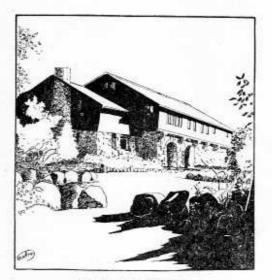
# YOSEMITE NATURE NOTES



The Yosemite Museum

Volume IX FEBRUARY, 1930 Number 2 Department of the Interior Ray Lyman Wilbur, Secretary

National Park Service Horace M. Albright, Director

# YOSEMITE NATURE NOTES

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# A RARE MUIR ENTRY FOUND IN YOSEMITE

# By C. A. Harwell

John Muir made his first trip to the region. the Yosemite in 1868. From that On one of his trips, September 29, year the valley became his moun- 1873, he stopped at La Casa Nevada tain home and the Sierras the ob- built in 1870 on Table Rock, just beject of his greatest interest. He low Nevada Falls, and operated by explored their every corner. His Mr. and Mrs. F. A. Snow. His sigtravels afoot through steep can- nature occurs several times in a yons, to the summits of the master valuable old register now on exhibit peaks of the range, and the inti- in the history room of our Yosemmate experiences of these long and ite Museum, which shows the regisvaried tramps are well known tration of guests at "Snows' House" through Mr. Muir's own published from April 28, 1870, to June 9, 1875. accounts of them. He was a thor- On this particular visit a full twoough scientist. The geological story page entry in his own very distinct of the formation of the range and handwriting was made. This, not the mighty erosive forces which previously published, follows: had carved out lake basins, broad valleys, steep-walled canyons and rounded domes fascinated him. On his every trip he gathered new evidence and new data to support his theory that mighty glaciers of the from Glacier Point across the valice age were responsible not only ley of Illiouette and down through for the deep carving of the Yo- Little Yosemite to the main valley semite canyons, but for the round- via Nevada and Vernal Falls. ing and polishing of the many won- "Glacier Point commands a noble derful granite domes of the region. and instructing view of the Tenaya He believed a glacier deep enough Canyon, down whose ample chanto extend several thousand feet nel descended the great Tenava

"September 29, 1873.

"Mrs. A. G. Black, Yosemite.

"John Muir, Oakland, Calif.

"A. G. Black, Guide, Yosemite,

"Made delightful trip around

above the top of Half Dome covered Glacier which played so important

a part in the excavation of Yosem- summits of the Lyell Group. Long, less The ite Valley. crooked and dome-blocked channel the base of a dense, bluish-black of the South Lyell Glacier is also cloud in which some of the peaks well seen from here, as well as were outlined dimly, while others those of Yosemite Creek, Hoffman, were wholly obscured down to their and Iillilouette Glaciers. These five shoulders. Above the dark rain principal Yosemite glaciers, now cloud a series of fine-grained, lightfeebly represented by the streams colored cirri were laid in exquisite of the same name, united in the up- combinations and these, again, per end of the great valley as a fo- were surmounted by white, bossy cal point, concentrating their ero- sun-filled cumuli glowing upon the sive energy and flowing down and tranquil azure. We watched the out of the valley as one grand gla- motions of the storm as it swept cier.

comprehensive view of the chan- tling down upon each in turn with nels and foundations of these old a fondling gentleness of gesture ice rivers is obtained. The knotty that is utterly indescribable. domes and ridge waves of Yosem- was there wanting the majestic ite creek-the steep descending tones of the lightning falling in groove-shaped valleys of the Hoff- deep, rumbling explosions and revman, the bold, simple furrow of the erberating from peak to peak with Tenaya, the broad, irregular path- greater and greater faintness. way of the Nevada or South Lyell, interrupted with domes as a water wards the head of Little Yosemite, stream is by boulders, and the wide a belt of cloud appeared drawn flash-shaped basin of Illilouette across from wall to wall that shimridged with moraines and mani- mered with lightning in every pore. festing its noble ice-wombs in sublime simplicity among the bound- maple and wild cherry were most ing peaks of the so-called 'Merced enchanting, the latter covering the Group.'

