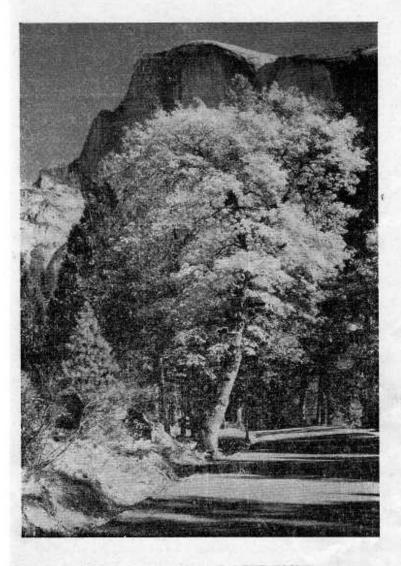
YOSEMITE NATURE NOTES



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Yosemite Nature Notes

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History of the Firefall

By M. E. BEATTY Assistant Park Naturalist

The firefall is a distinctive and glowing pile of embers. internationally - known feature The signal for the firefall is the

at hand, conflicting coals over the cliff. stories are ofttimes given out.

floor. The wood for the fire con- the granite walls. sists mainly of red fir bark gathbonfires.

The pile of bark is ignited about fall, the fire has been reduced to a formation starts in 1899, when Mr.

which even rivals the natural extinguishing of the Camp Curry scenic attractions of Yosemite, so lights at the conclusion of their far as the average visitor is con- entertainment. The exchange of calls between Curry and Glacier Most of our visitors who witness may be heard from either place. this impressive spectacle are desir- and at the conclusion, the fire ous of knowing how the custom tender by means of a long handled originated. Due to the meager in- shover, slowly pushes the glowing

This gives the effect of a solid A description of the firefall fol- stream of fire, dropping some 1400 lows for those not familiar with feet vertically to an oblique ledge, the practice. A bonfire is built embers sometimes dropping along nightly during the summer near this ledge an additional 1000 or the over-hanging rock at Glacier 1500 feet. There is no fire hazard Point, 3254 feet above the valley as very little vegetation exists on

While it is true that the Indians ered during the day by a workman occasionally built signal fires on from down trees in the vicinity, some of the higher promontories, Approximately one-quarter of a there is no evidence to suppose cord of wood is used for the larger they ever pushed the fire over the cliff

Early guide books fail to men-7 p. m. and a program conducted tion or give reference to the fireby a ranger-naturalist is held fall, although we are positive the around the fire between 8 and 9 custom prevailed at the time, at By 9 o'clock, the time of the fire- least occasionally. Our positive inand Mrs. David A. Curry established the Curry Camping Company at what is now Camp Curry. David Curry learned of the firefall custom, which had fallen into disuse and decided to revive it for the benefit of his guests. He would occasionally send one of his employes up the trail to Gilacier Point to build the fire and push it off. This was done more and more frequently, until it became a nightly occurrence.

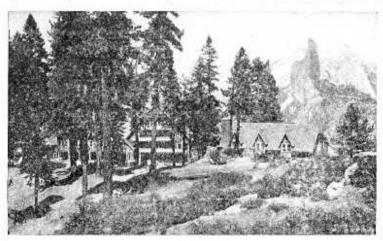
Mr. Curry's, "Hello, Glacier" and "Let the fire fall," delivered with remarkable volume, won for him the title, "The Stentor of Yosemite," This custom has been continued ever since, although David Curry has passed away.

In August, 1928, the San Francisco Chronicle printed an article concerning Fred W Zimmerman, who claims the distinction of originating the firefall. He was quoted as follows:

My first trip to Yosemite Valley was in 1883. I came over the Big Oak Flat road in a buckboard pulled by two mules. One day, during that summer, I climbed to Glacier Point, twothirds of a mile above Yosemite Valley. I decided to spend the night there. The weather became cold, so I gathered a pile of cones and built a fire. When the cones had burned down to red hot coals I grasped a long stick and amused myself by knocking them out into space.

J. K. Barnard, who was manager of the Sentinel Hotel at the time, saw the flaming bouncing down the mountain side, spreading sparks in all directions as they came. He was very much pleased with the display. The following day he came to my camp near Half Dome and offered to pay me \$2 per night if I would build a fire at Glacier Point and shove if from precipice each night for pleasure of his guests. cepted.

Fred McCauley claims for his fathar, James McCauley, the same distinction. McCauley came to Yosemite Valley in the spring of 1870. after spending a number of years in the mines around Mariposa. In

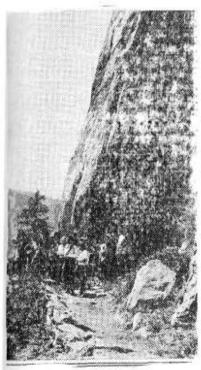


Glacier Point Hotel and Mountain House

1871, he was granted the privilege of building a trail to Glacier Point, what is now the four-mile trail.

In either 1871 or 1872 the idea of pushing the fire over the cliff was thought of and McCauley's guests traveled to the floor of the valley to witness the spectacle. It was so scuccessful and effective that many people requested more. The orders became so numerous that finally McCauley decided to make a charge of \$1.50 for each firefall. This practice was continued irregularly for a number of years.

