



UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
ARCHES-NATURAL BRIDGES NATIONAL MONUMENTS
MOAB, UTAH

IN REPLY REFER TO:

A 2831

January 4, 1964

Memorandum

To: Superintendent

From: Chief Park Ranger

Subject: Monthly Narrative Report for December 1963

General

Weather Conditions: It was a cooler and dryer than normal month with only 0.04" of precipitation being recorded at Arches. A summary follows:

<u>December</u>	<u>1963</u>	<u>1962</u>	<u>Normals</u>
Maximum Temperatures	55	59	60.4
Minimum Temperatures	10	-2	3.8
Mean Temperatures	30.8	32.6	31.4
Precipitation	104"	.61"	.86"
Snowfall	.5"	3.0"	.41"
Maximum Depth	.5"	3.0"	.37"

Increase in Travel: There was a healthy increase in visitor travel to both areas. A summary follows:

<u>December</u>	<u>Visits</u>	<u>Variation</u>	<u>Cumulative</u>	<u>Variation</u>	<u>Campers</u>
<u>ARCHES</u>					
1963	2,766		118,216		4
1962	2,038	+35.2%	105,666	+10.9%	8
<u>NABR</u>					
1963	204		11,576		0
1962	99	+1.06%	10,140	+14.1%	0

Annual Camper use was recorded as follows:

	<u>Arches</u>	<u>Variation</u>	<u>Natural Bridges</u>	<u>Variation</u>
1963	9,123		1,099	
1962	8,133	+11.07%	1,117	-1.61%

Trail use:

	<u>December</u>	<u>Annual</u>
<u>Delicate Arch</u>	29	4,269
<u>Landscape Arch</u>	32	4,531
<u>Double O Arch</u>	14	1,425

Visitors: 12/13/63 District Ranger Roush from north rim of Grand Canyon.
12/10/63 Assistant Regional Director Miller, Public Affairs Officer Larry Hadley and Stan Broman Wildlife Biologist.

Special Activities: On the 2nd a pre-construction conference was held with Slavens Inc. the contractor the new residences at Arches.

Administration

Personnel: Tom Mulhern left on the evening of the 12th for a long planned trip to Hawaii. While on leave he sent us word of his engagement to Judy Hunt of Fresno California, Tom's home town.

There were many days of take it or ~~leave~~ it leave taken by Arches employees as we neared the year's end.

Stanley Canter, Naturalist returned to duty on the 20th. Stan has been attending the school at Harper's Ferry.

On the 9th the Plan For The Man reports were completed.

Safety and Health: On the 2nd at the pre-construction conference with Slavens Inc. the subject of safety was covered thoroughly and the need for safe practices and safe conditions impressed upon the contractors.

On the 5th ranger and maintenance personnel made a trip to Natural Bridges to make an inventory and to clean the area and empty the garbage cans.

Conservation Interpretation & Use

Protection: While exploring the Fiery Furnace with a loop trail in mind, Superintendent Wilson discovered another Arch. It was named Surprize Arch because one comes upon it suddenly in a very narrow canyon. It was discovered on Friday the 13th.

On the morning of Saturday the 21st the monument road was closed because of snowfall. It was opened at noon.

On the 28th a trip was made to Natural Bridges to install the repaired traffic meter.

Wildlife: Early in December the attempt to trap foxes because of the rabies scare was abandoned.

When Stan Broman visited here on the 10th he reviewed the monument's current wildlife problems and discussed ways and means of continuing with an active program in the future.

Maintenance: Work was continued on the barrier rocks in the Devil's Garden picnic area. Rocks and weeds were cleaned from ditches throughout the monument, and some signs were made in the carpenter shop. Five loads of fill material were placed behind the sidewalk of the parking area at the Fiery Furnace, and eight loads of fill were brought to the new buildings for the foundations.

The trailer to be used as John Ballard's office was towed to the construction site in the Devil's Garden. The diesel fuel and road oil ~~fuel~~ tanks were moved into the utility area, and one trailer clothes line was moved out of the way of construction workers at one of the new residence sites.

The old road in the Devil's Garden was obliterated.

Public Affairs

General Publicity: On the 16th local radio station KURA interviewed Chief Ranger Mabery about the new Arch. On the 17th a press release was given to the local newspaper concerning the arch and on the same day the Superintendent and the Chief Ranger were interviewed by the Intermountain Network on the same subject.

Dinosaur National Monument issued a press release on December 18 about Arches and Natural Bridges. It concerned the completion of the new road at Arches, and the year long availability of Natural Bridges.

Design and Construction

New Construction: The foundations and all concrete work has been completed on the new residences, and work has begun on the buildings themselves.


Roby R. Mabery
Chief Park Ranger

ARCHES-NATURAL BRIDGES NATIONAL MONUMENTS
MOAB, UTAH 84532

A 2823

February 6, 1964

Memorandum

To: Director
From: Superintendent
Subject: Superintendent's Monthly Narrative Report, NPS (AM)-4,
January 1964

General.

Weather Conditions: Light snows fell on the 19th, 22nd, and 23rd. None remained on the ground at headquarters but about an inch remained in the Devil's Garden area for several days. A summary follows:

<u>January</u>	<u>1964</u>	<u>1963</u>	<u>Normals</u>
Maximum Temperatures	58°	58°	53.7°
Minimum Temperatures	3°	-18°	-3.0°
Mean Temperatures	30.3°	18.5°	28.8°
Precipitation	.09"	.45"	.73"
Snowfall	Trace	6.2"	1.3"
Maximum Depth	Trace	7.0"	1.2"

Increase in Travel: There was a significant increase in visitation to both Monuments over January 1963. A summary follows:

<u>January</u>	<u>Visits</u> <u>ARCHES</u>	<u>Variation</u>	<u>Visits</u> <u>NATURAL BRIDGES</u>	<u>Variation</u>
1964	2,056		115	
1963	1,058	+94%	80	+43.7%

<u>Trail Use for January</u>	<u>1964</u>	<u>1963</u>
Delicate Arch	75	0
Landscape Arch	22	0
Double O Arch	8	0

All trails were closed during January 1964 due to snow.

Visitors: Arches was visited by Chief Park Ranger James Jones and Supervisory Park Ranger Warner Forsell, Dinosaur, on the 31st.

Special Activities: The Superintendent attended the third annual Travel Institute sponsored by Utahns Inc. in Salt Lake City on Feb. 1 and 2. The principal speaker, who made a very fine impression on the entire group, was Director Hartzog. Black and White picture panels on Arches and Canyonlands were exhibited and the Superintendent participated in one panel discussion as an interviewee.

On the 21st the Superintendent and WODC Engineer Niel Grunigen made a field inspection of the Natural Bridges scenic loop road project.

Miscellaneous: Photos of the newly discovered "Surprise Arch" in the Fiery Furnace area were obtained on the 8th. (See attachment) Its dimensions are 57' high with a 54' span and the name "Surprise Arch" has been suggested due to the suddenness with which one comes upon it.

Administration.

Management Analysis: A record of interpretive activities has been submitted for the period of January 19 through February 1 in conjunction with the fourth period of the interpretive workload measurement and analysis.

Personnel: WODC Architect Jerry Ray and his wife arrived at Arches on the 9th. Mr. Ray has replaced WODC Project Engineer John C. Ballard as Project Inspector for the new residences at headquarters and the comfort stations at the Devil's Garden area. Project Engineer Ballard has been called back to WODC on another assignment.

Safety and Health: January was a record month for sickness and accidents. Naturalist Stanley G. Canter entered the hospital on January 5 for a hernia operation and returned to duty on the 29th.

WODC Engineer John C. Ballard entered the hospital with an appendix attack on the 15th and underwent surgery the same day. He was released on the 22nd and spent the balance of the month recuperating.

Operator General Harold J. Shoemaker was hospitalized January 24 - 28 with a severe case of the flu.

Two personal injury accidents occurred. A contractor employee suffered a minor bruise on the right ankle on the 16th and was off duty for a day. Maintenceman Bervil R. Rose suffered a back strain on the 31st and will be off duty for several days.

The volunteer rescue team for Arches was organized on the 8th. To date 7 hours of rescue training have been conducted with 4 permanent employees and 9 rescue team members participating.

Conservation, Interpretation, and Use.

Interpretive Services: At Arches, 372 visitor contacts were made at the Visitor Center. The audio-visual program was presented 15 times to a total of 124 visitors, and a total of 73 signed the Balanced Rock Visitor Register.

At Natural Bridges, 28 people signed the visitor register and an estimated 14 took the Owachomo Nature Trail walk.