Dome a fine storm was observed in with delight and the Nevada sang progress among the black, jagged us asleep."

regular, bent tresses of rain descended from leisurely northward, bathing the "From Sentinel Dome a still more grateful mountains in its path, set-Nor

"After dark, looking back to-"The autumn tints of the rubus, banks of Illilouette with a mist of "While we lingered upon Sentinel yellow. We reached Snows' weary

# Some of the Invertebrates of Yosemite

#### VIRGINIA WEIGEL

This study of fresh water biology follows: restricted to invertebrates made from life forms found in the swamps of Sentinel Meadows on the floor of the valley on July 22." 1929.

The classification of these, as nearly as could be determined, is as

was 1. Phylum-Protozoan. Class-Infusoria. Sub-class-Ciliata. Order-Halotricha. Genus-Paramecium. Species-Candatum. 2. Mesozoan (Given various classi-

fications by different scientists). Class-Rotifera. 3. Platyhelminthes. Class-Turbellaria. Genus-Planaria. 4. Phylum-Annelida. Class-Herudenea. Genus and species not known (two kinds found). 5. Phylum-Mollusca. Class-Gastriopoda. Sub-class-Euthyneura. Order-Pulmonata. Genus-Ancylis. Planoibis. Class--Pelecypoda. 6. Phylum-Arthropoda. Class-Crustacean. Genus-Ceredaphnia. Cyclops. Daphnia. Eurycerous. Macrothrix. A Nauplius. Simocephalus. Sub-class-Brachniopods. Phyllopoda (Brine Shrimps). Tuolumne Meadows.

Class-Arachnidis.

Water mites.

#### Paramecium Candatum

They are found in fresh water and more pointed. It has peculiar dark also in stagnant water.

known cigar shaped animal with a naria is the power of regeneration. depression extending from the for- If an individual is cut in two, the ward end obliquely backward, end- anterior end will regenerate a new ing just posterior to the middle of tail while the posterior part dethe body. This animal, being thus velops a new head. A cross-piece unsymmetrical, is able to swim in will regenerate both a head at the a straight course through a medium anterior end and new tail at the which allows deviations to right or posterior end. The head alone of rotation the forward movement and animal, Pieces cut from various the swerving to one side are com parts of the body will also regener-

bined to produce a spiral course The organism has various reactions to stimuli which may be summed up as follows: "Whether a given change shall produce reaction or not often depends on the completeness or incompleteness of the performance of the metabolic processes of the organism under the existing conditions. This makes the behavior fundamentally regulatory.

#### Rotifers

A number of rotifers of various types were collected. Some of the rotifers are of the fresh water inhabitant type and some are marine. while a few are parasites. Ciliata. whose cilia cover the entire body. but are larger and stronger about the mouth opening than elsewhere. are numerous among these. The adoral ciliated spiral consists of rows of cilia fused into membranelles and lead into the mouth. Platyhelminthes

No Planarians were found in These brine shrimps were found in Sentinel Meadows but on stones in Evelvn Lake creek en route to some fresh water as Sentinel creek. one finds many and this type of Platyhelminthes has a free living habit. Its body is bilaterally symmetrical and dorso-ventrally fiat-Paramecia are unicellular ani- tened. This type is also charactermals visible to the naked eye if the ized by being rather blunt at the proper background is provided, anterior end and the posterior end ened eye spots at the broader end.

The Paramecium is the well An extraordinary feature of Plaleft and up and down. Through a planarian will grow into an entire ate completely. No difficulty is blood supply or one most accessible, one animal to another.

