

*Before it becomes a **dump site**  
for mine tailings...*



Barrel Canyon (above) is bisected by Forest Roads 4058 and 231. Hudbay's Copper World Mine operation will include an open pit - bigger than Meteor Crater in northern Arizona - in high ground to the left of this photo. Tailings from the pit will cover the landscape shown above. Photo by Sierra Club Borderlands, used with permission.

## A close look at the plants and animals of Rosemont's beautiful Barrel Canyon



Contents: results of the March 23, 2025,  
Barrel Canyon plant and animal study  
with 43 capable, trained observers  
accomplishing 523 observations  
resulting in 182 verified species

Download this document at [LivingDesertAlliance.com](http://LivingDesertAlliance.com). Go to Events and Santa Rita Mtns BioBlitz. A PDF of this plant and animal study is linked under BioBlitz Executive Summary.





# *This is how Barrel Canyon and its wildlife will be lost*



## **Barrel Canyon**

Hudbay's "East" or "Rosemont" pit is planned to be much larger than Meteor Crater in northern Arizona. Waste material from this hole will obliterate Barrel Canyon, its ancient aquifer, and its amazing ecosystem. This artist's conception of the proposed east side mining pit in the Santa Rita Mountains was carefully envisioned by Robert Gay for Save the Scenic Santa Ritas. Used with permission.

## The plant and animal study was called a "BioBlitz"



The iNaturalist nature study app has been a component of plant and animal studies since 2008, and since 2012 the number of participants and observations, worldwide, has doubled each year. The number is now approximately 200 million. Barrel Canyon BioBlitz participants used the app to help identify species, catalog them, and provide verification of IDs.





## Some of the large mammals seen in the northern Santa Rita Mountains



## List of plants and animals living in and around Barrel Canyon

Scientific Name      Common Name      Order      Family      Observed by

| Mammals                               |                                                                                               |              |             |                               |
|---------------------------------------|-----------------------------------------------------------------------------------------------|--------------|-------------|-------------------------------|
| Canis lagrans                         | Coyote                                                                                        | Carnivora    | Canidae     | DeGroot trail cam             |
| Leporidae                             | Hares and Rabbits                                                                             | Lagomorpha   | Leporidae   | Basecamp tiger                |
| Lynx rufus                            | Bobcat                                                                                        | Carnivora    | Felidae     | DeGroot trail cam             |
| Odocoileus hemionus                   | Mule Deer                                                                                     | Artiodactyla | Cervidae    | Basecamp tiger                |
| Odocoileus virginianus<br>spp. couesi | Coues White-Tailed<br>Deer                                                                    | Artiodactyla | Cervidae    | Multiple observers            |
| Panthera onca                         | Jaguar (sighted within<br>last 6 years in southern<br>extremity of Barrel<br>Canyon drainage) | Carnivora    | Felidae     | U of A research<br>scientists |
| Pecari tajacu                         | Javalina, Collared<br>peccary                                                                 | Artiodactyla | Tayassuidae | A Hoerr                       |
| Puma concolor<br>cougar               | Mountain Lion                                                                                 | Carnivora    | Felidae     | W Sapp                        |

