DEPARTMENT OF THE INTERIOR

OFFICE OF THE SECRETARY

GENERAL INFORMATION

REGARDING

YELLOWSTONE NATIONAL PARK

SEASON OF 1913

GENERAL STATEMENT.

The Yellowstone National Park is located in northwestern Wyoming, with a small area in Montana and Idaho. It was created by the act of March 1, 1872, and has an area of 2,142,720 acres. It is under the control and supervision of the Secretary of the Interior, but it is patrolled by four troops of Cavalry commanded by a line officer of the Army, assisted by a number of civilian scouts. Road and bridge construction and road sprinkling are under the direction of the Corps of Engineers of the United States Army.

General information may be obtained at the superintendent's office at Fort Yellowstone, Mammoth Hot Springs, Wyo., and complaints regarding service should be addressed to that officer. The tourist

season extends from June 15 to September 15.

The transportation companies allow each passenger to take along 25 pounds of hand baggage without extra charge, which is usually quite sufficient unless considerable extra time is to be spent in the park, when arrangements can be made for having trunks forwarded. Arrangements can be made for caring for trunks left at entrance during tour of park, or for rechecking them for passengers who enter at one side of the park and go out by another route.

Heavy, strong clothing and heavy shoes (or light shoes and rubbers) are advisable. A raincoat or other light, serviceable wrap should be taken along. Dusters or heavy coats may be rented for park trips by

those desiring them.

The post office in the park is called Yellowstone Park, Wyo., and is located 5 miles from the northern entrance. Those entering from the west should have their mail addressed to Yellowstone, Mont.

Telegrams may be sent from hotels to any part of the world. General stores are located at Mammoth Hot Springs, Upper Geyser Basin, and outlet of Yellowstone Lake.

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RAILROADS.

The Northern Pacific Railroad reaches the park on the north at Gardiner, Mont.; the Oregon Short Line Railroad reaches it on the west at Yellowstone, Mont.; and the Chicago, Burlington & Quincy Railroad reaches Cody, Wyo., from which the eastern entrance to the park may be reached by a drive of 63 miles. Descriptive matter and information regarding railroad rates may be obtained from the roads mentioned. Excursion tickets are sold during the park season.

TRANSPORTATION AND ACCOMMODATIONS IN THE PARK.

Automobiles and motor cycles are not allowed in the park, except in the northwest corner on a road leading from Bozeman, Mont., to the southern portion of Gallatin County, Mont. This road is not on the regular tourist route. There are a number of hotels, permanent camps, and transportation lines operated in the park under contract with the Department of the Interior, and movable camps operate under yearly license issued by the department, but every person is at liberty to provide his own means of transportation, subject to the regulations printed on pages 33–36. Five and one-half days is the minimum time in which the tour of the park can be made. Persons starting on the tour of the park by way of the movable camps can not obtain accommodations at the hotels except in cases of sickness or exceptional circumstances. Circulars and information may be obtained from the concessioners whose addresses are given in this circular.

Tourists are advised to arrange in advance for their hotel or camp accommodations.

YELLOWSTONE PARK HOTEL CO.

The Yellowstone Park Hotel Co. maintains five hotels and two lunch stations in the park. The hotels are located at Mammoth Hot Springs, the Lower Geyser Basin, the Upper Geyser Basin, the outlet of Yellowstone Lake, and the Grand Canyon of the Yellowstone; the lunch stations are located at Norris Geyser Basin and the Thumb of the Lake. These hotels are operated in connection with the Yellowstone National Park Transportation Co., whose coaches start from the northern entrance at Gardiner; the Monida & Yellowstone Transportation Co., whose coaches start from the western entrance at Yellowstone; and the Holm Transportation Co., whose coaches start from Cody, Wyo.

The address of the hotel company is Yellowstone Park, Wyo., from June 15 to September 15, and Helena, Mont., thereafter. The

authorized rates at the hotels are as follows:

Rates of the Yellowstone Park Hotel Co.

HOTEL CHARGES.

Board and lodging, regular accom-	Extra for room with bath, each per-
modations, not exceeding, per	son, per day\$1.00
day\$5.00	Meals or lodgings, part of a day,
Board and lodging, extra accom-	each
modations not covered by the	Meals served in rooms, extra, each 50
regular rate, such sum in excess	Shaving
of \$5 per day as may be agreed	Hair cutting
upon between the guests and the	Shampooing, men
company.	Dry shampoo, ladies 1. 00

HOTEL CHARGES—continued.

Wet shampoo, ladies \$1.25	Chiropody:
Scalp treatment	In shop\$1,50
Face massage:	In private rooms, in hotel,
Men	extra
Women 1. 00	Bath
Almond or clay pack 1. 50	Boot blacking
Ladies' plain hair dressing	
Ladies' fancy hair dressing . 1.00 to 2.00	Per game
Singeing	Per hour
Manicuring	

NEWS STANDS.

Guide books, periodicals, magazines, etc., at customary rates.

TELEGRAMS.

From all points in the United States (except Helena, Mont.) to Helena, Mont., at Western Union rates; Helena to Mammoth Hot Springs, Yellowstone Park Hotel Co., charge of 25 cents for first 10 words and 2 cents for each additional word; Helena to other points in Yellowstone National Park, charge of 50 cents for first 10 words and 3 cents for each additional word.

Messages exchanged between offices in the park at the rate of 25 cents for 10 words

and 2 cents for each additional word.

TELEPHONE MESSAGES.

Use of telephone from or to any point in the park, not to exceed 1 minute, 25 cents. Each additional minute, 15 cents.

YELLOWSTONE NATIONAL PARK TRANSPORTATION CO.

The Yellowstone National Park Transportation Co. operates a transportation line from Gardiner, Mont., the northern entrance, in connection with the hotels. The stages run daily during the season. The address of this company is Yellowstone Park, Wyo., between June 15 and September 15; thereafter, Helena, Mont. The authorized rates are as follows:

Transportation rates of the Yellowstone National Park Transportation Co.

	TRIPS.	
Mammoth Hot Springs to—		
Norris, Fountain, Upper Basin, and ret	arn, with stop-over privileges \$18.0	00
Norris, Fountain, Upper Basin, and Gra	and Canvon, and return with stop-	
over privileges		00
Round trip of park, via Norris, Fount	ain, Upper Basin, Thumb of Lake.	
Lake, Grand Canyon, and Norris, wi	ith stop-over privileges	00
Dake, Grand Canyon, and Horris, Wi	zon btop over privilegeb 20. c	/0
SINGLE TRIPS.		
Mammoth Hot Springs to—	Norris to—Continued.	
Gardiner	Grand Canyon \$3. 5	60
Norris 4. 00	Lake 8. 5	60
Fountain 7. 50	Fountain to—	
Upper Basin 9. 00	Upper Basin 1. 5	60
Grand Canyon 7.50	Norris	60
Lake	Grand Canyon 7. 0	00
Thumb	Mammoth Hot Springs 7. 5	50.72
Norris to—	Upper Basin to—	,0
	Fountain	'n
Upper Basin		
Fountain 3. 50	Norris 5. 0	W

regular fare charged.

SINGLE TRIPS-continued.

Upper Basin to—Continued. \$8.50 Grand Canyon	Grand Canyon to— \$3.50 Norris
CARRIAGES, SADDLE	HORSES, GUIDES, ETC.
Saddle horse: Per day	Seats in conveyance for drive— Continued. To Inspiration Point at Canyon
PARK	TRIPS.
One vehicle, seat 3, two horses and driver, per day\$15.00 One vehicle, seat 5, four horses and driver, per day25.00 One vehicle, seat 7, four horses and driver, per day30.00 For each additional passenger carried, regular fore charged	Vehicle per diem rates one-half of above for all time over five days. Driver boarded and horses stabled and fed by and at expense of transportation company.

MONIDA & YELLOWSTONE STAGE CO.

The Monida & Yellowstone Stage Co. operates a transportation line from Yellowstone, Mont., the western entrance, in connection with the hotels. The stages run daily during the season. The address of this company is Yellowstone, Mont., between June 15 and September 15; thereafter St. Paul, Minn. The authorized rates are as follows:

Transportation rates of the Monida & Yellowstone Stage Co.

ROUND TRIPS.

Oregon Short Line terminus (near western entrance) to—	
Fountain, Upper Geyser Basin, and return, with stop-over privileges	\$10.00
Fountain, Upper Geyser Basin, Lake, Canyon, Norris, return to western	
entrance, with stop-over privileges	20.00
In connection with above round-trip ticket, Norris to Mammoth Hot	
Springs and return.	

THROUGH TRIP.1

Oregon Short Line terminus (near western Gardiner (northern entrance) via Fo Lake, Grand Canyon, Norris, Mam privileges Canyon to Mammoth Hot Springs via	untain, Upper Basin, Yellowstone unoth Hot Springs, with stop-over \$25.00
Oregon Short Line terminus (near western entrance) to— \$5.00 Fountain	Lake to— \$5.00 Canyon. \$5.00 Thumb. 3.00 Upper Basin. 7.00 Norris via Canyon. 8.50 Mammoth Hot Springs. 12.50 Gardiner. 14.00 Western entrance. 15.00 Canyon to— Norris. Norris. 3.50 Lake. 5.00 Fountain. 7.00 Upper Basin. 8.50 Mammoth Hot Springs. 7.50 Gardiner. 9.00 Western entrance via Norris. 10.00 Norris to— Western entrance. 6.50 Fountain. 3.50 Upper Basin. 5.00 Canyon. 3.50 Lake via Canyon. 8.50 Mammoth Hot Springs. 4.00 Gardiner. 5.50
STOP-OVER	PRIVILEGES.
All passengers are granted stop-over privileges at any of the regular stopping places in the park without extra charge for transportation. Parties can retain their surrey or coach for their use on layover days at the following rates: Three-passenger two-horse surrey and driver, per day	Five-passenger four-horse coach and driver, per day
PARK	TRIPS.
Three-passenger two-horse surrey and driver, per day	For each additional passenger carried, regular fare charged. One-half the above rates per diem for all time over five days. Expense of boarding drivers and horses included.

