

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
YOSEMITE NATIONAL PARK
CALIFORNIA

OFFICE OF THE SUPERINTENDENT

March 1, 1934

The Director
Office of Nat'l Parks, Bldgs & Reservations
Washington, D. C.

Dear Mr. Director:

Following is a resume of activities in Yosemite National Park during the month of February, 1934:

000 - GENERAL

010

February was mild and springlike, with temperatures averaging ten degrees warmer than during February 1933. Only six inches of snow fell in the Valley during the month, and this melted so rapidly it was very difficult to keep winter sports activities in operation. Travel showed a slight loss, due undoubtedly to lack of winter sports the latter part of the month. The skating rink, toboggan, and ash can slide were in operation most of the time until the 15th. During the latter two weeks visitors enjoyed fine skiing at Chinquapin and Badger Pass. About 1,500 people visited this area for snow sports. The road to the Mariposa Grove has been open practically all month, and 1,359 people took advantage of this opportunity to see the Big Trees under a mantle of snow. The Big Oak Flat Road was passable most of the month and cars were able to drive to Hetch Hetchy Dam most of the winter.

020 - General Weather Conditions

Temperatures for the month were unusually warm; precipitation was slightly ahead of normal, as indicated by the following figures:

	<u>This year</u>	<u>Last Year</u>	<u>Normal</u>
Average maximum temperatures	55.96	50.32	52.3
Average minimum "	31.89	21.89	24.4
Precipitation in Valley	6.06"	1.16"	5.87"
Snowfall in Valley	6.00"	9.50"	26.50"

Clear days - 13; partly cloudy 8; cloudy 7.

A complete snow survey was made the end of February by rangers; all ten courses scattered throughout the high country of Yosemite were



Thousands Enjoyed Excellent Skiing in
Badger Pass Area

covered. Final reports are not yet available, but preliminary reports indicate that we have a fine snow pack, with 70" of snow at Perego Meadows (7000 foot elevation). The water content was 21.8 inches, which figure is 88% of normal, and 93% of last year. Other gauges showed 20 inches at Chinquapin, 12 inches at Wawona Point, and 81½ inches at Gin Flat. Precipitation to date is 2.34" ahead of last year, and almost normal.

100 - ADMINISTRATIVE

110 - Status of work

Work is current.

120 - Park Inspections by:

121 - Superintendent

February has been an exceedingly busy month, as have all other periods this winter. Regular inspections have been made of all going projects, work at the Big Trees, at Wawona, at Chinquapin, and at many points on the Valley floor. There have been a miscellany of small jobs under way with CWA funds which have been inspected. The ECW men are working at various points throughout the Valley from Mirror Lake to the western boundary; this work must be inspected and planned. A large building program is under way with PWA funds - three new employees residences and the four-family apartment being the major buildings under construction at this time.

Ten days were spent in San Francisco and the Bay region. En route The Superintendent contacted Judge Trabucco and District Attorney Milburn of Mariposa, regarding relief employment matters. In Merced the editors of the Merced Sun-Star were met, and the controversy as to whether liquor should or should not be sold in the Park was thoroughly discussed. The new N.P.S. office in the Post Office was inspected, in company with the Postmaster of that City. In Modesto the Superintendent saw Messrs. Wherry, Goeffert, McPheeters and Shannon of the Modesto Chamber of Commerce. In Berkeley, various problems were threshed out with Messrs. Hall, Wright, Thompson, Dixon, Russell, Miller, Fair and Burgdoff. In San Francisco the Superintendent made many important contacts with Messrs. Farquhar and McDuffy of the Sierra Club; with Chamber of Commerce executives; with various officers of the Forest Service, including Dr. Meinecke. A conference was held in the office of Dr. Hewes of the Bureau of Public Roads. Present were Messrs. Hewes, Brown, Morrison and Mayo of the Bureau, and Wooley and Carpenter of the San Francisco office. Road designs, Big Oak Flat landscape necessities, the Wawona Road, Glacier Point Road, a new Sentinel bridge, and other important subjects were discussed. Some time was spent with Major Farley of the California Fish and Game Commission -- and later a meeting was held in the Yosemite office with Major Farley and Dr. Snyder of the State Fish and Game Commission, which will be reported later on in this report.

Returning to the Park brief stops were made at Modesto, Oakdale, and Merced. At Fresno the Superintendent attended the bi-monthly meeting of the State Chamber of Commerce.

On February 24 the Superintendent attended the special meeting of the San Joaquin Tourist and Travel Association in Fresno, returning to Yosemite on the 25th.

On February 27 he left to attend special meetings at Merced, to speak before the Rotary Club at Modesto, and to meet various highway officials and attend a meeting at Stockton on March 2. This trip will be reported more fully in the March report.

123 - National Park Service Officers

E. A. Nickel, Structural Architect from the San Francisco office, arrived in Yosemite February 4 in connection with completing plans for the utility building for this Park.

Dr. Carl P. Russell arrived in Yosemite February 5 and spent three days in the Park working with the Museum staff. He was especially interested in starting the card cataloging of Museum accessions. This work is being done with CWA employees. As many of the original entries in our old accession books were made by Dr. Russell, his help at this time was extremely valuable.

Mr. Miller, architect from the Berkeley Headquarters spent many days in the Park making preliminary plans and drawings for the proposed Museum addition.

125 - Other governmental officers

Donald DeLeon, Entomological Technician from the Berkeley Headquarters arrived in Yosemite February 25 to make a study of insect-infested Douglas Firs.

Mr. Patterson of the Bureau of Entomology called at the Office on February 16 in connection with insect control work to be done by the Forest Service.

127 - Other Agencies

Messrs. Frank McKee and Pierce of the State Highway Department, and Fred C. Tatton, Manager of the Central Valley District, California State Chamber of Commerce, arrived in Yosemite on February 23 for a special meeting with the Superintendent. Various road problems of mutual interest were discussed at length.

Major John L. Farley, Executive Officer, and Dr. J. O. Snyder, Chief of the Bureau of Fish Culture, both of the California Fish and Game Commission, and Dr. Paul Needham, Associate Aquatic Biologist, and Mr. A. C. Taft, Assistant Aquatic Biologist of the U. S. Bureau of Fisheries reached Yosemite February 20. A special meeting was held in the office of the Superintendent on February 21 to thoroughly discuss the entire hatchery operation for Yosemite, rearing ponds, and fish planting in this area. A special report on this important meeting has already been submitted to Washington.

130 - Finance and Accounts

The following is the status of Park Service accounts as of March 1, 1934:

<u>Appropriation</u>	<u>Allotted</u>	<u>Expended & Obligated</u>	<u>Balance</u>
44434.3 Y.N.AP. 1934	\$199,640.87	\$161,483.00*	\$ 38,157.87*
44406.3 F.P. & F. P. 1934	6,377.72	3,200.00*	3,177.72*
4-03/5640.14 NIR Int. N.P.B. & R. 1933-35	508,615.00	192,876.00*	315,739.00*
4-03/5640.8 " Rds & Trails 1933-35	631,420.00	201,886.00*	429,534.00*

* Estimated figures

140 - Labor Situation

Practically all men in nearby counties are now employed. With the orders to reduce our CWA payrolls, we have so far been able to absorb most of these men in other projects in the Park -- PWA, so the reduction has not been felt in this area to date.

150 - Equipment and Supplies

No major items of equipment were received during the month.

300 pamphlet covers for the engineer's office, 6 fire extinguishers and 4 plasterers' trowels were received.

170 - Plans, Maps and Surveys

Office work: A major portion of the time was spent in preparation of various programs. Draftsman E. C. Smith has supervised the work in the drafting room and also the field surveys. A contour map of the proposed Mariposa Airport near Mount Bullion was prepared and an enormous amount of work in connection with PWA and CWA activities was accomplished, including preparation of plans, specifications, making up bills of materials, etc.

Surveys have included mapping of Mount Bullion airport site, locating various points on the Valley water system and other work on the Valley floor in connection with building construction. One draftsman was occupied the entire month in retracement of existing water lines in Yosemite Valley. A field location of the entrance station at Four Mile was made, data on additional area at this location was secured for the purpose of extending the contour and topographic map; 6,000 feet of proposed curb and gutter along the Mariposa Grove Road were staked out.

200 - MAINTENANCE, IMPROVEMENTS AND NEW CONSTRUCTION

210 - Maintenance

Water and Sewer Systems: Typical spring maintenance work was done, consisting mostly of trouble shooting along pipe lines, due to leaks in the water pipes and clogging up of the intake. The sewer plant has operated satisfactorily, the average flow being 178,000 gallons per day, equal to that of January.

Buildings: Miscellaneous repairs to buildings have been carried on by CWA forces.

Trails: No work done during February

Roads: The Wawona, Glacier Point, Big Trees and Big Oak Flat Roads had to be cleared of snow after the five intermittent storms between February 15 and 26. The Glacier Point Road was kept open as far as Badger Pass so that the ski fields could be readily reached. A small crew of BPR men have continued drainage work along the Wawona Road.

On the Valley floor, road maintenance consisted of removing small slides and rocks, and in cleaning ditches and culverts.

Maintenance of the Coulterville Road, for fire control purposes, consisted of strengthening bridges, repairing ditches, and enlarging turn-outs for passing.

Electrical and Telephone Systems: The output of the power plant for the month was 736,510 KWH, as compared with 438,420 KWH during the same period last year. On February 22, a large stone loosened by the heavy rain, fell from the cliff, breaking off a cross-arm on the 11,000 volt transmission line. The plant had to be shut down one hour for repairs. Trouble on the cable between the tunnel and the power house has required the turning off of the electric counter until repairs can be made.

Due to this cable trouble it was also necessary to reroute the 5F Wawona telephone line over the old line. Outlying telephone lines to Chinquapin and Wawona were out of order on several occasions due to storms. The number of telephone calls this month was approximately 19% less than that for the same period last year.

220 - Improvements

Buildings: At the sewer plant the interior of the green house and the machinery room were painted by CWA men.

Building improvements under CWA have been concentrated on the construction of rubble masonry fireplaces and the placing of veneer around foundations of various residences, sanding and varnishing of floors, painting and miscellaneous improvement work which has not heretofore been necessary with reduced maintenance funds.

A program is also being worked out for the elimination of existing fire hazards in all Valley floor buildings, this work to be done under PWA.

Interior painting and sanding of comfort stations on the Valley floor was completed February 28. 29 comfort stations in the public campgrounds were thus improved, as well as those located at Happy Isles, the Indian Village, Girls' Dormitory section, warehouse, New Village, and Arch Rock. Exterior painting of the comfort stations will be done a little later in the spring when weather conditions are a bit more favorable.

A new bathroom is being added to the Old Log Cabin residence near the Sentinel Bridge, now occupied by Judge Oliver. The fixtures are now installed. Exterior and interior painting remains to be done.

Roofs of the houses in the Cascade area have been repaired and restained.

Campground development: Construction and assembling of 500 campground tables commenced February 20 and is progressing satisfactorily.

Electric System Extension and Improvement: Complete overhauling and repairing of equipment at the power house is in progress. We have secured the services of a skilled armature winder from the San Joaquin Light and Power Corporation to finish repairs on generators.

Penstock betterments: Funds on this work expired February 7. Request was made to Washington for additional \$607.00 to be transferred to this account, which if received, will enable the completion of trestles carrying the wood stave line.

Sewer System: With CWA funds, it has been possible to do a great deal of work on the grounds at the Sewage treatment plant, and many shrubs have been placed around the plant as a landscaping feature.

Telephone System Extension and Improvement: Rebuilding of the telephone lead between the Old Village and the Power House is about 82% complete. No progress has been made in the installation of radio equipment due to the delay in securing materials.

Roads and Trails: The dangerous curve at Valley View has been greatly improved by the construction of about 4" additional road shoulder, which has been paved with bitumuls.