|                                                                      |                                |                 |               |                               |
|----------------------------------------------------------------------|--------------------------------|-----------------|---------------|-------------------------------|
| Urocyon cinereoargenteus                                             | Gray Fox                       | Carnivora       | Canidae       | DeGroot trail cam             |
| Ursus americanus                                                     | Black Bear (historic accounts) | Carnivora       | Ursidae       | Documented by local ranchers  |
| <b>Birds</b> (also see list of "Additional Bird Sightings" on p. 12) |                                |                 |               |                               |
| Buteo plagiatus                                                      | Gray Hawk aka Mexican Goshawk  | Accipitriformes | Accipitridae  | D DeGroot                     |
| Cardinalis cardinalis                                                | Northern Cardinal              | Passeriformes   | Cardinalidae  | Ian McFaul                    |
| Cathartes aura                                                       | Turkey Vulture                 | Accipitriformes | Cathartidae   | Multiple observers            |
| Corvus corax                                                         | Common Raven                   | Passeriformes   | Accipitridae  | Multiple observers            |
| Dryobates scalaris                                                   | Ladder-backed Woodpecker       | Piciformes      | Picidae       | Mramirez                      |
| Geococcyx californianus                                              | Greater Roadrunner             | Cuculiformes    | Oxyopidae     | D. DeGroot                    |
| Megascops kennicottii                                                | Western Screech Owl            | Strigiformes    | Strigidae     | Multiple observers            |
| Meleagris gallopavo                                                  | Wild Turkey                    | Galliformes     | Phasianidae   | D. DeGroot                    |
| Mimus polyglottos                                                    | Northern Mockingbird           | Passeriformes   | Mimidae       | Mramirez                      |
| Sphyrapicus nuchalis                                                 | Red-Naped Sapsucker            | Piciformes      | Picidae       | D DeGroot                     |
| Thryomanes bewickii                                                  | Bewick's Wren                  | Passeriformes   | Troglodytidae | arielfinstrom                 |
| Tyrannus vociferans                                                  | Cassin's Kingbird              | Passeriformes   | Tyrannidae    | D. DeGroot                    |
| <b>Insects</b>                                                       |                                |                 |               |                               |
| Acanthocephala thomasi                                               | Giant Agave Bug                | Hemiptera       | Coreidae      | Courtney Christie             |
| Andrena prunorum                                                     | Purple Miner Bee               | Hymenoptera     | Andrenidae    | Ian McFaul                    |
| Anthophora californica                                               | California Digger Bee          | Hymenoptera     | Apidae        | Ian McFaul                    |
| Automeris cecrops                                                    | Cecrops-Eyed Silkworm          | Lepidoptera     | Saturniidae   | southwestwanderer             |
| Baryttix humphreysii                                                 | Humphrey's Grasshopper         | Orthoptera      | Acrididae     | Courtney Christie             |
| Brachystola magna                                                    | Plains Lubber Grasshopper      | Orthoptera      | Romaleidae    | D. DeGroot                    |
| Callophrys gryneus                                                   | Juniper Hairstreak Butterfly   | Lepidoptera     | Lycaenidae    | Meghan LaPointe; And "Daniel" |
| Chlosyne lacinia                                                     | Bordered Patch Butterfly       | Lepidoptera     | Numphalidae   | Marissa                       |
| Copestylum marginatum                                                | Syrphid fly                    | Diptera         | Syrphidae     | "Daniel"                      |
| Dasyutilla magnifica                                                 | Magnificent Velvet Ant         | Hymenoptera     | Mutillidae    | dchstigger                    |
| Ericydeus lautus                                                     | Broad-Nosed Weevil             | Coleoptera      | Curculionida  | Courtney Christie             |



Note: above photos are from iNaturalist's Rosemont Barrel Canyon BioBlitz Folder - uploaded previously by hikers in the Barrel Canyon location.

|                                         |                                     |             |                 |                    |
|-----------------------------------------|-------------------------------------|-------------|-----------------|--------------------|
| <i>Eucaterva varia</i>                  | Moth (Geometrid)                    | Lepidoptera | Geometridae     | Sue Carnahan       |
| <i>Kokkocynips coxii</i>                | Gall Wasp                           | Hymenoptera | Cynipidae       | Biodiversian       |
| <i>Megachile</i>                        | Solitary Leafcutter Bee             | Hymenoptera | Megachilidae    | Ian McFaul         |
| <i>Moneilema gigas</i>                  | Giant Cactus Longhorn Beetle        | Coleoptera  | Cerambycidae    | Adam Huggins       |
| <i>Myrmecocystus flaviceps</i>          | A species of Honey-pot Ant          | Hymenoptera | Formicidae      | Ethan Fraijo       |
| <i>Narnia snowi</i>                     | Leaf-footed Bug                     | Memiptera   | Coreidae        | Ian McFaul         |
| <i>Novomessor albisetosus</i>           | Desert Harvester Ant                | Hymenoptera | Formicidae      | Bearswis           |
| <i>Pachypsylla celtidismamma</i>        | Hackberry Nipple-gall Maker         | Hemiptera   | Carsidaridae    | Steve Jones        |
| <i>Pasimachus californicus</i>          | California Warrior Beetle           | Colleoptera | Carabidae       | Basecamptiger      |
| <i>Pogonomyrmex bicolor</i>             | Bicolored Harvester Ant             | Hymenoptera | Formicidae      | Ethan Fraijo       |
| <i>Polistes</i>                         | Typical Paper Wasp                  | Hymenoptera | Vespidae        | Multiple observers |
| Sarcophagidae                           | Flesh Flies                         | Diptera     | Sarcophagidae   | Multiple observers |
| <i>Stagmomantis</i>                     | Praying Mantis                      | Mantodea    | Mantidae        | Multiple observers |
| <i>Stagmomantis clauseni</i>            | Sonoran Tiger Mantis                | Mantodea    | Mantidae        | K_Corbett          |
| <i>Staphylus ceos</i>                   | Golden-headed Scallopwing (Skipper) | Lepidoptera | Hesperiidae     | Brad D'Emidio      |
| Tenebrionidae                           | Darkling Beetle                     | Coleoptera  | Tenebrionidae   | Ian McFaul         |
| <i>Xylocopa californica</i>             | Western Carpenter Bee               | Hymenoptera | Aidae           | Bearswis           |
| <i>Xylocopa californica arizonensis</i> | Arizona Carpenter Bee               | Hymenoptera | Apidae          | Margarita Orlova   |
| <b>Reptiles</b>                         |                                     |             |                 |                    |
| <i>Holbrookia elegans</i>               | Elegant Earless Lizard              | Squamata    | Phrynosomatidae | Ian McFaul         |
| <i>Tantilla hobartsmithi</i>            | Southwestern                        | Squamata    | Colubridae      | Biodivergian       |

