# YOSEMITE NATURE NOTES



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# **Yosemite Nature Notes**

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# Our Nature Program for Children

By RANGER NATURALIST REYNOLD E. CARLSON

a few of the people who enter them Nature School was organized. take full advantage of the opportional parks. With children, on the phenomena. other hand, the situation is altered. to come.

tion will find increasingly in our hour was introduced.

The ational parks have been set which are so much more easily imaside for the enjoyment and in- pressed upon children than upon spiration of the people of the na- adults. It was with this purpose tion; yet, it is needless to say only in mind that the Yosemite Junior

During the past summer 379 inditunities there offered. It is to aid vidual children were from time to the visitors in gaining a fuller un-time in attendance on the field derstanding and appreciation of our trips of the school. All activities parks that the educational service is were conducted with the thought offered the visiting public. However, uppermost that children should bethe interests of most adults have al- come interested in the world of naready been fixed by past experi- ture. The measure of success was ences, and many of them are in- not in the actual facts garnered, capable of gaining the fullest meas- but in the development of a wholeure of understanding from our na- some attitude towards all natural

An outline of the school's pro-Here is an opportunity to develop gram is the best method of describan attitude towards the world of na- ing its activities. Each morning ture that will be an inestimable from 9 to 10 the children under 10 source of fruitful pleasure in years years of age met in the Junior Nature School Clubrooms at the Mu-The next generation of adults seum. In the first five to fifteen who will doubtless have more leis minutes the subject upon which the ure time than the precent genera group was concentrated for the national parks and in all of nature were generally devoted to trees, a worthy use of that leisure. While Tuesdays to birds, Wednesdays to the next generation is still in its animals, Thursdays to flowers and childhood is the time for instilling Fridays to miscellaneous subjects. those lessons in conservation and such as rocks, history, Indians, etc. appreciation of the out-of-doors Fridays were also used on four occasions for children's caravan trips to the fish hatchery. Indian caves, bears, and "bird-man," all of which are interesting to children. The introduction for the day consisted frequently of the showing of mounted specimens from the museum, of talks about materials brought in by the children, or of a study of flower parts. The balance of the hour was usually spent in a short nature walk in which an effort was made to cultivate alert observation of all natural phenomena, but especially of the subject for the day. Nature games were often used to help maintoin interest and enthusiasm. several occasions short stories about nature subjects proved very effective.



The time from 10 to 11:30 was set aside for the children from 10 to 15 years of age. With this group the same general type of prygram was used except that the material was adapted to the older children. The longer time of meeting gave a greater opportunity for short talks on such subjects as the discovery of the valley, Indian customs, plant reproduction, etc.

The greatest problems presenting themselves in the school were the difference in background and abilities of the children and the difference in length of stay in the school, In order to care for the more advanced group and for those who would spend several weeks in the valley, two test cards and an award card for achievement were worked out. The card for the younger children consisted of 15 definite goals to be achieved, such as identifying trees and learning the ant-Lons method of obtaining food. The test card for the older group consisted of 26 achievement tests of a more difficult nature. The emphasis in the test cards was placed on the observation and understanding of the things that were to be seen felt or heard in the Yosemite Valley and an understanding of its interesting history. The test cards succeeded in stimulating and giving a real sense of achievement to those children who might not be interested in the classroom repetition necessary for the benefit of the new children who were spending only a few days in the valley.

The tests were given by a number of volunteer leaders, each of whom daily took two or three of the children on short walks for the specific purpose of giving them opportunities to pass tests. The testing was made difficult enough to provent too rapid completion, the average time for the completion of the whole card being about seven days. After a student completed the test requirements, he was given a certificate signed by the park superincamp fire program. In the course two acres at Rocky Point. of the six-week session 46 children completed their tests and earned the award. Those over 13 years of age who had finished their tests were given an opportunity to demonstrate leadership ability and wide general knowledge of the natural history of the Yosemite region. If they seemed capable they were then classified as junior leaders and given the opportunity of helping other students and of passing other students in tests. Five children in the course of the summer were given the classification of junior leaders.

