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History of Fishing in Yosemite By A. E. BORELL Naturalist

mand such world wide interest and fresh water streams. Some of these encouragement as does fishing, were destined to remain in the slow Every year fishing takes millions running water of the main rivers of people away from the cities and but others forced their way into the gives them strenuous outdoor exer- rapid mountain streams at the very cise and mental diversion. Since headwater of the rivers, However, most varieties of fish can be rear- the fish which came up the Merced ed and planted so successfully the River found themselves confronted fisherman does not have the feeling with the insurmountable waterfalls that he is contributing to the of Yosemite Valley. Trout belong to extermination of his game which the salmon family or Salmonidae often is the case with the hunter, which means leapers. The trout and A fisherman on the bank of a high salmon are powerful leapers but canmountain stream is at peace with not possibly get over such mighty the world.

There are things regarding the history of fish in Yosemite. When the first white condition which is quite different men came into Yosemite Valley they today. There were only two species found trout in the Merced River of fish inside the boundaries of the but none in the tributaries or lakes present Yosemite Park. They were above the rim of the valley. The an- the Rainbow Trout and the Western cestors of our fish developed in the S. cker. J. M. Hutchings in his

There are few sports which de- worked out of the ocean into the waterfalls as Vernal, Nevada, Yoseveral interesting semite, Illilouette or Bridalveil,

The pioneers found also another ocean and gradually certain species book, "In the Heart of the Sierras,"

(1886) mentions this fact. He adds that year Mr. Kibbe planted trout in now hanned by state law.

Following the discovery of gold thousands of settlers moved into California. With this rapidly increasing population the streams of the Sierra were soon over-fished. Private individuals took up the work of rearing and planting trout in the depleted streams and in introducing trout into waters which were formerly barren. But the planting by private individuals was limited and did not meet the demands of the general public. To improve the hunting and fishing and at the same time conserve certain specimens of fish and birds and mammals from extermination the California Fish and Game commission was organized in 1870. Since that date the commission has been introducing, rearing and planting fish of many species throughout the state. Of recent years special attention has been given to the rearing and planting of trout.

of the early fish stocking in Yosem- hatchary

the interestin note that the best Lake Eleanor (species and number catches were made by using bits of not known). In the following year sucker meat for bait and fishing at John L. Murphy is supposed to have night. He says that the Indians used planted trout in Lake Tenaya. It is this method and brought large thought that even previous to this strings of trout to the hotels where sheep herders may have moved they sold them for 25 cents a pound, trout from one stream to another Night fishing and sale of trout are so as to have fish near their summer camps.



Chief Ranger Townsley and a Big One.

The California Fish and Game Commission made its first trout plant in Yosemite in 1892. n the fall of that year a shipment of Black According to Col. H. C. Benson, Spotted Eastern Brook and Rainwho has been responsible for much bow trout were shipped from the at Sisson (Siskiyou ite, the first distributioon of trou in County) to Raymond by train and Yosemite Park was made in 1877. In then hauled by stage by the way

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of Wawona to Mono Meadows.

animals and taken to Ostrander fisherman and have not received and Merced Lakes, Bridalveil Creek encouragement since their original and other creeks and lakes in the planting. For that reason they may region. During the following years now be extinct in the park. Col. H. C. Benson took an active Loch Leven and German Brown interest and distributing throughout Yosemite Park with the in the Yosemite region, that both aid of his soldiers. They seined them in barren streams and lakes. Rainbow that most fishermen do About this time Cap. A. E. Wood not recognize them. This leaves procured Eastern Brook trout and seven kinds in the park which are plantzd them in Alder Creek.

Wawona by the California Fish and Loch Leven, and Rainbow are by Game Commission. This hatchery continued to supply fish to the general region until 1927 when the new State Hatchery was built at Happy Isles, Yostmite Valley. The new hatchery took over the work and trout another fine game fish, the continued to stock new waters and restock depleted waters.