Protection: On the 18th a well known rock climber, Layton Korr of Grand Junction, Colorado, and two companions were apprehended by Ranger Ferris while attempting an anchor bolt climb on Sheep Rock along the main road at Arches.

Two fences were erected in Courthouse Wash, one at the upper and one at the lower end, in an effort to keep stray cattle out of the Monument. Local cattlemen have been co-operative and are running regular patrol in search for cattle on the Monument and have responded immediately when notified that cattle are encroaching.

Limited work has been accomplished in aiding nature to obliterate sections of the old, abandoned Devil's Garden road.

Building Fire Protection: Work has been started on a revised fire plan and map for the ranger manual to encompass changes necessary to adequately protect the new residences now under construction.

Maintenance: A special staff meeting was conducted on the 8th to outline winter maintenance projects and assign priorities.

Layouts for directional and informational signs for the new Devil's Garden road have been completed for submission to the central sign shop at Grand Canyon. Several urgently needed signs were constructed and erected by Monument personnel. See photo attached.

Twenty-eight new picnic tables were assembled and 14 transported to the Devil's Garden picnic areas.

Work has been started on a safe loop route through the scenic Fiery Furnace area.

Resource Planning.

Proposed Park Areas: Four hundred Canyonlands brochures were received at Arches on the 30th.

Public Affairs.

General Publicity: Discovery of the new "Surprise" Arch in the Fiery Furnace area continues to receive mention by local press, radio and T.V. stations.

Public Relations: On the evening of the 20th an orientation of the activities of our volunteer rescue team was held at the Visitor Center for team members, their parents, and local sponsoring representatives. Some 34 persons attended the two-hour session.

Bates E. Wilson
Superintendent

Attachments: 2

ARCHES-NATURAL BRIDGES NATIONAL MONUMENTS
MOAB, UTAH 84532

A 2923

March 4, 1964

Memorandum

To: Director

From: Superintendent

Subject: Superintendent's Monthly Narrative Report, NPS (AM)-4,
February 1964

General.

Weather Conditions: This was the coldest but the driest February on record at Arches. A summary follows:

<u>February</u>	<u>1964</u>	<u>1963</u>	<u>Normals</u>
Maximum Temperatures	58	64	63.6
Minimum Temperatures	9	16	18.4
Mean Temperatures	34.6	42.3	40.0
Precipitation	.07"	.45"	0.77"
Snowfall	Trace	Trace	0.17"
Maximum Depth	Trace	Trace	0.17"

Travel: There was a slight decrease over last years visits to Natural Bridges. All other figures were up. A summary follows:

<u>February</u>	<u>Visits</u>	<u>Variation</u>	<u>Cummulative</u>	<u>Variation</u>	<u>Campers</u>
<u>ARCHES</u>					
1964	2,800		4,856		16
1963	2,553	+9.7%	3,611	+34.5%	23
<u>NATURAL BRIDGES</u>					
1964	108		223		0
1963	117	-7.7%	197	+13.3%	0

Trail Use was recorded as follows:

	<u>February</u>	<u>Cummulative</u>
Delicate Arch	48	123
Landscape Arch	72	94
Double O Arch	7	15

Visitors: 2/17/64 C. H. Mc'Curdy, Naturalist, Petrified Forest National Park.

Special Activities: Asst. Regional Director Carpenter and Asst. Regional Personnel Officer Eugene Brown were at Arches on the 8th pertaining to wage board survey matters.

A pre-construction conference concerning the Natural Bridges Approach Road was held at the B.P.R. Office in Elanding on the 27th. In attendance were Contractor W. Nielson, five members of the B.P.R. Engineering staff, and Superintendent Wilson.

Miscellaneous: Chief Ranger Roby R. Mabery contributed four of his 20 X 24" oil paintings to the Service for use in the Arches Visitor Center. These are paintings of Angel and Druid Arches in the Canyonlands and Delicate Arch and the Three Gossips at Arches. During his two-year stay here Ranger Mabery has turned out several very fine paintings of formations found in the Arches and Canyonlands areas.

Administration.

Management Analysis: The Park Ranger Workload and Analysis Report for the period Feb. 16 - 29 has been submitted in conjunction with the third period of the ranger workload measurement analysis.

Personnel: Thomas D. Mulhern, Jr., Park Ranger, GS-7, departed for the Horace M. Albright Training Center on the 8th. Ranger Mulhern will be engaged in the training course through the end of April.

Mrs. Margie Faye Phillips, Clerk-typist IGS-3 (WAE) EOD on the 17th.

Safety and Health: The rash of visits to the hospital, that characterized the month of January, continued well into February. Admitted to the hospital were Ranger Ferris' daughter Maura on the 5th, Mrs. Roby R. Mabery on the 7th, and Mrs. Harold J. Shoemaker on the 10th. Maintenance man Bervil R. Rose was off duty Feb. 1 - 17 due to a back injury suffered on January 31 and Mrs. Mabery found it necessary to resign her post as clerk-typist on the 4th due to an inner ear infection.

Fifteen hours of rescue training was conducted during the month with three permanent employees and 11 rescue team members participating.

Conservation, Interpretation, and Use.

Interpretive Facilities: The audio-visual program is being revised to include the new facilities, and services offered to visitors to the monument.

Ranger Robert Ferris and Naturalist Canter are attending a taxidermy class given at the local high school. As a result of this course, several bird and mammal study skins have been added to the monument's collection.

Interpretive Services: At Arches, 448 Visitor Center contacts were made. The audio-visual program was presented 10 times to a total of 77 people, and 179 people signed the visitor register at the Balanced Rock. One off-site talk was given to 43 people, one guided auto tour was given to 19 people.

At Natural Bridges, 33 people signed the visitor register, and an estimated 16 visitors took the Owachomo Nature Trail walk.

Research and Observations: The final report of the Natural Bridges Planning Study has been sent to Region for corrections and additions. Naturalist Canter is going to Region March 4-7 to assist in the final draft of the report.

Several months ago a collection of insects taken at Arches was sent to the National Museum for identification. Word has been received from the museum that one species of tiger beetle sent to them is rare, and that the museum has only two specimen of the species in their collection. Another specimen of tiger beetle sent to them was unknown, and they have requested that the monument send them a series of the beetles for further study.

Protection: A party of 10 was apprehended for driving off the established roads and building an unauthorized fire on the 22nd.

A sign warning visitors of the dangers of unguided trips into the Fiery Furnace area was erected at its entrance parking area on the 28th.

Protection personnel made one trip to Natural Bridges during the month.

Building Fire Protection: Chief Ranger Mabery held a fire training session on the 24th for the purpose of familiarizing Monument personnel with the location of the gas turn-off valves for each building. It was discovered that these valves were quite stiff and very difficult to turn so the Gas Company was notified and adjusted them on the 26th.

Wildlife Activities: Two deer traps and several tags were received from the Utah State Fish and Game Commission on the 18th. The traps have been set in the Devil's Garden area in conjunction with the wildlife management program recently initiated at Arches.

Maintenance: Our limited maintenance staff has been engaged in making the new loop route through the Fiery Furnace area safe for visitor use. It is hoped that we can conduct guided visitor tours through this fascinating and highly scenic area during the summer months.

Two used vehicles from the Bureau of Reclamation surplus list and temporarily loaned to Mesa Verde in conjunction with their APW project were received at Arches on the 28th.

Resource Planning.

Co-operation with Other Agencies: Chief Ranger Mabery assisted the Utah State Highway Department in their roadside park planning program along State route 279 between Moab and Potash on the 27th.

Co-operation with Non-government Agencies: A paper by Drs. Harrison, Welsh, and Moore of Brigham Young University, titled "The Vascular Plants of Arches National Monument", is in the process of being published. Southwestern Monuments Association has agreed to purchase 500 copies of the publication, depending upon the cost, to aid the authors in getting the paper published. This paper is the result of a very extensive study of the plants of Arches by the authors. About 300 species of plants have been collected, and have been mounted and labeled for the monument herbarium by the Brigham Young University Staff. The herbarium collection coupled with the publication will be a valuable asset to the interpretive program of the monument.

The slide sets of Arches, which are sold through the Monuments Assoc., are being revised.

Public Affairs.

Public Relations: Fifty-five members of local organizations were guided through the Fiery Furnace area and to Surprise Arch during three different trips as a public relations gesture.

Bates. E. Wilson
Superintendent

ARCHES-NATURAL BRIDGES NATIONAL MONUMENTS
MOAB, UTAH 84532

A 2823

April 14, 1964

Memorandum

To: Director

From: Acting Superintendent

Subject: Superintendent's Monthly Narrative Report, NPS (AM)-4,
March 1964

General.