### Annelida

smaller. The former were swim- studied properly. ming in an open pool of water con- Mollusca taining only a few logs and stumps while the latter were found on the type of which get about one-fourth under surface and also inside dead inch at the longest lily pond leaves that were floating found attached to stems and underalong the surface.

flattened dorso-ventrally but differ small but active. extremely from flat-worms.

the museum in a large jar for sev- Ancylus has a flattened shell or eral days when we found a frog and covering which forms an apex at put it in the jar to study results, the uppermost part. Some extremely interesting features were first of all the sudden coiled in one place like a watch reaction of the frog and the many spring. It lives in brooks useless attempts to became attached for the first time have the power of secreting a muthe frog gave a desperate lunge to cous epigram over the mouth of the get away. After a while the frog shell so as to prevent the evaporashowed great signs of being very tion of moisture from their bodies. sensitive to touch. We noticed this Arthropods particularly since there was a piece of paper in the jar and from the tacean were found. many quick movements of the frog have been listed but they and leeches the paper moved about similar habits. These crustacean in the water. Frequently the paper live in fresh water, salty water, on would glide through the water and land, or as parasites on other anithe instance the paper touched the mals frog the frog jumped.

make desirable study and find out that are captured if a fine gauze how long a leech would or could net is drawn through the waters of stay attached, if the frog was in- lakes or streams, jured at all by the sucking disc. These small crustacean are of lit-etc. Other interesting factors were the if any economic importance to that most times the leech attached man, but indirectly they are of con-itself to the toe of the frog. Why? siderable value, since they form the Is it because there is a greater chief food of many edible fish.

experienced in grafting pieces from or was it b cause the foot of the frog was the part with which the leech came in contact more fre-Several types of leeches were quently. After a leech nad become found. One type about three inches attached to the foot of the frog the in length was collected from the frog made violent struggle to get meadows as we returned from away. In most cases the frog was Eagle Peak. The type obtained able to throw off the leech but as from Sentinel Meadow were much time was short this could not be

There were many small clams, a These were surface of floating leaves and many Leeches being Annelida are defi- on the bottom. These clams are nitely segmented. They too are very numerous. They are very

The snails were found attached to The larger leeches had been in leaves and stems in the water

The Planarbis has its sheli and evade the ponds and feeds on vegetable matleeches. When one of the leeches ter. In dry weather many snails

Many microscopic forms of Crus-Their names have The enormous numbers of these little creatures may be ascer-Time limit made it impossible to tained by counting the specimens

# Animal Friends at Glacier Point

By C. H. Oneal

The confidence and trustfulness Yosemite National Park. Her sumengendered in wild animals by promarkable. As they learn you are their friend the wild stare of fear leaves their eyes and they no longer are startled by the slightest sound or quick motion. They become your companions. The kindly attitude toward all animals at Glacier Point for many years has shown them to have characteristics and traits just as distinctive and individual as found in people. During seven weeks spent at this point as ranger-naturalist of the National Park Service this past summer I noticed a few individuals that especially endeared themselves to all comers by their friendliness

"Bill," a handsome five-point buck, was beloved by all. Almost any day while the other bucks were hiding out in the brush he might be seen about the hotel begging for food. His method was watchful waiting rather than forceful aggression. His great, gentle, soulful eyes pleaded so eloquently that one could seldom resist sharing peanuts, chocolates, raisins or sandwiches. He was particularly fond of having the base of his cars scratched, and he would stand patiently for the process as long as the endurance of the scratcher lasted. One of the most distinctive habits of "Bill" was the licking of hands extended to. any day he could be seen sitting in ward him. Possibly he liked the front of the hotel. Perched on his taste of the salt found in perspiration. Big, powerful, handsome, and withal gentle and kindly, he was the most popular male at Glacier Point.

one of the most beautiful does in sharpened by a few kernels he

mer coat is very light in color and longed kindness and feeding is re- quite glossy. She is softly rounded and plump due to all the goodies continually fed her by visitors at Glacier Point, and her eyes are the largest and gentlest I have ever seen in a deer. Evidently no one has ever betrayed her trust in man. One can take her head between his hands and hug her. She seems to be bringing up each year's offspring to have the same confidence. She is one of the few mothers who bring their fawns into camp when they are but a few weeks old.

> One day last summer as I sat at the table of our outdor dining room. by our camp at Glacier Point writing Nature Notes on the deer of the region, "Fanny," the mother of many of the deer at this place. watched patiently for choice morsels. A bullet-clipped ear indicated that the lust for blood by man had almost cost her life. Her interest was vividly manifested in the process of spreading bread with jam. Her anticipation caused the flow of saliva. She licked her nose in order to better smell the dainty and her eyes fairly sparkled in appreciation of the offering. Who would not be glad to share his best food with such loving friends?

