

SUPERINTENDENT'S MONTHLY REPORT

FOR

NOVEMBER, 1928

W.S.

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

OFFICE OF THE SUPERINTENDENT

CALIFORNIA

December 6, 1928.

The Director
National Park Service
Washington, D. C.

Dear Mr. Director:

I am transmitting herewith report on Yosemite National Park for the month of November, 1928.

000 General

The first heavy snowfall of the season on November 14--exactly a month in advance of last year--brought eight inches of snow to the Valley floor and eighteen to twenty-four inches of snow on the Wawona and Big Oak Flat Roads. The storm was followed by freezing temperatures, making conditions ideal for winter sports. Each night the mercury has dropped below freezing point, so that the south side of the Valley is still heavily blanketed, but the snow has almost entirely disappeared from the sunny north side. The maximum temperature was 76 degrees, on the 6th and 7th, and the minimum, 19 degrees, on the 29th. There was a total precipitation of 2.72 inches.

100 Administration

110 Status of Work

Both office and outside work has been kept up to date.

120 Park Inspections By:

121 Park Superintendent

Regular inspections were made of all work in progress in the park.

On November 21 I attended a meeting of the San Joaquin Valley Regional Advisory Council of the California Development Association at Fresno. Recommendation was made to the council by the committee that a law be drafted and introduced at the next meeting of the State Legislature to create a game refuge in the Pinoche Peak district between the main Merced River and the South Fork for a winter deer range. Further, the chairman of the Conservation Committee was directed to appoint a special committee representing the National Park Service, the Forest Service, and the Sugar Pine Lumber Company, to work towards the extinguishment of all

patented lands in the park, the screening of roads leading to the park by suitable reservations of timber, and the preservation of specimens of California sugar pine in the vicinity of the Tuolumne Grove of Big Trees, which may involve extending the park boundary westward in that section. When a working program has been evolved, it will be submitted to other interested parties for approval and endorsement.

123 National Park Service Officials

Assistant Director (Field) Albright came into the park on November 1 for the meeting of the Board of Expert Advisors. He left for San Francisco on the 3d, intending to return to Yosemite the following week, but was called to Chicago on account of Director Mather's illness, returning to Yosemite on November 29.

Chief Engineer Kittredge and Landscape Engineer Vint came in with Mr. Albright on the 1st to consult with the Board of Expert Advisors. Mr. Kittredge returned to the park on the 27th to supervise the seal coating of the Village Plaza, leaving the same evening.

Fire Control Expert Coffman came into the park on November 9 and remained until Thanksgiving Day. He made trips to the Mariposa Grove, to Glacier Point, over the Wawona Road and down the old railroad grade to Incline, and over the Coulterville and Tioga Roads. He has compiled a comprehensive report on fire control in Yosemite National Park, in which he has covered the situation very well.

Mr. Harry Liek stopped in Yosemite for a few days on his way to Mt. McKinley National Park.

125 Other Governmental Officers

H. B. Hommon, Sanitary Engineer of the U. S. Public Health Service, came into the park on November 22 and devoted a day to studying sewer farm improvements and incinerator repairs and construction.

130 Finance and Accounts

<u>Appropriation</u>	<u>Allotment</u>	<u>Expended & Obligated</u>	<u>Unencumbered Balance</u>
National Park Service, 1928-9	\$ 427,375.00	\$ 332,145.84	\$ 95,229.16
Roads and Trails, N.P.S.	715,846.46	408,081.79	307,764.67

140 Labor Situation

There was a total of 112 employees at the end of the month.

The authority heretofore granted for the employment of intermittent per diem employees in Yosemite National Park was revoked last year and since that time consideration has been given to the issuing of formal appointments to the per diem employees who are engaged the year around. There has been a question as to whether the appointments should be made on a per diem basis under the Civil Service regulations or on an annual basis. An effort has been made to reduce the number of year-around per diem employees to the lowest limit possible, in order that the number to be added to the permanent, year-around organization will be minimized. The matter is still under consideration by Assistant Director (Field) Albright, but recommendations and nominations for employment will be made in a short time.