Weather Conditions: The month was characterized by cold, cloudy weather with the average temperatures about 10 degrees below normal. Two inches of snow were measured at the Balanced Rock on the 24th which forced the closure of the Monument road for a six hour period. A summary follows:

<u>March</u>	<u>1964</u>	<u>1963</u>	<u>Normals</u>
Maximum Temperatures	75°	76°	79.3°
Minimum Temperatures	16°	20°	26.2°
Mean Temperatures	39.5°	46.2°	48.0°
Precipitation	0.87"	0.62"	0.88"
Snowfall	0.2"	0.5"	0.
Maximum Depth	0.2" (Hqs.)	Trace	0.

Increase In Travel: Easter coming in March and the fact that 20th Century Fox Studios filmed in the Monument on two separate days accounts for some of the 84% increase in visitation at Arches. A summary follows:

<u>March</u>	<u>Visits</u>	<u>Variation</u>	<u>Cummulative</u>	<u>Variation</u>	<u>Campers</u>
<u>ARCHES</u>					
1964	6,419		11,276		128
1963	3,499	+84%	7,107	+59%	146
<u>NATURAL BRIDGES</u>					
1964	183		406		0
1963	170	+ 7.6%	367	+10.4%	0

At Arches 84 cars and 252 visitors attended the Easter Sunrise Service as compared to 82 cars and 251 visitors last year.

Trail Use:

	<u>March</u>	<u>Cummulative</u>
Delicate Arch	249	372
Landscape Arch	224	318
Double O Arch	85	100

Visitors: 3/21 - 27 Jack Welch, Assistant Director, Loren Ward, Project Leader, and Les Robinette, Project Leader, Denver Wildlife Lab.
3/26 David H. Hunsinger, Naturalist, Timpanogos Cave.

At Natural Bridges

3/11 Richard Barber, Park Ranger, Glen Canyon
3/11 Edward Mazzer, Park Ranger, Glen Canyon

Special Activities: Messrs. Phil Walbrandt, Regional Engineer and Russell K. Jones, Regional Architect inspected the various construction projects at Arches on the 5th.

Landscape Architects Hoyt Wilcox and John Hamernick, WODC, inspected the Natural Bridges approach road project and new headquarters development site with Superintendent Wilson on the 26th.

Naturalist Canter spent March 3-4 in the Regional Office discussing interpretive matters concerning Natural Bridges National Monument and the planning study carried out there last summer.

Miscellaneous: Naturalist Stanley G. Canter was elected Treasurer of the Moab Museum Association on the 8th.

Administrative Assistant George T. Yardic received the Spoke Award as an outstanding JayCee during the month.

Administration.

Personnel: Naturalist Stanley G. Canter and Supv. Ranger Robert J. Ferris joined the newly formed Moab Toastmasters Club in an effort to improve upon their public speaking abilities as a part of the Plan-for-the-Man program.

WODC Project Engineer John C. Ballard departed for the San Francisco Office on the 30th.

Administrative Assistant Yardic and Naturalist Canter spent the week of March 2 - 6 in the Regional Office pertaining to personnel and interpretive matters.

Safety and Health: The rash of measles that has plagued the Moab area filtered into the Monument hitting most of the families during the month.

There was one minor vehicle accident during the month involving a contractor employee and a GSA vehicle.

Conservation, Interpretation, and Use.

Interpretive Facilities: The script for the audio-visual program has been revised and will be sent to region for approval. The audio-visual Laboratory has informed us that it will probably take them about three weeks to produce the new tapes once they receive the revised script.

Interpretive Services: At Arches, 1,607 Visitor Center contacts were made, the audio-visual program was presented 31 times to a total of 234 visitors, and 507 people signed the visitor register at Balanced Rock. One off-site talk was given to 18 people, one on-site talk was given to 36 visitors, and five guided trips into the Fiery Furnace were conducted for a total of 54 people.

At Natural Bridges 61 people signed the visitor register and an estimated 30 visitors took the Owachomo Nature Trail walk.

Research and Observations: Regional Archeologist Al Schroeder conducted an archeological salvage of pit houses and ruin sites along the Natural Bridges approach road March 16 - 20.

Protection: 20th Century Fox Studios were in and through Arches with a cast of some 300 people March 16, 17, and 21 shooting scenes for their forthcoming film "Guns of the Rio Conchos". (See photos attached) Constant vigilance was demanded of ranger personnel during the 7:00 A.M. to 6:00 P.M. shooting.

The 6th annual Easter Sunrise Services were held at the La Sal Mountain View Point on the 29th. (See photo attached) The usual influx of teenagers were present over the Easter weekend which required constant vigilance by Monument personnel. Two warnings were issued concerning rock collecting and one for unauthorized campfire. However, only one traffic violation was encountered. This better-than-usual behavior is attributed to public relation talks conducted in nearby communities by Superintendent Wilson earlier in the year.

Gates have been constructed and installed at the entrance and exit to the Fiery Furnace area as protective barriers.

Insects and Tree Diseases: Surveys of insect conditions at Arches and Natural Bridges have been made and a report submitted to the Regional Forester.

Building Fire Protection: The monthly building fire training session was conducted by Chief Ranger Mabery on the 16th. The subject, "Water Versus Fire", was attended by five permanent employees and seven family members.

Fire axes have been installed in all but two of our fire hose houses.

Wildlife Activities: On the 1st, Ranger Robert J. Ferris attended a meeting of the Wildlife Club of Southern Utah to discuss wildlife conditions in the vicinity of the two monuments.

One deer was finally trapped and tagged on the 17th. This project was discontinued at the end of the month to allow more time to prepare for our heavy travel season.

Maintenance: The Delicate Arch View Point road crossing at Salt Wash was reconstructed and put back into service on the 26th after having been washed out by floods on the 24th.

Maintenance personnel continued work on the Fiery Furnace guided tour route as time permitted.

Resource Planning.

Co-operation with Other Agencies : On the 18th, Superintendent Wilson attended a joint meeting of the Utah State Highways Commission, B.L.M., B.P.R., Tourist and Publicity Council, and the National Park Service, in Salt Lake City for the purpose of planning access roads to Lake Powell and the proposed Canyonlands area. A special report has been submitted to the Regional Director.

Public Affairs.

Public Relations: Thirty-seven members of the Camera Club of Moab were conducted on a special tour through the Fiery Furnace on the 8th.

Roby R. Mabery
Acting Superintendent

Attachments: 2

ARCHES-NATURAL BRIDGES NATIONAL MONUMENTS
MOAB, UTAH 84532

A 2823

May 8, 1964

Memorandum

To: Director

From: Superintendent

Subject: Superintendent's Monthly Narrative Report, NPS (AM)-4,
April, 1964

General

Weather Conditions: This was a cooler and wetter April than usual with many cloudy days. Our normally pleasant spring has been postponed because of this unseasonable weather. Snow fell on the 7th and 24th and high winds were common throughout the month. A summary follows:

<u>April</u>	<u>1964</u>	<u>1963</u>	<u>Normals</u>
Maximum temperatures	81	83	72.0
Minimum temperatures	33	29	39.5
Mean temperatures	54.9	55.9	55.6
Precipitation	.99"	.34"	.75"
Snowfall	Trace	0	0
Maximum Depth	Trace	0	0

Travel: There was a sharp decrease in visitation for the month due partly to Easter, our busiest day, falling in March this year, and partly due to the weather. A summary follows:

<u>April</u>	<u>Visits</u>	<u>Variation</u>	<u>Cummulative</u>	<u>Variation</u>	<u>Campers</u>
<u>ARCHES</u>					
1964	5,436		16,712		295
1963	9,664	- 43.7%	16,771	- .35%	641
<u>NATURAL BRIDGES</u>					
1964	397		803		25
1963	694	- 42.7%	1,061	- 24.3%	51

<u>Trail Use:</u>	<u>1964</u>		<u>1963</u>	
	<u>April</u>	<u>Cumu.</u>	<u>April</u>	<u>Cumu.</u>
Delicate Arch	295	667	677	928
Landscape Arch	114	432	472	580
Double O Arch	61	161	130	173

Visitors: 4/05, Daniel B. Beard, Regional Director
 Leslie P. Arnberger, Assistant Regional Director
 Paul Wykert, Regional Chief, Boundary Studies
 Norman Herkenham, Regional Chief, Recreation Plans
 4/21, Ed Menning, Naturalist, Craters of the Moon

Special Activities: WODC Engineer Neil Grunigen and Supv. Landscape Architect John Hammernick were on duty at Natural Bridges April 30 to May 5 pertaining to location of the proposed headquarters site and scenic loop road. Superintendent Wilson and Naturalist Canter worked with them on the headquarters site and overlook parking areas and view points May 1 - 3.

