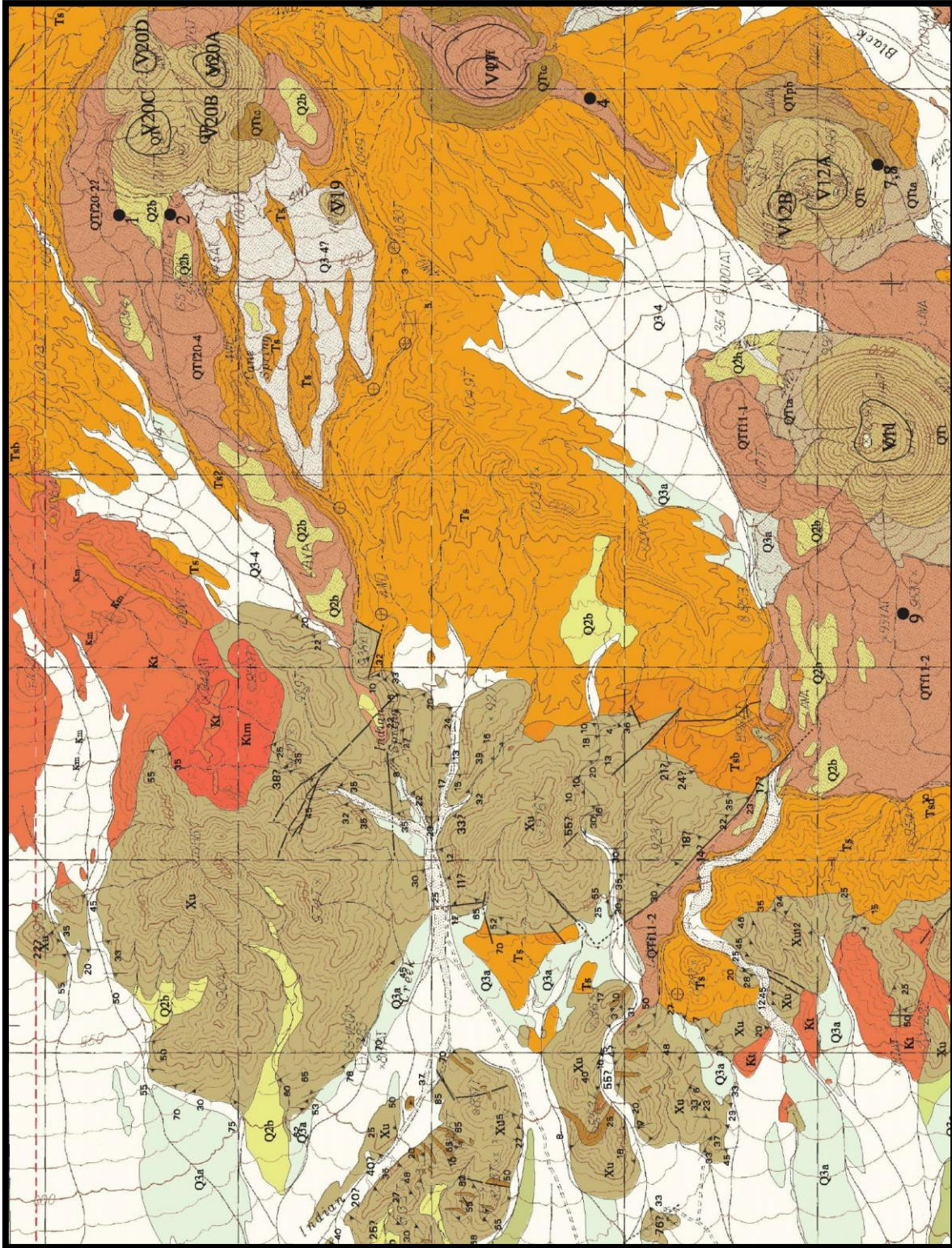




# Blueprint Earth Field Guide



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## Plants

Note that this list is not comprehensive. If you are uncertain of the identification you've made of a particular plant, take a picture and a voucher (when possible) and discuss your observations with the Supervisory Scientist team.

### Trees & Bushes

Joshua tree - <i>Yucca brevifolia</i>	Parry saltbush - <i>Atriplex parryi</i>
Mojave sage - <i>Salvia pachyphylla</i>	Creosote bush - <i>Larrea tridentata</i>
Mojave yucca - <i>Yucca schidigera</i>	Chaparral yucca - <i>Yucca whipplei</i> Torr.
Desert holly - <i>A. hymenelytra</i> Torr.	Manzanita - <i>Arctostaphylos</i> Adans.