¹Tnese trips include drives at Fountain and Upper Basin, also ride at Grand Canyon, to Inspiration Point, and return.

² Parties requesting single trips in opposite direction from the regular stage route will consist of sufficient number to file a minimum conveyance (3 passengers) or pay for vacant space at above rates.

CARRIAGES, SADDLE HORSES, GUIDES, ETC.

Carriage or surrey, 3 seats, for use		Saddle horse:	
in vicinity of western entrance,		Per day	\$3.50
Fountain, Upper Basin, Lake,		First hour	1.00
Canyon, Norris, or Mammoth:		Each subsequent hour	. 50
Per day	\$10.00	Guide, with saddle horse, per day.	5.00
First hour	4.00	Packer, with saddle horse, per	
Each subsequent hour	2.00	day	5, 00
Seats in conveyance for drive:		Cook, with saddle horse, per day	5.00
Over formation at Fountain,		Pack horse, each, per day	1.50
each	. 50	Mount Washburn, round trip,	200
Over formation at Upper Gey-	0.1200	from Grand Canyon, each	5, 00
ser Basin, each	. 50	,,,	
To Inspiration Point at Can-			
yon, each	1.00		
To Artists Point at Canyon,			
each	1.00		

HOLM TRANSPORTATION CO.

The Holm Transportation Co. operates a transportation line from Cody, Wyo., through the eastern entrance in connection with the hotels and the Wylie permanent camps. Stages run daily during the season. The address of this company is Cody, Wyo. The automobiles of the Holm Transportation Co. leave Cody each day during the season, transporting passengers to Holm Lodge. The authorized rates are as follows:

Transportation rates of the Holm Transportation Co.

STAGE ROUTE FARES-SINGLE TRIPS.

Eastern entrance, Sylvan Pass, Lake, Upper Geyser Basin, Norris, Canyon, Lake Hotel, Sylvan Pass, eastern entrance (5 days)
moth Hot Springs, and northern entrance (5 days). 25.00 Eastern entrance, Lake, Upper Geyser Basin, Norris, Canyon, Norris, Yellow-
stone (5 days)
Eastern entrance to Canyon (1 day). 5.00 Ten-day horseback tour (stopping at park hotels, making tour by easy rides;
will not make trip for less than 2 persons), \$5 per day, which includes guide. Eastern entrance, Sylvan Pass, Lake, Thumb, Upper Geyser Basin, Foun-
An additional charge is made for transportation between Cody and the eastern entrance. As this trip is outside the park, the department has no control over the rates.

STOP-OVER PRIVILEGES.

All passengers are granted stop-over privileges at any	of the regular stopping places
in the park without extra charge for transportation.	Parties can retain surrey for
their use on lay-over days at the following rates:	

	\$7.50
Five-passenger 2-horse surrey, and driver, per day	10.00

CARRIAGES, GUIDES, SADDLE HORSES, ETC.

Saddle horse, per day	\$3.50
Guide, with saddle horse, per day	5. 00 5. 00
Mount Washburn, round trip, from Grand Canyon	5.00

PARK TRIPS.

One vehicle, seat 3, 2 horses and driver, per day	\$15.00
One vehicle, seat 5, 2 horses and driver, per day	25.00
For each additional passenger carried, regular fare charged.	
Vehicle per diem rates one-half of above for all time over 5 days. Driver	oarded

and horses stabled and fed by and at expense of transportation company.

WYLIE PERMANENT CAMPING CO.

The Wylie Permanent Camping Co. maintains permanent camps in the park and operates a transportation line from Gardiner (northern entrance), Yellowstone (western entrance), and Camp Cody (eastern The camps are located at Swan Lake Basin, Riverside entrance). (western entrance), Upper Geyser Basin, outlet of Yellowstone Lake, Grand Canyon of the Yellowstone, eastern entrance, and Tower Falls. In addition, lunch stations are maintained at the Gibbon Geyser Basin and at Thumb of Yellowstone Lake. Stages run daily during the season. The address of this company is Livingston, Mont. authorized rates are as follows:

Rates for services rendered and accommodations furnished by the Wylie Permanent Camping Co.

TOURS.

Six-day park tour, from Gardiner, and return	\$40.00
return	40, 00
Six-day park tour, from Gardiner, via Mammoth Hot Springs, Upper Geyser	20.00
Basin, Lake, Canyon, to Yellowstone. Five-day mark tour, from Yellowstone, via Gibbon, Upper Geyser Basin,	40.00
Five-day park tour, from Yellowstone, via Gibbon, Upper Geyser Basin,	
Lake, Canyon, Mammoth Hot Springs, to Gardiner.	40.00
Five-day park tour, from Camp Cody, via Lake, Thumb, Upper Geyser Basin, Gibbon, Canyon, Norris, and Mammoth Hot Springs, to Gardiner	1 44 50
Six-day park tour, from Camp Cody, and return, including Mammoth Hot	¹ 44. 50
Springs	¹ 47, 00
Six-day park tour, from Gardiner, via Mammoth Hot Springs, Swan Lake.	17.00
Six-day park tour, from Gardiner, via Mammoth Hot Springs, Swan Lake, Norris, Gibbon, Upper Geyser Basin, Thumb, Lake, Canyon, Lake, to	
Camp Cody	1 49.00
Five-day park tour, from Yellowstone, via Upper Geyser Basin, Lake, Canyon,	
Norris, Gibbon, and return	35. 00
Five-day park tour, from Camp Cody, via Lake, Canyon, Norris, Upper Geyser	1 00
Basin, Thumb, Lake, and return	¹ 38. 75
Five-day park tour, from Camp Cody, via Lake, Canyon, Norris, Swan Lake,	
Mammoth Hot Springs, Norris, Gibbon, Upper Geyser Basin, and return via Gibbon to Yellowstone	¹ 43, 00
Four-day park tour, from Camp Cody, via Lake, Canyon, Norris, Gibbon,	10.00
Upper Gevser Basin, and Gibbon to Yellowstone	¹ 33, 75
Upper Geyser Basin, and Gibbon to Yellowstone. Four-day park tour, from Yellowstone, via Gibbon, Upper Geyser Basin,	
Thumb, Lake, Canyon, Lake, to Camp Cody	¹ 38. 75
Thumb, Lake, Canyon, Lake, to Camp Cody. Three-day park tour, from Camp Cody, via Lake, Canyon, Norris, and Gibbon,	
to Yellowstone. Three-day park tour, from Camp Cody, via Lake, Canyon, Norris, Swan Lake,	¹ 25. 50
Three-day park tour, from Camp Cody, via Lake, Canyon, Norris, Swan Lake,	1 00 50
Mammoth Hot Springs, to Gardiner.	¹ 28. 50
Each of the above tours includes transportation, board, and lodging for each person.	
For children under 10 years of age, these rates above are to be one-half	
amount stated.	
Time in addition to regular itinerary, board and lodging, per day, each	3.00
Mountain spring wagon (3 seats), 2 horses and driver, when retained during	
overtime, per day (additional to \$3)	5.00
Concord coach (4 seats), 4 horses and driver, when retained during over-	
time, per day (additional to \$3)	8. 00
8	

 $^{^1\,\}rm Transportation$ between Cody and Camp Cody \$3 additional one way and \$3.75 additional for the round trip. These rates cover service outside the park and are not subject to regulation by the Department. They are given simply as a matter of general information.

LOCAL TRANSPORTATION RATES.

Gardiner to Swan Lake \$3.00 Swan Lake to Upper Geyser Basin 5.00 Upper Geyser Basin to Thumb of Lake 4.00 Thumb to Lake Outlet (Lake Camp) 3.00 Lake Camp to Canyon 3.00 Canyon to Swan Lake 4.00 Canyon to Norris 2.00 Norris to Swan Lake 2.00 Norris to Mammoth Hot Springs 3.50	Camp. \$3.00 Gibbon Camp to Norris. 2.00 Gibbon Camp to Upper Geyser Basin. 3.00 Yellowstone Camp to Upper Geyser
MISCELLANE	OUS CHARGES.
Saddle horses, per day. Sulphur baths at Camp Roosevelt and U where, each. Board and lodging, per day, each person. Single meals, per person. Lodging, per person. Feeding horses, oats or hay, per feed, each Trunks hauled between Oregon Short Lin each way. Bicycles may be carried at a cost between	pper Geyser Basin and baths else

SHAW & POWELL CAMPING CO.