170 Plans, Maps, and Surveys

The Mirror Lake bottom and Cascades water lines were mapped. Plane table map of the toboggan slide was prepared. Engineer Herbert Neuman of the San Francisco Office, with two assistants, is mapping the Bridalveil area.

200 Maintenance, Improvements, and New Construction

210 Maintenance

The heavy snows on the 13th and 14th closed the Big Oak Flat Road for the season. The Wawona Road was closed to travel from the 14th to the 24th, when it was opened from the floor of the Valley to Inspiration Point. On November 27 the road was opened as far as the Mariposa Grove of Big Trees. It was comparatively easy to break through, and shoveling was necessary only in a few spots where snow had drifted to a depth of eighteen inches.

The Glacier Point Road was opened by the Yosemite Transportation System on November 24, and there was some travel by stages. The road has not been cleared, however, and it is necessary to buck snow most of the way. Private cars are not being encouraged to use the road.

Snow was removed as far as Cascades on the El Portal Road, and during the freezing weather the road was sanded practically all the way from Cascades to the junction with the Big Oak Flat Road.

230 New Construction

(a) Bridges: The foundation for the foot bridge connecting Camps 7 and 16 is finished, and the site has been cleaned up. This work has been done under force account.

With the completion of the Pohono Bridge, Rocca and Caletti finished their contract for the five Yosemite Bridges on November 10. The work has been inspected and found very satisfactory.

Schuler and McDonald, Happy Isles bridge contractors, closed down operations for the winter months on November 6. One underpass has been completed, and the arch centering has been removed.

(b) Wawona Road: Rough grading has been finished from Station 406+50 to Station 406. Culverts are up from Station 406 to 430. The heavy storms during the middle of the month stopped all construction, and Contractor T. E. Connolly with a crew of twenty-five men broke camp on November 14. Weather conditions have suspended all work under inter-Bureau agreement, and the Bureau of Public Roads' engineers left the park on November 28.

Six bids were received for the construction of the Alder Creek-Elevenmile section of the Wawona Road, and contract was awarded to Le Tourneau and Lindberg of Stockton, the lowest bidders, on November 20, for \$63,837.00, which was only 61% of the engineer's estimate of \$104,880.50. However, it was felt that sufficient evidence had been shown of responsibility and ability to handle the work. Later, word was received from the successful bidders that they had misjudged the character of the work and they wished to withdraw their bid. Only by forfeiture of their proposal guarantee in the amount of \$3200.00 will it be possible to release them from contract, in which case contract will be awarded to the next highest bidder, the W. A. Bechtel Company, at a figure of approximately \$107,094.00. The matter is still pending, but it is hoped that it can be worked out in this way to avoid the resultant grief in fulfillment of contract when the bid is so far out of line.

(c) Plaza Parking Area Seal Coat: Chief Engineer Kittredge, accompanied by Colonel Bowlby, ex-Chief Engineer of the Long Island Park Commission, who is now a special representative of the Emulsified Oil Pavement Company, came into the park on November 27 to supervise the placing of the seal coat of emulsified oil on the parking area in the New Village. Several weeks ago the plaza was paved with a mixture of crushed rock and emulsified oil, but the pavement was quite porous in many places and water ran through and under it. Mr. Kittredge feared that during the winter the moisture might freeze and do considerable damage to the pavement, so the work was rushed to completion while weather conditions were favorable.

(d) Cascades Water System: Installation was completed at a total cost of \$1,065.33. The new intake was placed 66.5 feet above the old, or 127 feet above the east bridge at Cascades. Approximately 2175 feet of 3-inch and 525 feet of 2 $\frac{1}{2}$ -inch galvanized pipe were used, in addition to 60 feet of 1-inch in connecting to old service lines. One hundred and five feet of pipe from the intake is supported by bents over a portion of the creek bed. One thousand feet of excavation was through rock and boulder country, necessitating drilling and blasting, but the remainder was comparatively easy digging.