|                                                                                            |                                             |                |                 |                    |
|--------------------------------------------------------------------------------------------|---------------------------------------------|----------------|-----------------|--------------------|
|                                                                                            | Blackhead Snake                             |                |                 |                    |
| Urosaurus ornatus                                                                          | Ornate Tree Lizard                          | Squamata       | Phrynosomatidae | Multiple observers |
| <b>Arthropods</b>                                                                          |                                             |                |                 |                    |
| Agelenopsis aperta                                                                         | Desert Grass Spider<br>or Funnel-Web Spider | Araneae        | Agelenidae      | D DeGroot          |
| Orthoporus ornatus                                                                         | Desert Millipede                            | Spirostreptida | Spirostreptidae | D DeGroot          |
| Peucetia longipalpis                                                                       | Green Lynx Spider                           | Araneae        | Oxiopidae       | Ian McFaul         |
| Phidippus<br>Apacheanus                                                                    | Apache Jumping<br>Spider                    | Araneae        | Salticidae      | Court_Rae          |
|                                                                                            |                                             |                |                 |                    |
| <b>Plants</b>                                                                              |                                             |                |                 |                    |
| <b>Acanthus</b> family of flowering plants: herbs, shrubs, or twining vines                |                                             |                |                 |                    |
| Dicliptera resupinata                                                                      | Arizona Foldwing                            | Lamiales       | Acanthaceae     | Austindude         |
| Tetramerium<br>nervosum                                                                    | Hairy Fournwort                             | Lamiales       | Acanthaceae     | Sue Carnahan       |
| <b>Amaryllis</b> family                                                                    |                                             |                |                 |                    |
| Zephyranthes<br>longifolia                                                                 | Copper Zephyr-Lilly                         | Asparagales    | Amaryllidaceae  | Ian McFaul         |
| <b>Anacardiaceae</b> or sumac family                                                       |                                             |                |                 |                    |
| Rhus trilobata                                                                             | Skunkbush sumac                             | Sapindales     | Anacardiaceae   | "Daniel"           |
| Rhus virens                                                                                | Evergreen Sumac                             | Sapindales     | Anacardiaceae   | Geoffrey Hing      |
| <b>Apiaceae</b> family, commonly known as the celery, carrot, and parsley family           |                                             |                |                 |                    |
| Bowlesia incana                                                                            | Hoary Bowlesia                              | Apiales        | Apiaceae        | Peggy051           |
| <b>Apocynaceae</b> family includes vines. (often referred to as the dogbane family)        |                                             |                |                 |                    |
| Funastrum<br>heterophyllum                                                                 | Hartweg's Climbing<br>Milkweed              | Gentianales    | Apocynaceae     | Austindude         |
| <b>Asparagaceae</b> family includes asparagus, yucca, sotol, bluebell, lily of the valley  |                                             |                |                 |                    |
| Agave palmeri                                                                              | Palmer's Agave<br>(Century Plant)           | Asparagales    | Asparagaceae    | Multiple observers |
| Dasyllirion wheeleri                                                                       | Desert Sotol                                | Asparagales    | Asparagaceae    | Izetta Feeny       |
| Nolina microcarpa                                                                          | Beargrass                                   | Asparagales    | Asparagaceae    | Multiple observers |
| Yucca schottii<br>(formerly madrensis)                                                     | Mountain Yucca                              | Asparagales    | Asparagaceae    | Multiple observers |
| <b>Aster</b> family, also known as daisy, composite, or sunflower family (32,000 species). |                                             |                |                 |                    |
| Aldama cordifolia                                                                          | Heartleaf Goldeneye                         | Asterales      | Asteraceae      | Adam Huggins       |
| Ambrosia confertiflora                                                                     | Weakleaf Bur<br>Ragweed                     | Asterales      | Asteraceae      | Multiple observers |