The Shaw & Powell Camping Co. maintains permanent camps and operates a transportation line from Gardiner (northern entrance) and Yellowstone (western entrance). The camps are located at the following points: Near Obsidian Bridge, near Gibbon Falls, near Fountain Soldier Station, near Old Faithful Geyser, at the west Thumb of the Lake, near outlet of Yellowstone Lake, at Grand Canyon, and near Tower Falls. A lunch station is maintained on Madison River. Stages run daily through the season. The address of this company is Livingston, Mont. The authorized rates are as follows:

Schedule of rates for services rendered and accommodations furnished by Shaw & Powell Camping Co.

From Gardiner (northern entrance):	
	\$30.00
Six and one-half day trip	35.00
To Willow Creek Camp and return	7.50
To Norris Camp and return	15.00
To Canyon Camp and return	20.00
To Old Faithful Camp and return	20.00
From Yellowstone (western entrance):	
Five-day trip via Nez Perce and Canyon	30.00
Six-day trip embracing Mammoth Hot Springs.	35.00
Eight-day trip embracing Mammoth Hot Springs and Tower Falls	40.00
To Lower Ceyser Basin and return	7.00
To Old Faithful Camp and return.	15.00
Unless otherwise specified, rates include meals and lodging.	
Children under 10 years, one-half rate.	
Trunks of tourists, station to hotel and return, free.	
Extra stay at camps, per day.	3.00
Extra stay at camps, per day, with team	5.00

LOCAL TRANSPORTATION RATES.

LOCAL TRANSPORTATION RATES.
Gardiner to Willow Creek Camp. Willow Creek to Nez Perce Camp. Nez Perce to Old Faithful Camp. Old Faithful Camp to Thumb Lunch Station Lun
MISCELLANEOUS.
Board and lodging for detached persons, per day, each
PERSONALLY CONDUCTED CAMPING PARTIES.
The persons named below hold licenses allowing them to conduct camping parties through the park. These persons do not furnish daily service, but make trips on certain specified dates or special trips as arranged. Additional information may be obtained by addressing the licensees.
Authorized rates of W. H. Jordan.
[Address, Cody, Wyo.]
18-day trip from Cody, through the park and return to Cody, including transportation and board and lodging in camp, per person
Authorized rates of Howard Eaton.
[Address, Wolf, Wyo.]
20-day trip from Gardiner, through the park and return to Gardiner, including transportation and board and lodging in camp, per person
Authorized rates of Frost and Richard.
[Address, Cody, Wyo.]
16-day trip from Cody, through the park and return to Cody, including transportation and board and lodging in camp, per person
RATES FOR SPECIAL PARTIES.
2 to 5 persons, including transportation and board and lodging in camp, each person per day

Authorized rates of B. D. Sheffield.

[Address, Moran, Wyo.]

Trip from northern or western entrance to lodge on Jackson Lake, including	
board at hotels in the park (regular accommodations not in excess of \$5 per	
day) and transportation, 1 person	\$15.00
Trip as above, 2 persons in party, each	12.50
Trip as above, 3 or more persons in party, each	10.00
Extra charge for saddle horse, per day	5.00

Authorized rates of Charles C. Moore.

[Address, Fort Washakie, Wyo.]

60-day trip from ranch to park by way of southern entrance, including board and lodging in camp, transportation, saddle horse, etc., per person....... \$360.00

On this trip 14 days are spent in the park; the balance of the time is spent in Jackson Hole and the mountains south of the park.

Authorized rates of Old Faithful Camping Co.

[Address, Livingston, Mont.]

Six-day trip from Gardiner through the park and return to Gardiner, including	
transportation and board and lodging in camp, per person	\$30.00
Additional per day for stop-overs at points of interest, per person	4.00
Extra charge for saddle horses, per day	2.00
Two or three day trip to Grand Canyon and return	20.00
Children under 10 years of age at half rate on all trips.	

Authorized rates of Roseborough Camping Co.

[Address, Gardiner, Mont.]

61-day trip from Gardiner through the park and return to Gardiner, Mont.,		
including transportation and board and lodging in camp, per person	\$30.00	
6-day trip through the park from Yellowstone, Mont., including transportation		
and board and lodging in camp, per person	30.00	

Russell Crane (Meeteetse, Wyo.), James L. McLaughlin (Valley, Wyo.), and Frank A. Gross (302 Ellicott Square, Buffalo, N. Y.), have made application for permits to personally conduct parties through the park, but the rates have not been submitted for approval.

BOAT SERVICE ON YELLOWSTONE LAKE.

The Yellowstone Park Boat Co., under contract with the department, maintains and operates power boats, cruisers, launches, and rowboats on Yellowstone Lake in the Yellowstone National Park. The service on this lake is not a part of the regular transportation of the park and an extra charge is made, as shown in the schedule hereafter, by the boat company for services rendered by it. Under the regulations of the department no power boats are permitted to be operated on this lake except those that have passed the inspection of the United States Steamboat-Inspection Service of the Department of Commerce.

Rates of the Yellowstone Park Boat Co.

POWER BOATS.

Lake Hotel to West Arm (Thumb) of Yellowstone Lake, or reverse of such trip. Excursions to Southeast Arm of lake, per individual (this trip not made for less	
than \$20)	2.00
33-foot cabin cruiser, with crew, per day	35.00
For two or more days, per day	25,00

16-foot and 18-foot launches: \$15.00 Per day	0
ROWBOATS.	
Rowboats:	
Per day\$2.00	0
For first hour	
For each additional hour)
Over six hours, day rates charged. Oarsmen:	
Per hour	0
Per day	
Boat rental and services of oarsmen and motor boat and attendants' time commences from the moment of leaving the dock until return.	
FISHING TACKLE.	
Outfit, consisting of rod, reel, line, and landing net, per day	0
I make acceptated total act regular prices, according to quarty	

PRINCIPAL POINTS OF INTEREST.

POINTS ON CIRCULAR TOUR.

Points of interest and distances on circular tour from Gardiner, Mont., north entrance.

Name.	Distance between points.	Total dis- tance from Gardiner.	Altitude above sea level.	Remarks.
Gardiner	Miles.	Miles.	Feet. 5,300	Terminus of branch line of Northern Pacific R. R.; entrance arch. Campers register at soldier station. Guides, horses, outfit, and supplies may be purchased in town. Fair camping place near town. Road follows Gardiner River. No camps allowed between Gardiner and Fort Yellowstone.
Mammoth Hot Springs Fort Yellowstone, Mammoth Hotel.	5	5	6, 264	Large and beautiful hot springs and formations (see p. 23). Headquarters of troops stationed in the park, U. S. commissioner's office, post office, and stores where supplies, curios, etc., may be obtained. Small herd of tame buffalo may be seen 1 mile south. Good camping place near buffalo corral. For side trips see pp. 14-22.
Hoodoos and Silver Gate.	3	8	7,000	Fine scenery and difficult road building.
Golden Gate and Rus- tic Falls (70 feet).	1	9	7,245	Bunsen Peak on east. Beautiful scenery and remarkable road building. Entrance to Swan Lake Valley. Fishing for brook trout in Glen Creek. Camps not permitted, account water supply for Fort Yellowstone.
Swan Lake. Wylie Camp. Willow Park Apollinaris Spring. Obsidian Cliff. Beaver Lake.	$\begin{array}{c} 1 \\ 1 \\ 3 \\ 1 \\ 2 \\ \frac{1}{2} \end{array}$	10 11 14 15 17 17 <u>1</u>	7,256 7,300 7,300 7,300 7,350 7,315	From Wylie Camp south to Apollinaris Spring excellent camping places are frequent and the streams along the road abound in brook trout. A cliff composed of shining black glass. Many beaver dams. Fair camping place about
Roaring Mountain Twin Lakes Bijah Spring Fryingpan Norris Geyser Basin; hotel lunch station.	$\frac{3}{1}$ $\frac{1}{2}$ $\frac{1}{2}$	20½ 21 22 23 25	7,550 7,513 7,500 7,500 7,470	1 mile south of Beaver Lake. Powerful steam vent. 2 ponds of a peculiar color, one blue, one green. Fair camping place south of Bijah Spring. Hot spring. See p. 23. Soldier station. Good camping place on canyon road near junction of roads. Route lies down Gibbon River from Norris Basin. Good fishing for rainbow trout in the river.

Points of interest and distances on circular tour from Gardiner, Mont., north entrance—Continued.

