

Feb. 1932  
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DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

-----Zion----- NATIONAL PARK

FILE NO.

MONTHLY REPORT FOR FEBRUARY

1932

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STEPHEN T. MATHER,  
*Director.*

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
NATIONAL PARK SERVICE

ZION AND BRYCE CANYON NATIONAL PARKS

UTAH

OFFICE OF THE SUPERINTENDENT

P. O. ADDRESS:  
SPRINGDALE, UTAH

March 5, 1932

The Director  
National Park Service  
Washington D. C.

Dear Mr. Director:

The following is my report of activities and conditions in Zion and Bryce Canyon National Parks during the month of February, 1932:

000 General

020 General Weather Conditions

The weather was generally cloudy and stormy from the 1st to 21st, with rain from the 7th to 10th. The rains caused scores of large waterfalls in Zion Canyon, and the river reached a high stage. However, only a small percentage of moisture in the snow in the higher elevations of the Virgin River drainage area was taken off by the rains, and the snows following replaced nearly all that had been taken off. The Big Meadow Bridge seven miles east of the park boundary on the Zion-Mount Carmel Highway was washed out, severing communication by this route. Highway No. 89 has been blocked by snow for about six weeks, and U. S. No. 91 was blocked for a few days in a few places.

There has been a total of 128 inches of snowfall at Bryce Canyon. On the 17th Ranger Cope made a trip through the canyon and found that there were four and one-half feet at the station, four and one-half feet at Ostler Castle, three and one-half feet at Tower Bridge, and two and one-half at the park line. Detailed weather reports for the two parks are attached.

100 Administrative

110 Status of Work

Preliminary estimates for administration, protection and maintenance, and also a few additional items of construction were submitted on February 3. The construction program had been submitted on December 11, and in the estimates submitted this month it was necessary to add several

items, principally for a water system for the new area at Zion, and can baling machines at each park in accordance with recommendations of Sanitary Engineer Hommon. I also corresponded with Mr. Coffman regarding preliminary estimates for forest protection and fire prevention.

#### 121 Inspections by Superintendent

I made frequent inspections of road work and of the tunnel. I went to Cedar City on the afternoon of the 5th, returning the morning of the 6th. On the 12th I examined the Oak Creek Canyon area, with a view to possible developments, and inspected the Springdale water line. On the 19th I met Mr. Madsen, Supervisor of Wild Life in National Parks, and Mr. Newell B. Cook, Utah Fish and Game Commissioner, in Cedar City, where we attended a sportsmen's meeting. I went with them to St. George on the 20th where a meeting of the Washington County Rod and Gun Club was held that evening, returning to the park on the 21st. As time permitted, I went over the valley trails, including the Tower Falls, Emerald Pool, Grotto and Narrows Trails, and on the 29th I inspected the East Entrance Road and the approach road as far as the Big Meadow Bridge. I found that the winter storms had done considerable damage to the trails. Short sections of trails near the river on the west side had been completely washed out. Practically all of the tread to bed rock has been carried off the switchback section of the trail to Refrigerator Canyon. There have been a few small and one large slides on the Narrows Trail; the large slide is at the stadium and has covered the trail for a distance of about thirty feet with twenty or more cubic yards of rock and mud.

Associate Engineer Parker departed for San Francisco on the 7th for a month's detail in the office of the Chief Engineer.

#### 124 Other Interior Department Officers

A. B. Purton, District Engineer of the Geological Survey, Salt Lake City, was at Zion National Park on the 23rd where he made measurements of snow and moisture content in the park and vicinity, and called at the office to discuss plans for installation of a permanent river gage on the Mukuntuweap.

#### 125 Other Governmental Officers

Associate Highway Engineer Brown was here on the 10th for discussion of tunnel conditions. Engineer Davis left on the 16th for the Ogden office after completing the cross section of the Zion Tunnel.

Mr. Holman of the Biological Survey was at Zion on the 14th and called at the office to discuss predatory animal control measures. He offered the cooperation of his organization whenever we desired to undertake any control measures in the park. He also suggested the organization of a local of the American Federation of Federal Employees by park employees.