### Cacti

Barrel cactus - <i>Ferocactus cylindraceus</i> var. <i>lecontei</i>	Jumping cholla - <i>Cylindropuntia bigelovii</i> Engelm.
Foxtail cactus - <i>Escobaria vivipara</i> var. <i>alversonii</i>	Silver cholla - <i>Opuntia echinocarpa</i> var. <i>echinocarpa</i>
Pencil cholla - <i>Opuntia ramosissima</i>	Cottontop cactus - <i>Echinocactus polycephalus</i>
Hedgehog cactus - <i>Echinocereus engelmannii</i> var. <i>chrysocentrus</i>	Mojave mound cactus - <i>Echinocereus triglochiderus</i> var. <i>mojavensis</i>
Beavertail cactus - <i>Opuntia basilaris</i>	

### Grasses













Indian Rice Grass - <i>Oryzopsis hymenoides</i>	Bush Muhly - <i>Muhlenbergia porteri</i>
Fluff Grass - <i>Erioneuron pulchella</i>	Red Brome - <i>Bromus rubens</i>
Desert Needle - <i>Stipa speciosa</i>	Big Galleta - <i>Hilaria rigida</i>

















### Flowers








 <p>Woolly Amsonia <i>Amsonia tomentosa</i></p>	 <p>Brittlebush <i>Encelia farinosa</i></p>	 <p>Chia <i>Salvia columbariae</i></p>	 <p>Chuparosa <i>Justicia californica</i></p>
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 <p>Bigelow Coreopsis <i>Coreopsis bigelovii</i></p>	 <p>Sacred Datura <i>Datura wrightii</i></p>	 <p>Desert five-spot <i>Eremalche rotundifolia</i></p>	 <p>Desert Calico <i>Loeseliastrum matthewsii</i></p>
 <p>Desert Chicory <i>Rafinesquia neomexicana</i></p>	 <p>Desert Larkspur <i>Delphinium parishii</i></p>	 <p>Desert Sunflower <i>Geraea canescens</i></p>	 <p>Desert Lupine</p>
 <p>Desert Marigold <i>Baileya multiradiata</i></p>	 <p>Desert Star <i>Monoptilon bellioides</i></p>	 <p>Desert Sunflower <i>Geraea canescens</i></p>	 <p>Dune Evening Primrose <i>Oenothera deltoides</i></p>

 <p>Globe mallow <i>Sphaeralcea ambigua</i></p>	 <p>Indigo Bush <i>Psoralea argophylla</i> var. <i>minutifolia</i></p>	 <p>Lilac Sunbonnet <i>Langloisia setosissima</i></p>	 <p>Lupine</p>
 <p>Mojave Aster (Desert Aster) <i>Aster mohavensis</i></p>	 <p>Desert Sand Verbena <i>Abronia villosa</i></p>	 <p>Desert Senna <i>Senna armata</i></p>	 <p>Yellow Cup</p>
 <p>Fiddleneck <i>Amsinckia tessellata</i></p>	 <p>Blue Dick <i>Dichelostemma capitatum</i></p>	 <p>California Poppy <i>Escholtzia californica</i></p>	 <p>Cream Cup <i>Platystemon californicus</i></p>
 <p>Davy Gilia <i>Gilia latiflora</i>, ssp <i>Davyi</i></p>	 <p>Desert Dandelion <i>Malacothryx glabrata</i></p>	 <p>Desert Lily <i>Hesperocallis undulata</i></p>	 <p>Desert Parsely <i>Lomatium mojavnense</i></p>

			
Fremont's Pincushion <i>Chaenactis fremontii</i>	Goldfields <i>Lasthenia californiaca</i>	Lacy Phacelia <i>Phacelia cryptantha</i>	Owl's Clover <i>Castilla exserta</i>
			
Pigmy-leaved Lupine <i>Lupinus bicolor</i>	Red Maid <i>Calandrinia ciliata</i>	Red Stem Filaree <i>Erodium cicutarium</i>	

## Animals

Note that this list is not comprehensive. If you are uncertain of the identification you've made of a particular animal, take a picture and/or audio recording of the animal, its tracks or burrow, and discuss your observations with the Supervisory Scientist team.

## Mammals

American Badger	Big Free-tailed Bat	Bighorn Sheep
Black-tailed Jackrabbit	Bobcat	Borra's Pocket Gopher
Brazilian Free-tailed Bat	Brush Mouse	Cactus Mouse
California Leaf-nosed Bat	California Myotis	Coyote
Deer Mouse	Desert Cottontail	Desert Kangaroo Rat
Desert Pocket Mouse	Desert Shrew	Desert Woodrat
Gray Fox	House Mouse	Kit Fox
Little Pocket Mouse	Long-tailed Pocket Mouse	Merriam's Kangaroo Rat
Mountain Lion	Mule Deer	Pallid Bat
Panamint Kangaroo Rat	Porcupine	Pronghorn
Raccoon	Ringtail	Rock Squirrel
Round-tailed Ground Squirrel	Southern Grasshopper Mouse	Spotted Bat
Striped Skunk	Townsend's Big-eared Bat	Western Harvest Mouse
Western Pipistrelle	White-tailed Antelope Squirrel	Yuma Myotis
Wild Horse	Wild Burro	