Name.	Distance between points.	Total dis- tance from Gardiner.	Altitude above sea level.	Remarks.
	Miles.	Miles.	Feet.	
Elk Park	1 1	27 28 29	7,450 7,315 7,350	Good camping places.
Gibbon Canyon Beryl Spring Soda and Iron Springs Gibbon Falls (80 feet)	1 3	30 33 33 <u>1</u>	7, 296 7, 100 7, 000	Hot spring. Cold spring.
Canyon Creek Gibbon lunch station	1 1 2	34 35	6,910	Good camping place. Road to the west leads to western entrance.
(Wylie). Cascades of Firehole River.	4½	391	7,092	Road on west from western entrance. Good camping places along the Firehole River a mile before reaching Soldier station. Good fishing for eastern brook, Loch Leven, Von Behr, native and rainbow trout, and whitefish.
Nez Perce Creek Lower Geyser Basin; Fountain Hotel.	$\frac{3\frac{1}{2}}{2}$	43 45	7,150 7,240	Benr, native and rainbow trout, and whitensh. Sordier station. See p. 23. Good fishing in Firehole River and adjacent small streams. Good camp ½ mile east of Soldier station on Nez Perce Creek, 2 miles west on Sentinel Creek, and toward Upper Basin on old road about 1 mile. For side trips see p. 22.
Excelsior Geyser	3	48	7,233	Good fishing. Good camping place about ½ mile south.
Biscuit Basin Upper Geyser Basin; Old Faithful Inn; Wylie Camp.	3	51 54	7,300 7,330	Good fishing and good camping place. See p. 24. See p. 24. Soldier station; general store; photograph shop. Good fishing in Firehole River and branches. Good camp at Riverside Geyser, and about † mile south on road to Thumb.
Kepler Cascade Lone Star Road	2 1½	56 57 <u>1</u>	7,550 7,600	For side trips see p. 22. Lone Star Geyser 3 mile south of main road. Plays for 10 minutes at intervals of 40 minutes; height, 40 to 60 feet. Good fishing and excellent camp sites in the vicinity.
Continental Divide De Lacy Creek Shoshone Point Continental Divide	1	$62\frac{1}{2}$ $63\frac{1}{2}$ $64\frac{1}{2}$ $69\frac{1}{2}$	8,240 7,850 8,000 8,345	Good camping place. Fine view of Tetons and Shoshone Lake.
Lake View Duck Lake	10 01	72	7,850	Good fishing for native trout.
Thumb of Yellowstone Lake; hotel lunch station; Wylie lunch station.	1	73	17,741	Soldier station. Small geysers, hot springs, and paint pots. Tourists can take boat to Lake Hotel, for which an additional charge is made. Road from Jackson Hole joins main belt line here. Fishing for native trout in lake. Camping place 4 mile west on Upper Basin Road and 2 miles toward Lake Hotel. For side trips see p. 22.
Arnica Creek Natural bridge	51	781	7,750	Camp site. (Camp site; other camps about 13½ and 15 miles
Bridge Creek Yellowstone L a k e Hotel, Wylie Camp.	6 4½	84½ 89	17,741	from Thumb. Soldier station; general store. Fishing in lake from shore or boats.
	1	90	7,800	For side trips see p. 22. Road to east for Cody, Wyo.
Lake outlet		96½ 97	7,800 7,705 7,700 7,600	From a point about 2 miles north of the lake outlet good camping places are found as far as Alum Creek; also good fishing for native trout.
Alum Creek. Grant Canyon of the Yellowstone River; Canyon Hotel; Wylie Camp.	5 3	102 105	7,650 7,850	Soldier station. Upper falls of Yellowstone River, 109 feet; lower falls, 308 feet. Fair camping places across concrete bridge above upper falls and in the vicinity of the soldier station. Fishing in Yellowstone River and Cascade Creek. Branch road to Mount Washburn leaves main belt line at Canyon Junction, leading past the new Canyon Hotel. For side trips see p. 22.
Virginia Meadows	9	114	7, 765	Good camping place and good fishing for eastern brook trout.
Virginia Cascade Norris Geyser Basin Mammoth Hot Springs. Gardiner	1 3 20 5	115 118 138 143	7,500 7,470 6,264 5,300	Fishing for rainbow trout below the cascade. See p. 11. See p. 11.

¹ Altitude of water surface.

Points of interest and distances between Canyon Hotel and Mammoth Hot Springs via Mount Washburn and Tower Falls.

Name.	Distance between points.	Distance from Canyon Hotel.	Altitude.	Remarks.
li .	Miles.	Miles.	Feet.	
Canyon Hotel	2/210001	Zizzeco.	7,850	Road usually not open until July 1.
Dunraven cut-off	7	7	8,800	Good camping place; route via Dunraven cut-off is 3 miles shorter than route over top of mountain here given.
Top of Mount Wash- burn.	4	11	10,000	Fine view from top on clear day, including Yellowstone Lake, Tetons, and high moun- tains in all directions.
Tower Falls Road	3	14	8,650	
Tower Falls (132 feet)	$6\frac{1}{2}$	$20\frac{1}{2}$	6, 400	Beautiful scenery; fine fishing for native trout in Yellowstone River; good camping place.
Soldier station, Wylie permanent camp.	2	$22\frac{1}{2}$	6, 150	Good camping place.
Petrified trees	1	231	6,500	Do.
Blacktail Deer Creek	$11\frac{1}{2}$	35	6,550	Good fishing for native and Rainbow trout; trail for third canyon of the Yellowstone, 3 miles; good camping place.
Lava Creek, Undine Falls (60 feet).	3	38	6, 400	Good fishing for native and Eastern brook trout; good camping place.
Mammoth Hot Springs.	5	43	6, 264	8

Points of interest and distances from Yellowstone, Mont., western entrance.

Name. Distarbetweepoint		Distance from Yellow- stone.	Altitude above sea level.	Remarks.		
Yellowstone, Mont	Miles.	Miles.	Feet. 6,676	Terminus of branch line of Oregon Short Line Ry. Guides, outfits, and supplies for park		
Riverside Camp (Wylie). Soldier station Junction of Gibbon and Firehole Rivers.	2 1 10	2 3 13	6, 550 6, 550 6, 700	trips may be secured here. Good camping places are found at following distances from Yellowstone: 3 miles, 7½ miles, 12 miles, and 13 miles. Fine fishing for Grayling, whitefish; native Eastern brook, Loch Leven, Vohm Behr, and Rainbow trout in		
Canyon Creek; Gibbon lunch station(Wylie). (For distances and points of interest from Gibbon lunch station, see p. 12.)	4	17	6,910	Madison, Gibbon, and Firehole Rivers. Good camping place.		
Yellowstone to Cas- cades of the Firehole River direct via road up Firehole River.	15½	15½	7,092			
Lower Geyser Basin, Fountain Hotel. (For distances and points of interest from Fountain Hotel, see p. 12.)	5½	21	7,240			

Points of interest and distances from Cody, Wyo., via eastern entrance.

Place.	Distance between points.		Altitude above sea level.	Remarks.
Cody, Wyo	Miles.	Miles.	Feet. 5,000	Terminus of branch line of Chicago, Burlingtor & Quincy R. R. Guides, outfits, and camping supplies may be purchased in town. Roac leads over high pass and usually not open before July 1.
Eastern entrance	63	63	7,000	Soldier station; good camping place 1 mile west
Sylvan Pass	8	71	8,650	Beautiful mountain scenery.
Sylvan Lake Cub Creek	1	72	8,350	Good camping place.
Cub Creek	1 4 7	76	8,500	Good camping place; also 4 miles farther west.
Turbid Lake	7	83	7,900	Lake with steam vents in bottom. Good camping place; also 3 miles farther west.
Lake Hotel (For distances and points of interest from Lake Hotel, see p. 12.)	8	91	1 7,741	

1 Altitude of water surface.

Points of interest and distances from Jackson, Wyo., via southern entrance.

Name.	Distance between points.	Distance from Jackson.	Altitude above sea level.	Remarks.
Jackson	Miles.	Miles.	Feet.	
Southern entrance	25	25	6,850	Soldier station; good camping place; mouth of Snake River. Fishing in Lewis Lake and River, and in Snake River, for whitefish, native, Loch Leven, and Lake trout.
Lewis Falls (upper, 80 feet; lower, 50 feet).	9	34	7,750	Camping place, 1 mile south.
Lewis Lake, south end.	2	36	17,720	Camping place 2 miles north,
Trail to Shoshone Lake.	5	41	7,800	Camping place 1 mile south.
Continental Divide	21	431	8,000	
Thumb of Lake (For points of interest and distance from Thumb of Lake, see p. 12.)	21 41 21	48	17,741	Camping place 1½ miles south.

¹ Altitude of water surface.

SIDE TRIPS FROM MAMMOTH HOT SPRINGS.

Around Bunsen Peak.—Twelve miles by a one-way wagon road, south from Mammoth. Passes buffalo corral, climbs side of Bunsen Peak to Middle Gardiner Canyon (second canyon in size in the park), Sheepeater Cliffs in canyon sides, along the canyon with view of Osprey Falls (150 feet), and returning via Golden Gate and main Guide not necessary.

Buffalo herds (tame).—Small show herd is kept in summer in corral 1 mile south from Mammoth Hotel, on road to Bunsen Peak. Guide not needed. Formation surreys from hotel drive to this corral. Main herd is kept at buffalo farm on Lamar River, 30 miles east from Mammoth, on stage road to Cooke. One hundred and thirty-nine head of pure-blood bison under fence or herder. No accommodations nearer than Wylie Camp Roosevelt (12 miles),

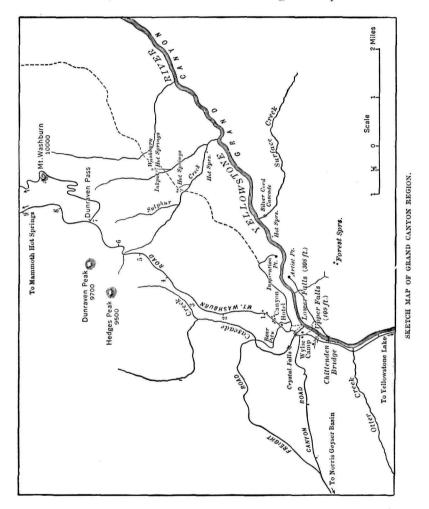
but plenty of good camping places and fine fishing.

