# YOSEMITE NATURE MOTES



# A PERSONAL INVITATION.

YOSEMITE NATIONAL PARK IS YOURS! WE OF THE NATIONAL PARK SERVICE WANT TO HELP YOU TO MAKE FRIENDS WITH YOUR PARK AND TO UNDERSTAND IT IN ITS EVERY MOOD. ALL OF THE FOLLOWING SERVICE IS OFFERED TO YOU free BY YOUR GOVERNMENT:

# Visit the Yosemite Museum!

Here you will learn the full story of the Park — what tools were used by the great Sculptor in carving this mighty granite walled gorge; who lived here before the white man came; how the Days of Gold led to Yosemite's discovery; how the pioneers prepared the way for you; and how the birds and mammals and trees and flowers live together in congenial communities waiting to make your acquaintance.

Plan your trail trips on the large scale models in the Geography Room.

The Yosemite Library in the museum provides references on all phases of Yosemite history and natural history.

Popular lectures on Yosemite geology and other branches of natural history are given by nature guides at scheduled times each day.

The nature guide on duty will be more than willing to answer your questions on any subject.

# Go Afield with a Nature Guide!

Take advantage of this free service that will help you to know your Park. A competent scientist will conduct you over Yosemite trails, and from him you may learn first hand of the native flowers, trees, birds, mammals, and geological features.

See Schedule of Nature Guide Field Trips.

# Visit Glacier Point Lookout!

From there you will obtain an unexcelled view of Yosemite's High Sierra. The binocular telescope will bring Mt. Lyell to within one third of a mile from where you stand; you can recognize friends climbing trails several miles away. The Nature Guide in attendance will help you to operate it and will explain what you see.

A small library is at your command.

You will enjoy the informal nightly campfire talks given here.

# Attend the Nature Guide Campfire Talks!

In addition to the museum lectures members of the educational staff give talks as a part of the evening program at Camp Curry and Yosemite Lodge. Non-technical explanations of how Yosemite came to be; what you may expect of Yosemite bears; how the local Indians lived; what birds you see about your camps; what trout you will catch in Yosemite waters; how you may best visit the wonderland of the summit region; and scores of similar subjects are given by the National Park Service Nature Guides.

ALL OF THESE OPPORTUNITIES ARE PROVIDED FREE OF CHARGE BY YOUR GOVERNMENT.

-TAKE ADVANTAGE OF THEM-



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# OPENING NEW YOSEMITE WONDERS.

# By C.P.Russell

Park Naturalist, Yosemite National Park

The National Park Service feels of Yosemite. the opening of the wild back are miles of the 1925 square miles is yours.

Many readers have visited Yosemite

Many readers have visited Yosemite nd hundreds of dollars in renting be clear to everyone. pment, pack animals, and hiring a

Please do not misunderstand me. ntry of Yosemite is a development The Government is not operating the the greatest importance. Each year camps, but the National Park Service ,000 or so persons visit Yosemite. is so thoroughly behind the new debut a few hundred of these visitors velopment that we feel we can not ry away with them the idea that over-emphasize the desirability of accmite Valley is Yosemite National quainting everyone with the possibil-k—only a few hundred of the thou- ities. From a financial standpoint the de leave the valley floor to visit Camps mean nothing to me. I am wonderland above the "rim." Yos- telling you about this purely that you to Valey comprises but a few may be aware of the privilege that

wented spot are wonders un- and have some convertion of the marmed of by the average tourist vels that are preserved there. For the to the present it has been impos- benefit of those who have never been for the vacationist of moderate in the park I will give a brief descripms to go back on these High Coun- tion of it that the importance of this trails. The only way open was to new Hikers' Camp development may