Miscellaneous: As a special note of interest we read with pride a note in the register at the Balanced Rock which described Arches as the "Greatest piece of natural scenery on the face of the earth".

Chief Ranger Mabery was elected President of the Moab Lions Club.

Administration

Personnel: Administrative Assistant George T. Yardic was promoted from GS-7 to GS-8 effective April 2.

All performance ratings and position descriptions were reviewed and submitted on schedule.

Park Ranger Thomas D. Mulhern returned to duty from Horace M. Albright Training Center on the 30th.

A 20 year Service pin was presented to Operator General Harold J. Shoemaker at an open house on the 12th.

Safety and Health: A broken arm resulted from a bicycle accident on the 19th. A special report has been submitted.

A total of 14 hours (99 man hours) of various types of rescue training were conducted during 6 training sessions held during the month. Two permanents, 1 seasonal, and 12 others participated.

Conservation, Interpretation, and Use

Interpretive Facilities: The visitor orientation map in the Visitor Center has been revised and brought up to date. The work was done by a local individual, and is considered by Monument staff to be an excellent piece of work. Cost for the revision, \$36.00. Estimated cost to have the same work done by the Western Museum Lab., \$350.00.

Replacement units to repair the audiovisual program have been received and we are now awaiting technical assistance from Region.

Interpretive Services: At Arches, 1,944 Visitor Center Contacts were made, the audiovisual program was shown 29 times to a total of 245 visitors, and 492 visitors signed the visitor register at Balanced Rock. One on-site talk was given for 11 visitors. Three different conducted trips were made for a total of 52 visitors.

At Natural Bridges, 6 visitor contacts were made, 140 visitors signed the visitor register and an estimated 70 visitors took the Owachomo Nature Trail walk.

Protection: Large rocks, loosened by rains, rolled into the entrance road just above the Visitor Center on the 6th, one such rock weighing approximately 2 tons.

Protection personnel made two trips to Natural Bridges during the month.

The chain which prevents passage into Courthouse Wash was torn down and stolen by vandals and had to be replaced.

Our order of traffic signs for the new Devil's Garden road was finally received and 30 have been mounted and 19 erected.

Forest Fire Protection: Two camp fire permits were issued to back-country campers.

Insects and Tree Diseases: Fifteen trees in the headquarters area were treated for tent caterpillar attacks. One silver poplar (populus alba) was killed by these insects.

Building Fire Protection: A new hydrant was installed and a hose house constructed near quarters 11.

Wildlife Activities: The spring count of pellet-group transects was made during the month. Counts were higher than those made last fall when our transects were started.

Maintenance: In addition to routine work the following items have been accomplished: The parking area at the new apartment building, quarters 7, was leveled and graveled; and driveways to the new residences, 4 and 11, were put in.

Drainages were installed to keep flood waters out of the new apartment building.

All tables for the new Devil's Garden Campground have been assembled and painted. Chains and anchors were made for the tables and sites staked.

Resource Planning

Co-operation with Local Agencies: A University of Utah traveling archeological exhibit featuring a movie and display of artifacts excavated from the Glen Canyon area was held at the Arches National Monument Visitor Center from April 30 through May 2nd. Local sponsor for the exhibit was the Moab Museum Association. The movie was shown four times to a total of 261 people, and the exhibit was visited by 1,011 people. This was an excellent opportunity to impart Park Service philosophy on the area to be flooded by Lake Powell, to a large number of local people.

Co-operating Non-government Agencies: A sufficient supply of Southwestern Monuments Association sales items, to last through the travel season, has been received.

Public Affairs

Public Relations: Chief Ranger Mabery worked out a working relationship with the Moab City Engineer whereby we obtained the use of the city vacuum sign mounting machine to mount some 35 traffic signs. In return Ranger Mabery will construct 5 name plates for use on City Counselmen's desks. This enabled us to get our signs mounted and readied without delay and at considerable less cost than sending them to the central sign shop which is in keeping with President Johnson's economy program plus giving us a chance for a good public relations gesture with the City Counselmen.

Bates E. Wilson

ARCHES-NATURAL BRIDGES NATIONAL MONUMENTS
 NOAR, UTAH 84532

A 2823

June 12, 1964

Memorandum

To: Director
 From: Superintendent
 Subject: Superintendent's Monthly Narrative Report, FPS (AM)-4,
 May, 1964.

General

Weather Conditions: The temperatures varied considerably during the month to bring us a slightly cooler May than is usual. There were many cloudy days which retarded somewhat the spring run-off on the nearby La Sals. A summary follows:

<u>May</u>	<u>1964</u>	<u>1963</u>	<u>Normals</u>
Maximum Temperatures	96	92	93.5
Minimum Temperatures	39	40	37.5
Mean Temperatures	62.4	76.7	64.3
Precipitation	.78"	Trace	.72"

Travel: There has been a decrease in visitation, but surprisingly an increase in campers. A summary follows:

May	Visits	Variation	Cumulative	Variation	Campers
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ARCHES

1964	11,140		27,852		1,662
1963	14,046	-21%	30,817	- 9.6%	1,545

NATURAL BRIDGES

1964	939		1,742		50
1963	1,123	-16.4%	2,184	-20.2%	145

Trail Use:

	<u>1964</u>		<u>1963</u>	
	<u>May</u>	<u>Cumu.</u>	<u>May</u>	<u>Cumu.</u>
Delicate Arch	245	912	423	1,246
Landscape Arch	222	1,424	418	998
Double O Arch	429	590	212	385

Special Activities: Landscape Architect, Phillip E. Flores, Southwest Regional Office, inspected the Arches sign and wayside exhibit program on the 15th.

Miscellaneous: A graduation exercise and contest was held on May 10 for members of the volunteer search and rescue trained by Monument personnel. The contests included special techniques used in rock climbing and rescue work. A program is attached.

Administration

Safety and Health: There were two personal injury accidents during the month, both occurring to rock climbers. Accident reports have been submitted.

A total of 19½ man hours were devoted to various types of rescue and other safety training during the month, plus a one hour bicycle safety session conducted for 17 monument children.

A formal safety program was initiated on the 28th. Surv. Ranger Robert J. Ferris has been appointed Chairman of the Monument safety program for the period June 1 to December 31, 1964.

Conservation, Interpretation, and Use

Interpretive Facilities: Mr. Gilbert D. Zigler of the Regional Office was here May 21-25 repairing the audiovisual projector. Several improvements were made but it still does not function properly.

A new signing arrangement has been worked out, directing vehicles from the checking booth to the Visitor Center parking area and the Visitor Center sign enlarged and made more attractive which has greatly increased the Visitor Center use.

Interpretive Services: At Arches, 5,655 Visitor Center contacts were made, the audio-visual program was shown 6½ times to a total of 96½ viewers and the Wayside Exhibit Register was signed by 1,198 visitors. Four off-site talks were conducted for 17½ people and 6 guided tours of Monument areas were conducted for 218 people.

At Natural Bridges, 41 visitor contacts were made, the register was signed by 207 visitors and an estimated 10½ took the Owachoma Nature Trail walk.

Protection: Memorial Day weekend presented many protective problems as available funds prohibited us from having any seasonal protection personnel on duty. A number of verbal and written warnings were issued for rock collecting, driving off the established roads, carving initials on Monument features, speeding, and other infractions.

A Mr. Oliver Hermanns, Route 3 Redlands, Grand Junction, Colorado lost his horse valued at \$600.00 on the 29th when he attempted to lead it under Delicate Arch. The horse lost its footing and fell into the blow-out basin some 150 feet below. Incidentally, the riders had been warned by ranger personnel on the 28th not to attempt to take their horses to the Arch. Other riders in the party tied their horses in the area designated and hiked the remaining distance.

The Grand County Sheriff was called in on the 30th to assist with the investigation of a theft at Monument headquarters. Two gas cans were stolen.

Wildlife: A Bighorn ram was observed by Naturalist Canter near the Silver Stairs in the proposed Canyonlands National Park area on June 2. A badger was reported by a visitor near the Delicate Arch-Devil's Garden road junction on the 19th and a specimen of the rare spotted night snake was collected on the 29th.

Maintenance: Maintenance and protection personnel have been pushing the sign program along the new portion of the Devil's Garden road to get ready for the heavy travel season. To date no work has been received from the Central Sign Shop regarding the 12 directional signs ordered on April 4.