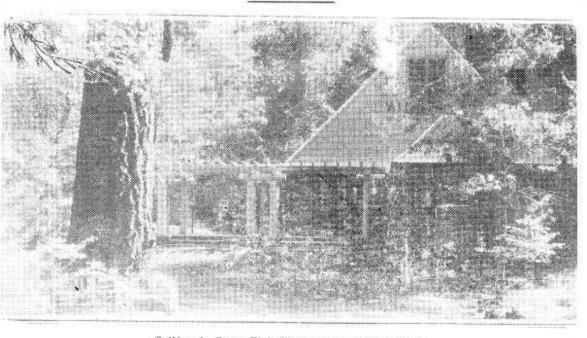
Today we find that practically all of the waters of the Yosemite region which will support fish have been planted. We find also that instead of the one species of trout which was found here originally there may be as many as ten species of trout, without success. So far there is no inside the boundaries of Yosemite open stason on this species in the National Park. Rainbow, Eastern park. Brook, Shasta, Loch Leven, Cutthroat, Steelhead, German Brown, Black-spotted or Tahoe, Dolly Varden and Golden Trout have been planted here. Dolly Vardan trout were planted in one of the Chain good fishing in the Yosemite region Lakis, near the southern boundary in spite of the tremendous number

of the park and in the Merced Riv-Here they were loaded on pack er.. They are not held in esteem by The trout trouts are so much alike, at least are usually classed as Loch Leven. trout in certain waters and planted Shasta trout is so much like the casily distinguished by the experi-In 1895 a hatchery was built at cnced fishermen. Eastern Brook, far the most common trout of Yoscmite but Steelhead, Black-spotted, Cutthroat, and Golden trout are the common species in certain waters.

> In addition to the seven species of Graylin, has been introduced. In 13.1 a plant of this species was made in one of the lakes at about 10,000 feet elevation. Since that time Grayling have increased in the lake and have worked down the outlet stream. Introduction of Grayling had been tried here previously

> The Yosemite Hatchery with the aid of the Ranger department raises and plants about 1,500,000 fry each yea... This heavy planting insures

of people who visit the region each ous planting, provides excellent fishyear. The great majority of the vis- ing for those who are willing to hike itors are not willing to hike very a few miles from the automobile far. This, together with the continu- roads.



California State Fish Hatchery at Happy Isles



The Tree of Many Names By M. E. BEATTY Assistant Park Naturalist

The Douglas Fir (Pseudotsuga taxifolia) is probably the most mis- tive in that it is represented by only named tree in the world having three species in the entire world, something like twenty five different two in America and one in Japan. common names. The reason for this In botanical relationship it stands in confusion is three-fold; the tend- an intermediate position among the ency for assigning local names, the spruce, hemlocks and firs, hence, use of trade names for lumberman and similiarity to other species of trees.

this tree are listed here to illustrate: Hemloc's while (the Latin) taxifolia 1. Douglas Fir, 2. Douglas Spruce, means foliage like a Yew. In other 3. Red fir, 4. Yellow fir, 5. Spruce, words, the scientific name of "False 6. Fir, 7. Red Pine, 8. Oregon Pine, hemlock with yew like foliage." 9, Puget Sound Pine, 10, Douglas Tres, 11. Cork - barked Douglas known, is the chief lumber tree of Spruce, 12. Red Spruce, 13. Douglas Yellow Fir, 14. Oregon Fir, 15. Pacific Coast Douglas Fir. 16. Montana Fir, 17. National Yellow Fir, 18. Golden Rod Douglas Fir, 19. Yellow Douglas Fir, 20. "Santiam" Quality such lightness, strength, flexibility Fir, 21. Christmas Tree.

The genus Pseudotsuga is distincthe great variety of common names.

Pseudotsuga taxifolia as a name is taken from the (Greek) pseuda A few of the common names of meaning false, (Japanese) tsuga or

> The Douglas Fir as it is best the Pacific Northwest and is found from the Rocky Mt. to the Pacific and from British Columbia to Mexico. No other conifer yeilds wood of and durability.



Canada Goose, a New Bird for Yosemite

By Clare McGee (Field School '33)

1934, a cool sunny day, a Canada honking was soon out of sight down Goose or Honker, (Branta canaden- the river. Five minutes after the sis) was seen feeding along the cose had flown, it returned and shores of the delta at the east end was seen soaring and circling about of Mirror Lake. The black and five hundred feet overhead showing white patern of the face, black neck the broad wings with several flight and legs, and gravish body were less feathers on each wing conspicuously conspicuous against the sandy back- lacking. It lost altitude rapidly as ground than mi ht be expected, and it circled, and after several circles. when the goose was motionless it it arched its win's very strongly was difficult to see.

the Yosemite Museum in the after- landed heavily near the east end of noon, two members of the staff the lake. It then swam toward the immediately went to the lake to see shore where it had first been seen, the bird and confirm the report of moving its head back and forth dethe first Canada Goose in the Yo- liberately as it swam. semite Valley, a new bird to the check list. At 4:30 p. m. the goose Mirror Lake has been visited almost was within one hundred vards of the place where it had first been seen.

One of the man attempted to get a photograph, but when he was ing over Wawona several weeks bewithin fifty yards it took flight and fore by Robert Beal, but they were with powerful strokes of its tre- too high to identify as to species.