Improvements made by Mechanical Department: This department has been busy rebuilding the water wheel at the power house and making other mechanical installations at the plant. A new can crusher machine has been constructed for the incinerator on the Valley floor, and one is also being built for the Wawona incinerator. All Fords used by the Fire Patrol have been completely overhauled. The two Studebakers and the Packard (all passenger vehicles) have been repainted a fine Park Service green, this work being done by an expert employed with CWA funds.

230 - NEW CONSTRUCTION

Buildings

Four-family apartment Work is complete except for hanging doors, fitting in of hardware, and interior painting and decorating.

Hospital Employees' dormitory: Interior painting and decorating remains to be done, also installation of a few bathroom fixtures. Work has been discontinued due to lack of funds and a request has been made for an additional \$500.00 to complete this necessary finishing of the building. With CWA funds we are building steps on both ends of this building, grading, and landscaping, also improving the service road to the garage, constructed in the basement of this building. A small amount of plastering remains to be done in the garage, as a fireproofing measure.

Three employees' residences: Frame work and shingling is completed and placing of wallboard is 80% complete. The remainder of the work, including millwork, exterior staining, and interior painting and decorating will be completed by April. Additional bathrooms in two of these residences have been installed, through the saving of funds by use of CWA men in constructing fireplace and terrace.

Sewer System: Bids for the chlorinator have been received and forwarded to Mr. Kommon for recommendation.

At Arch rock, one of the most needed sewer systems in the Park was completed February 17. This forms an extremely worthwhile project, eliminating the unsightly crossing of the old sewer line on the Merced River, and caring for the disposal of sewage by means of cesspool and filtration ditches, thus removing the danger of contamination of the Merced River at that location.

At the Wawona incinerator concrete work has been completed and the steel roof fabricated and delivered to the site. A service road has been constructed to this incinerator with CWA men.

Sewer systems and water lines have been laid to all new buildings.

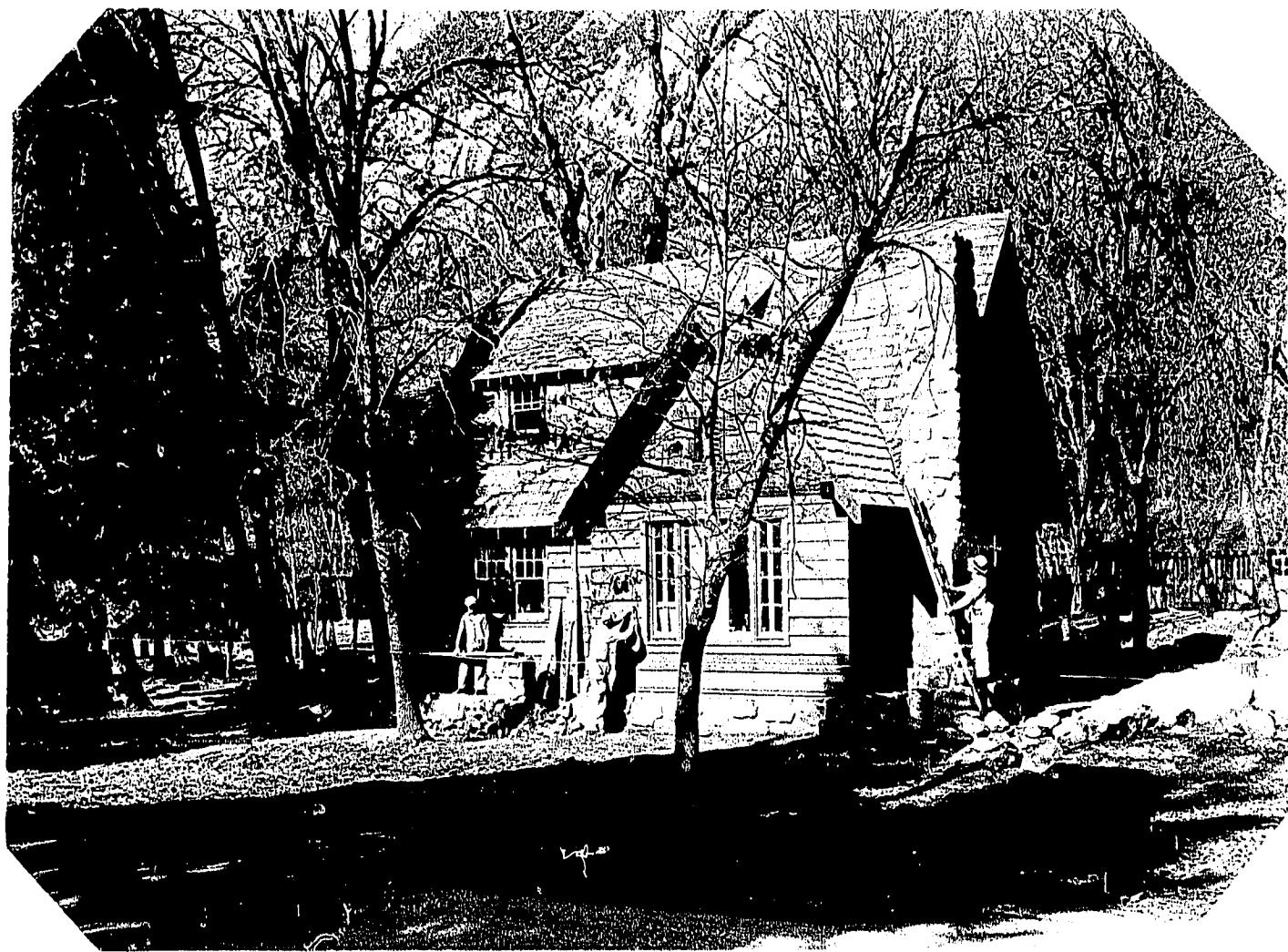
260 - Landscape Work

A large proportion of the landscape work has been accomplished by CCC boys and a separate report follows under that heading.

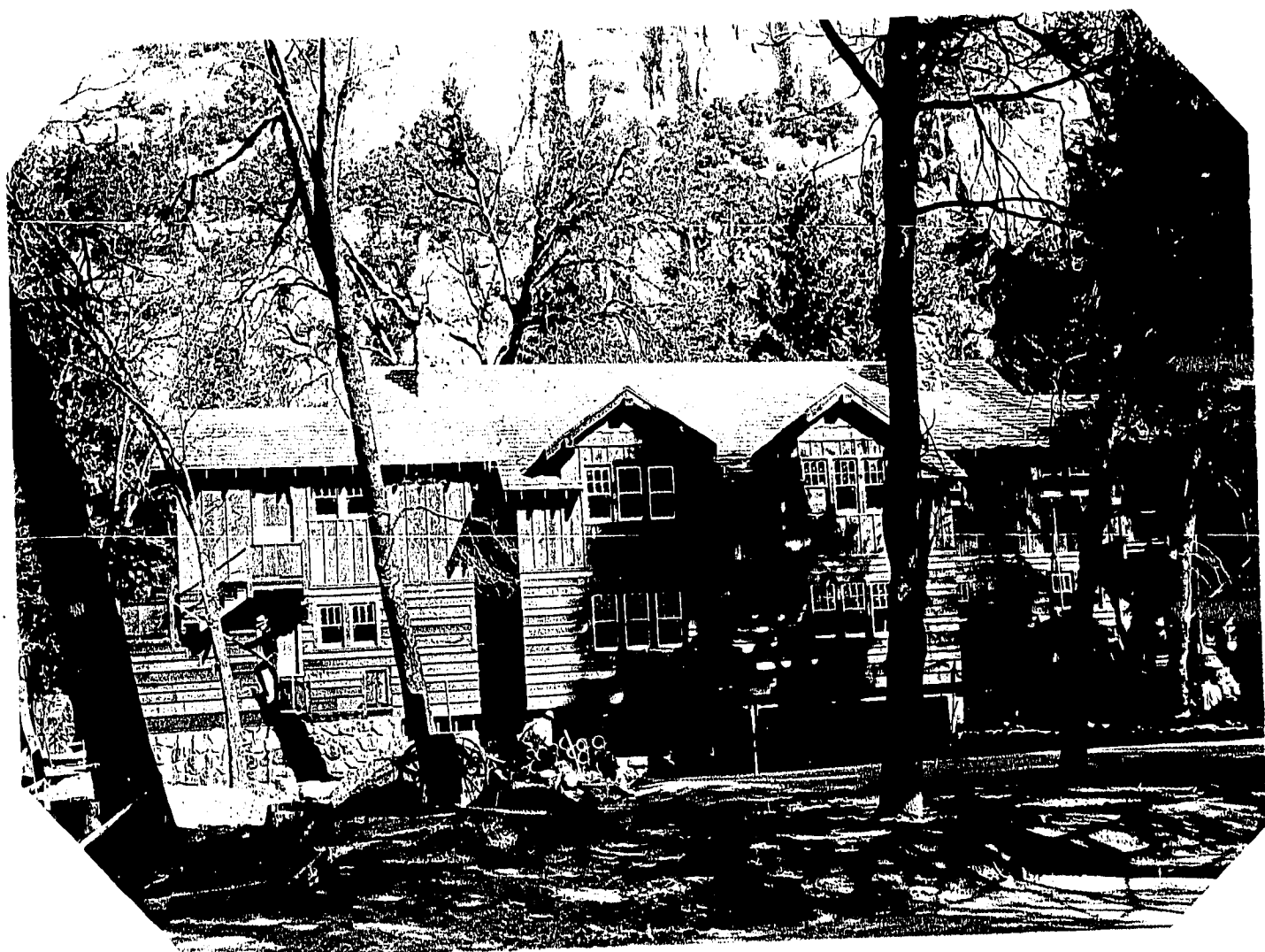
The following has been accomplished with CWA men and funds:

The old granary, formerly close to the Lost Arrow residential section has been moved approximately 50' to the East and is now located between two existing barns.

The fence around the Museum garden is being screened with small cedar trees; these trees will also screen the utility area on the north and the company residences back of Lost Arrow Studio on the East from view of the tourists.



One of New Employees Residences



NEW FOUR FAMILY APARTMENT HOUSE ** FROM REAR VIEW



HOSPITAL EMPLOYERS' DORMITORY

The area back of the Wawona Hotel has been thoroughly cleared of dead and fallen trees, snags, and other debris. This is not only of great value, so far as landscaping is concerned; but of even greater importance, this work was urgently needed as a fire prevention measure.

Erosion control work along Yosemite Creek from the Bridge to the foot of the Falls has been continued with CWA men this month. Also these men removed a large number of old stumps and dead trees from the Lost Arrow trail in this vicinity.

The site of the old Alder Creek Ranger Station has been thoroughly cleaned up, and snags along the road have been removed and cut into firewood.

CIVIL WORKS

Reorganization of the CWA on February 15 required the reduction of our quota of 250 men to 200, and an 11% per week reduction from then on until May 1 when the entire force is to be eliminated.

During the month a large amount of work has been accomplished, in addition to work mentioned previously in this report.

Miscellaneous building improvements including the placing of rock veneer about foundations of three residences, building of fireplaces for two of the new residences, and residence #18; exterior staining of residences, sanding and varnishing of floors, and miscellaneous repairs.

In the Machine Shop CWA men did general repair and maintenance work on trucks, tractors, compressors; and stationary machinery in the blacksmith shop

The warehouse was furnished help to handle freight, make deliveries and issue various items.

The drafting room was given assistance on alterations, preparation of plans, bills of materials, etc.

In connection with improvements and elimination of fire hazards, CWA men installed fixtures and appliances and put in necessary wiring.

They helped with general road maintenance, removed snow and slides, cleaned drainage ditches and did miscellaneous work on roads in the camps. Also built the service road to new four-family apartment and garage.