# Massive, old-growth trees put down roots in an ancient aquifer



Juniper Tree



Emory oak



Netleaf Hackberry



Black Walnut

|                                                                    |                         |                |              |                    |
|--------------------------------------------------------------------|-------------------------|----------------|--------------|--------------------|
| Ambrosia monogyra                                                  | Singlewhorl Burrobush   | Asterales      | Asteraceae   | Austindude         |
| Artemisia ludoviciana                                              | Silver Wormwood         | Asterales      | Asteraceae   | Fern Bromley       |
| Baccharis sarothroides                                             | Desert Broom            | Asterales      | Asteraceae   | Izetta Feeny       |
| Brickellia californica                                             | California Brickellbush | Asterales      | Asteraceae   | "Daniel"           |
| Brickellia venosa                                                  | Veiny Brickellbush      | Asterales      | Asteraceae   | Dan Beckman        |
| Cirsium neomexicanum                                               | New Mexico Thistle      | Asterales      | Asteraceae   | Ian McFaul         |
| Gutierrezia microcephala                                           | Sticky Snakeweed        | Asterales      | Asteraceae   | Izetta Feeney      |
| Isocoma tenuisecta                                                 | Burroweed               | Asterales      | Asteraceae   | Doan G & LaPointe  |
| Tithonia thurberi                                                  | Arizona Sunflower Weed  | Asterales      | Asteraceae   | Austindude         |
| Verbesina rothrockii                                               | Rothrock's Crownbeard   | Asterales      | Asteraceae   | Dan Beckman        |
| Viguiera dentata                                                   | Toothleaf Goldeneye     | Asterales      | Asteraceae   | D DeGroot          |
| <b>Bignoniaceae</b> family: mostly woody plants                    |                         |                |              |                    |
| Chilopsis linearis arcuata                                         | Desert Willow           | Lamiales       | Bignoniaceae | Multiple observers |
| <b>Boraginaceae</b> or forget-me-not family                        |                         |                |              |                    |
| Phacelia                                                           | Scorpionweed            | Boraginales    | Boraginaceae | Dan Beckman        |
| <b>Brassicaceae</b> family: mustards and many important vegetables |                         |                |              |                    |
| Boechera perennans                                                 | Perennial Rockcress     | Brassicales    | Brassicaceae | Fern Bromley       |
| Descurainia pinnata glabra                                         | Western Tansymustard    | Brassicales    | Brassicaceae | Multiple observers |
| Sisymbrium irio                                                    | London Rocket           | Brassicales    | Brassicaceae | Mramirez           |
| <b>Cactus</b> family                                               |                         |                |              |                    |
| Echinocereus                                                       | Engelmann's             | Caryophyllales | Cactaceae    | T Staudt           |

