

Appendix

The following pages are a list of all organisms that have been observed in Vistoso Trails Nature Preserve, uploaded to iNaturalist, and have 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>
Cactus Mouse	<i>Peromyscus eremicus</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>

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
Black-chinned Hummingbird
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

Scientific Name

Accipiter cooperii
Amphispiza bilineata
Archilochus alexandri
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

Birds

Common Name

House Finch
Bullock's Oriole
Hooded Oriole
Loggerhead Shrike
Lucy's Warbler
American Wigeon*
Western Screech-Owl
Gila Woodpecker
Abert's Towhee
Elf Owl
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

Scientific Name

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

Birds

Common Name

Western Tanager
Blue-gray Gnatcatcher
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

Piranga ludoviciana
Polioptila caerulea
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
Tucson Bronze 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
Aphonopelma vorhiesi
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

Sleepy Orange
Desert Leaf-cutter Ant
Longhorn Beetle
Honey-tailed Striped Sweat Bee
Western Honey Bee
Palmer's Metalmark
Sand Cockroaches
Megachiline Leafcutter Bees
Large Creosote Gall Midge
Empress Leilia
Schwarz's Shieldback
Peridot Sweat Bee
Pipevine Swallowtail
Parasitic Wasp
Dark Rover Ant
Bellied Antlion
Deduced Graphic Moth
Red-legged Oil-digger
Seven-spotted Lady Beetle
Hoverfly
Drone Fly

Scientific Name

Abaeis nicippe
Acromyrmex versicolor
Aethecerinus latecinctus
Agapostemon melliventris
Apis mellifera
Apodemia palmerii
Genus *Arenivaga*
Genus *Ashmeadiella*
Asphondylia auripila
Asterocampa leilia
Ateloplus schwarzi
Augochlorella pomoniella
Battus philenor
Brachymeria podagrica
Brachymyrmex patagonicus
Brachynemurus abdominalis
Bulia deducta
Centris rhodopus
Coccinella septempunctata
Copestylum apiciferum
Copestylum marginatum

Insects

Common Name

Figeater Beetle
Acrobat Ants
Death-feigning Beetle
Cochineal Scale Bugs
Queen
Palo Verde Root Borer
Picture-winged Fly
Southern Chimney Bee
Scrub Cicadas
Pigweed Flea Beetle
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
Western Giant Swallowtail

Scientific Name

Cotinis mutabilis
Genus *Crematogaster*
Cryptoglossa variolosa
Genus *Dactylopius*
Danaus gilippus
Derobrachus hovorei
Diacrita costalis
Complex *Diadasia australis*
Genus *Diceroprocta*
Disonycha glabrata
Dorymyrmex bicolor
Echinargus isola
Genus *Efferia*
Eleodes longicollis
Euscirrhopterus cosyra
Exoprosopa agassizii
Genus *Forelius*
Forsebia cinis
Gryllodes sigillatus
Hemiargus ceraunus
Heraclides rumiko

Insects

Common Name

Heteranassa Moth
Bomber Fly
Convergent Lady Beetle
Scavenger Scarab Beetle
Fiery Skipper
White-lined Sphinx Moth
Eight-spotted Lady Beetle
Fortunate Wave
Elegant Bush Katydid
Leaf-footed Bug
Marine Blue
American Snout
Carrot Beetle
Obscure Ground Mantis
Orange-tipped Woodborer
Bloody Net-winged Beetle
Rustic Sphinx
Leafcutter, Mortar, and Resin Bees
Charcoal Seed Bug
Indomitable Graphic Moth
Glowworms and Fireflies

Scientific Name

Heteranassa mima
Heterostylum robustum
Hippodamia convergens
Hybosorus illigeri
Hylephila phyleus
Hyles lineata
Hyperaspis octonotata
Idaea bonifata
Insara elegans
Leptoglossus zonatus
Leptotes marina
Libytheana carinenta
Ligyris gibbosus
Litaneutria ocularis
Lithurgopsis apicalis
Lycus sanguineus
Manduca rustica
Genus *Megachile*
Melacoryphus lateralis
Melipotis indomita
Genus *Microphotus*

Insects

Common Name

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
Thisbe's Tarantula-hawk Wasp
Turkestan Cockroach
Blunt-spined Big-headed Ant
Red Harvester Ant
Rough Harvester Ant
Golden Paper Wasp
Yellow Paper Wasp
Bird-dropping Moth
Pretty Bird-dropping Moth
Checkered White
Robber Fly
Gray Bird Grasshopper
Arizona Mantis

Scientific Name

Moneilema gigas
Narnia femorata
Novomessor cockerelli
Numia bicoloraria
Okanagodes gracilis
Oncopeltus fasciatus
Pantala flavescens
Pantala hymenaea
Pepsis thisbe
Periplaneta lateralis
Pheidole obtusospinosa
Pogonomyrmex barbatus
Pogonomyrmex rugosus
Polistes aurifer
Polistes flavus
Ponometia cuta
Ponometia venustula
Pontia protodice
Saropogon bryanti
Schistocerca nitens
Stagmomantis limbata

Insects

Common Name

Gray Hairstreak
Hubbard's Silk Moth
Barrel Cactus Longhorn
Iron Cross Blister Beetle
Kissing Bug
Cruel Toxonprucha
Bird Toxonprucha
Pallid-winged Grasshopper
Western Carpenter Bee
Valley Carpenter Bee
Zaleops Moth
Braconid Wasp
Four-spurred Assassin Bug
Southern Dogface