Tower Falls (132 feet).—Near mouth of Tower Creek, 20 miles southeast from Mammoth, on road to Mount Washburn. Beautiful falls and mountain scenery. Guide not needed. Accommodations at Wylie Camp Roosevelt, 21 miles from Tower Falls.

Petrified stumps.—Seventeen miles by wagon road and three-fourths mile on side road southeast en route to Tower Falls. needed.

Specimen Ridge and Fossil Forest.—Twenty-four miles southeast by wagon road, thence 4 miles by trail. Guide needed.

Northeastern portion of park.—A trip could be made to include the petrified trees, Tower Falls, main buffalo herd, Specimen Ridge and Fossil Forest, and some of the best fishing in the park in Yellow-

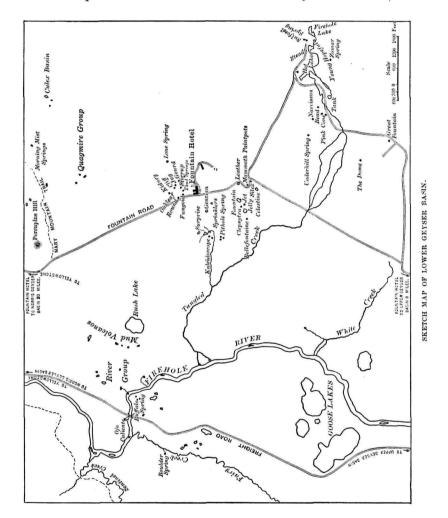


stone River in vicinity of Tower Falls, Lamar River, and Slough Wylie permanent camp (Roosevelt) on Lost Creek, 2½ miles northwest from Tower Falls (18 miles from Mammoth), provides accommodations after Mount Washburn Road is opened in the Wagon road to Tower Falls and Soda Butte, but other points would have to be reached by trail, and guide and pack train would be needed. Excellent camping places in abundance on this trip.

MOUNTAIN CLIMBING.

Electric Peak (10,800 feet). Ten miles northwest by trail; 8 miles may be done with saddle horse, balance on foot, and a portion of it is difficult and somewhat dangerous. Highest mountain in the park. Fine view on all sides. Guide needed.

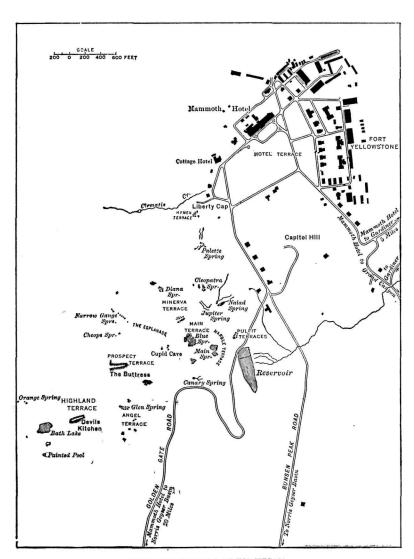
Bunsen Peak (9,100 feet). —South 7 miles. Saddle horse can be ridden to top. Fine view. Guide not necessary.



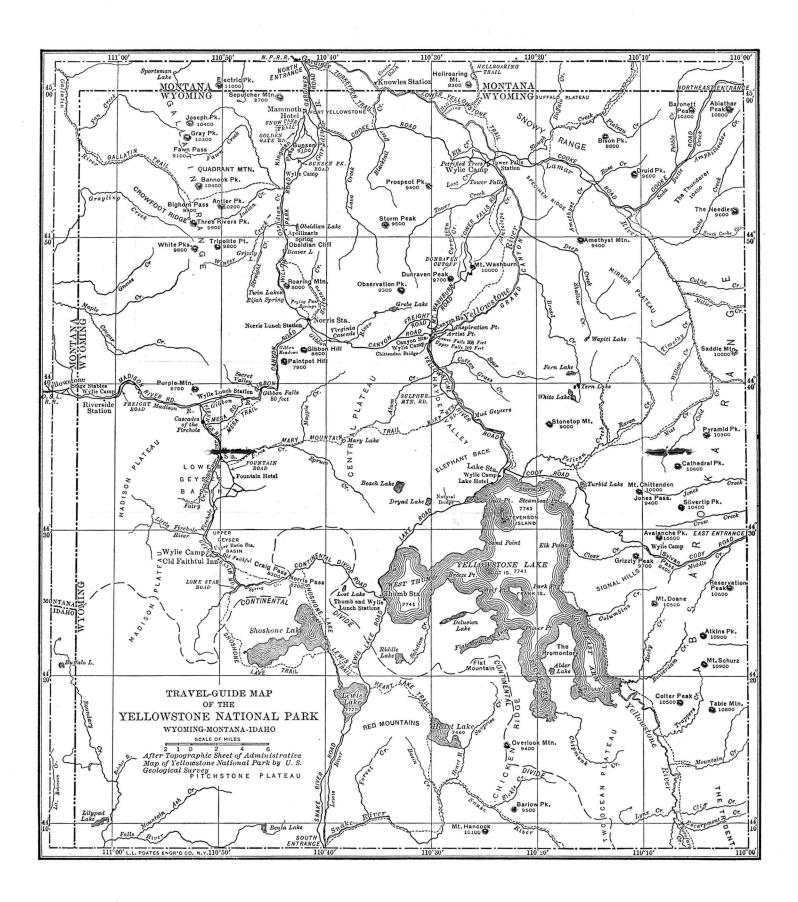
Mount Everts (7,900 feet).1—Northeast. Saddle horse can be ridden up from either end, over the top, and down the other end; total distance about 15 miles. No guide needed.

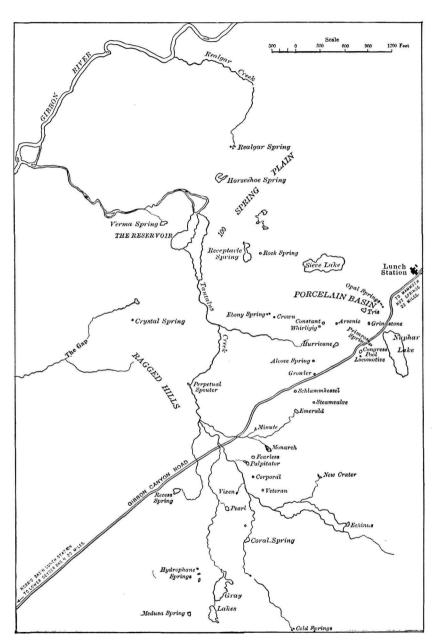
Sepulchre Mountain (9,500 feet). —Seven miles west. Saddle horse can be ridden to top comfortably. Guide needed. Fine view.

¹ There is no drinking water on top of any of these mountains.



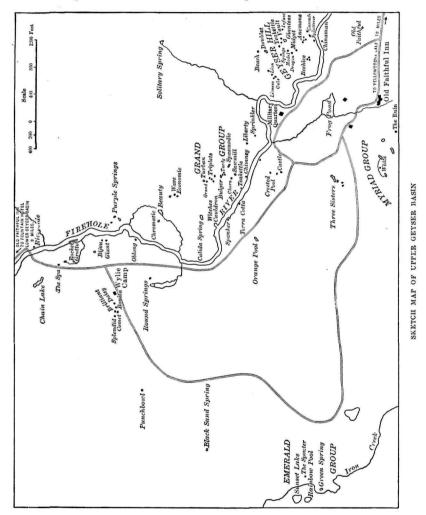
SKETCH MAP OF MAMMOTH HOT SPRINGS:





SKETCH MAP OF NORRIS GEYSER BASIN.

Mount Washburn (10,000 feet).¹—First-class wagon road to top, usually open about July 1. Thirty-two miles from Mammoth Hot Springs via Tower Falls to top, 11 miles from New Canyon Hotel to top. On clear days the view from the top is fine, and the whole route is over a beautiful and interesting road. Advisable to plan to reach the top before noon on account of usual high winds in afternoon. No guide is needed. (See also p. 13.)



Fishing trips.—One-day fishing trips from Mammoth Hot Springs may be made with rig, saddle horse, or even on foot by good pedestrians, as follows: South on main road to Willow Creek, Indian Creek, Upper Gardiner and branches, and Glen Creek, for small eastern brook trout. Distance 4 to 10 miles. East to Lava Creek, 5 miles, for small native or eastern brook trout, or to Blacktail Deer Creek, 8

¹ There is no drinking water on top of any of these mountains.

miles, for small native or rainbow trout. East or northeast to main Gardiner River for whitefish, native, Loch Leven, and eastern brook trout. North, 6 miles to Yellowstone River for whitefish and native trout.

SIDE TRIPS FROM FOUNTAIN HOTEL.

Great Fountain Geyser and Firehole Basin.—One and one-half miles southeast by wagon road. No guide needed. (See also p. 12.)

Twin Buttes and Fairy Falls (250 feet).—Three miles southwest by

trail. No guide necessary.

Fishing.—Good fishing in Firehole River and branches within easy distances of hotel.

SIDE TRIPS FROM OLD FAITHFUL INN.

Shoshone Lake and Geyser Basin.—Four and one-half miles by road via Lone Star Geyser, thence 8 miles via trail. Union Geyser 100 feet high; Bronze Geyser. Guide needed. Fishing for Loch Leven, lake and eastern brook trout.

SIDE TRIPS FROM THUMB LUNCH STATION.