A great deal of necessary work is being accomplished at the Museum with CWA employees. A taxidermist is cataloging our bird and mammal collection; a botanist is revising the flower and tree rooms; a letterer-artist is repainting models, making cards and labels; two Museum helpers are cataloging all museum collections; one clerk was employed on library work February 26.

Two CWA clerks are employed.

ECW ACTIVITIES

ECW men are digging ditches, approximately 2 feet wide and $1\frac{1}{2}$ feet deep, along the main roads to prevent cars from driving into the meadows. The soil obtained from these ditches is being used in the erosion control work at Yosemite Creek. 2,519 feet of ditches have been dug this month; 4,373 feet to date.

Dense thickets of small cedars, dead poles, snags and windfalls in the area along the road from the Pohono Bridge to the sewer syphon were cleared and all dead material suitable for fire wood has been cut into stove lengths. This entire area, of nine acres, was a great fire hazard along the main highway. 87 cords of wood have been cut and delivered from the dead and fallen timber, and a large amount of debris piled and burned. The same type of work was done in the area west of El Capitan meadows, where ten old stumps and many large windfalls were removed. The area in the vicinity of the old sewer plant was also landscaped and dead timber removed.

Along the Coulterville Road ECW men are removing the dead trees in this area which was so severely swept by fire in 1930. All trees which are accessible are being cut into 12" firewood. However, due to the steep slopes, the dead trees on a large part of this area cannot be utilized but will be felled, bucked, piled and burned. 612 snags averaging 30" have been felled. 26 cords of 12 inch wood have been cut.

At the time the power line was constructed, a strip 50 feet wide was cleared and all material left on the ground. ECW men are now piling and burning all dead brush in this area from the power house to the Park line. To date 2.3 miles of line have been cleaned and 6,402 cubic yards of material piled and burned.

In the Chinquapin area, along the Park Boundary, brush was piled and burned in the 12 foot clearing made in conjunction with a recent survey in this section.

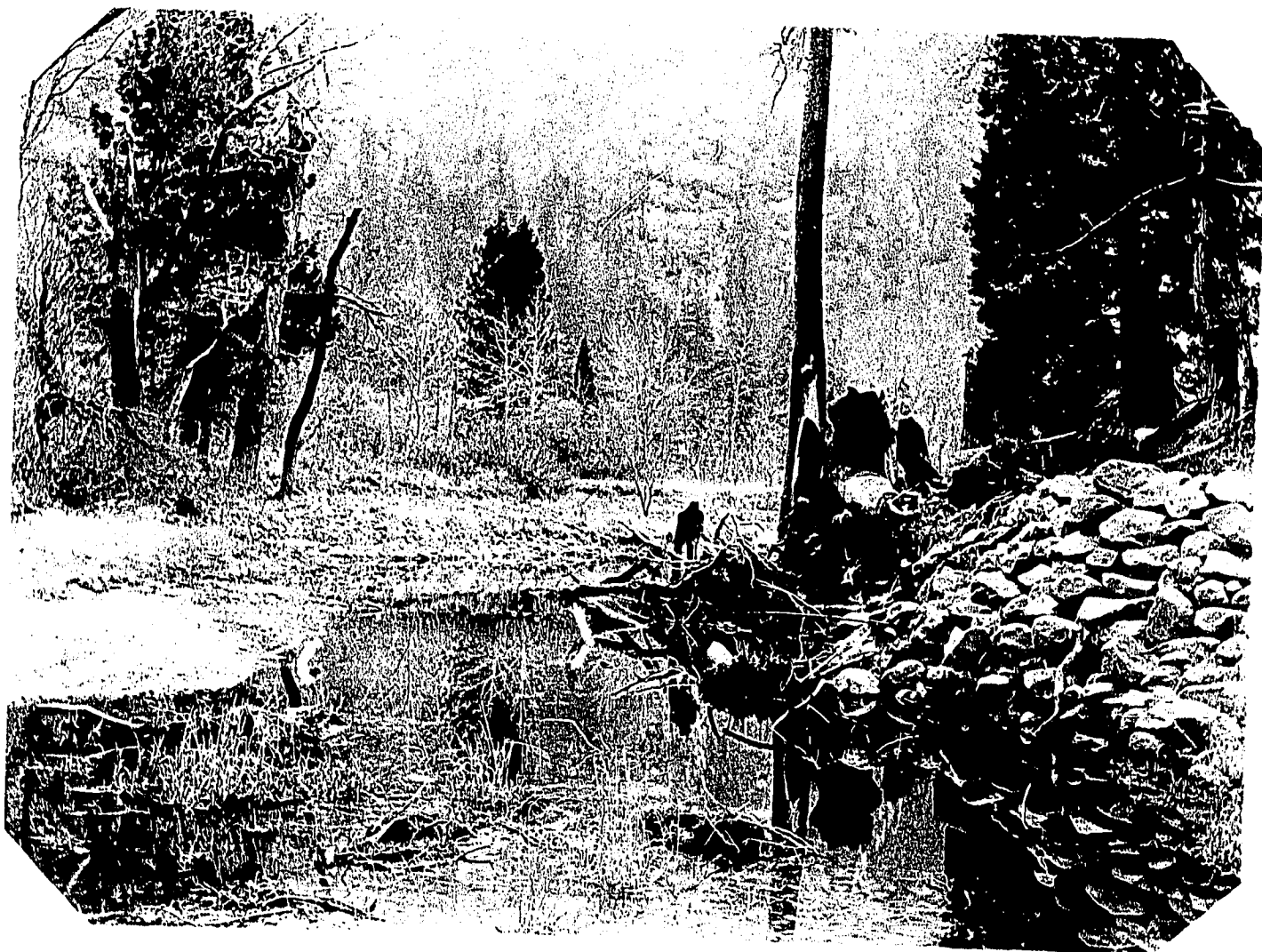
All dead trees and dangerous dead branches on green trees have been removed in camps 11 and 14, as a protection to the tourists. A good supply of wood for campers' use has been split and piled. The same type of work is now under way in camps 7 and 15. A total of 120 acres in these four camp grounds have been completed.

Cut banks and fills have been planted along the Wawona Road. This work will not only improve the appearance of the road, but will also help prevent slides.

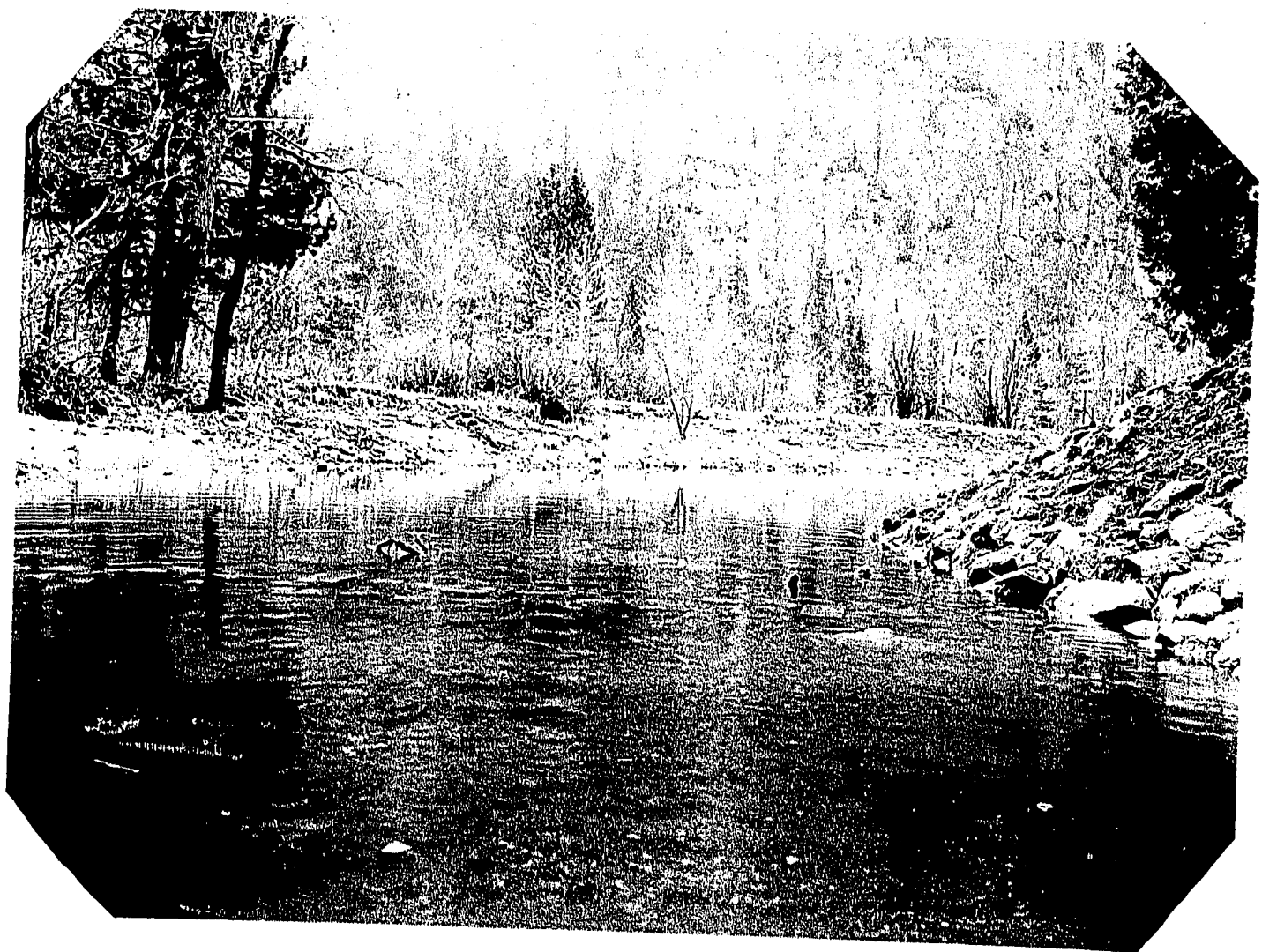
Banks along the Yosemite Creek have been resloped and lined with large rocks, and planted with willow and poplar cuttings by ECW men. A dam was constructed at the outlet of Yosemite Creek, of logs, brush, rock and coarse gravel, the object of this dam being to keep the water in the main channel during high water, thus preventing erosion by overflow.