Yosemite National Park lies directly Now a remarkable thing has east of Oak'and. Within its boundaroned. Camps have been placed in ies are contained the most spectacular chosen spots throughout the sum- and awe-inspiring features of the Sierregion of Yosemite. One may now ra Nevada Range. The eastern bounafoot for a week, two weeks or a dary of the park lies upon the very h's outing with no more thought summit of the Sierras, ten to thirteen reparation than were the trip to thousand feet above sea level. The Glacier Point and back the same western boundary is about 4500 feet At the end of each day's hike above sea level. Motorists in aparm bed and good food may be proaching the park drive up the long at prices pleasing'y low. From incline made by the mountains and Hiker's Camps one may visit a enter the preserve from the west by part of the northeastern section the Big Oak Flat Road or by the Wa-

until their time is up and they must found it necessary to pack his equipthe San Joaquin. Those tourists who tended trip into mountain fastnesses come in by the Yosemite Valley rail- with but a blanket and a small sack road experience much the same thing, of bread and tea. And there are not From Merced to El Portal they ascend many with sufficient strength and engradually, always following the canyon thusiasm to pack upon their own backs cut by the Merced River. At El Por- all of the paraphenalia necessary to tal they board a great motor bus and the success of a high mountain trip. enjoy a most beautiful fourteen mile In the past most such excursions have ride-still in the Canyon-to Yosemite been made with pack outfits. according to their tastes. They may packer, renting saddle and pack anitake the "Valley Tour," perhaps make mals, and renting elaborate equipment one climb up the 3000 foot cliffs and which goes with such an expedition. then return to the low-lands secure in There is nothing finer than the senite National Park.

National Park.

Back Country Attractive

Comparatively few tourists have disthan Yosemite Valley.

But there is another way to escape piping hot meal and a bed. e crowds that throng the valley The first unit in the series of camps the crowds that throng the valley The first unit in the series of camps floor! A year or so ago the conces- is located in Little Yosemite Valley. the idea being to provide accomoda- vada Falls. 33 feet above Yosemite

wona Road which enters from the tions far from the beaten paths at a, south. The majority of the thousands price so low that any and all vacation-who drive into Yosemite go directly ists might take advantage of them. to that part of the world-famed gorge Before the event of these remarkable, of the Merced River Known as Yos- facilities any lover of the wilds who, emite Valley, and there they remain desired to leave the crowd behind drive up and out of the great cleft and ment with him. There are few who down again through the foothills to like John Muir can start on an ex-Valley. There they find accomodations has involved employing a guide and the belief that they have seen Yosem- sation of complete independence which National Park. the adventuring tourist, so equipped, This tourist's routine has been so feels. But the several hundred dolfirmly established that we must shout lars that it costs to so journey, for to be heard when we announce that even a week, has been abarrier to the Yosemite Valley is not all of Yosemite great majority who love the mountain tops.

Hikers Camps

The establishment of Hikers camps covered that there is a very good auto makes it possible to enjoy the very road upon which they may traverse best that the Sierras have to offer the Park, cross the Sierras and des- and it costs no more to use them than cend to that most interesting region it does to live at home. You may start about Mono Lake. Those do make on a week's or a month's outing with that trip over the Tioga Road are as no more thought of preparation than sured of a good conception of the var- were the trip to be a climb to some ied beauties of Yosemite. Park officials point on the valley's "rim" and back are pleased at the increasing popular- the same day. If you can enjoy hikity of this high-country highway, for ing ten miles a day through theamaz-every individual that journeys over it ing beauty of the High Sierra, merely persuades others to believe that there carry a sweater and tie a lunch to your is more to Yosemite National Part belt and go. At the end of each day's pleasure there will be awaiting you a

sionaries of Yosemite unselfishly ex- Leaving the Yosemite Valley at Happy pended a considerable amount in an Isles, hikers will climb the gigantic experiment with high-country camps, steps over which pour Vernal and Ne-

(Contd. on Page 32.)

# THE GOLDEN EAGLE AS A DEER ENEMY



The fawns kept almost under the mother's belly as she ushered them into a thicket of brush.

# By D. D. McLEAN Assistant Naturalist, Yosemite National Park

Golden eagles have often been accused of many crimes that it is doubtful they were guilty of committing. The birds may kill a few domestic animals now and then, but should they be condemned for that alone when the damage thus done is far overbalanced by the number of squirrels and jack rabbits they devour? Among our deer, however, the damage done is perhaps greater than we realize. What animal could be considered finer for a repeat than a few weeks old fawn?