(e) Two Employees' Cottages: Residence No. 43 is completely framed, and roofed, and sewer and electric wiring have been roughed in. The foundation for No. 42 is complete along with sub-floor and most of the studding. These houses are in the Lost Arrow residential section.

(f) Hospital: Dr. Brodrick, head of Stanford University Hospital, consultant on plan for the Yosemite Hospital, has been seriously ill for some time past, and while he is on the road to recovery he has expressed hesitation at resuming this added burden. Because of the value of his experience in the fine points of hospital planning, Landscape Architect Vint dislikes to go ahead without his aid and supervision and has suggested that work be postponed until January 1, when it is likely that Dr. Brodrick will be well enough to enter into the work again. After a month of study and another month in which to complete plans and specifications, the contract could be advertised by March 1 and work started on April 15 or May 1. Mr. Albright does not favor a further delay, however, and has asked Mr. Vint if it will not be possible to proceed now with what working plans they have.

(g) Teacherage for Yosemite Schoolteachers: The long-felt need for suitable housing for the two, and sometimes three, schoolteachers is being taken care of. The building is being erected on the school grounds. This relieves the Government of the necessity of providing quarters for the teachers during the greater part of the year, as has been done for some time past.

300 Public Service Contractors

Construction by the Yosemite Park and Curry Company progresses rapidly in the Camp Curry area. The new dining room and cafeteria were gotten under roof by the end of the month. About a hundred men are employed on this job.

Mr. E. Des Baillets was employed for the winter season in the capacity of winter sports director. Mr. Des Baillets formed the famous snowbirds of Lake Placid and has devoted the past twenty-five years of his life to the development of winter sports. Under Mr. Des Baillets' direction, the Government and the company constructed a skating rink at Camp Curry 275 feet long by 80 feet wide. It is planned to charge an admission price of 25¢ to this pond.

Additional board runway was added to the toboggan slide as an increased safety factor. Four cutters were procured in the East, and a large shipment of skis, bob sleighs, and other winter sports equipment were ordered direct from Switzerland.

The mountain house at Glacier Point will remain open all winter. The company is planning to conduct regular showshoe trips to the Point, as well as over the Wawona Road to Chinguapin, where provisions have been cached for the winter. It is hoped that eventually trips can be made during the winter on snowshoes and skis over the higher mountains, stopping at the High Sierra Camp sites.

400 Flora, Fauna, and Natural Phenomena

420 Museum Service

Park Naturalist Russell is still in the East gathering information and new ideas for museums. He will probably return to the park sometime after the first of the year. The museum is functioning under the direction of Acting Park Naturalist Wright.

470 Animals

Rangers on patrol report an unusually large number of big bucks along the old logging road west of Chinguapin, and a great many deer are moving from the park to that area.

Several injured deer have been reported seen along the El Portal Road. It is believed that they slipped and fell in front of cars while trying to cross the icy pavement.

500 Use of Park Facilities by the Public

6,277 persons visited the park during the month, compared with 5,005 during November of last year. Total travel to date has reached 17,612, an increase of 13% over last year's figure of 15,652.

540 Visitors

Mr. J. M. Wardle, Chief Engineer of the Canadian National Parks, accompanied by Mrs. Wardle and small daughter, drove into the park on November 23, presenting a telegram of introduction from Acting Director Cammerer. As a special courtesy, he and his family were taken care of at the Officers and Rangers Clubhouse. I accompanied him on a tour of the floor of the Valley that afternoon, and the following morning we visited the museum and had an opportunity to discuss many of our problems. Resident Engineer Taylor was away on annual leave, but Mr. Wardle met Engineer H. S. Tolen of the Bureau of Public Roads, who showed him the various major construction projects, completed and under way, on the floor of the Valley.

600 Protection

610 Police Protection

Only one case was brought before the United States Commissioner during the month. The charge was transportation and possession of liquor. Defendant was released on bond.