At noon on Saturday, March 10, mendous wings and loud, deliberate downward, forming almost a per-When the find was reported to fect half circle, dropped rapidly and

> Since the discovery of the goose, daily by some member of the Museum staff. Each observer reports the goose near the east end of the lake. It was still there on March 20th.

A flock of geese were seen fly-

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A Rare Hawk in Yosemite

By A. E. Borell, Naturalist

Dome.

It had been a mild winter and indicated the amount of this year's was most used in falconry. growth. The booming of the Sierra Grouse and the antics of a pair of Red-breasted Nuthatches indicated that the mating season of at least some species of birds was at hand.

Upon reaching the foot of the cable which is about 8,400 feet in obviously a Falcon but I could not swallowing is well under way. this individual was obliging and tales of two snakes with like inand the dark color of the back finding its mistake, cannot relinwhich identified it as a Duck Hawk ouish the morsel. (Falco peregrinus). It continued south.

The Duck Hawk is a compar-

There are days in spring when an semite. According to our records office seems like a prison and we this species has not been recorded long to be out on the trail. April in the Park since June, 1926, and 17, 1934 was usch a day, and I was only twice previous to that date. fortunate to be on my way to Half All of the former observations were made in Yosemite Valley.

The Duck Hawk lives mainly on there was little snow left below the sea coast and about large bodies 8,000 feet. Light tips on the ends of water. It is powerful and fast of the branches of pines and firs in flight and is the species which

CAN SNAKES DISGORGE PARTIALLY SWALLOWED PREY?

(By Guy Van Duyn) Field School '32

There is a prevalent belief that elevation, I surveyed the panorama snakes due to the barb-like, rearwhich laid below me. A passing ward tilt of fangs and maxillary shadow called my atention to a teeth, cannot disgorge a victim of large bird soaring above. 't was their appetite, once the process of

identify it as to species. However One hears creditable-sounding continued to circle about in a great tentions seizing upon the same prey spiral, getting lower and lower until from opposite ends, the alleged ulit flew slowly past at eye level, timate outcome being that the larg-Then I could see distinctly the er snake must and does swallow the black bar down the side of the face smaller, which later, even though

With certain exceptions this gento circle and disappeared to the eral belief is without foundation the exceptions being traceable to characteristics of the prey rather than atively rare bird throughout Cali- to the dentition or other shortcomfornia and is decidedly rare in Yo- ings of the snake. Occasional fatal

tempting to swallow over-sized entic record. If the lizard is small partly engulfed when the rattler for enough it will in due time be swal- some obscure reason suddenly delowed but in cases where the almost cided to reject the meal. miraculous elastic qualities of the snake's mouth and throat overtaxed by the broad, chunky ing. Whereas the latter had conbody of the lizard, the snake will sumed some fifteen or twenty minhe in a bad way. The rearward slant utes up to this point, the former of the spines of "horns" on the liz- would have required only a matter ard's head act like so many barbs, of seconds. The snake literally imbadding themselves in the anakes backed off from the mouse with a distended throat, sometimes even series of opening and twisting mopenetrating the skin.

The ordinary type of lizards. frogs and small rodents give a snake no difficulty should ha for any reason change his mind about the dedesirability of the meal, when half swallowed.

Very good evidence of this way seen (July 19, 1933) in the case of a small pacific rattier which made a meal of a good sized microtus mouse. The meadow mouse was half swallowed when the snake was removed from its cage and placed in the open, for the purpose of photographing the swallowing process. The snake showed no disire to rid itself of the mouse at this stage as might have been the anticipated result of being disturbed. On the contrary, upon being released, it increased its effort to complete the repast and it appeared doubtful whether the cameras could be foc- ent bulge amidships.

instances of optimistic rattlers at- used before the mouse disappeared. Several pictures were taken. horned lizards are matters of auth- however, and the hind-quarters

> The disgorging proceeded at a are rate greatly exceeding the swallowtions of its jaws.

The process was interrupted by he writer for the benefit of the photographers who were not yet satisfied with their results. As the head of the mouse was about to reappear the snake was quickly siezed by the neck and the mouse gently pushed back to its erstwhile position.

This operation had to be repeated three times before stisfactory, pictures were obtained.

The snake was then gently replaced in the cage withs its fellows, the mouse being firmly held in position for some thirty seconds. Pressure was then very gradually released on both diner and dinner and they left undisturbed for a time. When the writer returned to the scene an hour later the snake was complacently digesting the troublesome repast now mercly a promin-

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