On one occasion, several years ago, another young man and myself were fishing on the Tuolumne river near its junction with the South Fork and routed a golden eagle from his dinner on a freshly killed nule dear fawn which was apparantly about two weeks old. The fawn had been grasped by the back, the talons having been forced through into its vitals. It had then floundered about over a space perhaps ten feet across until finally killed by the death-dealing grip of the powerful bird.

The eagle had opened a hole in the right side of the fawn and had been devouring the liver and lungs.

The eagle had opened a hole in the right side of the fawn and had been devouring the liver and lungs. The nose was clotted with blood, so evidently the eagle's talons had ruptured the respiratory organs. The fawn was in excellent condition before its death, but the mother was nowhere in sight at the time.

Another time while my father was riding along the top of Mt. Bullion near Mariposa he saw two golden eagles in hot pursuit of two fawns, accompanied by the doe. The eagles would swoop down to within a few feet, with legs stretched out and feet spread, but the fawns kept almost under the mother's belly as she ushered them into a thicket of brush.

Another time I found a fawn that had apparently been killed by an eagle, as the whole situation was similar to the first mentioned case. One golden eagle killed near Kinsley had just eaten a considerable amount of deer meat, hence another case. On Phot Peak ridge where the deer are very abundant the eagles are also numerous. It is not uncommon to see three or four while traveling along only a few miles of the ridge. Generally they are slowly circling over the slopes, apparently searching for quarry. Since ground squirrels are practically wanting, as well as rabbits, the only large supply of food left is deer.

Of course the only deer killed to any extent are small fawns, but even at that they are the future Goes and bucks that are the spirit of the wild in the Yosemite region.

# WHEN CHINESE CAMP WAS BOOMING



The cradle or rocker was employed by the Chinese long after white miners progressed to more efficient methods.-From "The Golden State" by R. Guy McClellan, San Francisco, 1872.

# BY C. P. RUSSELL Park Naturalist, Yosemite National

While Yosemite was never a part of California's "gold region," yet the history of the park is so related to the early activities in the Mother Lode country that relics of the days of 49 find a place in the Yosemite Museum. Our historical exhibits tell in impressive manner of how tell in impressive manner of how the gold seekers pushed up the Merced river almost to the very gates of the famed valley, but falled to make its discovery until they came in search of red-skinned depredators who resided within it. A little more than a year after the discovery miners actually extended their prospecting to include the magnificent gorge, Yosemite Valley, and it was the murder within its walls of two miners by Yosemite Indians that resulted, indirectly, in the opening of the way to men other than miners and soldiers. The mining tools and

implements of the romantic days of the early fiftles did, indeed, play a part in the development of Yosem-ite.

In the first years of mad excitement that brought miners swarming to the regions just below Yosemite, the precious metal was searched for on or near the surface of the earth in deposits designated by the miners as "river diggings," "gulch diggings," "bar diggings," "flat diggings," "bench diggings," or "hill diggings," according to their topographical positions. These shallow deposits owed their origin to arcient activities of the mountain streams, working through the tain streams, working through the ages, which had washed away enorages, which had washed away enor-mous areas of the mountain sides. The contained gold of this washed earth, being heavier than the other materials, was left in concentrated form, and in spots quite accessible to the miner.

Indeed, so accessible was some of It that no more complicated a pro-

the was required than the mere taking out of the grains from the sek crevices in which they had dred. This was done with the aid a knife, and there was developed a result what was known as a revite knife. In Thorntons "Oreon and California in 1848" there is noted an anonymous fetter describes a true of inspection made to the noted an anonymous letter describnx a trip of inspection made to the
uw go d fields by Culonel Mason,
cing Governor of California. Their
tention was called to a man "picku out the gold." and the party
urned aside to watch. "He was
king out of the crevice in the
late, across which the water had trhed in winter to a bed some feet rlow, the gold and earth in lumps, had his left hand full when w him. I mean he was picking it ut of an open hole in the rock, as at a you can pick kernels out of lot of well cracked shell-barks."

the Great Horn Spoon" herpresence of fine grains, "gold ancient river sands and in the soil termined by the most cursory ex-mation of likely allowal depos-But to determine with some according the richness of deposit, the horn spoon method to two feed. The horn spoon is defermed a split horn of an oxida half-s-horn, scraped thin, remed a curved spoon from one to wo inches deep, two to three wide, and six to ten inches of it was used only in testing a gold content of gravel or pulrind rock, by washing small antitles of the material in it at time So crude an instrument rdly seems qualified for such use, are assured by contemporary riters that experienced prospectors stimuled the probable yield of a mass of suriferons grave! with sur-rising accuracy with the horn ising accuracy with the norm oon. The Yosemite Museum pos-see: a specimen of this original, nich gave rise to the expression, y the great horn spoon," used in e diggings along the Merced just low Yosemite. E. L. Guthrie was he donor.