900 Miscellaneous

Medical Service

Dr. Hunt handled 176 cases, answering 212 office calls and 73 house calls, a total of 285 calls.

There was one birth.

Winter Sports Activities

The heavy snowfall in the middle of the month and the freezing temperatures each night have made conditions ideal for winter sports, which, in Yosemite, are reaching a high degree of development. The Ranger Department has again taken in hand the old toboggan slide, on which garbage can lids are used exclusively as the mode of travel. A wooden super-elevation has been installed on the curve to prevent the lids from leaving the track and, incidentally, providing an added thrill when the cans travel up this slope and down again into the track. "Canning", as it is called, seems to rank first in popularity with winter sports enthusiasts.

The section of the river in Camp 6 where the dragline has been operating all summer has frozen over solid and has made a splendid natural skating pond. Being in the shadow of the Glacier Point wall, the ice does not thaw during the daytime and its condition remains good with very little care. Electric lights have been installed, and benches have been provided. A ranger is kept in charge at all times.

Timber Situation

Word was received during November that the Sugar Pine Lumber Company of Fresno had definitely closed their negotiations with the White and Friant Lumber Company and were now the owners of the White and Friant holdings. It was also reported that they had closed a deal with the Yosemite Lumber Company, but the latest advice is that, while negotiations have been practically completed, the deal has not been finally closed. The Sugar Pine Lumber Company intends to start operations on the north side of the Merced River as soon as possible next spring and already has a crew of men working on the engines and equipment which were burned by the El Portal forest fire last summer to get it in condition so that it can be moved to their shops for a complete overhauling.

Mrs. J. B. Curtin has advertised all of the Curtin lands for private sale. The Government has been particularly interested in securing Crane Flat and Gin Flat, but, as there are no funds available for direct purchase, the Yosemite Park and Curry Company has submitted a bid for these two pieces, with the understanding that they will be turned over to the Government later when necessary arrangements can be made.

Board of Expert Advisors

Messrs. Olmsted, McDuffie, and Buwalda came in on October 31 and were joined by Assistant Director (Field) Albright, Chief Engineer Kirtledge, and Landscape Architect Vint on November 1. The committee now has under consideration something like twenty-six different projects calling for recommendations from them. All of the matters considered during their former visit (August 1-10) were given further study, and a number of new matters were brought up.

One of the important matters requiring prompt action was the layout of automobile roads, foot paths, and parking areas in front of Camp Curry to provide circulation of traffic in that area. Plans submitted by the Yosemite Park and Curry Company showing their ideas were carefully considered, and the whole subject was discussed on the ground. A number of changes were suggested, and Mr. Vint and Mr. Spencer, the company's architect, have been instructed to make further studies and drawings for consideration when the board meets in January.

A good deal of discussion was devoted to the development at Yosemite Lodge with respect to the location of the main buildings, housekeeping department, and the permanent housekeeping campers department proposed for the area in and around Camp Ahwahnee, which, the company believes, might be connected by a path and foot bridge. Definite approval was withheld until further studies could be made.

Selection was made of a site for the development by the Government of winter camp grounds and picnicking area, for which funds are available. The site chosen is on the warm, sunny slopes north of the road and west of the starting point of the trail which leads to the top of Yosemite Falls.

The Indian Village came in for a good share of discussion. Suggestions were made and considered as to a new location, the number of Indians to be accommodated, the number and type of buildings, etc. A plan for a typical Indian village to be open to the public received consideration.

The aerial maps of Tuolumne Meadows, as well as the topographic maps and road surveys, were available. The committee felt quite confident that with the data available their first plan, in the main, can be worked out. As the estimate item for starting work at Tuolumne Meadows was elim-

inated from our 1930 appropriation, the matter was deferred for further study later.

Attention was then given to the Glacier Point area, with reference to approach road, parking areas, camp location, development of the company's units, etc. This area, too, can be developed more advantageously with the additional data that has been secured.

Landscape Architect Vint and Architect Spenser are to make studies and plans of both the Tuolumne Meadows and Glacier Point areas and submit full details for all of the activities to be provided for here.