|                                                                                 |                            |                |               |                     |
|---------------------------------------------------------------------------------|----------------------------|----------------|---------------|---------------------|
| engelmannii                                                                     | Hedgehog Cactus            |                |               |                     |
| Echinocereus fendleri                                                           | Pinkflower Hedgehog Cactus | Caryophyllales | Cactaceae     | T Staudt            |
| echinocereus rigidissimus rigidissimus                                          | Arizona Rainbow Cactus     | Caryophyllales | Cactaceae     | Multiple observers  |
| Cylindropuntia imbricata spinosior                                              | Walkingstick Cactus        | Caryophyllales | Cactaceae     | Margarita Orlova    |
| Escobaria vivipara                                                              | Spinystar Cactus           | Caryophyllales | Cactaceae     | Multiple observers  |
| Ferocactus wislizeni                                                            | Fishhook Barrel Cactus     | Caryophyllales | Cactaceae     | Fern Bromley        |
| Opuntia                                                                         | Prickly Pear Cactus        | Caryophyllales | Cactaceae     | Multiple observers  |
| Opuntia santa-rita                                                              | Santa Rita Prickly Pear    | Caryophyllales | Cactaceae     | Ian McFaul          |
| <b>Cannabaceae</b> , also known as the hemp family                              |                            |                |               |                     |
| Celtis reticulata                                                               | Netleaf Hackberry          | Rosales        | Cannabaceae   | Multiple observers  |
| Celtis pallida                                                                  | Spiny Hackberry            | Rosales        | Cannabaceae   | Multiple observers  |
| <b>Cupressaceae</b> family includes conifers                                    |                            |                |               |                     |
| Juniperus arizonica                                                             | Arizona Juniper            | Cupressales    | Cupressaceae  | Multiple observers  |
| <b>Ephedrales</b> family, a very old plant (famously used in making Mormon Tea) |                            |                |               |                     |
| Ephedra trifurca                                                                | Longleaf Ephedra           | Gnetopsida     | Ephedrales    | Suecar & Austindude |
| <b>Euphorbiaceae</b> often referred to as the spurge family                     |                            |                |               |                     |
| Euphorbia                                                                       | Whitemargin Sandmat        | Malpighiales   | Euphorbiaceae | Meghan LaPointe     |
| Jatropha cardiophylla                                                           | Heartleaf Limberbush       | Malpighiales   | Euphorbiaceae | D DeGroot           |
| Jatropha macrorhiza                                                             | Ragged Nettle spurge       | Malpighiales   | Euphorbiaceae | Margarita Orlova    |
| <b>Fabaceae</b> family, including legumes, peas and beans                       |                            |                |               |                     |
| Galactia wrightii                                                               | Milk Peas                  | Fabales        | Fabaceae      | Austindude          |
| Neltuma velutina                                                                | Velvet Mesquite            | Fabales        | Fabaceae      | Multiple observers  |
| Astragalus mollissimus                                                          | Woolly Locoweed            | Fabales        | Fabaceae      | Dan Beckman         |
| Calliandra eriophylla                                                           | Pink Fairy-Duster          | Fabales        | Fabaceae      | Multiple observers  |
| Lupinus concinnus                                                               | Bajada Lupine              | Fabales        | Fabaceae      | "Daniel"            |
| Mimosa aculiaticarpa                                                            | Catclaw Mimosa             | Fabales        | Fabaceae      | Geoffrey Hing       |
| Senegalia greggii                                                               | Catclaw Acacia             | Fabales        | Fabaceae      | Multiple observers  |
| Vachellia constricta                                                            | Whitethorn Acacia          | Fabales        | Fabaceae      | Multiple observers  |
| <b>Fagaceae</b> family: beeches, chestnuts, and oaks                            |                            |                |               |                     |
| Quercus emoryi                                                                  | Emory Oak                  | Fagales        | Fagaceae      | Multiple observers  |
| Quercus arizonica                                                               | Arizona White Oak          | Fabales        | Fagaceae      | Multiple observers  |





Clematis by SueCar



Ocotillo Bloom by SueCar



Silverleaf Nightshade by SueCar



Mesquite Mistletoe by SueCar



Narnia Snowi Bug by Biodiversian

**Fouquieriaceae** family: desert flowering plants (unrelated to cacti)

|                      |          |          |                |                    |
|----------------------|----------|----------|----------------|--------------------|
| Fouquieria splendens | Ocotillo | Ericales | Fouquieriaceae | Multiple observers |
|----------------------|----------|----------|----------------|--------------------|

**Galegeae** family is a small family of plants sometimes referred to as silktassels

|                     |                 |           |            |             |
|---------------------|-----------------|-----------|------------|-------------|
| Astragalus norhoxys | Sheep Milkvetch | Garryales | Garryaceae | Dan Beckman |
|---------------------|-----------------|-----------|------------|-------------|

|                 |                     |           |            |                    |
|-----------------|---------------------|-----------|------------|--------------------|
| Garrya wrightii | Wright's Silktassel | Garryales | Garryaceae | Multiple observers |
|-----------------|---------------------|-----------|------------|--------------------|

**Juglandaceae**, or walnut family

|               |                      |         |              |                    |
|---------------|----------------------|---------|--------------|--------------------|
| Juglans major | Arizona Black Walnut | Fagales | Juglandaceae | Multiple observers |
|---------------|----------------------|---------|--------------|--------------------|