A large group of the advanced children, headed by capable leaders, used much of their time in starting what may some day become a worthy junior museum. Interesting exhibits covering several phases of the natural history of Yosemite were et up.

In all of the program of the school the endeavor was made to appeal to as many of the senses as proble and to attempt to create a vital interest in all of nature. This year marks the fourth year of this Junior Nature School in our Yosemte naturalist program. Enthusiastle response proves the worth of the effort.

#### PLANT LIFE ON ROCKY POINT

#### By Eanger Naturalist Reynold E. Carlson

A struggle for existence, with all its dramatic interest, may be read today by the nature student at Rocky Point in Yosemite Valley.

Exactly 11 years ago this Febru-

tendent at the camp 15 evening ary a new rock slide covered some eastern section received the heaviest slide, with the result that all existing vegetation was swept away or covered by the new rock.

> Since that time new flowers, new shrubs and new trees have sought to gain a foothold on this barren eastern slope. Today the evidence of their success is plentiful. large number of annuals and shrubs, which seem to be preparing the soil for a forest to follow, have appeared in spite of the rocky character of the slope. Yawning pentstemon, yerba santa and Brickellia californica are the most common of the many shrubs.

> Numerous young trees have appeared, so that the eventual appearance of a forest stand seems likely, it being probable that the trees will finally win out in the struggle for existence over the plants that first appeared on the slope.

The western yellow pine is the most common tree in the section. There are approximately 30 trees of this species less than two feet high, 10 from two to four feet and five over four feet, making a total of nearly 50 trees ranging from six inches to over six feet in height.

Young Douglas firs, golden-cup oaks, incense cedars, broad-leaf maples, elderberries, yellow willows and alders are also present. The fact that the majority of these trees are under two feet in height indicates that during the last few years conditions have been especially favorable for their growth. these young trees seem to be in a very healthy condition.



### Rare Bird Observations

By A. E. BORELL Naturalist

Probably most visitors to Yosem- 9000 feet elevation. As I passed ite feel that the park naturalists through a swampy area a Wilson have little chance to do more than snipe flushed close by and few up give talks and guide parties on various trips. This is largely true of the summer months, but during the remainder of the year the naturalist has a wide range of duties, some of which take him into the less civilized portions of the park and give him an opportunity to make observations on the wild life.

Recently Mr. Beatty and I made the Tuolumne a 10-day trip to Meadows region, where we gathered data on the Lyell, Maclure. Conness and Kuna glaciers, Among other things we recorded two birds that are rare in Yosemite National Park.

#### WILSON SNIPE

The Wilson snipe is a bird that is known to those who frequent the marshes of the San Joaquin and Sacramento valleys, but is very rarely seen inside the park. It has been reported from Yosemite vally, but has, so far as I can learn, never been recorded from any oth-

the river, giving me a chance for positive indentification.

#### HORNED LARK

As I entered the upper end of Tuolumne Meadows on the same day, another rare bird was encountered. This was a small brownish bird which was foraging short grass of the dry meadow permitted me to approach to within 15 feet and I found that it was a horned lark. The following day (October 25, 1933) Mr Beatty and I observed a flock of about 10 horned larks in the Dana meadows at about 9800 feet elevation. So far as I can learn, horned larks have not been recorded previously from Tuo'umne or Dana meadows and there are very few records of this species inside Yosemite National Park boundaries

#### POOR-WILL

Shortly before leaving on the glacier trip I saw the first poorwill that I have ever seen in Yosemite. er part of the park. On October Poorwills, because of their noctur-24, 1933, I was hiking along the Ly- nal habits, are rarely seen except ell fork of Tuolumne river at about by those who recognize them at

on bread crumbs which had been placed there for bait. As poorwills are insect feeders, it is not likely that this one entered the trap for the bait.

