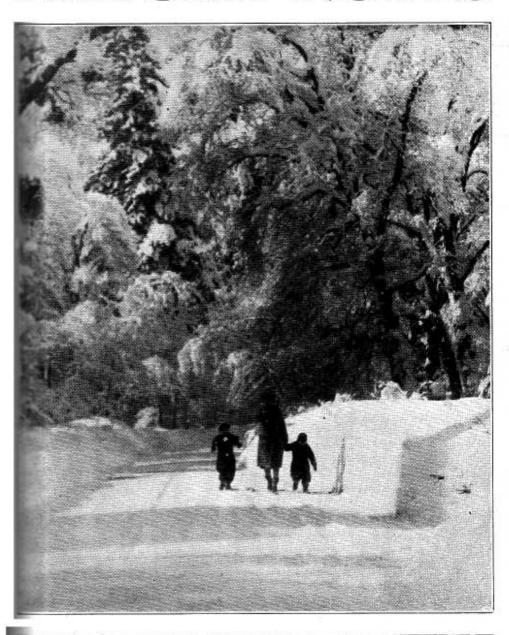
YOSEMITE NATURE NOTES



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Trout for Food and Food for Trout

(M. E. Beatty, Asst. Park Naturalist)

value of hellgrammites and nymphs than a stream, it is believed to be aware that at times baby trout serve flies rather than the dobson fly. as lure to these ferocious aquatic Essig in his ."Insects of Western Ranger Oscar Irwin North America" who during the summer months is habits as follows: stationed at Buck Camp in the southern part of the Park, recently with simple or incomplete metacent to the museum his observation morphosis and well developed bitof newly planted trout being de- ing and chewing mouth parts. The voured by a black bug which he nymphs are entirely aquatic, living took to be a hellgrammite.

member of the same family, Sia- stoneflies, other dragonflies, tadalive which they are able to over- to seize the unsuspecting victim." From Ranger Irwin's description, and the fact that the in- as dragonflies, devil's

Fishermen are well aware of the sects were found in a lake rather as good trout lure, but few are the nymph of one of the dragondescribes their

"Dragonflies are large insects a; the bottom of pools, lakes, rivers The name hellgrammite is com- and creeks, and are most interestmonly applied to the larvae of the ing, though not altogether beautiful eastern dobson fly (Corydalis cor- creatures. They feed upon all sorts ruta), which is not found west of of small aquatic animals, including the Rocky Mountains. A smaller crustaceans, nymphs of mayflies, lidae, which is common in Yosemi- roles, young salamanders, fish and te is the California dobson fly (Neo- so cn. The living prey is usually harmes californicus). The larvae ambushed and captured by the long lurks under stones of rather swift extensible lower lip or labium which streams and capture everything is quickly thrust out like an arm

The adults are commonly known

needles, mosquito hawks, snake teeders, horse stingers, and so forth.

Fish Eats Bird

Another reversal of custom was brought to light when Ranger Irwin caught an 18-inch Eastern Brook trout from Chilnualna Lake on June 30. As the trout seemed unusually heavy for its length, Irwin proceeded to cut it open for an examination of its stomach contents. It contained part of what was judged to be a seven-inch trout and a recently devoured full grown Water Ouzel. It is common practice for Water Ouzels to take small trout for food, but is an exceptional reco'd when a full grown Ouzel falls prey to a trout.



TREES BEAR A STONY LOAD

(Ranger-Naturalist E. D. Godwin)

't has been said that as the twig is bent, so groweth the tree. No bette: example is seen than that on the summit of Liberty Cap. This huge granite dome that stands like a sentinel guarding Nevada Fall has raised its stony head up into the air to about the 7,000-foot level, and on this windswept dome stand a few scrawny Western Juniper trees, struggling for an existence from the cracks down which they send their roots.

Around a boulder at the very top of the Cap grow two trees that hold aloft fragments of rock in the clutches of their branches as one would hold putty in a tightly clenched fist. Someone, sometime, long ago who visited this spot has put these stones up into a crotch of the tree and there they have remained, becoming more firmly knit in place by the branches that have been slowly engulfing them.

