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DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE YOSEMITE NATIONAL PARK

YOSEMITE NATURE NOTES

olume III	11ay 31, 1924		Namber 5
semite Nature Guide Service		C. P.Russell,	Park Naturelist
This is one of	a series of bulleting issued	from time to	time for the

nformation of those interested in the natural history and scientific features of ne park and the educational opportunities the park affords for the study of these bjects.

Utilization of these bulletins by those receiving them to the end that the information contained therein night be as extensively distributed as possi-

W.B. Lewis. Superintendent.

. BEGINNING FIFTH YEAR OF EDUCATIONAL WORK (U.S.N.P.S.)

Monday, June 2, will see the opening of the fifth season for the Esemite Nature Guide Service. That the Yosemite visitor may nore fully appreciate the natural wonders preserved for him a corps of scientists are employed as guides and informants.

Dr. H.C. Bryant of the California Fish and Game Commission, who stablished the service in 1920, will again direct the activities in 1924. Dr. P.A. chenbauer, University of Nevada; Dr. Wm. G. Vinal, Rhode Island College of succation; Mr. M.B. Nichols, Oakland, California; Mrs. Enid Michael, Yosemite; and .P.Russell, Yosemite will make up the staff.

In 1923 more than 100,000 persons took advantage of the trips afield

and the camp fire and museum lectures that are provided free by the Nature Guide Service. Every effort will be made this year to acquain visitors with the opportunities awaiting them, and the total number who benefit should be greater than ever. An important feature of the 1924 season will be the opportunity to to with a free guide to the great wild summit region of the Yosemite. The establishent of seven well located hikers camps will put this privilege within reach of everyone. Information on field trips and all phases of natural history may be obtained at the Yosemite Museum.

"Learn to read the Trailside".

BOOK ON YOSEMITE ANIMALS PUBLISHED.

A greatly felt want has been filled by the publication of "Animal Life in the Yosemite", by Grinnell and Storer. The volume contains 752 pages, is a Intribution from the Museum of Vertebrate Zoology, University of California, is ablished by the University of California Press, and sells for \$7.50.

The thorough treatment of distribution, field characters for identificatm, feeding habits, breeding habits, migration, songs and voices, and general tivities makes this book alluring to all nature lovers and almost indispensable Sierra Nevada enthusiasts.

Three hundred and fifty-five kinds of terrestial vertebrates are considerin the work. The very comprehensible life zone map and its accompanying stributional charts present an index to Yosemite wild life and its occurrence wing nothing to be desired. It is most gratifying to find in the accounts of e species that information pertinent to the locality only is given. It is all pat"; there is no digging through a mass of material for the facts wanted.

Quoting from the preface, "Anyone who leaves the region (Yosemite) "ithstathering some definite knowledge of its Natural History has failed to get equate gain from his opportunities." The Yosemite Nature Guide Service welcomes as splendid ally in the work of teaching the public to know their Park.

THE RED-BREASTED NUTHATCH (Sitta canadensis)

At six-thirty on the evening of May 19 we saw one of the nuthatches ing in an unusual manner. His nest-hole is in the dead stub of a living cottontree fourteen feet above the ground. Fifteen feet away is a bruised pine with pitch cozing from a fresh scar. In ten minutes time the nuthatch made in round trips between the pine tree and his nest-hole. Each trip to the pine would take a little dab of pitch on his bill, fly to the cottonwood, and it about the entrance to the nesting cavity. Each time after stearing the h, he would carefully wipe off his bill on a branch. On one trip he came with insect in his bill and vent into the nest, probably to feed his mate. Fred ale

When the female nuthatch leaves the nest, as she occasionally does during the day, the male stands guard on a twig directly in front of the nest hole.

On May 20 while on guard a Willow woodpecker came to investigate the nest hole. The nuthatch became aggressive at once. With fluttering wings and raised tail he dived at the woodpecker in his most belligerent manner. The woodpecker spiraled the stub with a jerky movement dodging the nuthatch, but the demonstration became too hot for him and he flew to a pine tree thirty feet away. The nuthatch followed, and then came a most peculiar performance. The little fighting Redbreast alighted on the pine trunk a few inches from the woodpecker, and there, hanging by his toes head downward, he spread his wings and his tail to the utmost. In this position, swaying like a great furterfly in the very face of the woodpecker he succeeded in accomplishing his aim, which was to drive the woodpecker from the neighborhood. Swinging in the air with just his toes clinging to the bark, the nuthatch looked more like a toy parachute that was caught by a thread than like a living bird, It certainly was a most remarkable display of avian gymnastics. While the above described activities were taking place the muthatch uttered a few scolding notes, but not once during the drama did the woodpecker utter an audible note. ---Enid Michael

> MOUNTAIN DOGWOOD (Cornus Muitallii)

Of all the trees of shrubs to bloom during May in the Yosemite the Lountain Dogwood is the most glorious. Its great white butterfly blossoms come before the leaves are fairly unfolded. The flowers are alight with a pure white fire that illumines the dusky forest where they grow. If a group of these trees chances to grow in an open space, their strange radiance seems to whiten the yellow sunshine and at night they shine forth with amazing brightness.