130 Finances and Accounts

	Total Appropriation	Expended to date	Balance
41/2406 Forest Protection & Fire Prevention (Bryce) . . . . .	\$ 300.00	\$ 299.47	\$ .53
41/2406 Forest Protection & Fire Prevention (Zion) . . . . .	650.00	461.25	188.75
41/2416 Bryce Canyon National Park, 1931-32 . . . . .	18,850.00	14,833.57	4,016.43
41/2435 Zion National Park, 1931-32 . . . . .	52,300.00	36,009.17	16,290.83
4x436.16 Roads & Trails, National Parks (Bryce) . . . . .	45,290.17	25,872.22	19,417.95
4x436.35 Roads & Trails, National Parks (Zion) . . . . .	311,828.79	301,640.78	10,188.01
41436.1 Roads & Trails, National Parks, Emerg. Recon., 1931 . . . . .	365,752.98	365,752.98	00.00

Minor revisions in the outline of work for the annual appropriation to adjust deficiencies in certain allotments was submitted and approved. Balances in the annual appropriation allotments are becoming so small that expenditures are being watched closely.

140 Labor

In order to remove slides on the tunnel road and to put in timbering in the tunnel where weaknesses were developing, we carried a total of 23 per diem employees on our payroll during February.

160 Status of Alienated Lands

I am informed that a bill has been drafted by the Washington Office for introduction in the present session of Congress to correct the errors in the bill approved February 17, 1930, making additions to Bryce Canyon National Park. Due to omission of two commas in the approved bill referred to, two portions of land were eliminated.

Mr. Adrian Dennett of Springdale advised me that he and Hyrum Weston Justet had approved filings under the stock grazing homestead act on all of unsurveyed sections 24 and 25, township 42 south, range 9½ west. Although these sections are not a part of the park, it appeared that the land filed

on actually conflicted with the area added to Zion National Park by Act approved June 13, 1930. The matter was taken up with the Register of the General Land Office at Salt Lake City, who advised that examination of his records showed that the homestead applications had been rejected for the reason that the land was unsurveyed.

#### 170 Plans, Maps and Surveys

Assistant Landscape Architect Langley's sketch plan for the Mather memorial in the Temple of Sinawava was returned to the Chief Landscape Architect with my approval. The revised preliminary sketch for the 1932 employees residence was received from the Landscape Division and returned approved. Reconnaissance reports for the Southwest Approach to Bryce Canyon National Park were received from the Landscape Division and the District Engineer of the Bureau of Public Roads. My report to the Director on this approach recommended that it be not undertaken, principally for economic reasons.

#### 190 Personnel and Miscellaneous

Recommendation was submitted for reclassifying the Supervisor's position to Assistant Superintendent-Engineer, and for the appointment of Associate Engineer Parker thereto. On receipt of the Director's approval to the plan a formal recommendation has been submitted.

A letter from Assistant Director Bryant states that he is effecting the ~~temporary~~ appointment of Dr. John Gray as Park Naturalist, subject to the approval of the Civil Service Commission.

The new rules and regulations for the 1932 season have been received.

#### 200 Maintenance, Improvements and New Construction

##### 210 Maintenance

By the 20th the valley road as far as the campground had become sufficiently dry and was graded. The winter's snows have permitted good compaction of the gravel surfacing on this road. A portion of the East Entrance Road beyond the tunnel was also dragged.

##### 230 New Construction

The powder magazine project was completed except for installation of lightning protection.

During and following the rains, many slides occurred on the tunnel road, and a crew was engaged for a month in removing them by use of the power shovel. The biggest slide was immediately below the west portal of the tunnel, and more than two thousand yards of material were removed from this place. A temporary rock wall was erected to afford some measure of protection to the road and to permit keeping a clean ditch.

A weakness was seen to be developing in the roof of the tunnel immediately above the timbering at the west portal. Assuming that it was a loose block of rock, we started chipping it out, and discovered that the weakness was more serious than that, and on the recommendation of Associate Highway Engineer Brown, five tunnel rings have been installed.

#### 250 Improvement of Nearby Transcontinental Highways

Information from the Bureau District Engineer is to the effect that the State has programmed the following improvements in the vicinity of Zion and Bryce Canyon National Parks for the 1952 year:

F.A.P. 117-B, Bryce Canyon Junction-Hatch Town; 8 miles gravel surfacing; estimated cost, \$60,000.00.