Mickey" is a beautiful goldenmantled ground squirrel. Almost haunches, his front feet folded in a prayerful attitude. he eagerly scanned the guests, hopeful that they would throw him salted pea-"Annie," the sister of "Bill," is nuts. After his appetite had been

would stand on his hind legs and motion with his right front paw as if thereby to hurry the process. When the supply was withheld he might be coaxed to ascend a tall boulder to the porch. Then, if deliberate a person might entice "Mickey" to his lap, where he would sit until his stomach and interior cheek pouches were filled almost to bursting. Then he would scamper tient, friendly and lacking in nerto his nest, eject the store from his cheeks and return for another supply. He became so tame that he would take peanuts from a person's lips. If one held a kernel with his teeth "Mickey" would place his paws against one's face and pull with his teeth until the peanut was secured. He was the ruler of his kind. If another one approached too close a sharp metallic squeak warned him of his encroachment. Round and round they would go until the invader "had vanished. "Mickey" was so fat that after such a chase he had to seek the shade of a rock where he flattened himself out until he had regained his composure sufficiently to again seek food.

The Tahoe chipmunk, next to the ground squirrel. golden-mantled most interested the Glacier Point guests. They are keen, alert, nervous and almost continually on the move. The least quick motion will send them scampering. The alternate white and dark red stripes coming almost to a point at the nose heightens the appearance of sensitivity. Their gait is largely a springy gallop. When frightened they often climb trees with the agility of a Douglas squirrel. To get one to eat from your hand requires a great amount of patience. insects in the jar were seen by a After many overtures one was in- jay. Up he came and tried to pick duced to enter the Curio Store, at one. Again he struck the glasy

where it found a pile of peanuts in a corner. Each day thereafter it came. One day the supply of food was exhausted and the chipmunk voiced his disappointment in loud scoldings, almost resembling that of a bird. His feelings were finally soothed by a generous supply of other morsels.

The Sierra grouse is quiet. navousness, "Fool hens," they have been called by hunters. However I am inclined to believe this lack of fear is born of trust rather than of stupidity. One came to our tent each morning during the past summer for breakfast. She was so tame that she would readily eat from our hands. One morning her breakfast was delayed by writing of some nature notes. As a suggestion to me of the lateness of the hour she flew upon the table at my arm and looked at me as if to say. "Where is my breakfast?" One Sunday morning we failed to arise at the accustomed hour. As we lay dozing something heavy alighted on our tent. It was our pet grouse Sliding, scratching, and beating her wings she made so much noise we were immediately aroused and gave her some breakfast. Were these incidents the result of stupidity or accident or was it premeditation born of inteligence?

The blue-fronted jays seldom fail to attract attention because of their wonderful coloring. However, their aggressiveness and harsh metallic voice divert from their attractiveness. A Mason jar contained some small bits of beef at our Glacier Point camp this past summer. Yellow jackets entered the jar and were devouring the contents. These

# YOSEMITE NATURE NOTES

a resounding blow. Seemingly the first opportunity in order to somewhat stunned at his inability satisfy a primitive hunting instinct. to reach the insects he eyed them but become individuals capable of carefully and once more endeavored inducing much interesting study. to capture one. For several min- To know and understand their utes the activity was repeated characteristics and habits Then evidenly disgusted but still much more enjoyment than is mystified he gave up the attempts.