In addition to pushing the fire over, McCauley would soak gunny sacks in kerosene, light them, and after waving them back and fourth several times, throw them over the cliff.



High Sierra Hikes.

The first guided High Sierra hike for this season will leave Happy Isles Monday morning, June 18, under the lerdership of Naturalist Borell, for Merced Lake, the first night's stop on this unique seven day feature of Yosemite's naturalist program. Each Monday morning thereafter until the middle of August another party will start around the circuit of the High Sierra Camps.

Averaging about nine miles of hiking each day, there is more than ample time for fishing, resting and photographing along the way. Nights are spent at comfortable High Sierra Camps. Congenial outdoorsmen gather around cheery campfires for relating the day's adventures.

The trip's circuit includes overnight stops at Merced Lake, Vogelsang Lake, Tuolumne Meadows, Glen Aulin and Tenaya Lake. The party will climb Mt. Dana, 13,050 feet...40 feet less than Mt. Lyell, highest peak in the park.

A dollar a night and a dollar a meal constitute the expense, with free guide service, making the total cost for the seven days in the high mountains about \$25. Reservations are necessary since parties must be limited to fifteen persons.

Leaders designated for the first five trips are as follows:

June 18-24

Naturalist A. E. Borell

June 25-July 1

Ranger Naturalist R. P. Beal

July 2-8

Ranger Naturalist C. Sharsmith July 9--15

Ass't Park Naturalist Ed. Beatty July 16-22

Ranger Naturalist J. E. Cole

Glaciers of Yosemite

By M. E. BEATTY Assistant Park Naturalist

Alaska, Iceland, or some other far Range. northern region. Few people, even in California, are aware that our usually heavy snowfall in the but actually live glaciers. As a where the annual snowfall ranges matter of fact these ice bodies are from 20 feet to 60 feet with up to larger and more extensive than 20 feet of snow pack at one time. others in North America of the same latitude.

forms the basis of our glaciers.

When speaking of glaciers, one's gether with a decrease in the averthoughts immediately travel to age height of the Sierra-Cascade

This serves to explain the un-Sierra contains a number of small Sierra around the Yosemite region

Most Yosemite visitors learn something of the part played by In the Sierra-Cascade Range, glaciers in carving Yosemite and running from the Tehachapi to other s'milar valleys of the Sierra Canada, a distance of over 1,000 during the Ice Age. How these gimiles, there are no glac'ers of im- gantic bodies of ice traveled down portance north of the Yosemite re- the canyons of the Merced and the gion until the volcanic peaks of Tuolumne of 50 miles, deepening Shasta, Hood, Rainier, etc. are and widening the original river reached. This seems contrary to canyons. How the climate changes, the general conception that the bringing alternate periods of heavy further north one goes the larger and light snowfall. How glaciers the glaciers but a study of the top- originate in fields of perpetual ography gives the clue to the rea- snow and creep down valleys as son. The Yosemite region is di- slow moving rivers of ice to a rectly east of San Francisco where point where melting, due to a the Coast Range is very low, al- warmer temperature, offsets the lowing the vapor-laden ocean advance. Let us see just how these winds to reach the S'erra where, alternating weather intervals efdue to the high elevations, they are fect our glaciers. In Switzerland, chilled and discharge their burden, where they have studied their glamainly as snow.' This accounts for ciers for over a century, during the unusually heavy snow that the middle decades of the last century they were found to be grad-To the immediate north, the ually retreating while, during the snowfall is less, consequently gla- latter decades, they showed a ciers are smaller and fewer, due gradual advance. And now 'n the to the increased heights of the early decodes of the 20th century Coast Range and other coastal they again find them retreating, ranges in Northern California to- In other words, the decrease or increase in the glaciers is directly the committee of glaciology, from proportionate to the amount of these studies shows American glanowfall. Our glaciers are un-ciers are at the present slowly undoubtedly reacting in the same losing ground. Alaskan glaciers manner although we have only re- advance at the rate of one or two cently attempted detailed study. feet per day while those of the Yo-

ment of Yosemite National Park a day. started annual measurements of the four Yosemite glaciers: Lyell, highest peak in Yosemite National Maclure, Dana, and Conness. This Park and Lyell glacier is credited ilar glacial studies carried out by Central Sierra. This ice mass is the United States Geological Sur- approximately one mile wide, conby Dr. F. E. Matthes, chairman of long.

In 1931 the Naturalist Depart- semite region only about one inch-

Mt. Lyell, 13,090 feet, is the work is in conjunction with sim- as being the largest glacier in the vey throughout the continental sidering both the east and west United States. Statistics compiled lobes, and about one-half mile



Hiking Party on Maclure Glacier

by a trail up the Lyell Fork of the carving of the Yosemite. Tuolumne, a distance of about 13 miles.