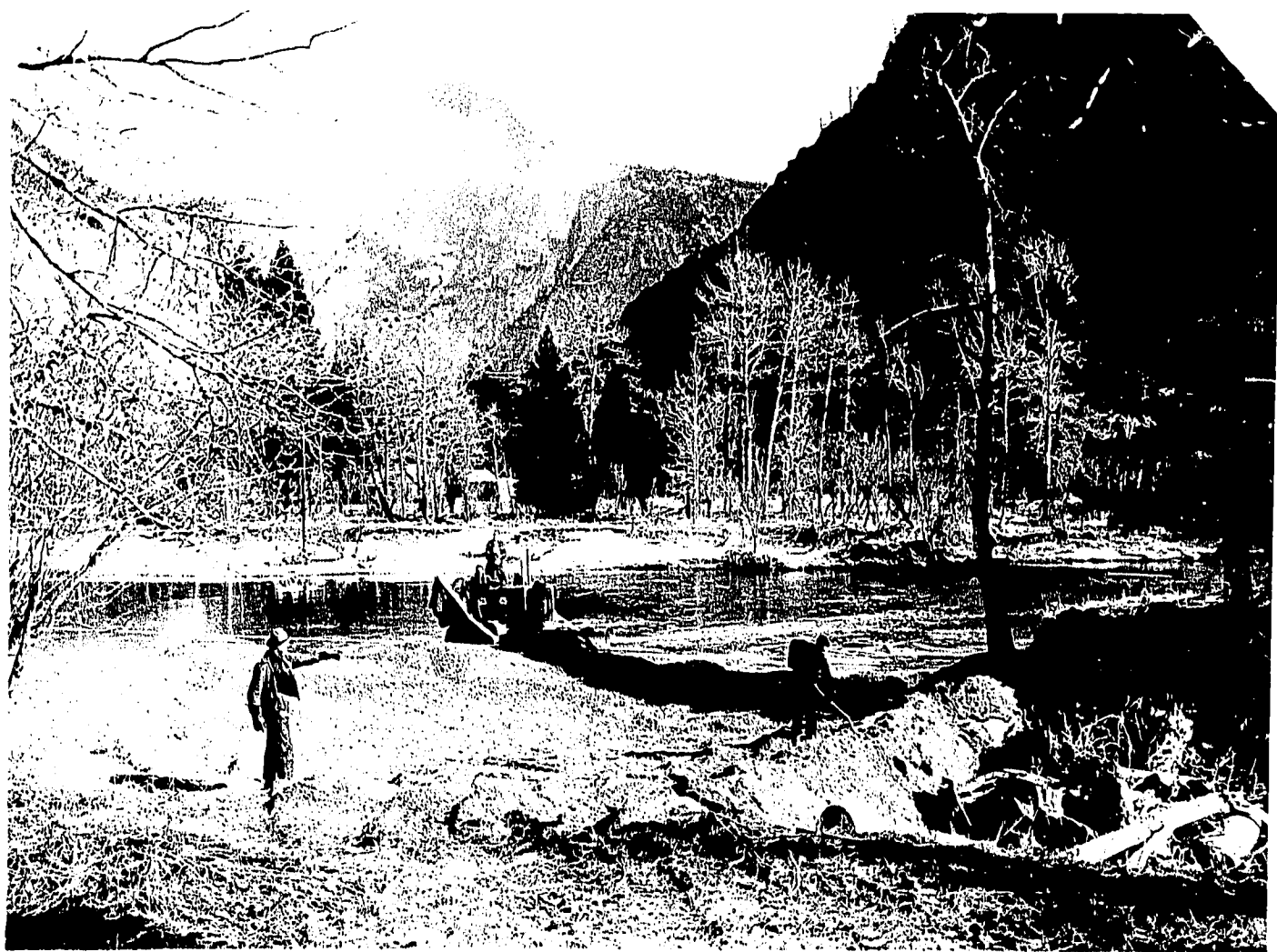
Cleaning out dead poles, snags and suppressed trees
in reduction of fire hazards along All-Year Highway.



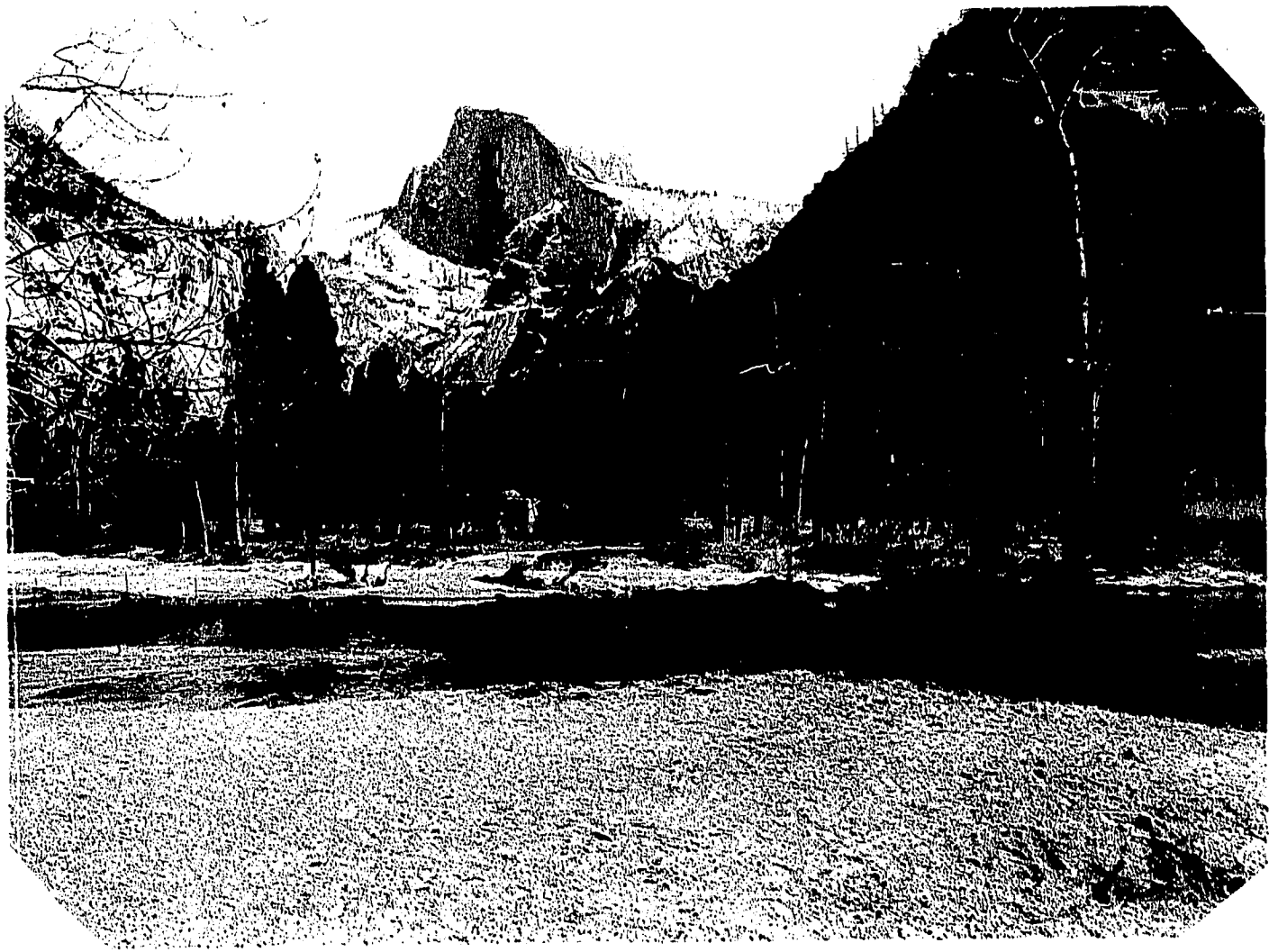
View of erosion control work along Yosemite Creek showing CCC boys removing a snag, a windfall and an old vertical rock wall. See following picture for after picture of this same area.



Same area on Yosemite Creek as shown on preceding page, after the debris had been removed and bank sloped.



CCC boys at work with a bull-dozor tractor and drag line constructing a gravel dam across overflow channel at outlet of Yosemite Creek.



Completed dam across overflow channel at outlet of Yosemite Creek. 727 cubic yards of rock and gravel and 20 cubic yards of logs and brush were used in its construction.



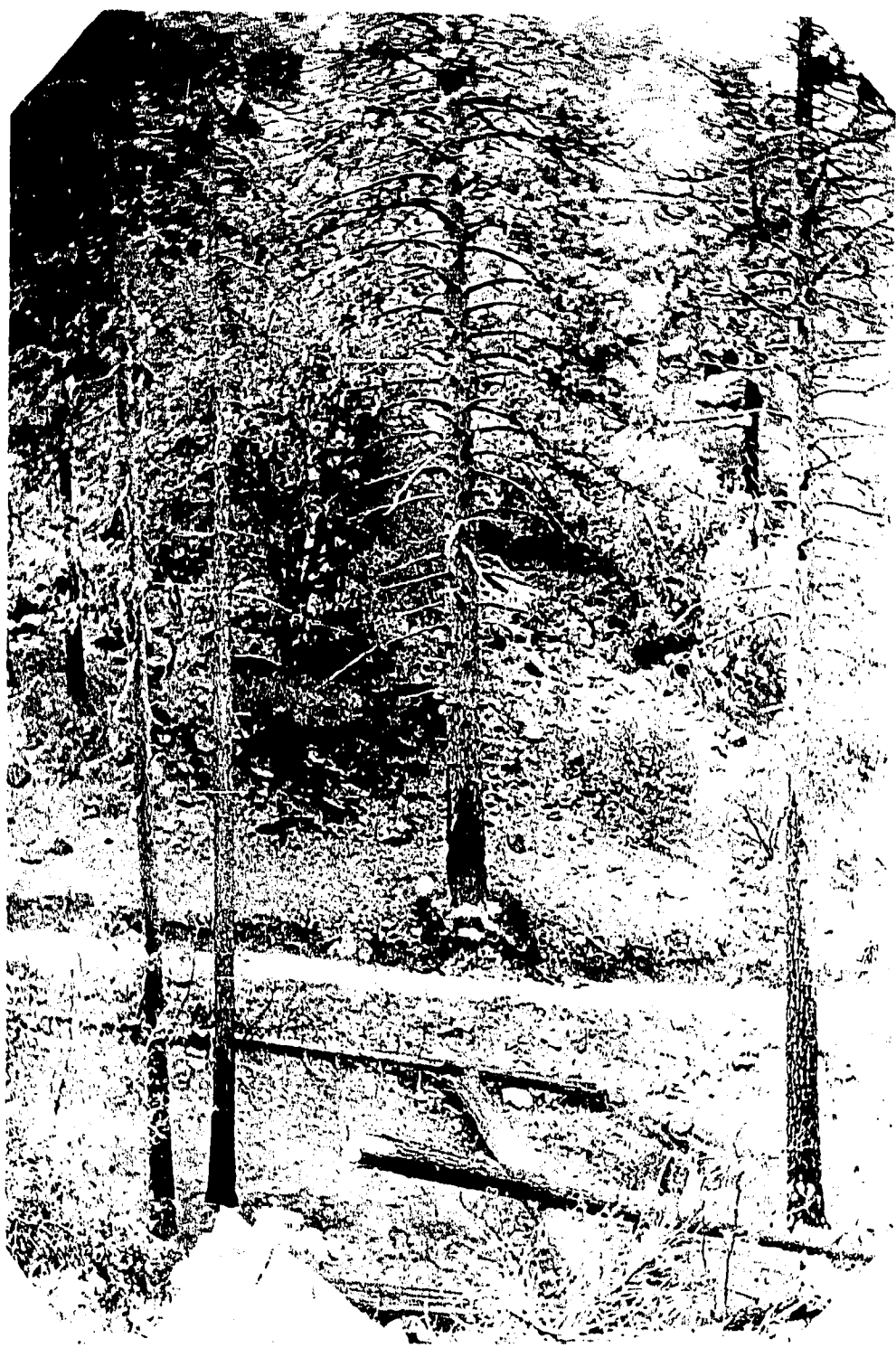
Tenaya Creek channel before gravel bars were moved to prevent further erosion along the banks. A bull-dozen tractor was used to deepen the channel and push the gravel against the banks. See following picture showing this work completed.