The Juniper is a slowly growing tree, a burly, gnarled and often a scarred one. It is a plant that is hardy and sturdy, and so in accommodating itself to this load of stone a long time gone by—a long time since someone had conceived the question of a later visitor when he gazed on this phenomenon. But still remains the question: When?



(Ranger-Naturalist E. D. Godwin)

summer, visitors to the museum are of them go away from the Park without seeing a glacier. Within a into Tenaya Canyon, anyone can see this process going on.

Don't mistake me; I don't mean that there is a glacier in Tenaya Canyon, because there isn't, but there is a patch of ice there in som> summers that we can consider a "laboratory glacier." The great smooth slopes of Cloud's Rest slant down into Tenaya Canyon's gorge, larger and granular, and a sub- fornia. If it were one of the first stance known as neve is formed. If two forms it was at least a new althis, you will find a mass of solid National Park.

Four times a day throughout the ice just a few inches deeper down. On July 22, 1935, this patch of told how snow falls, compacts into ice was about 50 feet thick and 150 ice, and glaciers are born, and most feet long. It lay directly in the stream bed, the waters of Tenaya creek flowing directly beneath and couple of miles of Mirror Lake up carving caves and channels out of its mass.

A POSSIBLE NEW BIRD FOR YOSEMITE

(Ranger-Naturalist Paul W. Nesbit)

Cn August 14, 1934, the writer saw a shrike near the lower end of Tuolumne Meadows. It was at the top of a dead tree about 30 feet the chasm that winds its way up high, and was tearing and eating above the box canyon at Tenaya, something-just what was not deand in the spring of the year when termined. As the California Shrike the thawing snow avalanches down (Lanius ludovicianus gambeli Ridgthis gorge is choked with snow and way) and the White-rumped Shrike Enough snow collects that it (Lanius ludovicianus excubitorides cloesn't melt away until the summer Swainson) are Austral forms in the is well under way, and this mass main, it seems possible that this was of snow, by its weight begins to one of the Northwestern Shrike change just like the top of a real (Lanius borealis invictus Grinnell). glacier. The snow crystals get The latter reaches northern Caliyou take a knife and dig down into titude record for them in Yosemite



SIERRA CHICKAREE (Sciurus douglasii albolimbatus) (Ranger-Naturalist Enid Michael)

The other morning when I stepped out of the tent I noticed the Chickaree scampering around under the azalea bushes as if in search of something. I sat down on the bench to watch him, hoping to learn what the object of his search might be. At a certain spot under the bushes he paused and began to scrape away the accumulated pine needles. He worked rapidly and soon he had a hole about six inches deep, buried he was except for hind legs and tail. He had removed the soil carefully, not scattering it about. Now he left the hole, hurried away and began to sniff about under the feeding tray. He was apparently searching by scent and not by sight. When he located an apricot pit he picked it up and in his springy, agile fachion he hurried back to the hole. The apricot pit was carefully tucked away.

In the course of twenty minutes he had harvested and carefully stored sixteen apricot pits and then a full five minutes elapsed before

the seventeenth pit was found. In the meantime he had several times exam'ned a peach pit which he always passed up. When the seventeen apricot pits like eggs in a basket were neatly stowed away he proceeded to bury his cache. First he paw d the soil into the hole and patted it down. Now he raked pine needles over the filled ground and over all he carefully placed a large brown leaf of the Kellogg Oak. After examining his camouflage from all angles he was apparently satisfied with his handiwork, for he scampered off to busy himself elsewhere.

Sierra Chickarees, Gray Squirrels and Blue-fronted Jays all have
food storing down to a science. And
the amazing thing to me is that
such animals can actually relocate
and recover at least some of their
ctores. I have seen both Gray Squirerls and Sierra Chickarees dig
through several inches of snow to
the exact spot where a cache was
stored. And on more than one occasion I have seen a Jay fly to the
ground and without apparent hesitation dig out a buried acorn.