**Krameriaceae** family consists mostly of rhatany plants

|                 |                    |               |              |                               |
|-----------------|--------------------|---------------|--------------|-------------------------------|
| Krameria erecta | Littleleaf Rhatany | Zygophyllales | Krameriaceae | Adam Huggins and Sue Carnahan |
|-----------------|--------------------|---------------|--------------|-------------------------------|

**Loasaceae** family includes herbaceous plants and shrubs

|           |              |          |           |                            |
|-----------|--------------|----------|-----------|----------------------------|
| Mentzelia | Blazingstars | Cornales | Loasaceae | Dan Beckman and Ian McFaul |
|-----------|--------------|----------|-----------|----------------------------|

**Malvaceae**, flowering plants often referred to as mallows

|                   |                |          |           |             |
|-------------------|----------------|----------|-----------|-------------|
| Abutilon parvulum | Dwarf Abutilon | Malvales | Malvaceae | Dan Beckman |
|-------------------|----------------|----------|-----------|-------------|

|                    |               |          |           |              |
|--------------------|---------------|----------|-----------|--------------|
| Gossypium thurberi | Desert Cotton | Malvales | Malvaceae | Sue Carnahan |
|--------------------|---------------|----------|-----------|--------------|

**Martyniaceae** family, famously known as devil's claw or unicorn plant

|             |              |          |              |                    |
|-------------|--------------|----------|--------------|--------------------|
| Proboscidea | Devil's Claw | Lamiales | Martyniaceae | Multiple observers |
|-------------|--------------|----------|--------------|--------------------|

**Meliaceae** or mohogany family is mostly trees or shrubs. This species in Barrel Canyon is "non-native"

|                 |            |            |           |                    |
|-----------------|------------|------------|-----------|--------------------|
| Melia azedarach | Chinaberry | Sapindales | Meliaceae | Multiple observers |
|-----------------|------------|------------|-----------|--------------------|

**Nyctaginaceae** - known as the four o'clock family

|                    |                    |                |               |                    |
|--------------------|--------------------|----------------|---------------|--------------------|
| Allionia incarnata | Trailing Windmills | Caryophyllales | Nyctaginaceae | Multiple observers |
|--------------------|--------------------|----------------|---------------|--------------------|

**Papaveraceae** - often referred to as the poppy family

|          |                 |              |              |                             |
|----------|-----------------|--------------|--------------|-----------------------------|
| Argemone | Prickly Poppies | Ranunculales | Papaveraceae | Dan Beckman and Coronado 11 |
|----------|-----------------|--------------|--------------|-----------------------------|