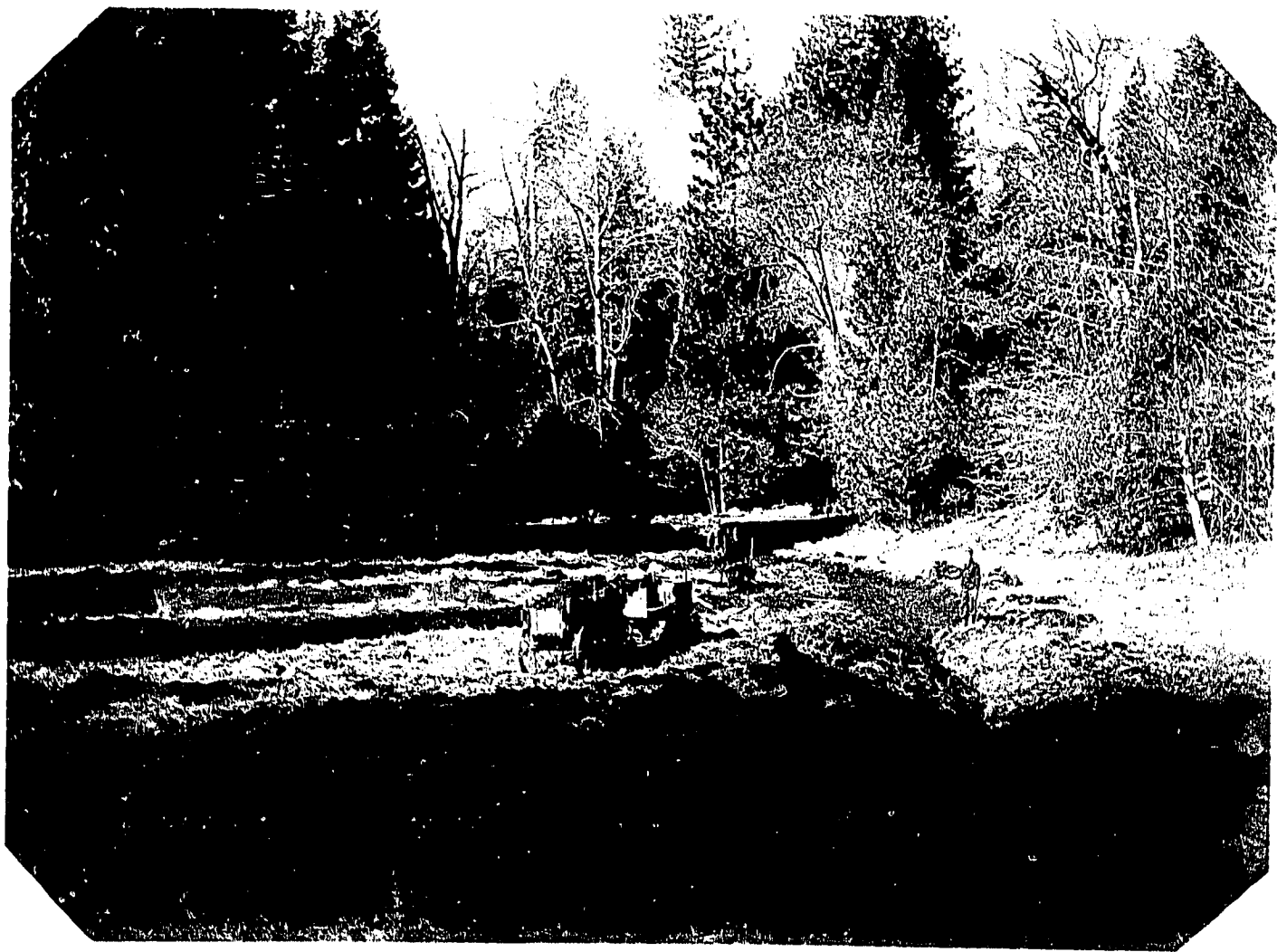
Tenaya Creek after channel improvement has been completed. Projecting gravel bars that turned the water into the creek banks have been used to protect the banks from further erosion.



CCC boys piling and burning dead material from old clearing along power line.



CCC boys falling snags along old Coulterville
Road in area swept by fire in 1930.



CCC boys at work digging and resodding drainage ditches in mosquito breeding grounds near Tenaya Bridge. The soil resulting from the ditch digging is being used in erosion control work on Yosemite Creek.

Cleanup work along the Merced River from Happy Isles to the Park boundary consisted of removing logs, trees, and debris which were causing undue washing and erosion.

A great deal of landscaping work was done by CCC men in the vicinity of Stoneman, El Capitan, Clark's, Happy Isles, Tenaya, and Kenneyville bridges. Seed of native flowers was sown near these bridges; cuttings of willows were also planted.

There was an average total of 149 enlisted men and 11 civilians working throughout the month. The average enrolled strength of the Company was 191.

300 - ACTIVITIES OF OTHER AGENCIES IN THE PARK

310 - Public Service Contractors

Messrs. Best, Boysen and Foley continued to operate their studios in the New Village throughout the month. In each case they suffered disappointing losses, however.

The Lodge and The Ahwahnee were operated by the Yosemite Park and Curry Company. The statistical report for this Company ending February 28 was not encouraging. At Yosemite Lodge where housekeeping and hotel accommodations are available there were a total of 2,375 this month as compared with 2,695 a year ago; At the Ahwahnee there were a total of 825 this month, compared with 988 a year ago. Meals served totaled 10,007 this year compared with 11,042 a year ago. A total of 1,558 guests used the Yosemite Transportation System during February 1934 compared with 808 during February 1933. This large increase is due to the fact 954 people used Company buses from Chinquapin to the snow fields at Badger Pass this year. Last year this service was not available.

The Winter Sports season was officially closed the latter part of the month due to warm weather and rains. The ice rink was shut down, and also the toboggan, and dog teams were moved from the Curry Meadow. Good skiing is still being enjoyed at Badger Pass, however.

A number of the Company employees are now busily engaged in preparations for the opening of Camp Curry and the housekeeping unit later this spring.

350 - Donations and Accessions

Mr. William Horsley presented the Park with a 400 ft. reel of 16 m.m. film of Yosemite Valley, photographed and edited by Peabody.

The Yosemite Natural History Association purchased and presented to the Museum library a copy of Leopold's "Game Management," also a set of fifteen early stereopticon views of the Valley.

Frank Schwabacher donated a series of twelve colored prints of early historical mining towns of California, to be issued one per month. We have already received (1) Sonora, (2) Sutter's Mill, (3) Downieville, and (4) Auburn.

400 - FLORA, FAUNA, AND NATURAL PHENOMENA

410 - Ranger, naturalist and guide service

Ranger Service: Visitors have been much easier handled this month, in fact throughout the winter, due to the fact we have had no large crowds at any one time and with the Wawona road open, the visitors who did come to Yosemite spread out over a larger area -- to the Big Trees, and to Badger Pass and Chinquapin for skiing, and to scenic points around the Valley. Heretofore the crowds have shown a tendency to congregate almost entirely in the Camp Curry area.

In addition to regular routine duties, it was necessary for rangers to be stationed at Wawona and Hetch Hetchy all winter and regular patrols have been made over all roads except the Tioga. The South Entrance Station was opened February 2 as there was considerable use made of this road by travelers coming in from Fresno; cars were also checked into the Big Trees.

Rangers operated Ash Can Slide up to February 24 and handled traffic and parking at Curry ice rink until February 20 when the rink was closed down due to rainy weather. Snow surveys were made throughout the high country at both the beginning and the end of the month. A ranger was stationed at the new station at Chinquapin, maintaining order there and parking cars for people visiting the ski fields. This ranger also made road patrols to the tunnel.

Naturalist Service:

Form "A" attached gives a rather complete picture of naturalist service during the month, the lectures and contacts made, etc.

Park Naturalist Harwell made an official trip to the Berkeley headquarters on February 9 to consult with Mr. Hall and his staff regarding CWA (museum) projects for Yosemite. Subjects discussed were: preparation of new lantern slides; preparation of transparencies; new relief models; plans for museum addition.

Form A

SUMMARY OF EDUCATIONAL ACTIVITIES

For month ending February 28, 19 34. Station or Park Yosemite National Park, California.

Place	Field Trips		Auto Caravans		Lectures		Museum Attendance	Total Contacts Made	Park Visitors During Period	Publications Distributed	
	No.	Attendance	No.	Cars	Attendance	No.	Attendance			No.	Sales \$
Museum							1500	1500			
Lodge						11	1135	1135			
Ahwahnee						5	74	74			
Special	1		5		60	1	60	120			
Outside						1	250	250			
Radio						2					
TOTALS	1		5		60	20	1519	3079	9655	57	18.25

Feb. 1933.

General Memoranda
28 1078 1500 2578 10316 18 8.95

Submitted

March 1,

1934.

Signed

Caroline Little
Caroline Little Park Naturalist

420 - Museum Service

The Museum and reading room were kept open daily from 8 a.m. to 5 p.m. The library was open two nights a week from 7 to 9 p.m. for the benefit of CWA and PWA men.

Exhibits: The main project undertaken this month was the revision of the Life Zone Room. On February 5 Mr. Ferdinand Bergdorff, artist from Carmel, began painting new backgrounds in six of the display cases.

440 - Insect control

With ECW men, mosquito control work has been undertaken on the floor of the Valley. Drainage ditches have been constructed in Tenaya Meadows, and slopes have been covered with sod so as to effect a natural appearance in this conspicuous area near Tenaya Bridge and close to the Happy Isles highway. The men also filled a deep hole near El Capitan. This deep hole was not only a breeding place for mosquitoes, but was situated on the outside of a dangerous curve along the main highway. 560 cu. yds. of gravel and a great quantity of old stumps and limbs were used to fill this hole.

Insect control activities in the Ponderosa and Sugar Pine along the Wawona road continued with a small crew of 15 men until the 9th of February. A total of 118 Sugar, Ponderosa and Jeffrey Pine Trees (197,230 board feet) have been treated to date.

Work in the Ackerson Meadows area was again resumed February 12, and since that date a crew of 40 high-class spotters and fallers have been employed. A total of 323 trees (945,660 board feet) have been treated. Spotting is about three days ahead of the treating crew. A total of 1,187,590 board feet - 454 trees have been spotted.

\$4,700 was expended on labor covering insect control activities during February.

Work in the Douglas Fir in Yosemite Valley will be completed within the next few days and the crew of ten men, now engaged on the work, will be transferred to Wawona to pick up the work stopped in that area earlier in the month. A total of 327 Douglas Fir trees (399,660 board feet) had been treated up to February 26. A great deal of this work has been done in steep, rocky and dangerous areas around Mirror Lake and Happy Isles.

460 - Birds

The continued warm weather has resulted in some new early records for spring arrivals. A flock of about 50 evening grosbeaks was observed at Badger Pass.

Purple Finches have been observed since February 22, and spring songs of Robins, Chickadees, Juncos, Flickers, Ouzels and Creepers have been heard during the latter part of the month. Juncos were especially numerous during the snow storm and over 80 of these birds were banded. Another early record was established when Water Ouzels were found building their nest at Valley View February 13. A nest was found nearly completed at El Portal February 13.

470 - Animals

An open, mild winter has been favorable for the deer and they are to be found in large numbers along the Wawona Road. Coyotes are numerous, but they have not killed many deer in the Park, probably due to the lack of snow. Shedding of antlers was noticeable throughout the month.

Skunks are becoming very numerous around the houses and hotels in the Valley.

One old bear, in the vicinity of El Capitan, has emerged from his winter's sleep; and during the latter half of the month a large black bear has been paying regular visits to the CCC camp at Cascades.

Fish

The Fish Hatchery has 819,000 trout fry all hatched out now - chiefly Eastern Brook, Rainbow and Loch Leven varieties.

500 - USE OF PARK FACILITIES BY THE PUBLIC

82 Shriners came in by train on February 3 and enjoyed the week end skating, skiing and indulging in other winter sports. There were about 140 in their party all of whom stayed at The Ahwahnee Hotel.

A group of 50 students from the Lemoore High School arrived February 16. Even though skating and tobogganing was impossible due to the warm weather, this group of young people had a thoroughly enjoyable time in the Park.

A party of 38 students from the Ceres High School arrived February 7. This group were able to use the Ash Can Slide and skate, and all seemed to enjoy themselves.

A party of 92 Boy Scouts arrived February 22 from Monterey and Santa Cruz Counties. These lads came in by private cars and were quartered at the Curry winter clubroom. Unfortunately a rain made their outdoor cooking most uncomfortable. Despite the discomforts the boys seemed to enjoy their trip.

510 - Loss in Travel

Rainy weather and lack of snow in the Valley caused a loss of 6.4% in travel for February. Stage travel improved over last year, while rail travel decreased.

A total of 9,655 visitors entered in 3,059 private cars. Practically all of this travel arrived via the Arch Rock entrance. 199 people (72 cars) arrived via the South Entrance.