Mt. Maclure, 13,000 feet, adjoins Lyell on the west and has the second largest glacier of the Yosemite group. Dana glacier, on the east side of Mt. Dana, is probably the most accessible, involving a three mile hike from the Tioga Ranger station on the Tioga road. Mt. Dana, 13,500 feet, is undoubtedly the most climbed peak in the Sierra with as many as 500 climbing it in one season. One obtains a splendid view of the Dana glac'er occupying the cirque basin to the east.

Conness glarier is best reached by driving to Saddle Bag Lake and then walking about four miles following the stream course to the snout of the glacier.

These glaciers, though small, have the same characteristics of the larger ones of Switzerland, Alaska, and Greenland. Their surfaces often present yawning fissures known as crevasses, caused by tension or straining of the ice as it moves over irregular sur-They also build up rock debris in belts or moraines both in front and to the side of the ice mass.

Those who know our Sierra glaciers find them beautiful to behold

Lyell was first climbed by John as well as fascinating in the power B. Tileston of Boston, Massachu- they display in their work. One setts, on August 29. 1871, and interested in geology can, from the since that time has been climbed ample evidence, read the story of by hundreds. It is rather easily the Ice Age and the important part reached from Tuolumne Meadows they played at that time in the

TWILIGHT BY THE RIVER'S EDGE

By Natasha Smith Field School 1932

Did you ever think of Yosemite valley at night as Nature's huge cradle with each daylight-loving bird and animal tucked away in its special little niche? Some choos. trees, some holes, some shrubs as their resting places and st'll others sleep on the ground.

One evening as the shadows deepened, soft twitters told of many birds finding roosting places. I noticed a sandpiper family still forag ing at the river's edge. They were working hard and paying strict attention to the many insects that come out just at twil'ght. It was dusk before the mother sandpiper led her babies up the bank into the grasses and hedges. The family was barely distinguishable as faint moving forms. Mainly by the call of the mother and the low answer of the chicks was I able to follow them as they threaded their way through the shadows. On a little knoll overlooking the surrounding territory grew several thick clumps of grass. The moving shadow-like forms faded into the darkness at the base of the largest of these tufts.

A soft, sweet cheep was heard, as the chicks settled down, then qu'et reigned over all.

Snake Facts

By NATURALIST STAFF

Snakes are cold-blooded animals and cannot stand great fluctuations in temperature having little temperature control. Exposure to intense sunlight at midday can literally cook a snake to death in about 10 minutes time.

The only deadly poisonous snake in California is the rattlesnake.

Snakes as a whole are extremely beneficial in that they destroy myriads of insects and rodents.

Our most valuable snake, the Gopher rnake, is commonly killed because his color pattern somewhat resembles that of the rattler. The Gopher snake feeds mainly on gophers, ground-squirrels and mice.

Snakes have no ears; they receive v brations of sound through their tongue. They also taste odors in the air through their tongue.

Snakes do not swallow their young for protection against enemies.

Some snakes give birth to live young while others lay eggs, the young hatching out by natural ton and Lincoln trees. heat.

from sea level to 10,000 feet elevation.



Rubber Snake (Charina bottae) A relative of the boas and pythons of the tropics. This species, however, seldom exceeds twenty-four inches in length. It's characteristic small head aud blunt tail gives the appearance of being two-headed.

This snake is not only perfectly harmless but is extremely gentle and easy to handle.

NATURE NOTELETS

Western azaleas (Rhododendron occidentale) are now giving their best display of the season. An especially beautiful group of pink ones is to be found near the Washing-

There were no fish in any Rattlesnakes have been found streams flowing into Mono Lake until planted there through interest of our Fish and Game Commissimi.

Strange Things

There is a stream flowing under the base of a Big Tree in the Merced Grove.

Evening Primroses burst into full bloom from the bud in around a minute's time.

Swifts are the swiftest flyers of all birds and our White-throated Swift is the swiftest Swift.

A wild gooseberry bush is growing nearly 100 feet above the ground on a six-foot-in-diamterlimb of the Grizzly Giant.

plants have ben recorded in Yosemite National Park.

A trout weighing 12 pounds 9 ounces was taken from the Merced River near El Capitan last summer.

Two trees growing together at the base is rather a common sight. but in the Mariposa Grove there are two trees growing together at the top.

"Yosemite" means "Grizzly Bear," yet there are no Grizzlies left in California so far as is known.

The Water Ouzel is the only

song bird that has learned to dive into the water for food.

The California Woodpecker stores acorns for the acorns themselves and not for any worms that may get into them.

SUNSET AT WAWONA POINT

By Vera Margaret Christian You stand at the crest of a mountain Where no other fest have trod, Watching a beautiful sunset,

Your soul in communion with God You feel you are part of the silence, And the breath-taking beauty below-

Over 1,300 different flowering Of the crimson, the russet and yellow.

Cast from the sunset's glow.

The blue haze you see in the dist ance,

Dimly obscuring the sky,

Is a reflection cast by the shadow

Of a soul that is passing by.

The pine trees are sentinels of sil-

The beauty of all they enfold,

And the river has caught the reflection

Of the amber the blue and the gold.

The rim of the mountain beyond you,

When the magical ritual is done, Eagerly races forward,

And embraces the setting sun.