The placing and anchoring of tables, charcoal burners, and garbage cans in the new campground is being carried on by day labor, using our maintenance personnel.

All culverts have been painted a rembrandt brown blend with the color of the sandy soil.

The new loop route through the Fiery Furnace was measured on the 7th. The results: Main route - 6,200 ft., side routes - 2,300 ft., total distance or length, - 8,500 ft. The walking distance, which includes the return from side trips, 10,800 feet or 2.04 miles.

Resource Planning

Co-operation with other Agencies: Naturalist Canter accompanied Drs. Welch and Moore, collaborators from Brigham Young University, on a plant study trip into the Canyonlands. The party collected approximately 183 specimens of plants which will be identified, mounted, and labeled by Drs. Welch and Moore, and presented to the NPS. Present plans are for subsequent trips this year and to publish a report on the plants of the Canyonlands.

Arches has received approximately 200 herbarium sheets from Brigham Young University. This brings the herbarium collection at Arches to about 300 species. The publication, "Plants of Arches," is in the process of being printed and should be made available by about July 15.

Public Affairs

Public Relations: On the 13th the Moab City Fire Department was invited to participate in a building fire rescue training session conducted by Chief Ranger Mabery. Sixteen members of the Fire Department, 6 members of the search and rescue squad, and 7 members of the Arches staff attended the 2-hour session. (See letter from the Fire Dept. attached) Techniques taught were those developed by Ranger Mabery for which, I believe, he received an incentive award from the Western Region in 1960.

Bates E. Wilson
Superintendent

Attachments: 2

ARCHES-NATURAL BRIDGES NATIONAL MONUMENTS
MOAB, UTAH 84532

A 2823

July 7, 1964

Memorandum

To: Director

From: Superintendent

Subject: Superintendent's Monthly Narrative Report, NPS (AM)-4,
June, 1964.

General

Weather Conditions: June, like May, was cooler than is normal. High winds prevailed throughout most of the month, causing minor damages to buildings and other facilities. A summary follows:

<u>June</u>	<u>1964</u>	<u>1963</u>	<u>Normals</u>
Maximum Temperatures	99	101	103.4
Minimum Temperatures	46	49	47.0
Mean Temperatures	70.1	76.9	72.5
Precipitation	.53"	.22"	.43"

Travel: June saw a decrease in visitation for both monuments. Nevertheless, at Arches the number of campers increased. A summary follows:

<u>June</u>	<u>Visits</u>	<u>Variation</u>	<u>Cummulative</u>	<u>Variation</u>	<u>Campers</u>
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ARCHES

1964	18,276		46,128		2,295
1963	19,632	- 6.9%	50,449	- 9.3%	1,733

NATURAL BRIDGES

1964	1,744		3,486		127
1963	2,387	-23.2%	4,571	-23.7%	257

Trail Use:

	<u>1964</u>		<u>1963</u>	
	<u>June</u>	<u>Year</u>	<u>June</u>	<u>Year</u>
Delicate Arch	584	1,496	466	1,812
Landscape Arch	1,216	2,640	887	1,885
Double O Arch	303	893	377	599

Visitors: 6/23 Assistant Secretary John Carver, USDI.
6/29 Civil Engineer James L. Bainbridge and family,
WODC.

Special Activities: On June 20th Superintendent Wilson met members of the subcommittee on National Parks and Recreation, House committee on Interior and Insular Affairs, at the Moab Airport and guided them on an aerial tour of Canyonlands. After the flight, the members of the committee were taken to Monticello by automobile where hearings on H.R. 6925 and S. 27, Bills to provide for establishment of the Canyonlands National Park, were held. Assistant Secretary Carver attended the hearings and then made an overnight trip into the Needles.

On June 27th, Superintendent Wilson left for Washington to assist the Director as technical witness in his presentation to the subcommittee on H.R. 6925 and S. 27. This hearing was held on June 29.

Mr. Gilbert Wenger, Museum Planner, Western Museum Laboratory, was at Arches and Natural Bridges National Monuments for the period 6/12-17/64, planning the exhibits for the new visitor center at Natural Bridges. June 12 was spent at Arches discussing museum plans with Superintendent Wilson and Naturalist Canter; June 13 thru 15 was spent at Bridges studying the area with Naturalist Canter; June 16-17 was spent at Arches firming up plans for the individual exhibits.

Administration

Personnel: Natural Bridges was manned with a seasonal ranger on June 4th.

An orientation training session was conducted on June 3rd for new personnel. Six members of the permanent staff also participated.

The annual training report has been submitted.

Safety and Health: A general safety meeting was held on the 19th with the entire permanent staff and three seasonals participating.

One personal injury accident occurred which involved a rescue from the Fiery Furnace area by rangers and members of the volunteer search and rescue team.

Conservation, Interpretation, and Use

Interpretive Facilities: A revised self-guiding Auto Tour Leaflet has been received from Southwestern Monuments Association, 12,000

copies. The leaflet sells for 5¢ and has been very well accepted by the park visitors.

Plans have been drawn up for a temporary amphitheater for the Devil's Garden Campground. We are waiting for recommendations from Region on the type of equipment which we should acquire for the installation.

The audiovisual program in the visitor center is out of operation. The spare control panels have been installed, however, we were unable to get the equipment back into operation. The trouble is most likely in the projector. Mr. Zeigler of the Regional Office advised us on his last visit to Arches, that the projector was in very bad condition and was not worth the necessary spare parts to fix it properly.

Interpretive Services: At Arches 10,465 Visitor Center contacts were made. The audiovisual program was presented 180 times to a total of 2,171 people, and 2,620 visitors signed the visitor register at the Balanced Rock. One on-site talk was given to six people, four off-site talks were given to 149 people and the film, "The Sculptured Earth", was shown once to 20 people. Two guided trips into the Fiery Furnace were given to a total of 26 people.

At Natural Bridges, 275 visitor contacts were made, 675 people signed the visitor register and an estimated 338 visitors took the Owachomo Nature Trail walk.

Research and Observations: Dr. Glenn Moore of the Brigham Young University, Department of Botany, spent five days at Natural Bridges studying the plants of the area.

Protection: With the addition of a seasonal ranger on the 14th, evening patrols were extended from 9 to 11 p.m.

A box of dynamite was discovered in the wash about half a mile south of Headquarters at Arches on the 21st. With the help of the County Sheriff, it was destroyed by burning.

Now that the new campground gives ready access to the back of Skyline Arch, it might tempt visitors to climb to the arch. To discourage this, rocks were removed from the base of the arch on the 23rd. On the same day, two men were caught with their jeep off the road in the Courthouse Wash area. At our request, they removed the wheel tracks which were visible from the park road.

On the 26th, Mrs. W. S. Barnard lost a purse containing \$500.00 worth of travelers checks. Rangers recovered the purse but the checks were gone. Local merchants were notified and given the check numbers.

First Aid and rescue caches are planned for the Devil's Garden and Fiery Furnace Areas.

Insects and Tree Diseases: The semi-annual insect report for the period January - June has been submitted.

Building Fire Protection: The hydrant and hose house near Quarters No. 11 has been completed, supplied, and readied for use.

Wildlife: Between the 8th and the 13th, Ranger Ferris was with Fish and Wildlife Biologist Les Robinette in the Oak Creek Mountains near Delta, Utah, to learn the faun tagging technique developed by him. A special report will be submitted.

A deer was killed by a visitor car near the Delicate Arch, Devil's Garden road junction on the 12th.

Maintenance: The installation of fireplaces and garbage cans in the new campground was completed.

Ditches were cleaned and several culverts were replaced on the dirt roads. All down spouts along the paved road shoulders were repaired and stabilized as needed.

Work was done on the Fiery Furnace route and walks in the Devil's Garden were shored up with back fill.

The fence in Courthouse Wash was repaired.

The surface of the trail leading to the Fiery Furnace route was bladed and filled with shale.

The fill was replaced in Salt Wash and Winter Camp Canyon Crossings and the dirt roads were bladed following the rain of the 17th.

Work has continued on signing the new section of road between the Balanced Rock and Devil's Garden. We are still waiting for the 13 new signs submitted to the Central Sign Shop at Grand Canyon in March. All erected wooden signs have been treated with a wood preservative.

At Natural Bridges, sign, trail, and clean-up work has constituted a big share of the maintenance work. The water pump was out of service for over a week while undergoing repairs.

Complaints: Several visitor complaints have been received due to the lack of guided tours into the Fiery Furnace area. Due to the shortage of personnel it has been possible to conduct these trips only periodically.