The simplest method of obtaining of from the sands, gravel or pul-nized rock was the panning pro-s. The miner's pan evolved rough California experience, is evolved rough California experience, is ade of the best quality of Russian on, either stamped out of a single from several pieces et or made from several pieces lich were joined by a cold-joint-process. The rim was strengthied by an iron wire rolled in der was not used, and mercury, hich was sometimes placed in the to take up the gold, did not at: the pan itself. Gold pans re-bled ordinary circular dairy mbled ordinary circular dairy ms except that the sides were ore flaring. They were usually n inches across the bottom, sixen inches at the rim, and slightly ore than two inches deep. In our loctions are pans used during the a seventies and some that date ck to the days of '49 and the pather Lode. Walter McLean of ulterville has donated these last

relics, which, by the way, were em-ployed by his ancestors on the spot on which he now resides.

#### How the Gold Was Punned

The pick and shovel also played an important part in panning gold. The shovel of the '49er, by the way, is quite distinctive and reminiscent of the romantic days as is the gold Dan.

The pan was first filled with the auriferous earth and then taken to auriferous earth and then taken to a stream, puddle or tub of water and submerged. If the material was chayey in texture, it was worked over with the hands until it became disintegrated. One side of the pan was then held a little higher than the other and with a circular mo-tion of the hands a revolving cur-rent was produced within it. The lighter portions of the washed ma-terial was so carried over the rim. terial was so carried over the rim, and the heavier matter remained be-Pebblea were removed hand and at last nothing remained but gold, either clean or mixed with heavy sand. The residue was either saved until more accumulated and then further washed, or perhaps the heavy black sand could be removed with a magnet. In either case the "dust" was bagged in a small buck-skin sack and often served as legal skin sach and often served as legal tender. Sometimes mercury was added to the residue in the pan, and the resulting amaigam saved until a quantity had accumulated, when it was purified.

The slow panning method did not long suffice to meet the de-mands of the eager fortune seekers, and it was rapidly replaced by win-

and it was rapidly replaced by winnowing, the cradle or rocker, the
long tom, and finally by the sluice.
The pan was relegated to mere
prospecting purposes, or to "cleaning up" of sluices.
Probably the winnowing process
found no extensive use, but it is
declared by some "old timers" to
have been employed in dry seasons
when water was wanting. The pay
dirt was placed upon a blanket and
"dry washed." the method by which
seeds are winnowed from the chaff
being imitated. being imitated.

#### The Rocker and the Long Tom

It is said that the rocker was brought to California from Chile. It is a simple mechanical contrivance resembling in shape and size a child's cradle The dirt was thrown into an upper compartment, which has a screened bottom. The combined action of a rocking motion aided by water caused the finer and heavier particles to be washed through to a lower compartment, where further separation was accomplished by riffles upon the bottom of the rocker. Mercury was often placed in the riffles to take up the gold. Earthy materials passed through the rocker with the flow of water. The upper compartment was removable, and the washed, coarser materials were brought to California from Chile. It and the washed, coarser materials were dumper out by hand. The Chinese adhered to this primitive contri-vance long after the white miners adopted more advanced methods. Specimens of rockers used in the

Yosemite region have been donated to the museum by J. R. McCready of Mariposa and Paul Morris of Merced.