Jackson Hole and Lake.—Forty-eight miles (25 outside of park). Lewis Lake and Falls. (See p. 14.) Teton Mountains in Jackson Hole; Grand Teton, 13,691 feet. Fishing for native and lake crout. Wagon road.

Heart Lake and Geyser Basin.—Twelve miles south by trail. Guide

needed. Fishing for lake and native trout.

SIDE TRIPS FROM LAKE HOTEL.

Natural Bridge.—Four miles southwest by wagon road. On main road but not seen from steamboat.

Steamboat Spring.—Four miles northeast by boat.

Fishing.— ishing for native trout on Yellowstone Lake.

SIDE TRIPS FROM CANYON HOTEL.

Point Lookout.—One mile, down north side of canyon by wagon road.

Inspiration Point.—Three miles, down north side of canyon by wagon road.

Artist Point.—Three and one-half miles down south side of canyon

b wagon road.

Mount Washburn to top (10,000 feet).—Eleven miles northeast by

wagon road. (See pp. 13 and 21.)

Fishing Hole.—In Yellowstone River at bottom of canyon, 7 miles down river by trail from hotel. Excellent fishing for native trout. Guide needed.

feet; remarkable coloring. About 100 feet in diam-

eter.

TERRACES, SPRINGS, AND GEYSERS.

Terraces, springs, etc., at Mammoth Hot Springs.

Boiling River (underground outlet of the | Important springs—Continued. hot springs located on Gardiner River, 1½ miles north from Fort Yellowstone). McCartneys Cave (bottomless cave in formation on parade ground at Fort Yellowstone). Liberty Cap (extinct hot-spring cone, about 40 feet high). Cupids Cave. The Buttress. Lookout Point. Devils Kitchen. White Elephant. Stygian Cave (poisonous gases). Important springs: Palette. Cleopatra. Jupiter. Naiad.

Main.

Turquoise Spring.....

Diana. Blue. Canary. Glen. Narrow Gauge. Cheops. Orange. Bath Lake. Painted Pool. Important terraces: Hymen. Main. Minerva. Pulpit. Marble. The Esplanade. Prospect. Angel. Highland.

Prominent geysers and springs.

[Based upon observations, season 1912.]

NORRIS BASIN

		NORKIS BA	ASIN.	
Name. Height of eruption. Feet. Feet. Black Growler 15-35 Constant 15-36 Congress Pool Echinus Echinus 30 Emerald Pool 6-8 Hurricane 6-8 Minute Man 8-15 Monarch 100-125 New Crater 6-25 Valentine 60		Duration of eruption.	Interval between eruptions.	Large boiling spring. Beautiful hot spring. Continuous. Sometimes quiet for long periods.
		3 minutes	20 to 55 seconds	
		LOWER BA	ASIN.	
Black Warrior White Dome. Clepsydra. Fountain Geyser. Firehole Lake. Great Fountain Mammoth Paint Pots. Excelsior. Prismatic Lake.	75–150 200–300	1 minute. Few seconds. 45 to 60 minutes. About ½ hour.	40 to 60 minutes	Small but interesting f geysers. Seldom in eruption. Peculiar phenomena. Spouts 4 or 5 times. Basin of boiling clay. Ceased playing in 1888. Size about 250 by 400

Prominent geysers and springs-Continued.

UPPER BASIN.

Name.	Height of eruption.		Interval between eruptions.	Remarks.	
Feet. rtemisia 50 tomizer 2 ee Hive 200			24 to 30 hours	Varies.	
Castle	50-75	30 minutes	intervals following Giantess. 24 to 26 hours	Quiet 4 to 7 days then plays 3 or 4 times at intervals stated.	
Cub, large Cub, small			With lioness		
Daisy Economic Fan Giant Giantes Grand Grotto Jewel Lion	20 15-25 200-250 150-200	Few seconds. 10 minutes 60 minutes 12 to 36 hours 40 to 60 minutes. Varies About 1 minute.		Seldom in eruption. Usually 2 to 7 times a	
Lioness	80-100	About 10 minutes	do	day. Played once in 1910 and once in 1912.	
Mortar Oblong. Old Faithful	30 20-40 120-170	Several minutes	2 hours. 8 to 12 hours. 60 to 85 minutes.	Usual interval 70 min-	
Riverside	4	1 to 2 hours 2 minutes 10 minutes	About 7 hours. Irregular. 2 to 3 hours. Irregular.	utes. Very regular. Not played since 1892. Plays intermittently for 24 hours following Grand.	

Notable springs:

Black Sand Spring (about 55 by 60 feet).

Chinaman. Emerald Pool. Notable springs—Continued:

Morning Glory.
Punch Bowl.
Sponge.
Sunset Lake.

NOTES ON FISH IN YELLOWSTONE PARK.

Blackspotted or cut-throat trout (Salmo Mykiss).—Native to many park waters. Without doubt reached Upper Yellowstone and Yellowstone Lake from Pacific slope through Two-Ocean Pass during high water in spring.

Whitefish (Coregonus clupeiformis).—Native to Yellowstone River below falls, and Gardiner, Madison, and Gallatin Rivers. Planted

in Yellowstone River above the falls.

Grayling (Thymallus Ontariensis Montanus).—Native to Madison and Gallatin Rivers and branches.

Eastern brook trout (Salvelinus fontanalis).—Planted. Loch Leven Trout (Salmo Trutti levensis).—Planted.

Von Behr (German brown) trout (Salmo Fario).—Planted.

Rainbow trout (Salmo Irideus).—Planted.

Lake trout (Cristivomer Namaycush).—Planted.

Land-locked salmon and black bass have been planted in the park but apparently did not thrive, as they have never been heard from since they were planted.

MAPS.

A topographic map of the park, on the scale of 2 miles to the inch, may be purchased from the Director of the United States Geological Survey, Washington, D. C., for 40 cents.

Maps of the areas north, east, and south of the park may be obtained from the Director of the United States Geological Survey, Washington, D. C. The maps should be ordered by names of atlas sheets given below:

Area north of park: Livingston sheet, scale 4 miles to the inch. Price 10 cents. Area east of park: Crandall and Ishawooa sheets, scale 2 miles to the inch. Price 10 cents each.

Area south of park: Mount Leidy and Grand Teton sheets, scale 2 miles to the inch. Price 10 cents each.

LITERATURE.

GOVERNMENT PUBLICATIONS.

DEPARTMENT OF THE INTERIOR.

The following publications may be obtained from the Secretary of the Interior:

Annual Report of the Acting Superintendent of the Yellowstone National Park.

Annual administrative report. Contains no descriptive matter.

General information regarding Yellowstone National Park. (This circular.)

SUPERINTENDENT OF DOCUMENTS.

The following publications may be purchased from the Superintendent of Documents, Government Printing Office, Washington, D. C.:

Geological history of the Yellowstone National Park, by Arnold Hague; 24 pp., illustrated. 10 cents.

Geysers, by Walter Harvey Weed; 32 pp., illustrated. 10 cents.

Explains the cause of the geysers and compares the Yellowstone geysers with those in Iceland and New Zealand.

The Superintendent of Documents has for sale the Government reports giving accounts of the early explorations and surveys in the park. A detailed price list may be obtained on application.

GEOLOGICAL SURVEY.

The following publications may be obtained from the Director of the United States Geological Survey, Washington, D. C.:

Monograph 32, part 2, Descriptive geology, petrography, and paleontology of the Yellowstone National Park. \$2.45.

Atlas of the geology of the Yellowstone National Park, 27 sheets folio. \$3.75.

Geologic Folio No. 30, containing topographic and geologic maps of the park and a description of the geology. 5 cents. (The stock of Geologic Folios has been slightly damaged by smoke and water, and the old stock is being sold at the reduced price of 5 cents each.

Bulletin 395, Radioactivity of the thermal waters of the Yellowstone National Park. Free.

BOOKS.

[BARNES, O. P.] Fly fishing in wonderland, by Klahowya [1910], 56 pp., illustrated. Barth, Theodor. Amerikanisch Eindruck. 1907. 117 pp.

Yellowstone on pp. 62-67.

CAMPBELL, REAU. Complete guide and descriptive book of the Yellowstone Park. 1909. 173 pp., illustrated.

CHITTENDEN, H. M. The Yellowstone National Park, historical and descriptive. 1895. 397 pp., illustrated.

CRONAU, RUDOLF. Im wilden Westen. 1890. 383 pp., illustrated.

Yellowstone on pp. 163-165; Yosemite on pp. 259-275.

Dunraven, Earl of. The Great Divide: Travels in the Upper Yellowstone in summer of 1874. 1876. 377 pp., illustrated.

A good description of the park in its early days.

Finck, H. T. Pacific coast scenic tour. 1890. 309 pp., illustrated.

Yellowstone on pp. 279-293; Yosemite on pp. 81-107; Crater Lake on pp. 157-158; Mount Rainier

The eleven eaglets of the West. London, 1906. 362 pp.

An account of travels in 11 Western States and Territories. Yellowstone Park is described on pp. 173-195. Contains also descriptions of Yosemite, Mount Rainier, and Crater Lake.

GUNNISON, ALMON. Rambles overland. 1884. 245 pp.

Yellowstone on pp. 27-82; Yosemite on pp. 125-156.

HARRISON, CARTER H. A summer's outing and the old man's story. 1891. 297 pp., illustrated.

Yellowstone on pp. 15-81.

