



ADMINISTERING
CAMPUS
UC Riverside

ESTABLISHED
1966

LOCATION

Riverside County, 13 km (9 mi) north of Idyllwild on State Highway 243.

SIZE

12 hectares (30 acres); plus additional 65 hectares (160 acres) at satellite reserve Oasis de Los Osos.

ELEVATIONS

Reserve: 1,623-1,692 m (5,325-5,550 ft)
Black Mountain: 2,369 m (7,772 ft)

AVERAGE PRECIPITATION

665 mm (26.21 inches)

AVERAGE TEMPERATURES

January: -2°C (28°F) to 12.2°C (54°F)
August: 10.5°C (51°F) to 28.8°C (84°F)

FACILITIES

Trailfinder Lodge Dormitory for 25 (kitchen, dining/ meeting room, 2 baths); tent campground for 10; campfire circle; outdoor BBQs; data center, electronics workbench, workshop, library, herbarium, faunal collections; weather station; internet-accessible sensor network arrays for climate, soils, phenology, canopy, and avian observations; trail system. Day and overnight fee required.

DATABASES

ArcGIS data library, airborne and satellite imagery for San Jacinto and Santa Rosa Ranges, species database for Hall Canyon and San Jacinto Range, annual bird banding records, bibliography, climate monitoring records including below-and above-ground sensor network, digital image archive.

PERSONNEL

On-site reserve director; administrative assistant, electronics technician, reserve steward, facilities manager/senior development, senior building maintenance worker, NRS information manager.

CONTACT INFORMATION

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UC James Reserve
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UC NRS WEBSITE

<<http://nrs.ucop.edu>>

James San Jacinto Mountains Reserve

The James San Jacinto Mountains Reserve is located on an alluvial bench situated at the lower end of Hall Canyon, on the steep western flank of Black Mountain—the northernmost extent of the Peninsular Range. This 30-acre reserve encompasses a variety of plant communities with a range of seral conditions: Sierra mixed-conifer forest, oak woodlands, montane chaparral, alder-willow-cedar riparian forest, and dry meadows. Also present onsite are springs and seeps and a perennial flowing stream (Indian Creek) feeding into manmade reservoir, Lake Fulmor, located just outside the reserve. The watershed surrounding the James Reserve is protected by the U.S. Forest Service as a Research Natural Area (RNA). There are records of 259 species of vascular plants, 35 bryophytes, 6 amphibians, 18 reptiles, 125 birds (60 percent nesting), 35 mammals, and ~1,000 invertebrates.

Operating as a satellite to James, the 65-hectare/160-acre Oasis de los Osos Reserve is located at the west end of the Coachella Valley, north of Palm Springs, and was donated by The Nature Conservancy (TNC).

SELECTED RESEARCH

Avian population studies, avian acoustical monitoring, geospatial approaches to modeling ecosystem processes/habitats, *Drosophila* genetics, embedded networked sensing for ecological observatories, bryophyte ecology, mycorrhizal/soil ecology, biogeochemical cycles.

LONG-TERM MONITORING

Weather and microclimate; avian banding station; multi-scale automated video monitoring for plant phenology and avian activity; multi-location microclimate sensor array, soil environmental sensors and automated rhizotron sensor array, mobile canopy microclimate sensor platforms.

FIELD COURSES

Extensive university-level courses in outdoor biology, botany, zoology, ornithology, forest ecology, biogeography, geology; summer undergraduate internship program.

PUBLIC OUTREACH

Local community welcome for tours and courses on site; K-12 students visit for day and overnight field trips; web access to databases, real-time sensor networks, and geospatial data; website video observatories (bird feeders and nest boxes) at <<http://www.jamesreserve.edu/>>.