BEAR DENS IN CASTLE ROCKS

(Ranger-Naturalist E. D. Godwin)

Yosemite bears seem to pick ina tooth and nail proposition in several places to climb up to the upper of the two large horizontal joints in the Valley wall. On the narrow bench afforded by the joints were piles of talus material that made it easier in places to crawl under rocks than over them, and in so doing my way led me accidentally upon three dens that had evidently been occupied in the recent winter. Two of these were ordinary bear "beds," shallow depressions scoopcd in the earth beneath suspended boulders, but it was the third that aroused my interest. In trying to attain a ledge above, my only path led up a shallow but steep draw filled with boulders, and beneath a large block of granite. As I began to crawl under, I noticed it was another bear den, but different from the others. There were three pits in the earth. One large and two somewhat smaller. Evidently a femade and her two cubs had hibernated there.

Ordinarily a mother will hibernate with her cubs the first winter, although perhaps occasionally the cubs winter together without the mother.

CHIPMUNK-SNAKE EPISODE

(by Ranger Don Burdick)

During the middle of August I noaccessible, as well as isolated and ticed a chipmunk moving her young sheltered places to spend the win- from somewhere up the road to a ter. On an exploratory trip early hole in one of the posts at the archlast summer I was clambering about way over the road at Aspen Valley the craggy cliffs beneath and to the station. One morning a few days eastward of Yosemite Point. It was later, I noticed quite a bit of action taking place near the stone base of the arch-way. Going closer I discovered the chipmunk struggling with a 24 to 30 inch Rubber Snake. The battle probably had been going on for some time, for the snake seemed to be in pretty bad shape. The chipmunk centered her attack on the tail of the snake, but once in awhile would jump in and bite the snake on the head or body. quite awhile and with great effort, the snake reached a small hole in the rocks at the base of the archway and the little chipmunk was unable to keep it from geting away. She immediately moved her nest to another location.

ARE GRAY SQUIRRELS ON THE WAY BACK?

(Ranger - Naturalist Enid Michael)

Last summer it happened to be my pleasant duty to take care of a young Spotted Owl. In order to satisfy his appetite I was forced to trap mice. Three set traps often meant three mice for the owl. This summer three traps would not catch three mice in three weeks. WhethRing-tailed Cats are almost nightly wise ground squirrel. visitors to my tent, and Ring-tailed Cats have the reputation of being Chickaree, while not nearly so nugreat mousers.

It seems too bad that the least pleasing mammal in the Park is the one that is most often seen. And by the way, the ground squirrel in the Yocemite Valley is no longer strictly a ground squirrel. In the Yosemite Valley, and I suppose elsewhere in the mountains, he has developed the tree-climbing habit to such an extent that he is able to compete with the gray squirrel and the Sierra Chickaree for a share of Ho even climbs the acorn crop. into the coffee-ber, y and the cherry burhes to compete with the birds in harvesting the fruit. Also at the base of almost every stray apple tree about the Valley there is the burrow of a ground squirel-the recourceful ground squirrel believes in being close to the source of food supply. The unwary camper also offes a rich source of food supply,

er or not this would mean that mice for any unguarded food left around are scarce in the Valley this summer the tent will likely go to help sup-I can not say, for it so happens that port in luxury the family of some

The little pine squirrel, or Sierra merous as the ground squirrel, can Owls, weasels and sparrow hawks more than hold his own. It is a were not so numerous this summer fact that through the years since which fact would seem to indicate the handsome g.ay squirrels disapa shortage of mice. I am wonder- peared from the Valley there has ing if a heavy winter could possibly been a constant increase in the numallect the mouse supply. However ber of chickarees. Prior to the takthat may be, the heavy winter was ing off of the gray squirzels, chicksurely not unfavorable to the arees were never seen below the ground squirrels. The many rep.e- rim of the Valley. The coming back sentatives of this tribe mated suc- of the gray squirrels, which fortuc.ssfully and reared large families, nately has been indicated during the past several years, will result in keen competition along the forage lanes for all three squirrels as all three eat the same kind of food. Can the gray squirrels reestablish their rights in the Valley; can they regain their territory in spite of the vast increase of bidders for a limited food supply? The problem of-.e.s an interesting study,

BLACK WIDOW SPIDERS FOUND IN YOSEMITE

M. E. Beatty, Ass't, Park Naturalist

In the April, 1935, issue of Yosemite Nature Notes there appeared an article on the "Black Widow Spider" by I. C. Robertson, reprintcd from "Hobbies." Miss Robertson's article gave a good description of this venomous spider, which at the time had not been found in Yosemite.