Mirror Lake was entirely dry in November, except for one very small pool, and the committee had an opportunity to study advantageously the possibility of saving the lake from being completely filled in. Dr. Buwalda was asked by the committee to make a special study of the matter.

The question of road locations and circulation on roads on the floor of Yosemite Valley was gone into quite extensively, and trips were made around the roads to determine whether an effort should be made to route traffic all one way in order to secure the best views. The question of providing turn-outs, or small parking areas, at some of the more important scenic spots was discussed on the ground.

Foot paths, bridle paths, and bridges were inspected. Much interest was displayed in the underpasses in the new Clarks Bridge and the Happy Isles Bridge, now under construction. Mr. Olmsted indicated how the approach to these underpasses should be handled to secure the best results. This led to a discussion of protection of certain areas in the camp grounds, and particularly the foot paths and bridle paths which pass through the camp grounds, from encroachment by automobiles and campers, who, early last summer, drove over the paths and even erected tents on them and left their automobiles parked across them. This fall guard rails of logs placed on posts and set close to the ground were erected as a means of protection. A great many valuable suggestions were offered in this connection, and in the discussion attention was given to the matter of keeping automobiles and campers back far enough from the main traveled roads and the streams so as to be as inconspicuous as possible and leave the stream banks and roads open and free to the visiting public. The question of planting for screening purposes was also gone into extensively.

The parking areas at Mirror Lake and Happy Isles were inspected and approved, and some consideration was given to the other areas to be developed at Camp Curry, Yosemite Falls, and Bridalveil. In connection with the latter area, the line location was looked into again. The committee left the park via the Big Oak Flat Road with the idea of viewing and considering the new line on the opposite side of the canyon.

Several proposed church sites were visited, and a brief conference was held with Mr. Gunn, local supervisory executive of the Yosemite National Park Church, and Dr. Asa White of Berkeley, who has been delegated by the trustees to carry on negotiations for settlement of the problems involved in the building and operation of a church in the park.

All problems in connection with the plans for the development in the New Yosemite Village, particularly the construction contemplated by the Yosemite Park and Curry Company, were carefully considered. The question of parking was gone into at length, and ways and means of providing circulation in this congested area were studied.

It is the intention of the committee soon to crystallize their ideas and make definite recommendations on a number of these problems. Tentative arrangements have been made for another meeting in the park sometime in January.

Very truly yours,

E. P. Leavitt
Acting Superintendent

RN

cc Mr. Albright
Mr. Kittredge

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UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

TRAVEL REPORT

.....Yosemite..... National Park for the Month ofNovember, 1928.....

	This Month	This Travel Year To Date	This Month Last Year	Last Travel Year To Date	Increase for Travel Year	
					Number	Percent

PRIVATE TRANSPORTATION:

Cars first entry	854	2,260	650	2153	107	5
Cars reentry	1,123	3,523	921	2,614	709	27
Motorcycles	10	16	4	10	6	60
Total motor vehicles	1,987	5,599	1,575	4,777	822	17
Persons entering via motor vehicles	5,851	16,137	4,653	14,250	1,887	13
Persons entering via other private transportation	1	2	3	10	- 8	- 80
Total persons entering via private transportation	<u>5,852</u>	<u>16,139</u>	<u>4,656</u>	<u>14,260</u>	<u>1,879</u>	<u>13</u>

OTHER TRANSPORTATION:

Persons entering via stages ..	205	861	240	973	- 112	- 12
Persons entering via trains ..	220	612	109	419	193	46
Persons entering otherwise						
Total other transportation ..	425	1,473	349	1,392	81	6
<u>GRAND TOTAL ALL VISITORS</u> ..	<u>6,277</u>	<u>17,612</u>	<u>5,005</u>	<u>15,652</u>	<u>1,960</u>	<u>13</u>

	This Year	Last Year	Increase	
			Number	Percent

Automobiles in public camps during month¹/₂..... No record kept
Campers in public camps during month

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

STATUS OF AUTHORIZED PROJECTS

.....Yosemite..... National Park for the Month ofNovember, 1928.....