## **Lizards**

Chuckwalla	Desert Iguana	Collared lizard
Whiptail Lizard	Desert Spiny lizard	Zebra-tailed lizard
Horned Lizard	Mojave Fringe-toed lizard	Side-blotched lizard
Long-nosed Leopard lizard	Long-tailed brush lizard	Desert Night lizard

## **Snakes**

Mojave Rattlesnake	Sidewinder	Speckled Rattlesnake
Western Diamondback	Red Racer	Gopher Snake
Rosy Boa	Mountain Kingsnake	Coachwhip
Common Kingsnake	Glossy Snake	Long-nosed Snake
Night Snake	Spotted Leaf-nosed Snake	Striped Whipsnake
Western Ground Snake	Western Lyre Snake	Western Blind snake
Western Patch-nosed snake	Western Shovel-nosed Snake	

## **Turtles**

Desert Tortoise	Western Pond Turtle
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## **Insects & Spiders**

Arid Lands Honey Ants	Aztec Pygmy Grasshopper	Bee Assassin
Blister Beetle	Broad-necked Darkling Beetle	Carolina Wolf Spider
Centruroides Scorpions	Cochineal Bug	Creosotebush Grasshopper
Desert Tarantula	Giant Vinegarone	Green Valley Grasshopper
Inconspicuous Crab Spider	Jerusalem Cricket	Little Black Ant
Mormon Cricket	Obscure Ground Mantid	Pale Windscorpion
Pallid-winged Grasshopper	Red Velvet Ant	Rough Harvester Ant
Spine-waisted Ants	Tarantula Hawk Wasp	Texas Carpenter Ant
Thistledown Velvet Ant		

## **Butterflies & Moths**

Antillean Blue	Becker's White	Behr's Hairstreak
Bordered Patch	California Cankerworm	Chara Checkerspot
Common Sulphur	Desert Checkerspot	Desert Gray Skipper
Desert Green Hairstreak	Desert Orange Tip	Desert Swallowtail
Great Basin Sootywing	Gray Metalmark	Large California Spanworm Moth
Large White Skipper	Leda Hairstreak	Monarch
Pahaska Skipper	Painted Lady	Pale Blue

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Pearly Marbling	Phaon Crescent	Queen
Sandhill Skipper	Short-tailed Black	Sleepy Orange
Small Blue	Texan Crescent	Western Pygmy Blue
White-lined Sphinx	Yucca Giant Skipper	

