia leptocaulis
Cylindropuntia thurberi subsp. *versicolor*
Cynodon dactylon
Dasylirion wheeleri
Datura discolor
Daucus pusillus
Dieteria asteroides
Digitaria californica
Ditaxis serrata
Dodonaea viscosa
Echinocereus engelmannii subsp. *fasciculatus*
Encelia farinosa
Encelia frutescens

Plants

Common Name

Longleaf Ephedra
Spreading Woollystar
Turpentine Bush
Spreading Fleabane
Flatcrown Buckwheat
Red-gland Spurge
Fishhook Barrel Cactus
Ocotillo
Hartweg's Climbing Milkweed
Southwestern Mock Vervain
Broom Snakeweed
Late Snakeweed
Red Yucca
Burroweed
Heartleaf Limberbush
Narrow-leaved Cryptantha
Chuparosa
Littleleaf Ratany
Prickly Lettuce
Creosote Bush
Cenizo/Texas Ranger/Texas Sage
Anderson Thornbush
Berlandier's Wolfberry

Scientific Name

Ephedra trifurca
Eriastrum diffusum
Ericameria laricifolia
Erigeron divergens
Eriogonum deflexum
Euphorbia melanadenia
Ferocactus wislizeni
Fouquieria splendens
Funastrum heterophyllum
Glandularia gooddingii
Gutierrezia sarothrae
Gutierrezia serotina
Hesperaloe parviflora
Isocoma tenuisecta
Jatropha cardiophylla
Johnstonella angustifolia
Justicia californica
Krameria erecta
Lactuca serriola
Larrea tridentata
Leucophyllum frutescens
Lycium andersonii
Lycium berlandieri

Plants

Common Name

Arizona Desert-Thorn
Cheeseweed Mallow
Graham's Fishhook Cactus
Small Melilot
Rough Menodora
Catclaw Mimosa
Wishbone Bush
Rough Nama
Chilean Mesquite
Western Honey Mesquite
Velvet Mesquite
Tree Tobacco
Desert Tobacco
Texas Toadflax
Desert Ironwood
Engelmann's Pricklypear
Bunny Ears Cactus
Santa Rita Pricklypear
Blue Palo Verde
Little-leaved Palo Verde
Parry's Beardtongue
Desert Mistletoe
Odora
Whitestem Paperflower

Scientific Name

Lycium exsertum
Malva parviflora
Mammillaria/Cochemiea grahamii
Melilotus indicus
Menodora scabra
Mimosa aculeaticarpa
Mirabilis laevis
Nama hispida
Neltuma chilensis
Neltuma odorata
Neltuma velutina
Nicotiana glauca
Nicotiana obtusifolia
Nuttallanthus texanus
Olneya tesota
Opuntia engelmannii
Opuntia microdasys
Opuntia santa-rita
Parkinsonia florida
Parkinsonia microphylla
Penstemon parryi
Phoradendron californicum
Porophyllum gracile
Psilostrophe cooperi

Plants

Common Name

Desert Chicory
Beaked Sida
Canaigre Dock
Tumbleweed
Chia
Lotebush
African Sumac
Common Groundsel
Catclaw Acacia
Silver Senna
Jojoba
London Rocket
Silverleaf Nightshade
Common Sow-Thistle
Desert Globemallow
Tamarisks
Silverpuffs
Whitethorn Acacia
Sweet Acacia
Cowpen Daisy
Spiny Goldenweed
Soaptree Yucca
Desert Zinnia

Scientific Name

Rafinesquia neomexicana
Rhynchosida physocalyx
Rumex hymenosepalus
Salsola tragus
Salvia columbariae
Sarcomphalus obtusifolius subsp. *canescens*
Searsia lancea
Senecio vulgaris
Senegalia greggii
Senna artemisioides
Simmondsia chinensis
Sisymbrium irio
Solanum elaeagnifolium
Sonchus oleraceus
Sphaeralcea ambigua
Genus *Tamarix*
Uropappus lindleyi
Vachellia constricta
Vachellia farnesiana
Verbesina encelioides
Xanthisma spinulosum
Yucca elata
Zinnia acerosa

Fungi

| <u>Common Name</u> | <u>Scientific Name</u> |
|----------------------------|---------------------------------|
| Field and Button Mushrooms | Genus <i>Agaricus</i> |
| Saltshaker Stiltball | <i>Battarreoides diguetii</i> |
| Green-spored Parasol | <i>Chlorophyllum molybdites</i> |
| Inky Caps | Genus <i>Coprinus</i> |
| No common name | Genus <i>Fomitiporia</i> |
| Sulcate Sunhead | <i>Heliocybe sulcata</i> |
| Desert Inkcap | <i>Montagnea arenaria</i> |
| Termite Inkcaps | Genus <i>Podaxis</i> |

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https://www.inaturalist.org/observations?iconic_taxa=Fungi&place_id=181375

In many cases, lab sequencing will be necessary to further identify fungi, and for at least two cases this process is underway. This list will be updated should those results allow for greater specificity.