Description of Projects	Percent Constructed To Date	Percent Constructed This Month	Percent Constructed Last Month	Probable Date of Completion
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Bureau of Public Roads Engineering
Major Projects

Yosemite Bridges	100.0	.3	2.8	Nov. 10, 1928
Wawona Road Construction	5.1	3.8	1.3	Oct. 1, 1929
Happy Isles Bridge	80.0	2.6	19.6	May 1, 1929
Wawona-Yosemite Survey	90.0	0	0	May 1, 1929
Wawona Road Clearing	70.0	0	0	Jan. 1, 1929

National Park Service Force Account

Glacier Point Four-Mile Trail	39.4	0	0	
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UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

STATUS OF PERSONNEL

Yosemite National Park for the Month of November, 1928

	This Month	This Month Last Year
Number of employees beginning of month,	130	147
Number of additions,	4	6
Total,	134	153
Number of separations,	22	50
Number of employees close of month, . .	112	103
Number of promotions during month	1	2
Aggregate amount of annual leave taken,	147 ⁸ / ₄ days	192 days 7 hours
Aggregate amount of sick leave taken,	51 ¹ / ₂ days	24 days
Aggregate amount of leave without pay,	1	-

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

REPORT OF PARK REVENUES

Yosemite National Park for the Month of November, 1928

	This Year	Last Year
Park revenue on hand beginning of month	\$ 29.17	\$
Received.	4,457.36	
Total.	4,486.53	
Remitted.	4,424.65	
On hand close of month.	61.88	
<hr/>		
Park revenues received this year to date.	\$116,964.85	
Park revenues received last year to date.	147,551.41	
Increase.	30,586.56	
Percent of increase	20.7%	

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

REPORT OF TELEPHONE AND TELEGRAPH BUSINESS

National Park for the Month of				
Yosemite				
November 1928				
	This Month	This Month Last Year	Increase	Percent Increase

LOCAL BUSINESS

1927

Miles of circuit maintained,				
No. of telephones connected,	239	230	9	4
No. of measured service calls,	227	225	2	1
No. of other local calls,	140	125	15	12
Total No. of local calls,	22514	19491	3023	15
Peak load in calls per day,	22654	19616	3038	15
	1040	1151	-11	- 1
Receipts from measured service calls,				
" " coin boxes,	25.20	30.05	- 4.85	- 16
" " telephone rental,95	2.45	- 1.50	- 61
TOTAL RECEIPTS	489.05	584.76	-195.71	- 15½
	515.20	617.26	- 102.06	- 16½

LONG DISTANCE BUSINESS

No. Outbound calls,	463	461	2	½
No. Inbound calls,	333	370	-37	-10
TOTAL LONG DISTANCE CALLS	796	831	-35	- 4
Peak load in calls per day,				
Receipts from Long Distance business,	41	32	9	28
	222.88	232.68	- 9.80	- 4

TELEGRAPH BUSINESS

Messages via Western Union,	547	581	-34	- 6
Messages via	55	13	42	323
TOTAL MESSAGES	602	594	8	1
Receipts from telegraph business,				
No. of money transfer messages,	147.88	140.50	7.38	5
" " " " receipts,	10	.15	- 5	-33
	5.86	7.49	- 1.63	-22
TOTAL RECEIPTS TELEPHONE & TELEGRAPH DEPTS.	891.82	997.93	-106.11	-11

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

*ELECTRICITY GENERATED, SOLD, USED, ETC.

Yosemite..... National Park for the Month of November...1928.....