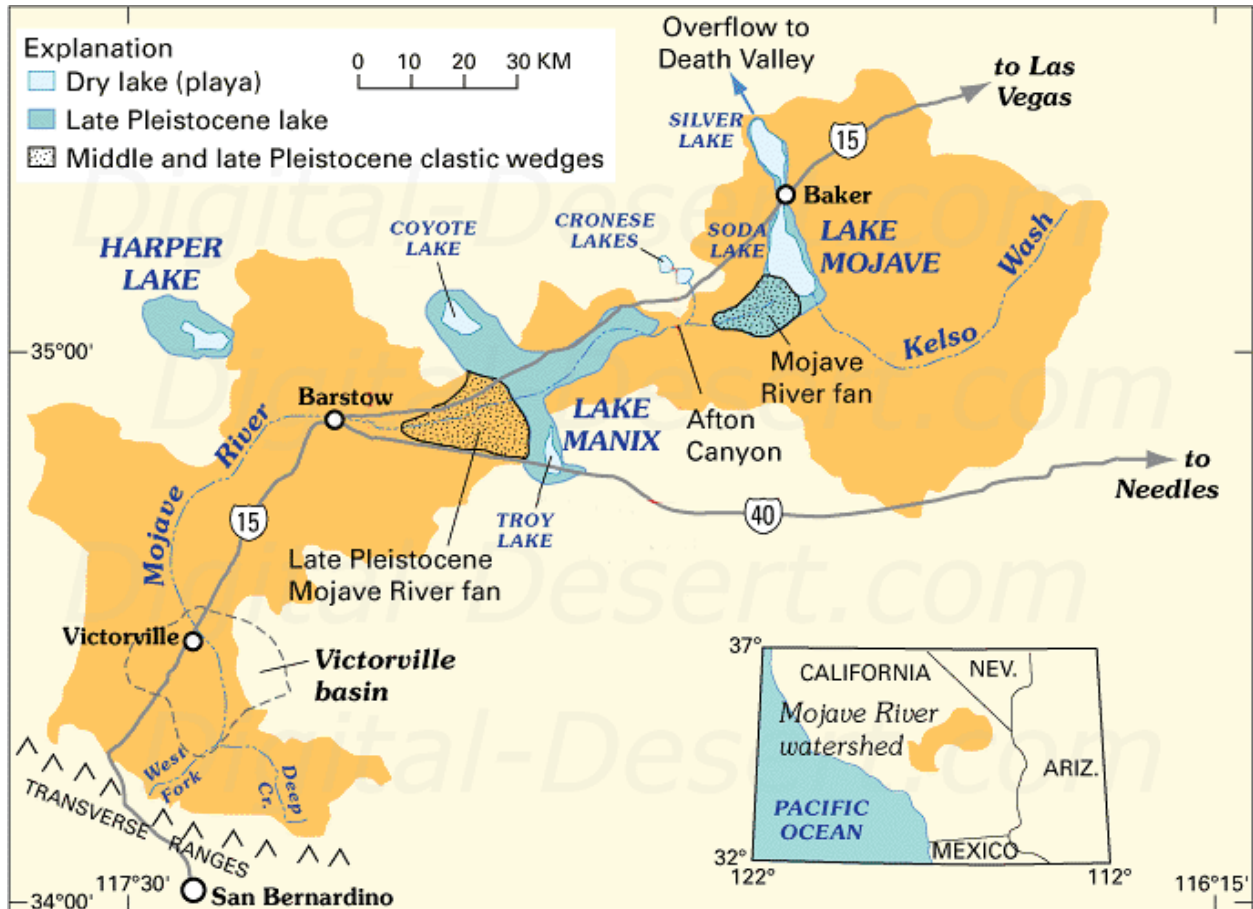
## ***Birds***

Mountain Quail	Gambel's Quail	California Quail
Chukkar	Turkey Vulture	Cooper's Hawk
Red-tailed Hawk	Golden Eagle	American Kestrel
Prairie Falcon	Swainson's Hawk	American Coot
Rock Pigeon	White-winged Dove	Mourning Dove
Greater Roadrunner	Barn Owl	Western Screech-Owl
Great Horned Owl	Elf Owl (extirpated)	Burrowing Owl
Long-eared Owl	Common Poorwill	Anna's Hummingbird
Costa's Hummingbird	Ladder-backed Woodpecker	Black Phoebe
Say's Phoebe	Loggerhead Shrike	Western Scrub-Jay
Pinyon Jay	Common Raven	Oak Titmouse
Verdin	Bushtit	Cactus Wren
Rock Wren	Canyon Wren	Bewick's Wren
Blue-gray Gnatcatcher	Black-tailed Gnatcatcher	Northern Mockingbird
California Thrasher	LeConte's Thrasher	European Starling
Phainopepla	Spotted Towhee	California Towhee
Great-tailed Grackle	Lesser Goldfinch	House Sparrow
Northern Flicker	Ash-throated Flycatcher	Black-headed Grosbeak
Black-throated Sparrow	Brown-crested Flycatcher	Hermit Warbler
Summer Tanager	Vermilion Flycatcher	Western Tanager
Killdeer	Lawrence's Goldfinch	Wilson's Warbler
Townsend's Warbler	Ruby-crowned Kinglet	Common Yellowthroat
Clark's Grebe	Western Grebe	Pied-billed Grebe
Double-crested Cormorant	Belted Kingfisher	American Avocet

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## Hydrology



Cane Spring east, north, west, west (top), south seep

**MOJA Spring ID(s):** INSP 1-4, 6

**General Location:** Indian Spring

**Elevation:** 978 – 1045 m

**Vegetation:** *Pluchea*, *Anemopsis*, *Baccharis* (Cane Spring east). Riparian vegetation grows in the drainages of Cane Spring south seep. *Anemopsis californica* w/*B. sergiloides*, Asteraceae shrub, *Baccharis sergiloides*, *Isomeris arborea*, wetland monocot; tall, dry, pithy-reedy stem, *Nicotiana* under rock with dead cholla, *Pluchea sericea*; grass in lower pool, small, sedge-ish plant, algae in pool, grass & *Typha* at Cane Spring west.

**Animal Use:** deer, burro, Say's phoebe, Ruby crowned kinglet, tadpoles, frogs, Big Horn Sheep

**Discharge:** <1 l/m

**Water quality:** At Cane Spring west (top): pH: 8.48, Conductivity: 1588 ( $\mu\text{S}/\text{cm}$ ), TDS: 791 mg/l

**Site Condition:** Cane Spring west (top) is a natural desert spring! Situated in a stream channel within a lava flow. The seepy/wet area is stratigraphically below the lava. Surface water and small flow for approx. ½ mile. Ample burro signs; many bones; great plant diversity.