Scientific Name

Strymon melinus
Syssphinx hubbardi
Svastra duplocincta
Tegrodera aloga
Triatoma rubida
Toxonprucha crudelis
Toxonprucha volucris
Trimerotropis pallidipennis
Xylocopa californica
Xylocopa sonorina
Zaleops umbrina
Zelomorpha arizonensis
Zelus tetracanthus
Zerene cesonia

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>
Powder Blue Isopod	<i>Porcellionides pruinosus</i>

Note: Other invertebrates 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)

And pill bugs (isopods) here:

[https://www.inaturalist.org/observations?
place_id=181375&subview=table&taxon_id=85493](https://www.inaturalist.org/observations?place_id=181375&subview=table&taxon_id=85493)

Plants

Common Name

Shrubby Indian Mallow
Pelotazo
Willow Acacia
Dwarf Desert Peony
Brownfoot
Fringed Amaranth
Big Bursage
Slimleaf 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

Scientific Name

Abutilon abutiloides
Abutilon incanum
Acacia salicina
Acourtia nana
Acourtia wrightii
Amaranthus fimbriatus
Ambrosia ambrosioides
Ambrosia confertiflora
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

Plants

Common Name

Spiny Hackberry
Buffelgrass
Maltese Star-thistle
Desert Pincushion
New Mexico Thistle
Graham's Fishhook Cactus
Warnock Condalia
Graythorn
Little-leaf Cordia
Rosary Babybonnets
Bearded Cryptantha
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

Scientific Name

Celtis pallida
Cenchrus ciliaris
Centaurea melitensis
Chaenactis stevioides
Cirsium neomexicanum
Cochemiea grahamii
Condalia warnockii
Condaliopsis divaricata
Cordia parvifolia
Coursetia glandulosa
Cryptantha barbiger
Cuscuta indecora
Cylindropuntia arbuscula
Cylindropuntia fulgida
Cylindropuntia imbricata
Cylindropuntia leptocaulis
Cylindropuntia thurberi
Cynodon dactylon
Dasyilirion wheeleri
Datura discolor
Daucus pusillus
Dieteria asteroides
Digitaria californica
Ditaxis serrata

Plants

Common Name

Broad Leaf Hopbush
Engelmann's Hedgehog Cactus
Brittlebush
Button Brittlebush
Longleaf Ephedra
Spreading Woollystar
Turpentine Bush
Spreading Fleabane
Flatcrown Buckwheat
Redstem Stork's-bill
Tinytooter Monkeyflower
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

Scientific Name

Dodonaea viscosa
Echinocereus engelmannii
Encelia farinosa
Encelia frutescens
Ephedra trifurca
Eriastrum diffusum
Ericameria laricifolia
Erigeron divergens
Eriogonum deflexum
Erodium cicutarium
Erythranthe cordata
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

Plants

Common Name

Prickly Lettuce
Creosote Bush
Cenizo/Texas Ranger/Texas Sage
Anderson Thornbush
Berlandier's Wolfberry
Arizona Desert-thorn
Cheeseweed Mallow
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 Prickly Pear
Bunny Ears Cactus
Santa Rita Prickly Pear
Blue Palo Verde
Little-leaved Palo Verde

Scientific Name

Lactuca serriola
Larrea tridentata
Leucophyllum frutescens
Lycium andersonii
Lycium berlandieri
Lycium exsertum
Malva parviflora
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

Plants

Common Name

Parry's Beardtongue
Distant Phacelia
Desert Mistletoe
Odora
Desert Unicorn-plant
Whitestem Paperflower
Desert Chicory
Beaked Sida
Canaigre Dock
Tumbleweed
Chia
African Sumac
Common Groundsel
Catclaw Acacia
Silver Senna
Coues' Senna
Jojoba
London Rocket
Silverleaf Nightshade
Common Sowthistle
Prickly Sowthistle
Desert Globemallow
Tamarisks
Silverpuffs

Scientific Name

Penstemon parryi
Phacelia distans
Phoradendron californicum
Porophyllum gracile
Proboscidea althaeifolia
Psilostrophe cooperi
Rafinesquia neomexicana
Rhynchosida physocalyx
Rumex hymenosepalus
Salsola tragus
Salvia columbariae
Searsia lancea
Senecio vulgaris
Senegalia greggii
Senna artemisioides
Senna covesii
Simmondsia chinensis
Sisymbrium irio
Solanum elaeagnifolium
Sonchus oleraceus
Sonchus asper
Sphaeralcea ambigua
Genus *Tamarix*
Uropappus lindleyi

Plants

Common Name

Whitethorn Acacia
Sweet Acacia
Cowpen Daisy
Spiny Goldenweed
Soaptree Yucca
Desert Zinnia

Scientific Name

Vachellia constricta
Vachellia farnesiana
Verbesina encelioides
Xanthisma spinulosum
Yucca elata
Zinnia acerosa

Note: Creating a list of plants is extremely challenging as many plant identifications on iNaturalist are not as robustly reviewed as animal identifications often are. This means there are a few false “Research-grade” observations in the mix, and many more that simply have not been fully identified. A list of “Research-grade” species can be found here:

[https://www.inaturalist.org/observations?
iconic_taxa=Plantae&place_id=181375&quality_grade=research&subview=table&view=species](https://www.inaturalist.org/observations?iconic_taxa=Plantae&place_id=181375&quality_grade=research&subview=table&view=species)

Observations needing identification are here:

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

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>

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

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

In many cases, lab sequencing would be necessary to further identify fungi.