Resource Planning

Co-operation with Other Federal, State, and Local Areas: On the 27th Chief Ranger Mabery and 3 members of the volunteer search and rescue team assisted the Grand County Sheriff's Office in an all night recovery of the body of a woman who had fallen 400 feet to a rock ledge below the White Rim. The accident occurred some 25 miles down the Colorado River below Noab.

Co-operating Non-Government Agencies: The semi-annual inventory of Southwestern Monuments Association items indicates that \$1,772.51 worth of items were sold at Arches during the first six months of 1964.

Roby R. Mabery
Acting Superintendent

Arches-Natural Bridges National Monuments
Hob, Utah

A 2823

August 7, 1964

Memorandum

To: Director

From: Superintendent

Subject: Superintendent's Monthly Narrative Report, NPS (AM)-4,
July, 1964

General

Weather Conditions: July was warmer than July of 1963 and also warmer than the 61 year normal for the month. On 25 days of the 31 in the month, the temperature was 100° or over.

<u>July</u>	<u>1964</u>	<u>1963</u>	<u>Normals</u>
Maximum Temperatures	105°	101°	101.7°
Minimum Temperatures	52°	49°	53.7°
Mean Temperatures	83.6°	76.9°	78.8°
Precipitation	.66"	.22"	.75"

Travel: July saw a decrease in visitation at Arches but an increase in camper use. Travel increased at Natural Bridges during the month but camper use is down for the month and the cumulative total for 1964 is behind that of 1963. A summary follows:

<u>July</u>	<u>Visits</u>	<u>Variations</u>	<u>Cumulative</u>	<u>Variations</u>	<u>Campers</u>
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ARCHES NATIONAL MONUMENT

1964	16,040		62,168		2,316
1963	16,920	- 6%	67,362	- 19%	1,564

NATURAL BRIDGES NATIONAL MONUMENT

1964	2,174		5,660		99
1963	1,840	+16%	6,411	- 12%	176

Trail Use:

	<u>1964</u>		<u>1963</u>	
	<u>July</u>	<u>Year</u>	<u>July</u>	<u>Year</u>
Delicate Arch	387	1,883	464	2,276
Landscape Arch	715	3,355	626	2,511
Double O Arch	228	1,121	171	760

Visitors: 7/14-7/30 Lloyd M. Pierson, Superintendent DeSoto National Monument, visited Arches and the surrounding area.
7/24/64 Charles Novak, Regional Engineer, Midwest Region.

Special Activities: Superintendent Wilson was on special assignment with Secretary Udall, Superintendent Eden, Glen Canyon, and members of his staff in a study of Lake Powell and the Glen Canyon N.R.A. boundaries in the Escalante region, July 11-16.

Engineer Bill Fields, Southwest Region, spent the 8th and 9th at Natural Bridges inspecting matters pertaining to the well project.

WODC Engineer Neil Grunigen inspected the road, building, and well projects at Natural Bridges on July 20th and 21st.

Miscellaneous: Park Ranger Thomas D. Mulhern, Jr. was married to Miss Judy Hunt of Fresno, California on July 12th. The new bride was added to the N.P.S. family upon their arrival at Arches on the 18th.

Administration

Management Analysis: An Incentive Awards meeting was held on July 8th for all employees. The meeting was followed up with the distribution of a memorandum with Suggestion Forms by Chief Ranger Mabery. As a result three suggestions have been submitted.

On July 15th the "Weekly Report of Daily Activities-Uniform Staff" forms were mailed to the Director covering the period, July 6th to 12th for both Arches and Natural Bridges. All uniform staff persons are using the forms pending the next call for remission of the forms to Washington.

Personnel: Seasonal personnel entering on duty July 1 included one Park Ranger and two Ranger Naturalists and one Laborer.

Park Ranger Thomas D. Mulhern, Jr. was on military leave July 1-18.

Supervisory Park Ranger Robert J. Ferris was on annual leave July 18-31.

Safety and Health: July 1 and 2 were clean-up days in the shops and maintenance yard and area in compliance with an earlier directive from the Director's Office.

Harold Shoemaker, Operator General, was injured on duty on July 20th, while running a rock drill in the Devil's Garden Campground. Accident resulted in four stitches being taken to close a wound on his nose.

Mrs. John Thomsen, visitor, was involved in a single car accident on July 11th. Driver lost control of the car while looking at scenery in the Courthouse Towers Section when approaching a curve. Mrs. Thomsen received four broken fingers on the left hand in the accident. A road curve sign has been installed in the area of the accident.

A new stokes basket has been received and added to the Arches search and rescue cache. Twenty-one man-hours of training were devoted to the use of the stokes basket during the month.

Mrs. Harold J. Shoemaker entered the hospital in Grand Junction, Colorado for a spinal operation early in the month and is now recuperating.

It has been noted that the Arches entrance presents some degree of hazard to visitors entering the Monument from the north. The State Highway sign appears to direct motorists to turn before reaching the entrance road. Chief Ranger Mabery met with members of the Utah State Highway Patrol and Maintenance Department to discuss the matter on the 29th and 30th. The directional sign is to be moved to a better location, 30' of guard rail will be installed and one new sign erected.

Due to the arrival of the flash flood season a constant vigilance has been maintained by protection personnel at Natural Bridges to warn visitors of these dangerous conditions. It has been necessary to close the canyons to hikers on two occasions.

Conservation, Interpretation, and Use

Interpretive Facilities: Photographs have been received, and work has been started on new exhibits to be erected on the Rock Fall in the Window's Section, the origin of Salt Valley, and an exhibit on Skyline Arch.

Interpretive Services: At Arches, 9,988 Visitor Center Contacts were made, and 2,448 visitors signed the register at the Balanced Rock. A total of 27 guided trips were conducted through the Fiery Furnace for a total of 286 visitors. Two on-site programs were given to 65 people, and 5 off-site talks were given to 111 people. One bus tour was conducted for 30 visitors.

The hikes through the Fiery Furnace are now being conducted on a regular basis of 1 trip per day. The trip leaves the Fiery Furnace Parking Area at 9:00 AM, requires about two hours to complete and covers approximately two miles. The tours are very well received by the park visitors, and we have had numerous compliments on them. The visitors very much appreciate our attempt to keep the area in its natural state and enjoy the opportunity to hike through such a natural area on a conducted nature hike. At the present time the hikes are averaging 10 visitors per hike. It is believed that when bulletin boards are erected in the campground, and campfire programs are conducted that the number will probably just about double.

At Natural Bridges, 554 visitor contacts were made, 591 people signed the visitor register, and an estimated 270 people took the Owachoma Nature Trail walk.

Research and Observations: Several specimens of reptiles, amphibians, and insects have been added to the Monument's Study Collections.

Protection: Cattle were seen frequently in the Monument during the month near the Courthouse Wash Bridge and inside the boundary opposite the Uranium Mill.

Protection personnel made two inspection trips to Natural Bridges during the month pertaining to protection matters.

Visitors were warned several times during the month when trying to remove rock and plant material.

July 10th the Radio Telephone was installed in one of the vehicles for use at Arches.

A two-hour search was conducted on July 14th for a man reported lost in the Delicate Arch area, he was found making his way back to the road.

Flash floods necessitated considerable road work at Natural Bridges in order to keep it safe for travel by passenger cars.

Forest Fire Protection: Right-of-way burning along the road project at Natural Bridges is being done under the supervision of ranger personnel.

Insect and Tree Diseases: Five Pinon Pine Trees infected with "rips" were treated in the Devil's Garden Campground. A great deal of recent Porcupine Damage was noticed in the Campground, several trees inspected were 30 to 50 per cent killed by Porcupines.

Building Fire Protection: A building Fire Prevention Inspection was conducted at Natural Bridges on July 11 and a follow-up is being conducted.

The CO₂ fire extinguishers sent to Grand Junction for recharging and pressure testing were received back during the month. An extra 15 lb. extinguisher was sent down to Natural Bridges.

Sanitation: Restroom No. 1 in the Devil's Garden Campground was closed for most of the month when the septic tank drainage field had water seeping to the surface. Two adjoining campsites have been closed due to health hazards.

Wildlife and Fish Cultural Activities: A fawn was tagged in the Devil's Garden on July 19th in cooperation with the Utah Fish and Game Department. A young Mountain Lion was observed near the Salt Valley Wash Bridge during a night patrol on the 29th.

Maintenance: The short section of trail from the parking areas to the start of the Fiery Furnace was compacted and a culvert installed.

The foot bridge at the start of the trail up to Delicate Arch was rebuilt with new flooring and cables being installed. The old flooring

materials were used in building benches and a campfire circle in the group camping area in the Devils Garden Campground.