**Plantaginaceae** - large and diverse family of flowering plants

|                                                                            |                          |                |                |                              |
|----------------------------------------------------------------------------|--------------------------|----------------|----------------|------------------------------|
| Maurandella<br>antirrhiniflora                                             | Snapdragon Vine          | Lamiales       | Plantaginaceae | Austindude                   |
| <b>Poaceae</b> family includes many kinds of grasses                       |                          |                |                |                              |
| Aristida purpurea                                                          | Purple Three-Awn         | Poales         | Poaceae        | Austindude                   |
| Bouteloua<br>curtipendula                                                  | Sideoats Grama           | Poales         | Poaceae        | Austindude                   |
| Bothriochloa<br>barbinodis                                                 | Cane Bluestem Grass      | Poales         | Poaceae        | Sue Carnahan and<br>"Daniel" |
| Bouteloua<br>chondrosioides                                                | Sprucetop Grama          | Poales         | Poaceae        | Sue Carnahan                 |
| Bouteloua eriopoda                                                         | Black Grama Grass        | Poales         | Poaceae        | Dan Beckman                  |
| Bouteloua gracilis                                                         | Blue Grama Grass         | Poales         | Poaceae        | Dan Beckman                  |
| Bouteloua hirsuta                                                          | Hairy Grama              | Poales         | Poaceae        | Austindude                   |
| Dasyochloa pulchella                                                       | Desert Fluffgrass        | Poales         | Poaceae        | Fern Bromley                 |
| Eragrostis curvula                                                         | African lovegrass        | Poales         | Poaceae        | Multiple observers           |
| Eragrostis<br>lehmanniana                                                  | Lehmann's Lovegrass      | Poales         | Poaceae        | Izetta Feeny                 |
| Erioneuron<br>avenaceum                                                    | Large-flower Woollygrass | Poales         | Poaceae        | "Daniel"                     |
| Muhlenbergia<br>alopecuroides                                              | Bristly Wolfstail        | Poales         | Poaceae        | Dan Beckman and<br>"Daniel"  |
| Panicum hallii                                                             | Hall's Panicgrass        | Poales         | Poaceae        | Multiple observers           |
| Sporobolus wrightii                                                        | Big Sacaton Grass        | Poales         | Poaceae        | Fern Bromley                 |
| Tridentopsis mutica                                                        | Slim Tridens Grass       | Poales         | Poaceae        | Dan Beckman                  |
| Aristida                                                                   | Three-Awn Wiregrass      | Poales         | Polaceae       | Multiple observers           |
| <b>Polygonaceae</b> family, often referred to as the buckwheat family      |                          |                |                |                              |
| Eriogonum<br>abertianum                                                    | Abert's buckwheat        | Caryophyllales | Polygonaceae   | Adam Huggins                 |
| Eriogonum wrightii                                                         | Wright's Buckwheat       | Caryophyllales | Polygonaceae   | Multiple observers           |
| <b>Polypodiales</b> and <b>Pteridaceae</b> are families that include ferns |                          |                |                |                              |
| Pellaea truncata                                                           | Spiny Cliffbrake         | Polypodiales   | Pteridaceae    | Ian McFaul                   |
| Astrolepis integerrima                                                     | Hybrid Cloak Fern        | Polypodiales   | Pteridaceae    | Dan Beckman                  |
| Myriopteris lindheimeri                                                    | Fairy Sword              | Polypodiales   | Pteridaceae    | Multiple observers           |
| <b>Ranunculaceae</b> family – these plants are often "herbaceous annuals"  |                          |                |                |                              |
| Clematis                                                                   | Leather Flower           | Ranunculales   | Ranunculaceae  | Sue Carnahan                 |
| <b>Rhamnaceae</b> family includes trees, shrubs and some vines             |                          |                |                |                              |
| Ceanothus pauciflorus                                                      | Mojave ceanothus         | Rosales        | Rhamnaceae     | Dan Beckman and<br>"Daniel"  |



Rainbow Cactus by Biodiversian

Sprucetop Grama by SueCar

Hairy Fournwort by SueCar

Desert Cotton by SueCar

Longleaf Ephedra by SueCar

|                                                                                                         |                                                    |                |                 |                    |
|---------------------------------------------------------------------------------------------------------|----------------------------------------------------|----------------|-----------------|--------------------|
| Condalia warnockii                                                                                      | Mexican Crucillo                                   | Rosales        | Rhamnaceae      | Adam Huggins       |
| Condaliopsis divaricata                                                                                 | Graythorn                                          | Rosales        | Rhamnaceae      | Multiple observers |
| <b>Rosaceae</b> family includes roses                                                                   |                                                    |                |                 |                    |
| Cercocarpus brevifloru                                                                                  | Hairy Mountain Mahogany                            | Rosales        | Rosaceae        | Izetta Feeny       |
| <b>Santalaceae</b> family includes sandalwoods, many of which are partially parasitic                   |                                                    |                |                 |                    |
| Phoradendron californicum                                                                               | Desert Mistletoe                                   | Santalales     | Santalaceae     | Sue Carnahan       |
| Phoradendron macrophyllum                                                                               | Broadleaf mistletoe                                | Santalales     | Santalaceae     | Ethan Fraijo       |
| Phoradendron juniperinum                                                                                | Juniper Mistletoe                                  | Santalales     | Santalaceae     | Dan Beckman        |
| <b>Scrophulariaceae</b> is often referred to as the figwort family                                      |                                                    |                |                 |                    |
| Maurandella antirrhiniflora                                                                             | Climbing Snapdragon                                | Magnoliophyta  | Scrophulariales | "Daniel"           |
| <b>Solanaceae</b> family is referred to as the nightshades. Some are poisonous.                         |                                                    |                |                 |                    |
| Lycium pallidum                                                                                         | Pale Wolfberry                                     | Solanales      | Solanaceae      | Stishovite         |
| Solanum elaeagnifolium                                                                                  | Silverleaf nightshade                              | Solanales      | Solanaceae      | Biodiversian       |
| <b>Verbenaceae</b> family, often with "hairy" leaves and small flowers, typically in some shade of blue |                                                    |                |                 |                    |
| Verbena neomexicana                                                                                     | Hillside Vervain                                   | Lamiales       | Verbenaceae     | Jenna Marvin       |
| <b>Vitaceae</b> family includes grape vines                                                             |                                                    |                |                 |                    |
| Vitis arizonica                                                                                         | Canyon Wild Grape                                  | Vitales        | Vitaceae        | Sue Carnahan       |
| <b>Fungi and Lichens</b>                                                                                |                                                    |                |                 |                    |
| Xanthorioideae                                                                                          | Orange Lichen                                      | Teloschistales | Teloschistaceae | Ian McFaul         |
| Dermatocarpon                                                                                           | Silverskin Lichens                                 | Verrucariales  | Verrucariaceae  | Mramirez           |
| Flavopunctelia soledica                                                                                 | Powder-Edged Speckled Greenshield (Foliose lichen) | Lecanorales    | Parmeliaceae    | Multiple observers |
| Parmelioideae                                                                                           | Typical Shield Lichen                              | Lecanorales    | Parmeliaceae    | Multiple observers |