After the rocker came the long tom. It was extensively used until 1854 and 1855 when it in turn was abandoned to the Chinese in favor of a further improved method. The long tom was especially suited for work in guiches, where a stream of water could be kept flowing through it. It consisted of a wooden trough about twelve feet long, eighteen inches wide at the upper end and widened to thirty inches at the lower end, with sides eight inches high. At the lower end was a false bottom of sheet iron, perforated with half-inch holes. This sheet iron was so turned up at the lower end that the water could not run over the edge but poured through the holes to a riffle box below, which was fitted with transverse riffle bars. The gold-bearing earth was shoveled in at the upper end and washed down to the perforated false bottom, where the gold and finer materials would pour through the holes. In the box below the gold would lodge behind the riffle bars, and the running water would gradually eliminate much of the sand. Sometimes mercury was placed behind the transverse clears to take up the gold. The long tom was in its day the, most efficient implement known to the miners, but as the difficulties of securing the gold increased. Yankee genius found a way to maintain production

way to maintain production

The sluice was invented. It was
made up of a series of troughs fitted end to end. Each trough was
made from rough pine boards and
was about twelve feet long, twelve

inches deep, fifteen to twenty inches wide, and open at the ends. They were three or four inches narrower at one end than at the other so that the narrow end of one might he fitted into the wide end of an other and so make a continuous sluice of any desired length. They suice of any desired length. They were sometimes two or three hundred and, in hydraulic mining, even a thousand feet long. The whole was set to an even grade so that the fail in the length of each box was from ten to eighteen inches, depending upon the character of the material to be washed. Across the bottom of each box was placed a number of cleats or riffles. Many tons of auriferous gravel was showled into the sluces and to avoid the destruction of the riffles and bottom by the tumbling, water-propelled stones, longitudinal slats the destruction of the riffles and bottom by the tumbling, water-propelled stones, longitudinal slats were put in, so spaced as to carry the coarse gravel and stones smoothly down the incline, but the gold and finer materials were permitted to reach the bottom. The riffles were usually charged with quick silver, and sometimes washing was continued day and night for weeks before a "clean up" was made. When the occasion for collecting the gold arrived, no more dirt was shoveled into the sluice. The water was allowed to pour through it until it was clear as it passed from the lower end, when it was shut off. The riffles were then taken up, and the gold and mercury collected. When all the amalgam was collected, it was washed clean in a pan and then strained through buckskin or canvas, which allowed the free mercury to pass while the solid amalgam was retained to be later purified.

# FROM THE NATIONAL CONFERENCE ON OUT-DOOR RECREATION

Called by President Coolidge

"THAT THE CONFERENCE ENDORSE NATURE STUDY IN SCHOOLS AND THE EXTENSION OF THE NATURE STUDY IDEA TO EVERY AMERICAN SCHOOL AND FAMILY; . . . . THAT THE ESTABLISHMENT OF MUSEUMS OF NATURAL HISTORY IN NATIONAL PARKS WILL INCREASE THE EDUCATIONAL RECREATIONAL VALUE OF THE PARKS".—Resolution of the Conference.

# "WATER DOGS" ARE BREEDING

DACIFIC Newts or "water dogs" are of such retiring habits that but few Yosemite visitors observe them. Occasionally, however, a tourist seeks information at the Yosemite museum on the "red lizard" seen crawling slowly through wet leaves or some moist locality at the lower end of the valley.

The animal is lizard-like in form, but quite unlike a lizard in that its skin is moist and scaleless. If one is picked up, this fact becomes very apparent. It is cold and clammy to the touch and decidedly more like a frog than like a lizard. Its movements are always slow, and again in that respect it is not like a lizard. But because it has a tail that persists through life, many people cannot recognize its relationship to frogs and toads.

At the present time (April 29) newts may be found in pools of water as well as in moist localities on land. Whether they habitually habitually habit to pools for the winter or easily determined. However, as the particular pools in which they are to reated with oil to kill mosquito in found now did not exist last winter, it is evident that in this instance they have just crawled to the water. I have found them in Yosemite on land under moist leaves that in this 'ocality newts do not enter the water until spring.

Like frogs these salamanders deposit eggs in the water. The egg masses containing about twenty oggs, are transparent, gelatinous globules about one inch in diameter.

They are fastened to submerged vegetation, and there the tadpoles of required for hatcher, in general under observation will be read under observation will be read with oil to kill mosquito is alamander larvae, and it is doubtful if the water. I have found them in Yosemite on land under moist leaves live in the water for a number of in the tadpoles of weeks. Like other amphibians, they are equipped with gills, which disappear as the transformation that repares them for life on land takes place. Unlike the tadpoles of frogs and toads, however, they will keep oggs, are transparent, gelatinous will continue to call them "lizards."