Although records of the occurrence of birds in Yosemite National Park have been made since 1851. still hardly a year passes during which a new bird is not added to the list. Records of rare visitors or extension of the range of the more common species are made almost monthly. The fact that our bird population is not constant and new observations are always possib'e adds stimulus to the study of birds.

#### "AIR-MINDED" BIRDS

#### By Ranger Naturalist Craig Thomas

"Air-mindedness" has taken the country by storm in the past few years, but some of Yosemite's ground and tree-living birds seem to have beaten the country to it.

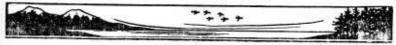
night as they fly up from the road. The blue-fronted jays usually spend at the approach of a car. On the their time hunting for acorns, berwest slope of the Sierra they 'ive ries, ground-crawling insects and primarily in the upper Sonoran life their larvae and nuts. The woodzone, but occasionally they stray peckers hunt for acorns and treeas high as Yosemite valley, which boring insects; the robins scurry is in the transition zone. However, across the ground in search of poorwills are so rare here that tew worms and insects that may be hidresidents and visitors of Yosemite ing there. Yet each of these three have ever seen one. On the morn- kinds of birds has been seen sitting ing of October 6, 1933, I found a on a branch which forms a vantage poorwill in one of our banding point from which to survey a gartraps. The trap was set on the den or open glade. Carefully they ground beneath an open stand of watch the air lanes, and when young white fir in Camp 19. The moths and beetles fly by, out they poorwill probably hopped into the dart in the most approved flycatchtrap by accident or went in after er style, taking a buffet supper as insects that may have been feeding they go and return to the same



Blue-fronted Jay

(Cyanocitta stelleri frontalis)

branch to await a second course. It would seem that this change in the menu and style of getting food would correspond to a beach picnic in our summers. At least they give every ev'dence of having a good time without the subsequent cleaning up we must go through after our picnics.



## Camping in Yosemite

#### A. E. BORELL Naturalist

Living in a tent has it disadvantages but it also has advantages; especially to those who derive real enjoyment from seeing wild animais in their natural state. A ranger in Yosemite, who formerly lived in a tent, remarked that he enjoyed the conveniences of the house recently assigned to him but missed being close to the out-of-doors as he was when he lived in a tent.

It has been my pleasure to live in a tent in Camp 19 for about 12 months during the past two years. Our tent, in the naturalists' section of Camp 19, was located among pines an firs at the base of a talus stope. During part of the time noone else lived in the camp so there was little to disturb the animal life Birds of many species were about the tent every day. Food placed on tables was always an attraction and enabled us to observe at least 15 species of birds at close range.

Deer passed through the camp almost daily and usually stopped to see if there was any food on the tables. We noticed during one period that all of the food disappeared every night, even the crumbs were gone. Something besides the birds and deer were cleaning the tables. One evening as we drove home the lights of the car gave us a glimpse of some animal leaping from the bird table, Perhaps it would return. We waited quietly a few minutes, then again turned on the lights and to our surprise saw two gray foxes on the table. They fed for a few less moments then jumped from the table and trotted toward the woods the day or night. A mother bear They stopped to look back at the occasionally brought her cubs to lights, one sat upon a rock and then the camp to search for food

disappeared into the night. More food was put out and the visit of the foxes became almost a nightly occurrence. They soon became tame enough for the observer to approach to within 30 or 40 feet. One evening, with the aid of a flashlight I followed the foxes back into the woods along the edge of the talus slope A rustle in the leaves caused me to turn the light to one side and there not 20 feet away was one of nature's most independent cretures-a skunk. It was busy foraging for insects or mice among the rocks and leaves and paid little at tention to me. As usual, the skuns tended strictly to its own affairs so long as I did not disturb it.