While the Black Widow spider, specimen was taken in the museum fornia, it has only recently been found near Yosemite at Mariposa and El Portal. During the summer of 1935, three specimens have been taken in Yosemite and several more have been reported. The latest

(Latrodectus mactans) has been wildflower garden on September 18, common for years in southern Cali- while other specimens have been found at Cascades and the new village.

> The black widow may easily be recognized by the round, shiny, black abdomen on the underside of which appears a characteristic red hourglass design.



A Fallen Tree - Still Standing

(Ranger-Naturalist E. D. Godwin)

Gentry to El Capitan the trail leaves the denser forest of firs and lodge-pole pines and strikes out before you get to Ribbon creek. At the left in the open stands a tree trunk, unnatural and peculiar in appearance; it is a "snag" by the trunk tapers narrower toward the ground. The branches point the wrong way. The trunk at the level of the ground is about a foot

Strange things happen in the in diameter and about it, lying in great out of doors, and it is the a radiating fashion, is a pile of supreme joy of a nature lover to branches. The whole picture told stumble upon them and revel in me this was once the top of a large their novelty. Along the way from tree, broken off, and fallen in such a way that it "speared" into the ground, ripping the uppermost branches off as it pierced into the into a sandy clearing about a mile earth. I tried to see how firmly it was lodged and so pushed against the trunk; I could budge it very little, even when I shoved in resonance with the trunk as it vibrated. Nearby, to the south, is a tall tree, a red fir, whose top is broken

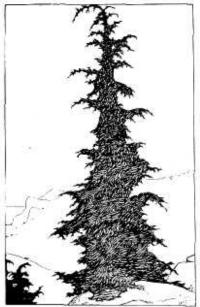
It is often that the top part of a

it should fall in such a manner, of this tree. Many of them are al-Another tree, a sugar pine, has done most three feet in diameter and this same thing. It may be seen a have an estimated height of over Trees.

MOUNTAIN HEMLOCK

(Ranger-Naturalist R. E. Carlson)

Hiking parties into the high S'erra watch eagerly for the first moun-



tain Hemlocks (Tsuga mertensiana) as indicators that they are entering enough of such a piece to roll to the Hudsonian Zone. This beauti- a stop here from a higher promiful tree of the high country is us- nonce. It doesn't seem likely that ually seen as a tree of some forty it is a glacier-carried stone-it is or fifty feet in height and only eight too fresh and bright to have reto sixteen inches in diameter. In a mained through some 20,000 searumber of places, however, larger sons. specimens of these trees may be obon the south side of the bas'n of time, see if you can figure it out Conness Creek, there are to be

tree is snapped off, but rare that found some magnificent specimens few hundred yards west of the mu- 100 feet. Some of the finest speciseum in the Mariposa Grove of Big mans in that region may be observed alongside the trail about a mile before reaching Young Lakes.

THE QUARTZ BLOCK AT YOSEMITE POINT

(Ranger-Naturalist E. D. Godwin)

Many people have hiked along the trail to Yosemite Point and have missed a rather unique occurrence of nature. To the west of the trail for just a couple hundred yards before you get to the Yosemite Point railing, look for a large lump of . sparkling quartz. Nearly a square in shape it stands, glistening white on the hillside of drab, luchencovered glanite as though it were a jewel studded on a base of faded velvet.

Nearly are small broken fragmonts of quartz, stained and tainted with iron, and appearing not so pure and glassy as the large piece. Nowhare within two or three hundred yards is other pure quartz to be seen. The hillside is not steep

Where, then, did this jewel come served. On the Young Lake trail from? When you are there next