The peak day of travel was Sunday, February 11, when 1,102 visitors in 326 cars came in to enjoy the winter sports. During the month 954 people used the Company stages to reach the excellent ski fields at Badger Pass, about three miles above Chinquapin.

Total visitors for the travel year — 52,381, a gain of 15.9%.

It is interesting to note that we have sold 6,012 permits this travel year, a gain of 10% over last year.

530 - Visitors

On February 3 Mr. and Mrs. Earl Count were Park visitors. Mr. Count has served as Ranger-Naturalist at Crater Lake National Park during the past several years.

Andrew Stahl, National Reemployment Manager of Sonora was in the Park February 4.

Oliver Kehrlein, Bestor Robinson, Lewis Clark, and George Radcliffe, members of the Sierra Club, came to the Valley on February 22 and immediately left for their planned ascent of the Lyell Glacier. This party returned on the 26th, and although they were able to get part way up the glacier, they were forced to turn back because of a severe blizzard.

Public Camps - 540

Camping was allowed all month in the winter picnic ground. On each week end there were a few overnight campers, and probably a hundred or more people used this area for picnicking over week ends. A fine supply of wood is now piled in all the public campgrounds for use of the campers.

600 - PROTECTION

610 - Police Protection

No arrests were made, and no disturbances reported during the month. Minor traffic violations were handled administratively. Day and night patrols were made of all Valley roads, hotels, and camps.

620 - Fire Protection

There were no fires during the month.

630 - Accidents

Miss Virginia Oliver, daughter of the U. S. Commissioner, suffered considerable pain when she tore the ligaments of her leg while skiing. She will be confined to her bed for several weeks.

650 - Signs

Signs removed from the Valley floor roads during the winter months are now being replaced. Signs for the Mariposa Grove were brought to the Valley and are being reconditioned.

660 - Sanitation

The usual routine work was carried on. Variance in count on milk samples required additional checking. All water analyses were satisfactory. CWA men are assisting in garbage collection, cleanup and general maintenance.

900 - MISCELLANEOUS

Regular services at the little Village Chapel, both Protestant and Catholic, were held each Sunday.

Dr. Hartley G. Dewey, operating the Lewis Memorial Hospital reports a total of 405 office calls during February; 22 house calls; 20 hospital cases. There were a total of 131 hospital days. One major operation and 5 minor operations were performed.

Otto Butzke, foreman in charge of government building construction passed away suddenly after a paralytic stroke February 17. His death was a great shock to the Park personnel. Since 1929 Mr. Butzke has been foreman in charge of all new buildings under construction.

The winter sports season was officially closed on February 25, although it was difficult to keep the various units in operation for a considerable time before that date due to the unseasonably warm weather.

During a winter of scant snowfall such as we have just experienced, many visitors are keenly disappointed, and undoubtedly many who had planned a trip to the Park did not come. Without doubt the future snow sports area will be along the Wawona and Glacier Point roads when road paving is completed to Bridalveil Meadows. At this elevation snow sports can be depended upon, which is not possible at the 4000' elevation in Yosemite Valley.

Very respectfully,

Superintendent

HB

10-157
(July, 1929)

DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

Office of National Parks,
Buildings and Reservations.

TRAVEL REPORT

Yosemite National Park for the Month of February, 1934

	This Month	This Travel Year To Date	This Month Last Year	Last Travel Year To Date	Increase for Travel Year Since Oct. 1, 1933.	
					Number	Percent

PRIVATE TRANSPORTATION:

Cars first entry,	1488	6103	1726	5676	427	7.52%
Cars reentry,	1567	12921	1305	11055	1866	16.8%
Motorcycles,	4	20	1	15	5	33.3%
Total motor vehicles,	3059	19044	3032	16746	2298	13.7%
Persons entering via motor vehicles,	9394	51342	9929	44051	7291	16.5%
Persons entering via other private transportation,	0	48	0	28	20	71.4%
Total persons entering via private transportation,	9394	51390	9929	44079	7311	16.5%

OTHER TRANSPORTATION:

Persons entering via stages, .	158	783	104	708	75	10.6%
Persons entering via trains, .	103	208	283	381	-173	-45.4%
Persons entering otherwise, . .						
Total other transportation, .	261	991	387	1089	-98	-8.9%
GRAND TOTAL ALL VISITORS, . . .	9655	52381	10316	45168	7213	15.9 %

Note: All intrapark travel is not included in above figures.

In addition to the above travel, 1,360 people
entered the Mariposa Grove of Big Trees in Feb.

This Year	Last Year	Increase	
		Number	Percent

Automobiles in public camps during month,
Campers in public camps during month,

STATUS OF AUTHORIZED PROJECTS

YOSEMITE NATIONAL PARK FOR THE MONTH OF FEB. 1934

Description of Projects	Percent	Percent	Percent	Probable
	Constructed To Date	Constructed This Month	Constructed Last Month	Date of Completion
F.P. <u>PHYSICAL IMPROVEMENTS</u>				
" 54 Apartment Bldg. - 4 Family	63	18	32	April, 1934
" 55 Hospital Employees' Dorm (Request for additional funds)	91	1	14	" "
" 57 Barn Alteration, Glacier Pt.	0	0	0	
" 58 Camp Ground Development	51	1	12	June, 1934
" 59 Sewer System Ext. & Imp.	0	0	0	" "
" 61 Electric System Ext. & Imp.	15	1	10	Dec., 1934
" 62 Telephone System Ext. & Imp.	56	6	12	Aug., 1934
" 63 Water Ext. to New Valley Bldgs.	81	9	20	April, 1934
" 64 Chlorine Unit for Sewer	0	0	0	March, 1934
" 65 Three Employees' Residences	68	24	20	April, 1934
" 66 Equipment Storage Shed, Wawona	0	0	0	July, 1934
" 67 Garage, 8 Stall	100	0	0	--
" 68 Comfort Station, Chinquapin	100	0	0	--
" 69 Heating Plant, Ranger's Club	100	0	0	--
" 70 Merced Lake Cabin Addition	0	0	0	July, 1934
" 71 Ranger Station Chinquapin	100	0	0	--
" 72 Water Sewer Ext.(Chinq.-Mather)	100	0	0	--
" 73 Water System, Wawona	100	0	0	--
" 74 Three Cabins, Indian Village	100	0	0	--
" 75 Comfort Station, Hetch Hetchy	25	0	2	May, 1934
" 76 Sewer System, Hetch Hetchy	85	0	0	" "
" 77 Sewer System, Wawona	100	0	10	--
" 78 Employees' Residence, Wawona	0	0	0	July, 1934
" 285 Bunkhouse, Tuolumne Meadows	0	0	0	Oct., 1934
" 286 Messhall, Kitchen, Tuolumne Meads.	0	0	0	" "
" 287 Comfort Stations, 4	0	0	0	" "
" 288 Sewer Ext. & Imp., Arch Rock	100	25	25	--
" 289 Water System, Soda Springs	0	0	0	Aug. 1934
" 290 Sewer Ext. to New Valley Bldg.	26	3	7	April, 1934
" 291 Campground Water Hydrants	100	0	35	--
" 292 Rest Rooms, 4-Mile Ranger Sta.	0	0	0	July, 1934
" 293 Comfort Station, Vernal Falls Bdg.	5	5	0	May, 1934
" 294 Penstock Betterments (Request for additional funds)	75	4	19	April, 1934
" 295 Ranger Station, Merced Grove	0	0	0	Aug. 1934
" 296 Painting Rest Rooms, Valley Floor	100	30	40	--
" 297 Incinerator, Wawona	88	50	24	April, 1934
" 298 Misc. Bldg. Improvements	95	0	13	" "
" 299 Comfort Station, Glacier Pt.	0	0	0	Sept. 1934
" 300 Gla. Pt. Water System Ext. & Imp.	100	0	0	--
" 301 Ranger Sta.Dorm.Checking Kiosk,4Mile0		0	0	Aug. 1934

STATUS OF AUTHORIZED PROJECTS

YOSEMITE NATIONAL PARK FOR THE MONTH OF FEB. 1934

Description of Projects		Percent Constructed To Date	Percent Constructed This Month	Percent Constructed Last Month	Probable Date of Completion
F.P.	<u>PHYSICAL IMPROVEMENTS CON'T</u>				
302	Tuol. Mdw. Campground Devel.	65	0	0	Aug. 1934
303	Group Utility Bldg.	0	0	0	Oct. 1934
304	Fire Guard Cabin & Barn, Miguel Mew.	0	0	0	July, 1934
305	Bldg. Recond. for Elim. Fire Hazards	35	10	16	June, 1934
470	Insect Control	45	10	5	April, 1934
61A	Minor Ext. Wawona Water System	6	6	0	" "
	<u>MINOR ROADS AND TRAILS</u>				
65.8	Mariposa Grove Bridle Paths	100	0	0	--
66.8	Bridle Path Const. El Cap. Bridge	100	0	0	--
69.8	Daylighting, etc. Dangerous Curve	52	17	7	May, 1934
72.8	Reconst. & Oil 5 M. Gla. Pt. Trail	65	0	0	July, 1934
71.8	Oil 4.4 Mile Merced Lake Trail	100	0	0	--
238.8	Mariposa Grove Rd. & Minor Imp.	58	1	0	July, 1934
235.8	Bridle and Footpath Imp. - Valley	34	4	2	" "
236.8	Minor Rd. Imp. Tuolumne Mdws.	0	0	0	Sept. 1934
237.8	Trail Connection, Sentinel Dome	25	0	0	July, 1934
246.8	Fire Trails	0	0	0	Oct. 1934
67.8	Minor Road Imp. & Oiling	0	0	0	Aug. 1934

10-159
(May, 1931)

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

STATUS OF PERSONNEL

Yosemite National Park for the Month of February 1934

	This Month		This Month Last Year	
	Appointed	Non-Appointed	Appointed	Non-Appointed
Number of employees beginning of month	81	24	77	70
Number of additions.....	0	10	1	25
Total.....	81	34	78	95
Number of separations.....	0	5	0	31
Number of employees close of month.....	81	29	78	64
Number of promotions during month.....	0	0	0	0
Aggregate amount of annual leave taken	54 $\frac{1}{2}$	0	0	0
Aggregate amount of sick leave taken....	20	0	47	0
Aggregate amount of leave without pay..	28	0	Leg.Furl. 50 $\frac{1}{2}$	0

10-215
(July, 1928)

UNITED STATES
DEPARTMENT OF THE INTERIOR
National Park Service

33642

Yosemite National Park

REPORT OF NON-APPOINTED PERSONNEL
(TEMPORARY)

Changes outside the District of Columbia for the month of February 19234

Total at beginning of month	Additions	Separations	Net Gain or loss (a)	Total at ending of month
<u>Civil service</u> 81	0	0	0	81
<u>Per Diems</u> 24	10	5	5	29
<u>Totals</u> 105	10	5	5	110

(a) If loss, indicate by minus sign.