F.A.P. 118-A, Mt. Carmel Junction-Glendale; 7.5 miles oiled gravel; estimated cost, \$109,000.00.

F.A.P. 105-D and F.L.P. 2-A; Mt. Carmel Junction-Three Lakes; 8.9 miles oiling; estimated cost, \$23,000.00.

#### 300 Activities of Other Agencies in the Park

##### 310 Public Service Contractors

Through correspondence with Mr. Lewis, I find that the Utah Parks Co. plans to install the nucleus of a permanent layout of a housekeeping cabin unit for Bryce Canyon National Park for this year, to consist of a permanent camp center or head house, with permanent toilets. They will use for this year tent equipment on wood platforms for sleeping facilities. It will not be possible to undertake anything at Zion this season, but we will use the time in making plans so that construction may be undertaken a year later. Mr. Lewis states that he anticipates approval of the Bryce program and has in mind proceeding promptly with the work at the earliest practicable date this spring.

Mr. Gronzway Parry, Manager of Utah Parks Transportation Company, made a trip to Zion on the 27th for the purpose of inspecting work on the temporary bridge at Big Meadow Gulch.

### 313 Schedules of Rates

Mr. Parry submitted a schedule of rates for garage service for the 1932 season and they were forwarded to the Director for approval. Approved rates for all Utah parks service for the 1932 season were received from the Director.

### 315 New Contracts

The 1932 grazing permits are in the course of preparation. We are in correspondence with permittees regarding the number of cattle desired in their permits within allowable limits.

An application of Ruby Syrett for a saddle horse permit in Bryce Canyon National Park which was submitted last fall was denied by the Director.

### 350 Donations and Accessions

Several books for the Zion library were obtained by donation from the Yosemite library.

### 400 Flora, Fauna and Natural Phenomena

#### 410 Ranger, Naturalist and Guide Service

Ranger Cope continued his assignment at Bryce Canyon National Park. Most of his time was spent in keeping the snow shoveled off the park buildings. He reports that the old Utah Parks messhouse was demolished by the weight of snow on the roof, and that some damage has been reported from the Union Construction Company camp. He states that the road across the mountain from Tropic to Red Canyon sawmill is still closed, and that the mail comes from the sawmill in a sleigh, meeting the mail from Henrieville at the "Y" service station, and thence to Ruby's Inn by horseback.

#### 470 Animals

Deer are seen frequently in Zion valley since the snow melted. They have grazed on the south slopes while the snow was deep in the canyon.

### 500 Use of Park Facilities by the Public

520 Conditions which favorably or unfavorably affect travel and general forest, plant, wild life and other conditions in the park.

As stated heretofore, the storms have seriously interfered with travel at times; the highway U. S. No. 89 has been blocked by snow for about six weeks, and Big Meadow Bridge on the Zion-Mount Carmel Highway seven miles east of the park boundary was swept down by flood waters on the 9th.

The State Highway Department has been engaged ever since in erecting a detour bridge 200 or 300 feet upstream, and constructing approaches to it. We estimate it will be about the middle of March before this detour will be ready for travel. At best we believe this detour and bridge will be a poor expedient, and Mr. Parry promises that he will do everything he can to get the State Highway Department to start the construction of a permanent bridge. However, it will not be possible to get one completed early this summer even if construction were started immediately, and so it is going to be necessary for auto traffic to use the detour throughout the coming summer season.

#### 530 Visitors

On the 27th - County Attorney Pickett, St. George, Utah.

#### 600 Protection

#### 610 Police Protection

A dog belonging to a local resident was found trapped in Pine Creek Canyon above the falls near gallery No. 4. He was stranded for a week without food, and as there was no way to rescue him, it was necessary to shoot him.

Two stray horses grazed in the park for sometime before we could find who owned them. When the owners were located they were asked to get their horses off the park. One party did so, and the other executed a bill of sale for the second horse. This horse was then shot.