Occasionally a coyote was seen from the door of the tent and we could expect at least one bear to v.s.t the camp sometime during

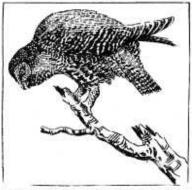


people have never even heard. Al. talons the lifeless body of the jay. though relatives of the raccoons, they are called miners' cats or ring-tailed cats, and the reason so few people see them is because they are strictly nocturnal, are retiring and quiet in their movements; but the camper who lives in a quiet portion of the park may have the thrill of seeing one of these animals as it goes quietly about his tent seeking mice, insects or scraps. If the camper puts out food he may be rewarded by having the miners cat pay him a visit.

A sudden thump of something striking the tent and the scurrying of an animal obviously larger than a mouse may cause the uninitiated some alarm. If he investigates with a strong flashlight he will probably see two small glowing eyes. As he goes closer the animal will spring to a nearby tree and the camper will recognize the flying squirrel. This is another creature which came often to ferd at the bird tables Occasionally one would get caught in a bird banding trap, which would give us an opportunity to examine closely. Within a few minutes after capture it was usually tame enough to eat bits of walnut from our fingers. One of these captured squirrels was released on the base of a It promptly power line pole. climbed to the very top of the pule and glided to a tree 30 yards away

One eventual the distress cries of a blue-frinteo jay caused me to rush out it investigate. The cries became as and less vigorous and by the im I reached the tree from . bi h 'n+ disturbance came I could hear but a faint gasping

A few times during the summer A powerful flashlight revealed a months we had an opportunity to spotted owl perched on the limb of see a strange animal of which most a large yellow pine holding in its



I watched the owl for a time as it tore into the flesh of the bird and the feathers drifted toward he ground. Nature is not always =0 kind as many people would like itimagine.

These incidents give some id+a of the camper's opportunity to be come acquainted with many kinds of birds and animals and to learn something of their ways and their struggles.

#### BRIEF NOTES

#### SIERRA HERMIT THRUSH

Just below the ranger station at the Mariposa Grove, a Sierra hermit thrush's nest was observed June 30. There were four young thrushes in the nest which were nearly large enough to leave the The nest was located about two feet from the ground in a clump of chinquapin (Castanea sempervirens). Among other materials used in the construction of the nest was a considerable amount of staghorn lichen.

## Sunlight is Fatal to the Pacific Rattlesnake

By ANN HUNT,

1933 Field School, Yosemite National Park

The specimen was found by one of tried again to escape, the girls at Chowchilla Mountain thicket.

ery indifferent to us, and gave no cape. It was therefore an easy mathead with a forked stick while another grasped it behind the "ears."

Since the "amphibian specialist" wished to preserve the specimen in good shape for the Yosemite Museum, it was decided to commit the rattler to death by sunlight. At 10 01 a. m. it was placed in an open most black, and one button.

An interesting observation on the space on a gravelly surface, and amount of direct sunlight necessary prevented from escaping. It rattled to kill a Pacific rattlesnake (Cro- vigorously when aroused and irritalus oreganus) was made by the tated. After a few abortive atmembers of the Yosemite School of tempts to strike at sticks it began F'eld Natural History on July 22, to show signs of weakening and

After 13 minutes of sunlight it Ranger Station (altitude 6600 feet) rolled over once or twice, then as she was walking along an old righting itself it remained writhing fallen log in crossing an azalea somewhat for a few seconds before repeating the action. This it did The snake was about three feet four or five times. In 1712 minutes long and beautifully patterned with it was apparently dead, and rethe characteristic black markings, mained belly upward, stretched full roughly hexagonal on a gravish-length. Then a reflex action in the brown background, and was tightly head and about two inches of the coiled. It was almost perfectly pro- body was observed, the mouth opentected by cryptic coloration in this ing wide and showing the fangs and part'cular environment. It appeared trachea very clearly. During this "post mortem" action, the fangs warning except to protrude the were relaxed, whereas they had tongue, and made no effort to es- been shown in rigid fighting position before. The mouth remained ter for one of the men to secure its open wide. The body after 18 minutes of exposure to sunlight felt very warm to the touch. A swelling in the middle portion of the body indicated that the snake had recently fed. It bore seven rattles. the one nearest the body being al-