|                                                                                 |                                                                           |                 |                |             |
|---------------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------|----------------|-------------|
| Candelariella                                                                   | Goldspeck Lichen                                                          | Candelariales   | Candelariaceae | Ian McFaul  |
| Candelaria pacifica                                                             | Pacific Candleflame Lichen                                                | Candelariales   | Candelariaceae | Mramirez    |
| <b>Gall</b> produced by an insect and a <b>deformation</b> produced by bacteria |                                                                           |                 |                |             |
| Pachypsylla celtidismamma                                                       | This gall was produced by an insect called the Hackberry Nipplegall Maker |                 | Carsidaridae   | Steve Jones |
| Rhodococcus fascians                                                            | "Witch's Broom" (on Catclaw Plant)                                        | Mycobacteriales | Nocardiaceae   | Steve Jones |

Observations were made in the Barrel Canyon area of the northern Santa Rita Mountains, from Rosemont Junction northeast 1.5 miles, within boundaries outlined in iNaturalist's "Rosemont Barrel Canyon Project Folder." Forty-three observers explored this area with iNaturalist on March 23, 2025, making approximately 550 individual observations which were subsequently consolidated into approximately 200 verified species. Names of observers are provided – unless there were multiple observations of the same species. Some observations were made by other individuals before or after Mar. 23.

**Additional birds in the Barrel Canyon BioBlitz area that were observed and identified by Andrea Hoerr, Jenna Marvin, Thomas Staudt, and Dave DeGroot**

|                        |                         |                          |           |
|------------------------|-------------------------|--------------------------|-----------|
| Aphelocoma woodhouseii | Woodhouse's Scrub-jay   | Corvidae family          | 4/16/2025 |
| Auriparus flaviceps    | Verdin                  | Remizidae family         | 4/16/2025 |
| Buteo jamaicensis      | Red-tailed Hawk         | Accipridae family        | 4/16/2025 |
| Cardellina pusilla     | Wilson's Warbler        | Parulidae family         | 4/27/2025 |
| Chondestes grammacus   | Lark Sparrow            | Passerellidae family     | 4/27/2025 |
| Corthylipe calendula   | Ruby-crowned Kinglet    | Regulidae                | 4/16/2025 |
| Empidonax hammondi     | Hammond's Flycatcher    | Tyrannidae family        | 4/16/2025 |
| Melanerpes uropygialis | Gila Woodpecker         | Picidae family           | 4/16/2025 |
| Melospiza fusca        | Canyon Towhee           | Passerillidae family     | 4/16/2025 |
| Myiarchus cinerascens  | Ash-throated Flycatcher | Tyrannidae family        | 4/16/2025 |
| Oreothlypis luciae     | Lucy's Warbler          | Parulidae family         | 4/16/2025 |
| Phainopepla nitens     | Phainopepla             | Ptiliognathidae family   | 4/27/2025 |
| Pyrocephalus obscurus  | Vermillion Flycatcher   | Tyrant flycatcher family | 4/16/2025 |
| Tyrannus vociferans    | Cassin's Kingbird       | Tyrant flycatcher family | 4/16/2025 |
| Zenaidura macroura     | White-winged Dove       | Columbidae family        | 4/16/2025 |

To download this document, go to the Living Desert Alliance website; then Events; Santa Rita Mtns BioBlitz and click on the link "BioBlitz Executive Summary"

<https://livingdesertalliance.com/santa-rita-mtns-bioblitz>

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