#### 630 Accidents

February 1 - A 1½-ton Chevrolet truck driven by Whitney Spendlove of Hurricane, Utah, skated over the bank of the tunnel road, due to icy condition of the road. The truck was badly damaged, the frame, cab, radiator and other parts being broken, and it was estimated by the mechanic who came with the wrecker after the truck that at least \$200 would be required for the repair of the car.

February 6 - Government pickup Ford, plate No. 911, driven by Calvin Ruesch, went over the embankment on the tunnel road, demolishing one wheel and damaging the cab. The accident was due to the carelessness of the driver, who has consented to absorb the cost of repair in his wages.

February 14 - Barney Gifford, per diem laborer, was injured by falling rock shot out by a blast in working on the slide at the switchback below the west portal of the tunnel. The rock struck him on the head,

causing some laceration. After being given first-aid he returned to work.

#### 650 Signs

New signs have been erected by the ranger force along the valley road and on some of the new nature trails. The checking station was closed for the last week of the month so that the ranger-checker could help in this work.

Very truly yours,

P. P. Patraw  
Superintendent

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
NATIONAL PARK SERVICE  
ZION NATIONAL PARK, UTAH.

Travel report by states for travel season 1932 February 29, 1932.

State					Total for 1932		Total for 1931	
	Cars	Pass.	Stage	Misc.	Cars	Pass.	Cars	Pass.
Arkansas	0	0	0	0	0	0	2	4
Arizona	89	248	0	0	89	248	149	414
California	511	1251	1	0	511	1252	821	1906
Colorado	33	88	0	0	33	88	56	148
Connecticut	4	10	4	0	4	14	0	1
District of Columbia	3	9	2	0	3	11	3	6
Delaware	1	2	2	0	1	4	0	0
Georgia	1	4	1	0	1	5	2	4
Idaho	28	68	0	3	28	71	42	116
Illinois	16	38	3	0	16	38	16	48
Indiana	2	3	0	0	2	3	1	1
Iowa	5	11	0	0	5	11	5	16
Kansas	9	30	0	0	9	30	11	32
Kentucky	0	0	0	0	0	0	1	2
Louisiana	1	3	0	0	1	3	1	3
Maine	3	7	0	0	3	7	2	5
Maryland	0	0	2	0	0	2	1	2
Massachusetts	2	5	1	0	2	6	1	12
Michigan	8	23	0	0	8	23	7	20
Minnesota	8	19	0	0	8	19	7	16
Missouri	3	6	0	0	3	6	12	27
Montana	19	43	4	0	19	47	25	59
Nebraska	4	8	0	0	4	8	6	19
Nevada	45	121	0	0	45	121	52	152
New Hampshire	0	0	1	0	0	1	0	0
New Jersey	4	12	1	0	4	13	5	23
New Mexico	3	6	0	0	3	6	6	13
New York	12	30	2	0	12	32	12	31
North Carolina	0	0	0	0	0	0	1	2
North Dakota	2	7	0	0	2	7	2	4
Ohio	9	21	3	0	9	24	36	127
Oklahoma	4	15	0	0	4	15	8	17
Oregon	15	44	0	0	15	44	14	29
Pennsylvania	6	15	1	1	6	17	8	25
Rhode Island	0	0	0	0	0	0	1	4
South Dakota	1	2	0	0	1	2	2	6
Tennessee	3	11	0	0	3	11	0	0
Texas	17	43	0	2	17	45	21	78
Utah	1389	3834	13	11	1389	3858	979	2971

## Continued:

Vermont	0 :	0 :	0 :	0 :	0 :	0 :	1 :	2
Virginia	1 :	5 :	6 :	0 :	1 :	11 :	3 :	11
Washington	21 :	60 :	0 :	0 :	21 :	60 :	15 :	42
West Virginia	1 :	4 :	0 :	0 :	1 :	4 :	0 :	0
Wyoming	12 :	28 :	0 :	0 :	12 :	28 :	30 :	77
Wisconsin	2 :	6 :	0 :	0 :	2 :	6 :	4 :	10
Alaska	0 :	0 :	0 :	0 :	0 :	0 :	1 :	2
Canada	1 :	2 :	0 :	0 :	1 :	2 :	8 :	15
Canal Zone	1 :	2 :	0 :	0 :	1 :	2 :	0 :	0
Hawaii	1 :	4 :	1 :	1 :	1 :	6 :	1 :	2
Japan	0 :	0 :	0 :	0 :	0 :	0 :	0 :	1
Mexico	1 :	3 :	0 :	0 :	1 :	3 :	0 :	0
South America	0 :	0 :	0 :	0 :	0 :	0 :	1 :	2
Denmark	0 :	0 :	0 :	0 :	0 :	0 :	0 :	1
<b>Total</b>	<b>2301 :</b>	<b>6148 :</b>	<b>48 :</b>	<b>18 :</b>	<b>2301 :</b>	<b>6214 :</b>	<b>2382 :</b>	<b>6509</b>