The parking area at the Cache Valley View Point was expanded, doing away with a safety hazard.

On July 17th the road to the Delicate Arch View Point was graded.

The sewer system in the Campground received attention July 20-21-22 with several holes being drilled in an attempt to improve the septic tank drainage. A total of 9 holes, 10 feet deep were drilled and shot.

The trail from the parking area to the South Window was graded, and received 15 cubic yards of base material on 200 feet of trail.

On the 21st the road was bladed from the paved road to Turnbow Cabin, and the Salt Creek crossing was put back in with about 8 loads of gravel after having been washed out by flood waters.

A Homelite-Bosch Electric Rock Drill was received during the month. This lightweight drill can be carried over the roughest terrain to do otherwise impossible jobs.

Public Affairs

General Publicity: A full-page feature article was run in the Moab Times Independent on July 9th on the new campground in Devil's Garden. The article contained seven photographs on the campground and received a prominent page in the newspaper.

The Moab Radio Station carried a weekly report on the number of visitors and campers using the Monument during the weekends.

Public Relations: On July 20 and 21 a group of Boy Scouts from Chautauqua County, New York visited Arches. The scouts received a tour of the monument, a short trip into the Fiery Furnace, rock climbing and mountain rescue demonstration by members of Moab's Explorer Post 315 under the direction of Chief Ranger Mabery, and listened to the first campfire talk to be given at the new Devil's Garden Campground, by Naturalist Canter. The Moab-Times Independent featured a full-page article on the visit which included two pictures of the event.

Bates E. Wilson
Superintendent

Arches-Natural Bridges National Monuments
Moab, Utah 81532

A 2823

September 9, 1964

Memorandum

To: Director

From: Superintendent

Subject: Superintendent's Monthly Narrative Report, NPS (AM)-4,
August, 1964

General

Weather Conditions: The weather at Arches was characterized with below-normal temperatures and precipitation. A heavy rainfall on the 9th caused flash flood conditions at Natural Bridges. A summary of Arches weather follows:

<u>August</u>	<u>1964</u>	<u>1963</u>	<u>Normals</u>
Maximum Temperatures	102°	101°	101.8°
Minimum Temperatures	46°	57°	53.0°
Mean Temperatures	77.5°	81.5°	80.2°
Precipitation	.26"	1.36"	.87"

Travel: Continuing the pattern for this year, visitation at Arches was down, but camping was up. This contradiction was not in evidence at Natural Bridges. A summary follows:

<u>August</u>	<u>Visits</u>	<u>Variation</u>	<u>Cummulative</u>	<u>Variation</u>	<u>Campers</u>
<u>ARCHES</u>					
1964	17,751		79,919		2,932
1963	19,956	- 11.0%	87,325	- 8.7%	2,020
<u>NATURAL BRIDGES</u>					
1964	2,163		7,823		188
1963	2,051	+ 5.4%	8,462	- 8.5%	265

Trail Use:

	<u>1964</u>		<u>1963</u>	
	<u>August</u>	<u>Year</u>	<u>August</u>	<u>Year</u>
Delicate Arch	885	2,768	703	2,979
Landsc ape Arch	1,097	4,452	950	3,461
Double O Arch	241	1,362	318	1,078

Visitors: 8/2/64 Supervisor Park Ranger Jack Clark, Hovenweep

Training Supervisor Frank F. Kowski and Training Specialist Howard H. Chapman, Horace M. Albright Training Center.

8/8/64 District Ranger Martin Benham and Family, Everglades.

Special Activities: Frank F. Kowski and Howard H. Chapman, Horace M. Albright Training Center, were at Arches August 3rd and 4th discussing the Joint Management Planning Program for Canyonlands with the Arches Staff. Superintendent Wilson was in the Regional Office August 7th and 8th pertaining to the same program.

WODC Engineer Neil Grunisen inspected the Natural Bridges road project on the 11th.

Miscellaneous: A Pot-luck dinner was held at the Arches Visitor Center for all Personnel and family members on the 13th.

Administration

Management Analysis: The incentive awards inducement program, started in July, was continued through August. The booklet, "Set your Sights," has been distributed to all personnel.

Personnel: Annual leave was granted to those employees with school children as follows:

Operator General H. J. Shoemaker,	August 3 - 7.
Supv. Ranger R. J. Ferris,	August 1 - 9.
Chief Ranger R. R. Mabery,	August 14 - 28.

Naturalist Stanley G. Canter was promoted from GS-7 to GS-9 effective August 30. Naturalist Canter was selected to attend the Department of The Interior Management Training Program, and departed for WASO on the 26th.

Park Ranger Thomas D. Mulhern has been designated Acting Park Naturalist until this vacancy can be filled.

At the moment, we are extremely short handed as all seasonal uniform personnel terminated prior to August 28th.

Safety and Health: Special Safety Assistant Maurice Thede inspected our safety conditions and program on the 7th. A documented safety program has been written and the monthly safety program was held on the 28th.

There were no accidents during the month, though a camper was stung by a scorpion at the Devil's Garden. Only minor affects resulted.

Due to flash flood conditions at Natural Bridges on the 9th, a family of three were trapped in White Canyon near Horse Collar Ruin. Seasonal Ranger, John R. Miller, waded water to his hips to reach the party and avoid panic. As soon as the stream had sufficiently receded for reasonably safe travel, Ranger Miller guided the party to safety which involved assistance at several stream crossings and climbing the canyon slopes and walls to avoid high water.

Conservation, Interpretation, and Use

Interpretive Facilities: The exhibits at the head of the Devil's Garden Trail and at Park Avenue have been reconditioned, photographs replaced, etc. A new one has been installed at Panorama Point covering the formation and geologic history of Salt Valley.

A Kodak Carousel 800 projector with a special wide angle lens, slide trays, and projection screen was received from the Southwestern Monuments Association on August 19th to be used for campfire programs. A special remote control unit for the projector is on special order by SMIA for Arches. A pipe frame for the projection screen is being constructed.

Interpretive Services: At Arches, 11,940 Visitor Center contacts were made and 2,740 visitors signed the visitor register at the Balanced Rock. A total of 26 guided trips were conducted through the Fiery Furnace for a total of 323 people, and two off-site talks were given to 48 people. A talk was given in the Visitor Center to 40 people. On August 21 the movie "Sculptured Earth" was shown 3 times to 52 people in the Visitor Center.

The slide program in the Visitor Center at Arches is still out of operation.

The last of the daily guided trips through the Fiery Furnace area was conducted on the 22nd. This popular service had to be discontinued due to lack of personnel and we have received our share of adverse comments by mail, telephone, and personal contact.

At Natural Bridges, 605 Visitor Center contacts were made, 500 people signed the visitor register and an estimated 225 people took the Ouachoma Nature Trail. One campfire program was conducted for 17 people and several conducted tours were given along the trails.

Research and Observations: At Arches, a turtle has been seen several times in a pond at Fresh Water Spring and Salt Wash, but so far it has alluded collection. It will be the first turtle to be scientifically recorded when it is identified as to species and photographed.

At Natural Bridges, two bats have been collected during the month and mounted. A horned toad was collected on August 18th and will probably become part of the Museum displays in the new Visitor Center when constructed.

Protection: Night patrols were cut from 11:00 to 9:00 p.m. on the 17th, and on the 28th these nightly patrols were reduced to three nights per week due to lack of personnel.

Two rattlesnakes have been removed from comfort stations in the Devil's Garden Campground. A sick bat was caught and sent to the lab for rabies examination. Fortunately, the report was negative.

All padlocks on gates, buildings, and utilities were replaced with new ones for security.

Building Fire Protection: The annual building fire inspection was made on the 21st.

Forest Fire Protection: A lightning fire occurred at Natural Bridges on the 9th, but was rained out.

Sanitation: The drain field for the # 1 comfort station at The Devil's Garden Campground is inadequate. Holes were drilled and shot and additional materials hauled in an attempt to increase its capacity, but the station has remained closed during most of the month.

Wildlife: On the 13th a visitor came in with a fawn, which had been stunned when it ran into his car. This opportunity was used to tag the fawn which was returned to its mother in the Window Section. Since then the tagged fawn, with its plastic orange ribbons, has been observed in the same area. Another deer, killed by a car, was buried in the Windows Section on the 31st.

Seasonal Laborer Gary Laughter reported sighting ten Desert Bighorn Sheep just outside the boundary at Natural Bridges on the 17th.

Resource Planning

Proposed Park Areas: On the 19th of August by unanimous decision the House of Representatives passed a bill establishing Canyonlands National Park. The bill has been approved by the President's special investigating committee, and is now awaiting the President's signature.