	This Month	This Travel Year To Date	This Month Last Year	Last Travel Year To Date	Increase for Travel Year	
					Number	Percent
Current generated,	77435	2773915	579535	2639165	+134750	+ 15
Sold to park operators,		795394	217748	1321622	-526228	- 40
Sold to others,		1339200	94008	326890	+1012310	+340
Furnished to other Governmental agencies,	16197	24949	12658	18723	+ 6226	+ 28
Used by National Park Service, lost in transit, etc.,	61238	614372	255125	971930	-357558	-37
Total current generated, . . .	77435	2773915	579535	2639165	134750	+ 5

Amount receivable from the sale of electricity, \$

* Indicated by K. W. H.

Purchased from San Joaquin Light and Power Corp. 566,358 K.W.H.
10/12 to 11/16/28

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

REPORT OF SALES OF PUBLICATIONS

NOVEMBER, 1928

	Number	Value
<u>GOVERNMENT PUBLICATIONS:</u>		
On hand beginning of month,	6045	\$624.45
Received during month,		
Total,	6045	\$624.45
Sold during month,	-	-
On hand at close of month,	6045	\$624.45
<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,		\$1,485.05
Sales during month,		--
Total,		\$1,485.05
Remitted during month,		503.35
Ealance,		\$ 981.70

MONTHLY SUMMARY.

COOPERATIVE OBSERVERS' METEOROLOGICAL RECORD:

Month of November, 1928; Station, Yosemite; County, Mariposa

State, California; Latitude, 31; Longitude, 119; Hour of Observation, 4 P.M.
Time used on this form, Pac.

TEMPERATURE.

Mean maximum, 61.80

Mean minimum, 28.43

Mean, 45.11

Maximum, 76; date, 6 & 7th

Minimum, 19; date, 29th

Greatest daily range, 50 5th

Greatest in 24 hours, 1.50; date, 14th

Total, 2.72 inches.

PRECIPITATION.

Total snowfall, 8 inches; on ground 15th, 6 inches;

at end of month, None inches.

NUMBER OF DAYS—

with .01 inch or more precipitation, 5

Clear, 23; partly cloudy, 4; cloudy, 3

DATES OF—

Killing frost, _____

Thunderstorms, _____

Hail, _____

Sleet, _____

Auroras, _____

REMARKS:

DATE.	TEMPERATURE.				PRECIPITATION.				PREVAIL- ING WIND DIRECTION.	CHARACTER OF DAY SUNRISE TO SUNSET.	† MISCELLANEOUS PHENOMENA.	
	MAXI- MUM.	MINI- MUM.	RANGE.	* SEV MAX.	TIME OF BEGINNING.	TIME OF ENDING.	AMOUNT.	SNOWFALL IN INCHES.				DEPTH OF SNOW ON GROUND AT TIME OF OBSERVATION.
	1	2	3	4	5	6	7	8	9	10	11	
1	66	31	35								Clear	
2	71	35	35								P.Cloudy	
3	59	42	17		3 am	10 am	.52				Cloudy	High winds, followed
4	75	32	42								Clear	
5	74	24	50		8 pm						"	Rain 8 p.m.
6	76	38	38			9 am	.32				"	
7	76	27	49								"	
8	73	34	39								"	
9	71	32	39								"	
10	70	34	36								"	
11	62	28	34								P.C.	
12	60	28	32								P.C.	
13	53	33	20		10 pm	8 am	.33	Trace			Cloudy	Light snow melting
14	46	32	14		9 pm	3 pm	1.50	8"	6"		"	Wet, heavy snow
15	46	22	24				.05				Clear	
16	55	24	31								"	
17	51	22	29								"	
18	55	24	31								"	
19	61	26	35								"	
20	59	28	31								"	
21	62	29	33								"	
22	61	28	33								"	
23	61	28	33								"	
24	63	30	33								"	
25	62	25	37								"	
26	59	27	32								"	
27	59	25	34								"	
28	56	24	32								"	
29	55	19	36								"	
30	57	20	37								P.Cloudy	
31												
SUM.	1854	852	1000				2.72	8"				
MEAN												

* Reading of maximum thermometer immediately after setting.
† Including rain, hail, sleet, and melted snow.
‡ Thunderstorms, hail, auroras, etc.

(IN TRIPLICATE.)

See cover for instructions.