# YOSEMITE NATURE NOTES

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Communications should be addressed to C.P.Russell, Park Naturalist, Yosemite National Park.

# HIKERS CAMPS [ Contd. from Page 26. ]

cades with uneasing music upon the Valley floor. Little Yosemite to interest the visitor, wa'k: and that part of the day not consumed in making the easy climb from Happy world; inumerable lakes and waterfalls Isles can be spent in exploring the and smooth silky lawns; the noblest

park-like valley.

The hiker is tempted to long remain gardens on their sunny brows, avalmore delightful than the last. But to white slopes, cataracts roaring gray from this region of unbroken views to gorges, and glaciers in their shadowy the river, which here roars through recesses, working in silence, slowly a succession of rapids and cascades. completing their sculptures; new-born Not far above is beautiful Merced Lake lakes at their feet blue and green, and a most elaborate camp, which cir- free or encumbered with drifting icecumstances have made available to bergs like miniature Artic Oceans, hikers. Fishing is excellent in Merced shining, sparkling, calm as stars." Lake and Washburn Lake which is a Understand, a guide is not made at Merced Lake.

to the most adventurous hikers.

the camps. I will only mention that comodate but twenty each trip so resone of them is on Mount Lyell, just ervations should be made at the Younder the living Lyell Glacier; another semite Museum.

Valley, and just above Nevada Falls, is is at Tuolmne Meadows—in the heart the beautiful three-mile basin, Little of a wonderland that requires months Surrounded by granite to explore; a sixth is in the canyon domes and precipitous slopes, the camp of the Tuolumne River close to the is situated most pleasantly world-famed water wheel Falls; and a against the north wall of the Valley seventh at Tenaya Lake amid the most at a point where Sunrise Creek cas-beautiful glacier monuments.

In the words of John Muir, there is There is much within now accessible to all with strength to

"The most songful streams in the forest, the loftiest granite domes, the The second day's hike takes one up deepost ice-sculptured canyons, the and out of Little Yosemite and onto brightest crystalline pavements, and high, open granite from where superb snowy mountains soaring into the sky views of the nearby peaks may be had twelve and thirteen thousand feet . . . here where every vantage point seems anches thundering down their long reach the next camp one must descend and foaming in the crooked rugged

few miles above. Unless one is very sary in traveling between these Hikers time-poor, an extended stop will be Camps. The trails are well marked and it is perfectly safe for any one The third camp is located on the to venture upon them alone. Howvery back bone of the CathedralRange, ever, the Yosemite Nature Guide will two miles closer to heaven than is San conduct parties in the high-country Francisco. On the heather-bordered, each week and if you would like to cliff enclosed. Boothe Lake is the make the trip with a naturalist who highest of all the Hikers Camps. The will explain what is seen it is only country adjacent to this camp is un- necessary to plan to start at the time explored and will offer inducements that the Nature Guide trip is scheduled. This is a free guide service pro-I haven't space to describe more of vided by the government. We can ac-

# IE YOSEMITE NATURAL HISTORY ASSOCIATION ITS PURPOSES

To gather and disseminate information on the wild-life of the Sierras.

To aid the Yosemite Museum in telling Yosemite's story.
To promote the educational work of the Yosemite Nature
Guide Service.

To publish (in co-operation with the U.S. National Park Service) "Yosemite Nature Notes".

To study living conditions, past and present, of the Indians of the Yosemite region.

To maintain in Yosemite Valley a library of historical,

scientific, and popular interest.

To further scientific investigation along lines of greatest popular interest and to publish, from time to time, bulletins of non-technical nature.

To strictly limit the activities of the association to purposes which shall be scientific and educational, in order that the organization shall not be operated for profit.

# MAY WE SEND YOU EACH ISSUE OF YOSEMITE NATURE NOTES?

Your check for \$2.00 sent to the Park Naturalist, Yosemite stional Park, will help to pay the cost of its publication for year and make you a member of the Yosemite Natural story Association for the same period.

# KEEP IN TOUCH WITH YOUR YOSEMITE.

2 2 2

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