UNITED STATES  
 DEPARTMENT OF THE INTERIOR  
 NATIONAL PARK SERVICE

TRAVEL REPORT

ZION

National Park for the month of February  
 1932

	This Month	This Travel Year To Date	This Month Last Year	Last Travel Year To Date	Increase for Travel Year	
					Number	Percent
<u>PRIVATE TRANSPORTATION:</u>						
Cars first entry, . . . . .	200	1855	317	2380		
Cars reentry, . . . . .	107	445				
Motorcycles, . . . . .		1		2		
Total motor vehicles, . . . . .	507	2301	317	2382	81	3.39
Persons entering via motor vehicles, . . . . .	799	6146	939	6474		
Persons entering via other private transportation, . . . . .		2	2	2		
Total persons entering via private transportation, . . . . .	799	6148	941	6476	328	5.06
<u>OTHER TRANSPORTATION:</u>						
Persons entering via stages, . . . . .	0	48	0	21		
Persons entering via trains, . . . . .						
Persons entering otherwise, . . . . .	5	18	0	12		
Total other transportation, . . . . .	5	66	0	33	33	50.
GRAND TOTAL ALL VISITORS, . . . . .	804	6214	941	6509	295	4.53

	This Year	Last Year	Increase	
			Number	Percent
Automobiles in public camps during month, . . . . .				
Campers in public camps during month, . . . . .				

WEATHER REPORT FOR ZION NATIONAL PARK MONTH OF FEBRUARY 1932.

TEMPERATURE:

Mean Maximum . . . . .	51.6		
Mean Minimum . . . . .	34.8		
Mean . . . . .	46.1		
Maximum . . . . .	73	date	27 th.
Minimum . . . . .	9	date	3 rd.
Greatest daily range . . . . .	36	date	4 th.

PRECIPITATION:

Total . . . . .	4.95 inches.		
Greatest in 24 hours . . . . .	1.25	date	9 th.

NUMBER OF DAYS:

With .01 inch or more precipitation	15 days
Clear . . . . .	10 days
Partly cloudy . . . . .	5 days
Cloudy . . . . .	14 days

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Arden G. Schiefer  
Co-operative Observer.

BRYCE CANYON NATIONAL PARK  
WEATHER REPORT

FEBRUARY 1932.

TEMPERATURE :

Mean Maximum	41.7	
Mean Minimum	15.2	
Mean	28.4	
Maximum	56	On 5th.
Minimum	2	Below On 2nd and 3rd.

PRECIPITATION :

Beginning of month	40 inches snow
Snow fall during month	63 inches
Greatest in 24 hours	13 $\frac{1}{2}$ inches on 9th.
Amount of snow Feb.29	35 inches
Greatest snow depth at any one time	68 inches on 16th.

WEATHER :

Days clear	10
Days partly cloudy	6
Days cloudy	13

Amount of snow fall since  
November 8, 128 inches.

Maurice Cope  
Observer.

BRYCE CANYON NATIONAL PARK

WEATHER REPORT

February, 1932

TEMPERATURES:

Mean maximum . . . . .	41.7
Mean minimum . . . . .	15.2
Mean . . . . .	28.4
Maximum . . . . . 56. Date . . . . .	5th
Minimum . . . . . -2 Date . . . . .	2nd & 3rd

PRECIPITATION:

Beginning of month . . . . .	40" snow
Snowfall during month . . . . .	63"
Greatest in 24 hours . . . . .	13 $\frac{1}{2}$ "
Date . . . . .	9th
Amount of snow Feb. 29 . . . . .	35"
Greatest snow depth at any one time . . . . .	68"
Date . . . . .	16th
Snowfall since November 8 . . . . .	128"

WEATHER:

Days clear . . . . .	10
Days partly cloudy . . . . .	6
Days cloudy . . . . .	13

Maurice Cope  
Observer.