HAYNES, JACK E. Guide to the Yellowstone National Park. 141 pp., illustrated. HERBERTSON, F. D. and A. J. Descriptive geography from original sources: North America. 1901. 252 pp.

Yellowstone on pp. 171-180; Yosemite on pp. 194-196; Crater Lake on pp. 166-167.

Hesse-Wartegg, Ernest von. Nord-Amerika: Seine Städte und Naturwunder. 3 vols. 1880.

Yellowstone in vol. 2, pp. 228-242; Yosemite in vol. 2, pp. 130-144.

Hirschberg, Julius. Von New York nach San Francisco: Tagebuchblätter. 1888. 276 pp.

Yellowstone on pp. 77-111; Yosemite on pp. 190-201.

HOLMES, BURTON. Travelogues, vol. 6: The Yellowstone National Park; the Grand Canyon of the Arizona; Moki Land. 1908. 336 pp., illustrated. Yellowstone on pp. 5-112.

Johnson, Clifton. Highways and byways of the Rocky Mountains. 1910. 279 pp., illustrated.

Yellowstone on pp. 215-232.

KIPLING, RUDYARD. American notes.

Issued in several editions. One chapter contains an account of a trip through the Yellowstone Park in 1889.

Kuntzemüller, A. Das Wunderland am Yellowstone. 1908. 40 pp.

LANGFORD, N. P. Diary of the Washburn expedition to the Yellowstone and Firehole Rivers in the year 1870. [1905.] 122 pp., illustrated.

A good account of one of the early expeditions to the park.

LECLERCQ, JULES. La Terre des marveilles: Promenade au parc national de l'Amerique du Nord. 1886. 384 pp., illustrated.

Morris, Mrs. James Edwin. A Pacific coast vacation. 1901. 255 pp., illustrated. Yellowstone on pp. 236-255; Yosemite on pp. 191-209.

Muir, John. Our national parks. 1909. 382 pp., illustrated.

Yellowstone on pp. 37-75; Yosemite on pp. 76-267; Sequoia and General Grant on pp. 268-330.

Murphy, John. Rambles in northwestern America, 1879, 359 pp. Yellowstone on pp. 209-222.

Murphy, Thomas D. Three wonderlands of the American West. 1912. 180 pp. Yellowstone on pp. 1-58; Yosemite on pp. 59-109. Contains color reproductions of Moran's

paintings. Peck, J. K. The seven wonders of the new world. 1885. 320 pp.

PIERREPONT, EDWARD. Fifth Avenue to Alaska. 1884. 329 pp. Yellowstone on pp. 237-311; Yosemite on pp. 58-68.

Yellowstone on pp. 71-114; Yosemite on pp. 205-244, 284-320.

PORTER, T. C. Impressions of America. 1899. 241 pp., illustrated. Yellowstone on pp. 24-93; Yosemite on pp. 108-142.

PRICE, ROSE LAMBERT. A summer on the Rockies. 1898. 280 pp. Yellowstone on pp. 166-217.

RICHARDSON, JAMES. Wonders of the Yellowstone. 1873. 256 pp., illustrated.

ROBERTS, EDWARD. Shoshone and other Western wonders. 1888. 275 pp. Yellowstone on pp. 202-245.

RYDBERG, PER AXEL. Catalogue of the flora of Montana and the Yellowstone National Park. Memoirs of the New York Botanical Garden, vol. 1. 1900. 492 pp., map.

Senn, Nicholas. Our national recreation parks. 1904. 147 pp., illustrated. Yellowstone on pp. 17-92; Yosemite on pp. 93-147. Contains notes on fauna in addition to descriptive matter.

Sessions, Francis C. From Yellowstone Park to Alaska. 1890. 186 pp., illustrated. Yellowstone on pp. 9-39.

SMITH, F. DUMONT. Book of a hundred bears. 1909. 233 pp., illustrated. STANLEY, EDWIN J. Rambles in wonderland or up the Yellowstone and among the geysers and other curiosities of the National Park. 1878. 179 pp., illustrated.

STODDARD, JOHN L. Lectures, vol. 10. Southern California, Grand Canyon of the Colorado River, Yellowstone National Park. 1911. 304 pp., illustrated. Yellowstone on pp. 207-304.

STRAHORN, C. A. Fifteen thousand miles by stage. 1911. 693 pp., illustrated. Early days in Yellowstone, pp. 254-286.

SYNGE, GEORGINA M. A ride through Wonderland. 1892. 166 pp., illustrated.

Taylor, Charles Maus, Jr. Touring Alaska and the Yellowstone. (1901.) 388 pp., illustrated.

Yellowstone on pp. 283-388.

TISSANDIER, ALBERT. Six mois aux Etats Unis [1886], 298 pp. Yellowstone on pp. 170-188; Yosemite on pp. 139-165.

Tomlinson, Everett Titsworth. Four boys in the Yellowstone. [1906.] 399 pp., illustrated.

WILEY, WILLIAM H. and SARA K. The Yosemite, Alaska, and the Yellowstone. [1893] 230 pp., illustrated.

Yellowstone on pp. 205-230.

Wingate, George W. Through the Yellowstone Park on horseback. 1886. 250 pp., illustrated.

Contains notes on the fauna and flora.

MAGAZINE ARTICLES.

AMERICAN ARCHITECT, vol. 13 (Mar. 7, 1883), p. 130. The Yellowstone National Park, by C. F. Driscoll.

AMERICAN CIVIC ASSOCIATION (Washington, D. C.) National Parks, 32 pp.

Contains "National Parks, the need of the future," by James Bryce; Address on a Bureau of National Parks, by W. H. Taft; Address on a Bureau of National Parks, by Walter L. Fisher; "Are National Parks worth while," by J. H. McFarland.

AMERICAN GEOLOGIST, vol. 20 (September, 1897), pp. 159-167. Some geological cause of the scenery of Yellowstone National Park, by A. R. Crook.

AMERICAN HOMES AND GARDENS, vol. 2 (June, 1906), pp. 392-395. The animals of Yellowstone Park, by K. L. Smith.

AMERICAN INSTITUTE OF MINING ENGINEERS, TRANSACTIONS, vol. 16 (1888), pp. 46-49. Engineering relations of the Yellowstone Park, by T. B. Comstock.

-vol. 16 (1888), pp. 783-803. Geological history of the Yellowstone National Park, by Arnold Hague.

- vol. 17 (1889), pp. 449-453. Soaping geysers, by R. W. Raymond.

AMERICAN JOURNAL OF SCIENCE, 3d s., vol. 3 (February and March, 1872), pp. 105-115, 161-176. The hot springs and geysers of the Yellowstone and Firehole Rivers, by F. V. Hayden.

- 3d s., vol. 3 (April, 1872), pp. 294-297. The Yellowstone National Park, by F. V. Hayden.

-4th s., vol. 1 (June, 1896), pp. 445-456. The age of the igneous rocks of the Yellowstone National Park, by Arnold Hague.

- AMERICAN JOURNAL OF SCIENCE, 4th s., vol. 2 (July, 1896), pp. 51-58. The Tertiary floras of the Yellowstone National Park, by F. H. Knowlton.
- ——4th s., vol. 5 (May, 1898), pp. 323-333. Some conditions affecting geyser eruption, by T. A. Jaggar, jr.
- American Naturalist, vol. 7 (May, 1873), pp. 279-290. The geysers of Montana.
- vol. 8 (February and March, 1874), pp. 65-79, 155-167. The Yellowstone National Park, by T. B. Comstock.
- vol. 15 (March, 1881), pp. 203-208. Glacial phenomena in the Yellowstone Park, by W. H. Holmes.
- vol. 19 (November, 1885), pp. 1037–1040. The present condition of the Yellowstone National Park, by E. D. Cope.
- Annals of the American Academy of Political and Social Science, vol. 35 (March, 1910), pp. 1-12. The parks and recreation facilities in the United States, by John Nolen.
- ——vol. 35 (March, 1910), pp. 15-24. Our national parks and reservations, by W. M. Curtis.
- Appleton's Journal, vol. 26 (December, 1881), pp. 538-547. The geysers of the Yellowstone, by Archibald Geikie.
- Around World, vol. 1 (July-August, 1894), pp. 148-151. The Yellowstone Park, by D. S. Jordan.
- ART JOURNAL, vol. 40 (1888), pp. 193-198, 325-328. The American wonderland, by Edward Roberts.
- ATLANTIC MONTHLY, vol. 81 (January, 1898), pp. 15–28. The wild parks and reservations of the West, by John Muir.
- ——vol. 81 (April, 1898), pp. 509-522. The Yellowstone National Park, by John Muir.
- BULLETINS DE LA SOCIÉTÉ DE GÉOGRAPHIE DE PARIS, 6th series, vol. 12 (August, 1876), pp. 196–199. Explorations faites sous la direction du Dr. Hayden pendant l'année 1875 dans les Territoires de l'Ouest des Etats-Unis.
- Bulletins de la Société Royale Belge de Géographie, vol. 9 (July-August, 1885), pp. 393-422. Les Geysirs de la terre des merveilles, by J. Leclercq.
- Century, n. s., vol. 44 (August, 1903), pp. 481-491. A place of marvels: Yellowstone Park as it now is, by R. S. Baker.
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RULES AND REGULATIONS.

REGULATIONS APPROVED MAY 27, 1911.