The blossom is from four to six inches in diameter. Its unusual size is due to the whorl of petal-like bracts. This blossom is not one flower but a cluster of flowers, for the disk around which the bracts are growing supports a bead of small flowers. The beautiful bracts are no part of the individual flowers, their function being to lend ethereal beauty to the fragrant flower head and ittract moths and other pollen bearers to the Dogwood's honey feast.-Enid Michael

THE A. J. BROWN COLLECTION DONATED TO YOSEMITE MUSEUM

Mrs. A. J. Brown of Burlington, Kansas, has recently placed her splendid ellection of interesting Indian artifacts and relics in the Ethnology room of by Yosemite Museum. There are 622 specimens in the collection, which add greatly the value and interest of the Museum's exhibits. Such splendid cooperation Mrs. Brown has shown has made it possible to make the Yosemite Museum a success so short a time. The National Park Service and the thousands of Museum visitseretly appreciate the generous interest shown by donors. Among the articles

in Mrs. Brown's collection are:

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Indian snow shoes, bow and quiver, steel tipped arrows, bone awls, a Calumet pipe of catlinite, a Haida basket, a New Mexican water bottle, an Apache basket, a Pomo basket, an Arizona basket, a New York basket, stone drills, stone borapers, a California stone bowl, grooved axes, polished adzs, mortars and bestles, mullers, discoidal hammer stone, tomahawk heads, polished stone disks, ligging stick stones, tubular pipes, stone pipe bowls, beaded moccasins, beaded pouch, banner stone ornament, perforated stone ornaments, perforated bone ornaent, grass, bead, and bone combination ornament, porcupine quill ornament, flint and obsidian knives, and 532 arrow and spear points.

TELLING YOSEMITE'S STORY

1. Older Theories of Yosemite's Origin.

This is the first of a series of notes on the geology of the Yosemite region. The entire story will be told in succeeding numbers of "Nature Notes".

It is not surprising that the earlier investigators failed to recognize the extraordinary features of Yosemite Valley the evidences of every-day erosionprocesses. The appearance of the great gorge seems to demand an unusual explantion - causes of a cataclysmal sort.

As great a geologist as Professor J. D. Whitney declared that it was bound to suppose that ice might have had anything to do with the forming of the alley. He believed that the great chasm resulted from the sinking of a local lock of the earth's crust having the outlines of the Valley.

To Galen Clark it seemed that only a great explosion of close set domes molten rock could have produced Yosemite characters. He proposed the suggestion int ice and water might have subsequently smoothed out the canyon to its present

Professor Silliman believed that an earthquake ruptured the west slope the mountains opening up a great rent, which was later partly filled with debris the walls.

It remained for Clarence King to point out the important part that ice yed in fashioning the Yosemite. In his classical chapter on "Yosemite Walls" relates of his studies of "Systems of moraines and glacier marks". This was in fall of 1864 when he was engaged in surveying the boundaries of the Yosemite int.

John Muir went further and gathered from his studies that the Yosemite all other canyons of the Sierra were almost wholly glacier carved.

Others, chief anong whom was H. W. Turner, held that the Yosemite was strely stream cut. Because of the strong vertical joints in the Yosemite granite, ster was enabled to cut the peculiar formations.

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Then came investigators who found that both water and ice played a part. Certain characteristics may not be accounted for by ice and water action alone, they explain, but every-day erosion has been able to produce Yosemitic features because of the structure of the local rocks. Mr. F. E. Matthes of the U. S. Geological Survey is the great head of this group of geologists who have learned these facts. To him we are indebted for the very clearly written interpretation of the story in the granite, and it is his story that is being repeated to thousands by the Yosemite Nature Guide Service. A "Sketch of Yosemite National Park" by Mr. Matthes may be purchased at the National Park Service offices in Yosemite.

AN OWL THAT BARKS

Visitors who have made the evening trip to the bear pits recently are curious to know the origin of the yapping and barking heard in the tree tops there. Probably the sounds came from the California Spotted Owl. The bird is of medium size, about nineteen inches long. On the evening of May 23 one of these might hunters was heard in the dense gloom of an Incense Cedar growing near the bear feeding platform. When an attempt was made to approach the tree, the owl flapped out and alighted on the dead top of another Incense Cedar n arby. Here he was clearly outlined against the pale sky and the rounded silhouette of the head showed that ear tufts were lacking. The notes sound much like the yelping of a small dog.

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Dan Anderson