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

REPORT OF SALES OF PUBLICATIONS

February 1934

	Number	Value
<u>GOVERNMENT PUBLICATIONS:</u>		
On hand beginning of month	1154	
Received during month	2296	
Total	3450	
Sold during month.	42	
On hand at close of month	3408	
<u>NON-GOVERNMENT PUBLICATIONS:</u>		
On hand beginning of month		
Received during month.		
Total		
Sold during month.		
On hand at close of month		
Cash on hand beginning of month.		\$4.39
Sales during month		7.28
Total		11.67
Remitted during month.		4.39
Balance		7.28

10-160

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

REPORT OF PARK REVENUES

Yosemite National Park for the Month of February, 1934

	This Year	Last Year
Park revenue on hand beginning of month,	1,665.32	
Received,	9,020.36	
Total,	10,685.68	
Remitted,	4,296.13	
On hand close of month,	6,389.55	

Park revenues received this year to date, 135,675.66

Park revenues received last year to date, 395,568.12

^{D.}
~~De~~crease, 259,892.46

^{D.}
Per cent of ~~De~~crease, 65.7%

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

REPORT OF TELEPHONE AND TELEGRAPH BUSINESS

Yosemite National Park for the Month of **February, 1934**

	This Month	This Month Last Year	Increase	Percent Increase
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LOCAL BUSINESS

Miles of circuit maintained,	161	141	+ 20	+ 14
No. of telephones connected,	333	424	- 91	- 21
No. of measured service calls,	120	147	- 27	- 18
No. of other local calls,	23,488	29,337	-5849	- 20
Total No. of local calls,	23,608	29,484	-5876	- 20
Peak load in calls per day,	961	1,356	- 395	- 29

Receipts from measured service calls, . . .	18.75	14.55	+ 4.20	+ 29
" " coin boxes,	out	out	0	0
" " telephone rental,	117.00	0	+117.00	+ 100
TOTAL RECEIPTS	135.75	14.55	+121.20	+ 83.2

LONG DISTANCE BUSINESS

No. of NPS calls without .28 toll charge	25	--	--	--
No. Outbound calls,	375	353	+ 22	+ 6
No. Inbound calls,	373	276	+ 97	+ 35
TOTAL LONG DISTANCE CALLS	773	629	+ 144	+ 23

Peak load in calls per day,	33	41	- 8	- 19
Receipts from Long Distance business, . .	209.44	164.92	+44.52	+ 27

TELEGRAPH BUSINESS

Messages via Western Union,				
Messages via P.T. & T. Co.	31	22	+ 9	+ 41
TOTAL MESSAGES				

Receipts from telegraph business,	8.23	3.28	+4.95	+150
No. of money transfer messages,				
" " " " receipts,				

TOTAL RECEIPTS TELEPHONE & TELEGRAPH DEPTS.	\$353.42	\$182.75	+170.67	+ 93
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UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

*ELECTRICITY GENERATED, SOLD, USED, ETC.

Yosemite National Park for the Month of February, 1934.....

	This Month	This Travel Year To Date	This Month Last Year	Last Travel Year To Date	Increase for Travel Year	
					Number	Percent
Current generated,	736,510	3325740	438,420	3,080,680	+245,060	+ 8
Sold to park operators, . . .	259,331	1074815	10,856	1,080,161	- 5,346	- 1
Sold to others,	7,500	188509	0	68,980	+119,529	+173
Furnished to other Governmental agencies,	0	0	0	0	0	0
Used by National Park Service, lost in transit, etc., . . .	469,679	2062416	427,564	1,931,539	+130,877	+ 7
Total current generated, . .	<u>736,510</u>	<u>3325740</u>	<u>438,420</u>	<u>3,080,680</u>	<u>+245,060</u>	<u>+ 8</u>

Amount receivable from the sale of electricity, in valley . 1934 \$ 3,560.30
1933 \$ 626.11

* Indicated by K. W. H.

Purchased from S.J.L. & P. Corp - 24,000 K.W.H.	-	732.50
Sold to S.J.L. & P. Corp - 7,500 K.W.H.	-	11.25

U. S. Department of Agriculture, Weather Bureau

MONTHLY SUMMARY.

TEMPERATURE.

COOPERATIVE OBSERVERS' METEOROLOGICAL RECORD:

Month of FEBRUARY, 1934; Station, Los Gatos; County, Mariposa

FEB 1934

Hour of Observation, 11 PMState, Calif; Latitude, 37; Longitude, 119; Time used on this form, Page

DATE.	TEMPERATURE.				PRECIPITATION.				PREVA- LING WIND DIRECTION.	CHARACTER OF DAY (NO SUNSET).	† MISCELLANEOUS PHENOMENA.
	MAX. MOR.	MIN. MOR.	RANGE.	* SET MAX.	TIME OF BEGINNING.	TIME OF ENDING.	AMOUNT.	SNOWFALL, IN INCHES.	DEPTH OF SNOW ON GROUND AT OBSERVATION.		
1	43	36								Clear	
2	45	38								PC	
3	60	30								Cloudy	
4	66	37								PC	
5	61	33								Cloudy	
6	55	28					2.9			Cloudy	
7	58	32								PC	
8	52	29					8.0			Clear	
9	54	27								Clear	
10	55	26								"	
11	41	24								"	
12	40	25								"	
13	62	31								PC	
14	61	25					4.5			Cloudy	
15	44	26					1.05	1 1/2	Tr	Cloudy	
16	50	32								Cloudy	
17	57	29								PC	
18	59	40								Cloudy	
19	43	35					6.1		0	Cloudy	
20	38	31					2.5		0	Cloudy	
21	35	33								PC	
22	62	33					1.3	4 1/2	5 1/2	Cloudy	
23	47	32								Clear	
24	51	28								PC	
25	52	30					1.56			Clear	
26	54	22					1.22			Clear	
27	57	24								Clear	
28	62	30								Clear	
29											
30											
31											
SUM	571	333					6.06	6"			
MEAN											

* Reading of maximum thermometer immediately after setting.

† Readings in ball sheet, and melted snow.

(IN TRIPLICATE.)

See cover for instructions.

J. S. Downesley

Cooperative Observer.

Post-Office Address, Los GatosOFFICE OF CHIEF RANGER
YOSEMITE NATIONAL PARK, CAL.Mean maximum, 56.10Mean minimum, 31.84Mean, 43.97Maximum, 66; date, 4thMinimum, 23; date, 10Greatest daily range, 36

PRECIPITATION.

Total, 6.06 inches.Greatest in 24 hours, 16.9; date, 23

SNOW.

Total snowfall, 6 inches; on ground 15th, Tr inches;at end of month, patches inches.

NUMBER OF DAYS—

With .01 inch or more precipitation, 10Clear, 12; partly cloudy, 8; cloudy, 7

DATES OF—

Killing frost, _____

Thunderstorms, _____

Light, _____

Hail Moderate, _____

Heavy, _____

Sleet, _____

Auroras, _____

REMARKS:

From Yosemite News Bureau - Feb. 18, 1934

Release on receipt

TO SCALE HIGH PEAKS IN WINTER

The first winter ascent of Mt. Lyell, highest peak (13,096 ft.) in Yosemite National Park, will be undertaken by four members of the Sierra Club on February 22-24. Led by Bestor Robinson of Oakland, the party will include Lewis F. Clark, Alameda, Oliver Kehrlein, San Francisco, and Robert Ratcliffe, Berkeley.

The object of the expedition is to find the shortest and best route for the winter ascent of Lyell and to study winter conditions on the Lyell and McClure glaciers, where they will measure snow depths and attempt to estimate the amount of snow that drifts from adjoining ridges onto the glaciers. If time allows, a survey of the ski fields in the Tuolumne area will be included. Robinson, who was in this region last New Year, estimates that there is an unbroken ski run of ^{3,500}~~3,400~~ feet from the upper edge of Lyell Glacier to the canyon below.

at 8 o'clock the morning of Feb. 22
Leaving Yosemite Valley, the party will travel on skis for a distance of approximately twenty five miles to the crest of the Sierra. A broken down cliff of the Cathedral Range has been chosen as the most likely place for a successful crossing of the ridge and here skis will be temporarily discarded for crampons, as the going is precipitous. After exploring the Lyell and McClure Glaciers, the ascent of Lyell will be attempted with the use of ice axes, ropes and crampons.

The party will camp out at altitudes of from eight to twelve thousand feet. They will pack their supplies, bedding and a light Arctic tent and, for use in emergency above timberline or in the event of storms, a primus stove.

Robinson and Kehrlein completed the ascent of Mt. Shasta last winter and Kehrlein has made the winter ascent of Lassen. In company with Clark, they climbed Devil's Peak in the Northern Sierras a couple of weekends ago.

U. S. DEPARTMENT OF THE INTERIOR
OFFICE OF NATIONAL PARKS, BUILDINGS, AND RESERVATIONS
YOSEMITE NATIONAL PARK, CALIFORNIA
C. G. THOMSON, SUPERINTENDENT

Yosemite, Feb. _____. A transformation is under way in the Life Zone room of the Yosemite Museum. Ferdinand Burgdorff, artist from Pebble Beach, now employed by the CWA, is painting suitable backgrounds for the instruction and pleasure of thousands who visit the Park Museum each year.

For each of the separate exhibit cases representing the five Life Zones of Yosemite National Park, a background showing typical landmarks of that zone is being painted by this nationally known artist. The Upper Sonoran Zone will show that country in the Merced Canyon near El Portal; the Transition Zone will carry a spectacular view of Half Dome in Yosemite Valley; the Canadian Zone will depict the unrivalled view from Glacier Point; the Hudsonian Zone, a view at Tuolumne Meadows, with Cathedral Peak rising high on the skyline; and the Arctic Alpine Zone, will take the visitor into the higher places above timber line, with a view of Lyell Glacier and high Sierra peaks.

Mr. Burgdorff is as enthused over the project as Park officials are to have the work done. "True art is purely utilitarian," he says; "if a thing hasn't any good use, why do it?" In the creation of magnificent backgrounds for these exhibits, Mr. Burgdorff is doing the greatest possible service with his art.

Yosemite, Feb. _____. The CCC boys do more than cut hundreds of snags into firewood, clear the streams of tons of debris, and improve the forests of Yosemite generally. A group of nine enterprising boys have enrolled in the evening class in auto mechanics, one of the practical "night school" courses, and are doing a lot of actual work in overhauling trucks and machinery.

The schedule at first called for only one session per week, but the boys wanted more. Now they make the five-mile trip from camp to machine shop two nights per week and like it! Al. Kottbauer, master mechanic, says: "First I told them all about an automobile engine, then turned them loose to tear one down themselves." Now they hone cylinders, grind valves, and make adjustments; in fact, they carry on the regular work of the garage during class periods."

Several of these embryo mechanics admit that their parents are handicapped in running their ranches and farms without a knowledge of mechanics, so they realize the need for this training in the every-day work at homes to which they expect to return when demobilized.

Yosemite, Feb. _____. From a moonshine still to a Government machine shop seems a strange journey, but such is the case of an electric motor now used by the CWA to grind axes in Yosemite. The motor is one of dozens confiscated by prohibition officers and turned over to National Parks for useful service.

The inexperienced CWA axe grinders found difficulty avoiding belts and other dangers of the old emery wheel, so the newly acquired electric motor was fitted with a longer shaft, with emery wheel at one end and wire brush at the other, and installed, to solve the problem at no actual cost other than labor.

An additional safeguard to CWA workmen was provided in a hinged transparent lid to hang down over the wheel in such a way as to catch the millions of dangerous sparks.

Yosemite, Feb. _____! Action! Action! is the keynote in the CCC camp in Yosemite, as evidenced in the boys' choice of studies sponsored by an educational program. Few registered for purely academic subjects, but many literally flocked into the night classes in Forestry, Auto Mechanics, Electrical Engineering, and Photography.

Of particular interest to the Park is the boys' zeal for forestry, showing conclusively that the work they are doing stimulates their interest to know more about the subject. Not only do the boys work hard all day cleaning up the forest and carrying on selective thinnings, but one night each week they gather around Camp Superintendent Maurice Thede, a trained forester, for useful instruction.

Field trips are conducted in Forestry and Photography, and great progress is reported by the instructors. Some of the finest photographs of the extensive work being carried on in Yosemite under CWA, PWA, and CCC programs have been taken by one of the CCC boys.

MONTHLY BULLETIN

March, 1934

FROM

YOSEMITE NATIONAL PARK

CALIFORNIA
WORLD-FAMOUS
ALL-YEAR SCENIC
PLAYGROUND

ISSUED EVERY MONTH BY YOSEMITE TRANSPORTATION SYSTEM TO HELP YOU KEEP YOUR FILES UP TO DATE

California has Redwoods **AND** Big Trees!