The following rules and regulations for the government of the Yellowstone National Park are hereby established and made public pursuant to authority conferred by section 2475, Revised Statutes, United States, and the act of Congress approved May 7, 1894:

1. It is forbidden to remove or injure the sediments or incrustations around the geysers, hot springs, or steam vents; or to deface the same by written inscriptions or otherwise; or to throw any substance into the springs or geyser vents; or to injure or disturb in any manner or to carry off any of the mineral deposits, specimens, natural curiosities, or wonders within the park.

2. It is forbidden to ride or drive upon any of the geyser or hotspring formations, or to turn stock loose to graze in their vicinity.

3. It is forbidden to cut or injure any growing timber. Camping parties will be allowed to use dead or fallen timber for fuel. When felling timber for fuel, or for building purposes when duly authorized, stumps must not be left higher than 12 inches from the ground.

4. Fires shall be lighted only when necessary, and completely extinguished when not longer required. The utmost care must be exercised at all times to avoid setting fire to the timber and grass.

- 5. Hunting or killing, wounding, or capturing any bird or wild animal, except dangerous animals when necessary to prevent them from destroying life or inflicting an injury, is prohibited. outfits, including guns, traps, teams, horses, or means of transportation used by persons engaged in hunting, killing, trapping, ensnaring, or capturing such birds or wild animals, or in possession of game killed in the park under other circumstances than prescribed above, will be forfeited to the United States, except in cases where it is shown by satisfactory evidence that the outfit is not the property of the person or persons violating this regulation, and the actual owner thereof was not a party to such violation. Firearms will only be permitted in the park on written permission from the superintendent thereof. On arrival at the first station of the park, guard parties having firearms, traps, nets, seines, or explosives will turn then over to the sergeant in charge of the station, taking his receipt for them. They will be returned to the owners on leaving the park.
- 6. Fishing with nets, seines, traps, or by the use of drugs or explosives, or in any other way than with hook and line is prohibited. Fishing for purposes of merchandise or profit is forbidden. Fishing may be prohibited by order of the superintendent of the park in any of the waters of the park, or limited therein to any specified season of the year, until otherwise ordered by the Secretary of the Interior.
- 7. No person will be permitted to reside permanently or to engage in any business in the park without permission, in writing, from the Department of the Interior. The superintendent may grant authority to competent persons to act as guides and revoke the same in his discretion, and no pack trains shall be allowed in the park unless in charge of a duly registered guide.

8. The herding or grazing of loose stock or cattle of any kind within the park, as well as the driving of such stock or cattle over the roads of the park, is strictly forbidden, except in such cases where authority therefor is granted by the Secretary of the Interior. It is forbidden

to cut hay within the boundaries of the park excepting for the use of the wild game and such other purposes as may be authorized by the Secretary of the Interior or the park superintendent.

9. No drinking saloon or barroom will be permitted within the

limits of the park.

10. Private notices or advertisements shall not be posted or displayed within the park, except such as may be necessary for the convenience and guidance of the public, upon buildings on leased ground.

11. Persons who render themselves obnoxious by disorderly conduct or bad behavior, or who violate any of the foregoing rules, will be summarily removed from the park, and will not be allowed to return without permission, in writing, from the Secretary of the Interior or the superintendent of the park.

12. It is forbidden to carve or write names or other things on any of the mileposts or signboards or any of the platforms, seats, railings,

steps, or any structures or any tree in the park.

Any person who violates any of the foregoing regulations will be deemed guilty of a misdemeanor, and be subjected to a fine as provided by the act of Congress approved May 7, 1894, "to protect the birds and animals in Yellowstone National Park and to punish crimes in said park, and for other purposes," of not more than \$1,000, or imprisonment not exceeding two years, or both, and be adjudged to pay all costs of the proceedings.

INSTRUCTIONS APPROVED FEBRUARY 28, 1912.

1. The feeding, interference with, or molestation of any bear or other wild animal in the park in any way by any person not authorized

by the superintendent is prohibited.

2. Fires.—The greatest care must be exercised to insure the complete extinction of all camp fires before they are abandoned. All ashes and unburned bits of wood must, when practicable, be thoroughly soaked with water. Where fires are built in the neighborhood of decayed logs, particular attention must be directed to the extinguishment of fires in the decaying mold. Fire may be extinguished where water is not available by a complete covering of earth, well packed down.

Especial care should be taken that no lighted match, cigar, or cigarette

is dropped in any grass, twigs, leaves, or tree mold.

3. Camps.—No camp will be made at a less distance than 100 feet from any traveled road. Blankets, clothing, hammocks, or any other article liable to frighten teams must not be hung at a nearer distance than this to the road. The same rule applies to temporary stops, such as for feeding horses or for taking languages.

as for feeding horses or for taking luncheon.

Many successive parties camp on the same sites during the season, and camp grounds must be thoroughly cleaned before they are abandoned. Tin cans must be flattened and, with bottles, cast-off clothing, and all other débris, must be deposited in a pit provided for the purpose. When camps are made in unusual places, where pits may not be provided, all refuse must be hidden where it will not be offensive to the eye.

4. Bicycles.—The greatest care must be exercised by persons using bicycles. On meeting a team the rider must stop and stand at side of road between the bicycle and the team—the outer side of the road if on

a grade or curve. In passing a team from the rear the rider should learn from the driver if his horses are liable to frighten, in which case the driver should halt and the rider dismount and walk past, keeping

between the bicycle and the team.

5. Fishing.—All fish less than 8 inches in length should at once be returned to the water with the least damage possible to the fish. Fish that are to be retained must be at once killed by a blow on the back of the head or by thrusting a knife or other sharp instrument into the head. No person shall catch more than 20 fish in one day.

6. Dogs.—Dogs are not permitted in the park.

7. Grazing animals.—Only animals actually in use for purposes of transportation through the park may be grazed in the vicinity of the camps. They will not be allowed to run over any of the formations nor near to any of the geysers or hot springs; neither will they be allowed to run loose within 100 feet of the roads.

8. Formations.—No person will be allowed on any formations after

sunset without a guide.

9. Hotels.—All tourists traveling with the authorized transportation companies, whether holding hotel coupons or paying cash, are allowed the privilege of extending their visit in the park at any of the hotels without extra charge for transportation. However, 24 hours' notice must be given to the managers of the transportation companies for reservations in other coaches.

10. Driving on roads of park.—(a) Drivers of vehicles of any description, when overtaken by other vehicles traveling at a faster rate of speed, shall, if requested to do so, turn out and give the lat-

ter free and unobstructed passageway.

(b) Vehicles in passing each other must give full half of the roadway. This applies to freight outfits as well as any other.

(c) Racing on the park roads is strictly prohibited.

(d) Freight, baggage, and heavy camping outfits on sidehill grades throughout the park will take the outer side of the road while being passed by passenger vehicles in either direction.

(e) In making a temporary halt on the road for any purpose all teams and vehicles will be pulled to one side of the road far enough to leave a free and unobstructed passageway. No stops on the

road for luncheon or for camp purposes will be permitted.

(f) In rounding sharp curves on the roads, like that in the Golden Gate Canyon, where the view ahead is completely cut off, drivers will slow down to a walk. Traveling at night is prohibited except in cases of emergency.

(g) Transportation companies, freight and wood contractors, and all other parties and persons using the park roads will be held liable

for violation of these instructions.

(h) Pack trains will be required to follow trails whenever practicable. During the tourist season, when traveling on the road and vehicles carrying passengers are met, or such vehicles overtake pack trains, the pack train must move off the road not less than 100 feet and await the passage of the vehicle.

(i) During the tourist season pack animals, loose animals, or saddle horses, except those ridden by duly authorized persons on patrol or other public duties, are not permitted on the coach road

between Gardiner and Fort Yellowstone.

(k) Riding at a gait faster than a slow trot on the plateaus near the hotels where tourists and other persons are accustomed to walk

is prohibited.

(1) Mounted men on meeting a passenger team on a grade will halt on the outer side until the team passes. When approaching a passenger team from the rear, warning must be given, and no faster gait will be taken than is necessary to make the passage, and if on a grade the passage will be on the outer side. A passenger team must not be passed on a dangerous grade.

(m) All wagons used in hauling heavy freight over the park roads must have tires not less than 4 inches in width. This order does not apply to express freight hauled in light spring wagons with

single teams.

11. Liquors.—All beer, wine, liquors, whisky, etc., brought into the Yellowstone National Park via Gardiner to be carried over the roads through the reservation to Cooke City, must be in sealed containers or packages, which must not be broken in transit.

12. Miscellaneous.—Automobiles are not permitted in the park.¹ Persons are not allowed to bathe near any of the regularly traveled

roads in the park without suitable bathing clothes.

13. Penalty.—The penalty for disregard of these instructions is

summary ejection from the park.

Notices.—(a) Boat trip on Yellowstone Lake: The excursion boat on Yellowstone Lake plying between the Lake Hotel and the Thumb lunch station at the West Bay is not a part of the regular transportation of the park, and an extra charge is made by the boat company for this service.

(b) Side trips in park: Information relative to side trips in the park and the cost thereof can be procured from those authorized to transport passengers through or to provide for camping parties

in the park; also at the office of the superintendent.

(c) All complaints by tourists and others as to service, etc., rendered in the reservation should be made to the superintendent in writing.

June 3, 1913.

¹ See page 2 for subsequent regulation regarding automobiles.