The closer a person comes in contact with wild animals the greater readily put their trust in man and becomes his enjoyment. They then he is not worthy of friends who beare no longer prey to be killed at trays that faith.

gives found in their slaughter. They

# YOSEMITE ANIMAL REPORT FOR DECEMBER

## By C. A. Harwell, Park Naturalist

Bears - Six bears, three cubs the night of December 23. They and three adults, were seen by the were not seen to take food. Ranger park naturalist at the feeding plut- Herschler saw a large black bear at were feeding. Candy, which they were eager for a month before, was height of the mating season of himself on a log ran away when I and sharpest stage and are finding chocolate bar. I laid it on the log -fighting. Each buck is intent on for him, but never saw him return the possession of one or more does for it. Two cubs were 20 feet up in so there are frequent sharp clashes. er was eight feet below them. They month has been mild, no snow invitation to come down and their deer above the rim have moved mouths very noticeably watered down to lower and warmer ridges. when I rattled the candy bag and The last deer seen at Glacier Point held large brown bars toward them. was December 12. Ranger Reymann But when they finally got their fee! on a trip to camp 11 counted 107 set against the trunk to come down. deer from his machine along the the mother chased them to the road December 23, all but 12 of very top of the tree in a flash. I them beyond Chinquapin. concluded their hibernation had Elk-A count of the herd of dwarf really started in that they were elk (cervus nannodes) by the park refusing food, although they had naturalist December 8, showed 22 not yet sought out their winter's animals-10 bulls, 9 cows and 3 dens. A bear entered the kitchen calves-all in good condition. They at the lodge the evening of the are now being fed alfalfs hay daily. eighth, but took no food Two large as feed in the paddock is insuffibears were seen by Ranger East- cient. man near the lodge garbage cans

forms December 8. None of them the feeding platform December 24. Deer-This month marks the refused by them. A cub sunning deer. Antlers are at their hardest approached him holding out a fine the use for which they were grown a large incense cedar. Their moth- Though the weather for the seemed to want to respond to my whatever on the valley floor, the

Birds-A Pacific loon. (gavia

record of this bird for Yosemite. Scouts, December 29. The clear water of the pools gave fine opportunity for observing the "bob-cat" was struck by an autoswimming and diving habits of this mobile on the highway near El sea bird.

above the north wall of the canyon museum, by Chief Townsley and below El Capitan, December 27. the park naturalist. One has been seen on several ocing station.

the Glacier Point Hotel this month. splinters beneath one of them.

pacifica, was observed in the Mer- One was seen by the roadside near ced river above the power dam on Bridal Veil Falls by the park December 6 to 10. This is the first naturalist and a party of Eagle

California Wildcat-A young male Capitan, December 22. He is in the A golden eagle was seen soaring process of being mounted for our

Flying Squirrel - December 15, casions above the Arch Rock check- during a storm, lightning struck two large yellow pines at Camp Coyotes - Coyotes have been Curry. I picked up a dead flying rather commonly heard at night at squirrel from the chips of bark and

# IMPRESSIONS OF A HIGH COUNTRY HIKE WITH

#### A NATURE GUIDE

We have climbed above the falls, we have tramped in the heat of dust and in the cool of woods, we have trudged with pack upon our backs, we have eaten together beside Maclure glacier, we have swum in mountain streams, we have sung upon the lakes, we have glowed with ruddy fires. We have known one another.

We have heard contentment songs of trees, we have smelled the cool damp cleanness of the earth, we have tasted the offering of streams, we have seen Conness mountain, holy in twilight, and the sky overturned into Boothe lake at we have felt the night-time; baptism of the spray and the benediction of cool winds. We have known God .- Alice Atwood, Yosemite School of Field Natural History, 1929.

# EARLY TROUT PLANTINGS

#### IN YOSEMITE.

Probably the first plant of fish in Yosemite National Park took place in the fall of 1892. W. H. Shebley, at present superintendent of fish culture for the California Fish and Game Commission, started from the old Sisson hatchery with a shipment of black spotted. Eastern brook and rainbow trout. Earlier attempts had met with failure because of the long trip and the time necessary.

On this first successful planting the shipment arrived at Raymond, from whence it was sent in stages furnished by Washburn Brothers of Wawona. Here the fish were held over night in the stream and the following morning were transported by means of government ambulance to Mono Meadows, then transported by pack trains delivering them to Ostrander and Merced lakes, to Bridal Vell creek and several other lakes and streams .-H. C. Bryant, Director Yosemite School of Field Natural History



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C. G THOMSON

Superintendent

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# Dan Anderson