10-159  
(May, 1931)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
NATIONAL PARK SERVICE

STATUS OF PERSONNEL

Zion-Bryce Canyon National Park for the Month of February, 1932

	This Month		This Month Last Year	
	Appointed	Non-Appointed	Appointed	Non-Appointed
Number of employees beginning of month	89	16	8	5
Number of additions	0	8	0	6
Total	89	24	8	11
Number of separations	0	7	0	6
Number of employees close of month	89	17	8	5
Number of promotions during month	0		0	
Aggregate amount of annual leave taken	7		0	
Aggregate amount of sick leave taken	0		0	
Aggregate amount of leave without pay	30		0	

## DEPARTMENT OF THE INTERIOR

## NATIONAL PARK SERVICE

## REPORT OF PARK REVENUES

Zion

February, 1932

National Park for the Month of

	This Year	Last Year
Park revenue on hand beginning of month, . . . . .	None	None
Received, . . . . .	None	None
Total, . . . . .	None	None
Remitted, . . . . .	None	None
On hand close of month, . . . . .	None	None
Park revenues received this year to date, . . . . .		\$9,971
Park revenues received last year to date, . . . . .		10,554
Decrease		583
Increase, . . . . .		
decrease		5.5
Per cent of increase, . . . . .		

## DEPARTMENT OF THE INTERIOR

## NATIONAL PARK SERVICE

## STATUS OF AUTHORIZED PROJECTS

Zion-Bryce Canyon National Park for the Month of February, 1932.

Description of Projects	Percent Constructed To Date	Percent Constructed This Month	Percent Constructed Last Month	Probable Date of Completion
<u>Zion</u>				
407 Employees quarters	00			June 30, 1932
408 Comfort station	100			
409 Woodshed-garage	100			
← 410 Powder house	95		95	June 30, 1932
484 Water system West Rim	100			
485 Extension water system	100			
486 Extension sewer system	75	25		June 30, 1932
← 487 Campground development	95			June 30, 1932
← 488 Improving grounds Adm Area	60			June 30, 1932
502.1 Miscellaneous trail const	95			June 30, 1932
← 504.4 Post construction	93	8		June 30, 1932
← 504.5 Road protection	90			June 30, 1932
504.6 Roadside cleanup	90		15	June 30, 1932
<u>Bryce</u>				
410 Dormitory	95			June 30, 1932
411 Messhouse	95			June 30, 1932
412 Employees quarters	95			June 30, 1932
484 Campground development	75			June 30, 1932
501 Trails	100			
503 Oiling road	100			

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

STATUS OF AUTHORIZED PROJECTS

Zion National Park for the Month of February, 1932

Description of Projects	Percent Constructed To Date	Percent Constructed	Percent Constructed	Probable Date of Completion
		This Month	Last Month	
407 Employees quarters	00			
408 Comfort station	100			
409 Woodshed-garage	100			
410 Powder house	95			
484 Water system, West Rim	100		Average number of men employed	<u>.50</u>
485 Extension water system	100			
486 Extension sewer system	75			
487 Campground development	95			
488 Improving grounds, Adm Area	60			
502.1 Misc. trail const.	95		Average number of men employed	<u>9.27</u>
504.4 Post construction	93			
504.5 Road protection	90			
504.6 Roadside cleanup	90			

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

STATUS OF AUTHORIZED PROJECTS

Bryce Canyon National Park for the Month of February, 1932

Description of Projects	Percent Constructed To Date	<del>Percent Constructed</del> This Month	<del>Percent Constructed</del> Last Month	Probable Date of Completion
410 Dormitory	95	:	:	:
411 Messhouse	95	:	Average number	:
412 Employees quarters	95	:	of men employed	<u>.146</u>
484 Campground development	75	:	:	:
501 Trails	100	:	Average number	:
503 Oiling road	100	:	of men employed	<u>00</u>

Snow photos