Of the 35 species of Sequoias that once were distributed over the northern hemisphere, only two remain. Both are in California.

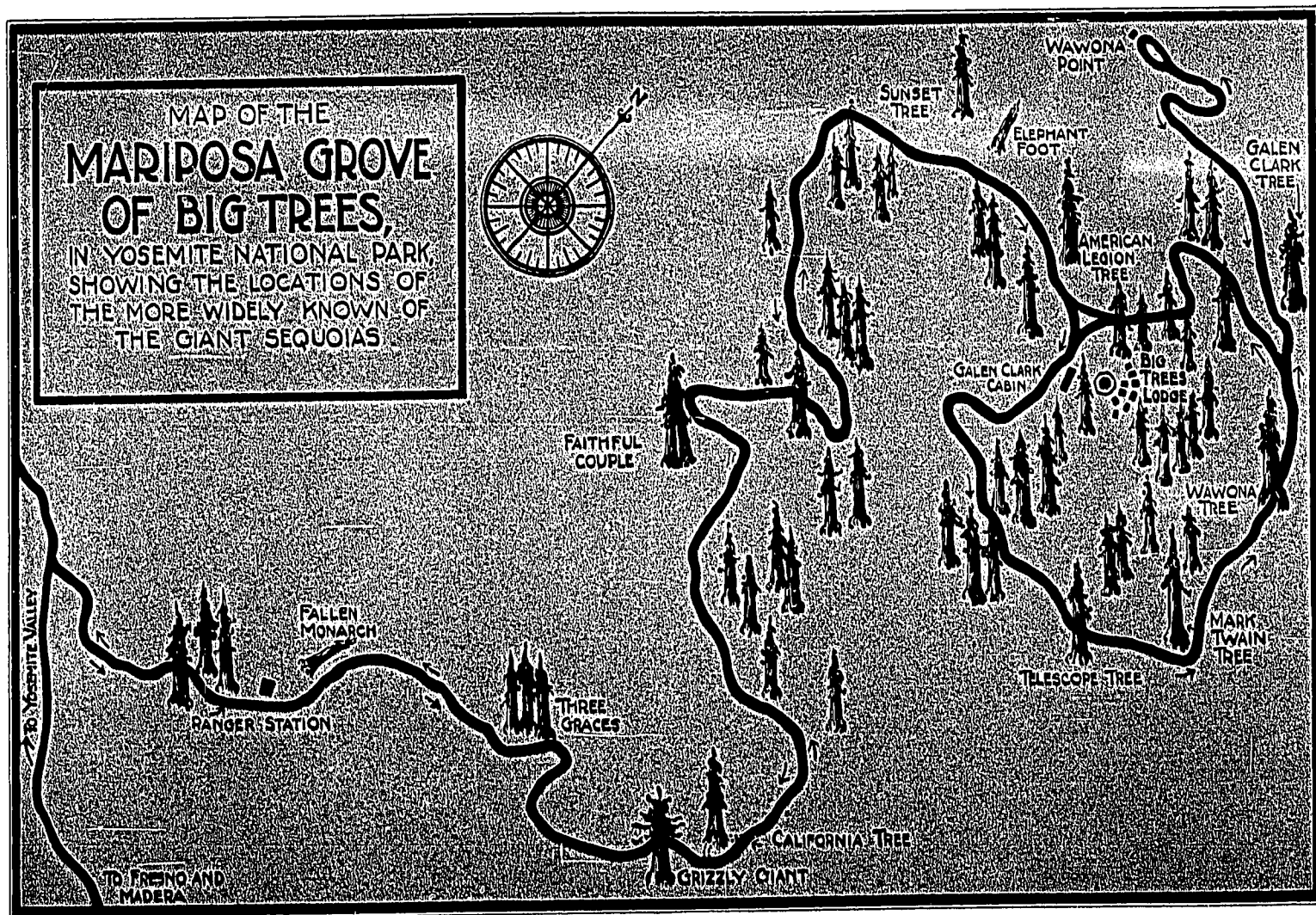
It is natural, perhaps, that California's two species of Sequoias should confuse many persons and cause them to refer to both, carelessly and indiscriminately, as "Redwoods." The two species are so distinctly different in size, appearance, location and age (not to mention such differences as methods of propagation, etc.) that Californians popularly call them "Redwoods" and "Big Trees," to avoid ambiguity. Let us consider the chief differences, as noted by tourists, between Redwoods (*Sequoia sempervirens*) and Big Trees (*Sequoia gigantea*):

Some individual Redwoods are taller than any Big Trees but the average height of Redwoods is about 50 feet less than the average of the Big Trees.

The largest Redwood is 16 feet in diameter. Several Big Trees are twice as large. Among the approximately 600 Big Trees in the Mariposa Grove in Yosemite there are a dozen or more close to 30 feet in diameter. Ninety-five feet from the ground, the Grizzly Giant has a limb 6 feet thick. The highway tunnel that was cut through the Wawona Tree in 1881 is **nine feet** wide—larger than is necessary for the largest Y. T. S. motor coach to drive through.

Redwoods grow in compact groves and in dense shrubbery and ferns. They grow by root-sprouting as well as from seed. Their foliage is interlaced. Big Trees grow on clear ground and each tree is separated so that the huge bulk of the trunk, and the magnificent crest of foliage, make distinct impressions.

Redwoods represent grace and beauty. Big Trees represent ruggedness, majesty and antiquity.



[OVER]

The great age of the Big Trees inspires the visitors probably more than their tremendous girth. Humanly speaking, the Big Tree is everlasting—the nearest thing in the animal and vegetable kingdom to life eternal. (The age limit is unknown since there is no record of any Big Tree dying of old age.) A living link with eternity, the Grizzly Giant in Yosemite National Park is conservatively estimated to be 4,000 years old, in which case it was a sapling in the year 2,000 B.C. Naturalists and botanists do not agree on the antiquity of the Big Trees. Some authorities believe the Grizzly Giant may be 6,000 years old.

BIG TREES CAN BE INCLUDED IN EVERY CALIFORNIA ITINERARY.

Most of your California-bound clients wish to see the Big Trees—especially the Wawona Tunnel Tree in the Mariposa Grove. Its picture first inspired them in their school geography! Yosemite's Mariposa Grove of Big Trees may now be visited any day in the year, on the side-trip from Yosemite Valley (\$7.50) or in connection with one of the Yosemite All-Expense Tours.

HORSESHOE ROUTE—May 1st to October 1st.

During the summer months Y. T. S. motor coaches connect with mainline railroads at Fresno, visiting the Mariposa Grove en route to Yosemite Valley. Leaving Yosemite via Y. T. S. and All-Year Highway your clients have come "in one way—out another." "No scene twice seen!"

GLACIER POINT (Rim of Valley)

During above period your clients may include the memorable experience of the vast panorama from Glacier Point Hotel, on the rim of Yosemite Valley, with their trip to Yosemite and the Mariposa Grove. No Yosemite visit is ever complete without Glacier Point and the Big Trees.

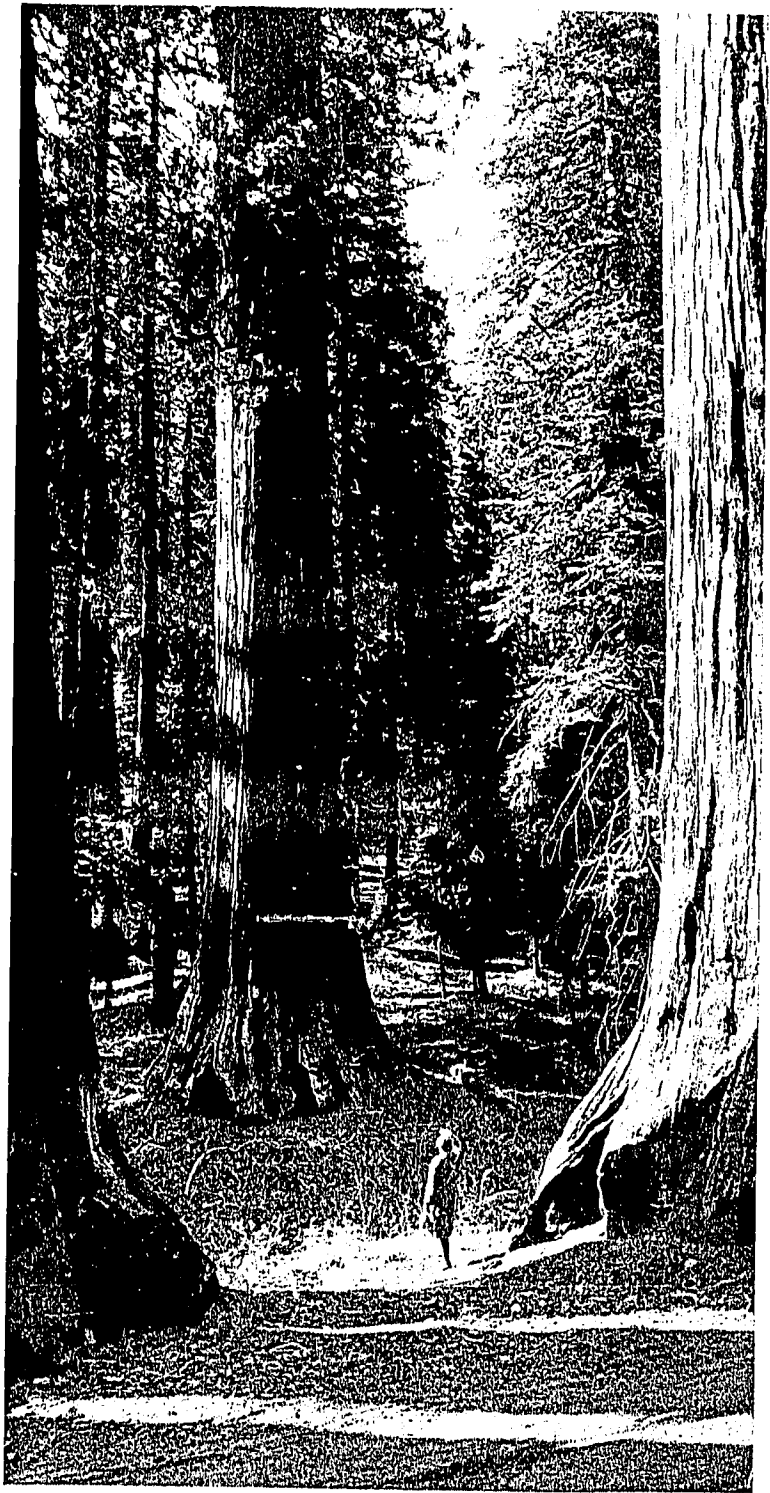
"NATIONAL PARKS YEAR."

Secretary Ickes' widely-publicized suggestion that 1934 be "National Parks Year" fits in with the decline in European travel; will help travel agents cash in on the increased domestic travel this year. Yosemite—first among all California vacations—is a most important card in your 1934 selling program. Every year Yosemite attracts visitors from every State in the union and from more than thirty-five foreign countries. Your clients will be disappointed if their California itinerary does not include Yosemite and its Big Trees.

EASTER. How delightful Yosemite is at Easter? (School teachers, especially, should be contacted right away.) Waterfalls approaching fullest volume! "Double sunrise" service at Mirror Lake at 9:30 a.m. Easter Sunday.

CORRECTION Last month we neglected to remind our Pacific Coast friends that telegrams can be sent to Yosemite via Pacific Telegraph. (Through an oversight we said that Western Union had exclusive service.)

TELEPHONE. Whenever any of your clients wish special "hurry-up" service—remember that it's only seconds to Yosemite by telephone. Adequate telephone service is available throughout the entire Park. Just ask the Long Distance operator for—"Yosemite."



California has Redwoods AND Big Trees!

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