Cooperating Non-Government Agencies: During the month \$1,300 was sent to Southwestern Monuments Association from sale items. Sale of 35 mm film was terrific, over 100 rolls being sold during the month.

Public Affairs

Public Relations: Arches and Natural Bridges again participated in the San Juan County Fair at Monticello, Utah on August 14 and 15 along with Hovenweep. This was the third successive fair in which we have maintained a NPS booth. (See photos attached) Some 1,400 persons attended the two-day affair, and an estimated 300 persons viewed the 16 slide shows presented.

Roby R. Mabery
Acting Superintendent

Attachment:

Arches-Natural Bridges National Monuments
Hoab, Utah

A 2823

October 15, 1964

Memorandum

To: Director

From: Acting Superintendent

Subject: Superintendent's Monthly Narrative Report, NPS (AF)-1,
September, 1964

General

Weather Conditions: Temperatures were normal, but rainfall was somewhat less than usual. A summary follows:

	<u>September</u>	<u>1964</u>	<u>1963</u>	<u>Normals</u>
Maximum Temperatures		95	96	97
Minimum Temperatures		40	45	38.5
Mean Temperatures		66.5	71.3	67.4
Precipitation		.36"	.64"	.98"

Travel: Camping continued its increase over last year. Travel was down. A summary follows:

<u>September</u>	<u>Visits</u>	<u>Variation</u>	<u>Cumulative</u>	<u>Variation</u>	<u>Campers</u>
<u>ARCHES</u>					
1964	10,670		99,589		1,567
1963	13,281	-19.7%	100,606	-10%	912
<u>NATURAL BRIDGES</u>					
1964	1,156		8,978		150
1963	936	+23.5%	9,398	-4.5%	122

Trail Use:

	<u>1964</u>		<u>1963</u>	
	<u>September</u>	<u>Year</u>	<u>September</u>	<u>Year</u>
Delicate Arch	646	3,414	665	3,644
Landscape Arch	691	5,143	512	3,973
Double O Arch	135	1,479	144	1,293

Visitors: 9/9, William Broom, Regional Historian, SWRO
9/10, William Gray, Historian, Petersburg National Battle-
field, Virginia.
9/30, John O'Brien, Supv. Park Ranger, Colorado National
Monument.

Special Activities: The Canyonlands National Park area was inspected by the following personnel on September 24 - 27, pertaining to planning, boundary studies, etc. Roger W. Allen, Assistant Regional Director, SWRO., Joseph F. Carithers and Albert G. Henson, Park Planners, SWRO, and Herrick Smith, Supv. Landscape Architect, WODC. The group was accompanied and guided by Superintendent Fates E. Wilson and Chief Ranger Mabery.

Administration

Personnel: Superintendent Wilson was presented with his 30 year pin for continuous Government Service at a staff meeting held at Arches on the 17th. A memorandum of commendation from Regional Director Beard was read by Administrative Assistant Yardic.

Seasonal Ranger John C. Miller, Ranger-In-Charge at Natural Bridges terminated on September 5.

Safety and Health: A safety meeting was conducted on the 17th at which time the use of the new Clar-Air (air-to-mouth) resuscitator was demonstrated by Chief Ranger Mabery. Three of these resuscitators have been purchased for emergency use at Arches and Natural Bridges.

In accordance with recommendations made at a previous safety meeting the low-hanging power lines behind the trailer quarters and quarters 11 have been removed.

A bicycle safety training session for Monument children was conducted by Ranger Ferris on the 25th.

There were no accidents or injuries of any type during the month.

Conservation, Interpretation, and Use

Interpretive Facilities: A horned toad, to be used in the Natural Bridges Exhibits, was shipped to the George Marchand Studio, Ann Arbor, Michigan for mounting.

A trip was made to Natural Bridges by Acting Naturalist Thomas D. Mulhern on the 9th to check on the interpretive possibilities at two view points, and the location of an archeological site on the new road line.

A new storage cabinet was received during the month for storage of part of the Arches study collection.

Interpretive Services: At Arches, 7,202 Visitor Center contacts were made and 1,786 visitors signed the visitor register at the Balanced Rock. Two off-site talks were conducted for 36 people and one on-site talk was given for 32 visitors. On the 16th a conducted tour and talk was given for 30 fifth grade students from Moab.

Due to a lack of personnel, only two conducted trips through the Fiery Furnace area could be made. One party made a special trip to Arches to see this area.

At Natural Bridges, 501 Visitor Center Contacts were made, 611 visitors signed the register and an estimated 307 took the Owachomo Nature Trail walk.

Research and Observations: Research pertaining to Mr. Zeke Johnson, former Custodian at Natural Bridges, was carried on in preparation for an exhibit to be used in the Natural Bridges Visitor Center.

Protection: More rattlesnakes turned up in the restrooms at the Devils Garden Campground during the month. Flexible weather stripping has been installed on the bottom of the doors to prevent snakes from sliding under them.

A purse containing \$200.00 in traveler checks, lost on the 19th, was found on the 20th by Maintenanceman Art Safford and returned to the owner.

A request on the 21st by a party of rock climbers to climb the Three Gossips and other Monument features was denied.

Two campers with horses were removed from the Devils Garden Campground on the 10th and permitted to camp near Turnbow Cabin. Rangers explained the health regulations and the party was delighted to move.

Verbal warnings were issued for littering and to several parties for driving off the established roads.

Building Fire Protection: Fire prevention literature has been distributed to Monument personnel and Ranger Mabery has arranged to conduct talks and demonstrations for some 1,500 school students and teachers in Moab as a part of the Fire Prevention Week program.

Sanitation: Sources of water supply at Natural Bridges were inspected by Lee Roy Lunsford, U. S. Department of Health, Education, and Welfare Sanitary Engineer Consultant, Denver, and Edwin Clay, Utah State Sanitary Consultant, Price, Utah, on the 22nd.

Maintenance: Realigning, widening, and compacting of the Windows trail has been completed.

Six man days were spent repairing the road into the old headquarters site at Natural Bridges.

Cooperating Non-Government Agencies: During the month \$842.10 was sent to the Southwestern Monuments Association from sales items at Arches and Natural Bridges.

Public Affairs

General Publicity: The September 17 issue of the Hoab Times Independent ran a full page and an editorial on Canyonlands, our nation's 32nd National Park.

Roby R. Mabery

Arches-Natural Bridges National Monuments
Moab, Utah

A 2831

November 10, 1964

Memorandum

To: Director

From: Acting Superintendent

Subject: Superintendent's Monthly Narrative Report, NPS (AM)-4,
October, 1964

General

Weather Conditions: This was a warm, sunny, and dryer-than-usual October. A summary follows:

<u>October</u>	<u>1964</u>	<u>1963</u>	<u>Normals</u>
Maximum Temperatures	92	92	85.5
Minimum Temperatures	28	34	30.0
Mean Temperatures	56.4	62.77	54.9
Precipitation	.0"	.92"	.99"

Travel: Visitation was down for both monuments and camping decreased at Natural Bridges. The only increase over last year's figures was the camping figure at Arches. A summary follows:

<u>October</u>	<u>Visits</u>	<u>Variation</u>	<u>Cumulative</u>	<u>Variation</u>	<u>Campers</u>
<u>ARCHES</u>					
1964	5,428		96,017		664
1963	8,908	-39%	109,514	-11.4%	1411
<u>NATURAL BRIDGES</u>					
1964	970		9,949		664
1963	1,037	-6.4%	10,435	-4.7%	72

Trail Use:

	<u>1964</u>		<u>1963</u>	
	<u>October</u>	<u>Year</u>	<u>October</u>	<u>Year</u>
Delicate Arch	400	3,814	381	4,025
Landscape Arch	451	5,594	362	4,335
Double O Arch	103	1,600	111	1,334

Visitors: 10/24, John H. Broadbent and family, Chief Park Ranger, Carlsbad.
Dickie Stansbury, C. & K. Supervisor, Flaming Gorge.

Special Activities: Canyonlands has been established as our 33rd National Park and Superintendent Wilson has been in the area with various planning groups throughout most of the month. Inspection teams and planning groups have included engineers, architects and park planners from the WACO, CDC, and Regional staffs.

On the 15th Superintendent Wilson met Secretary Udall in Salt Lake City where his appointment to Superintendent of Canyonlands and promotion were announced to the public at a press conference held by the Secretary.

Miscellaneous: Personnel for Canyonlands have been selected and will be reporting for duty soon. As a result this will, no doubt, be my last Superintendent's Monthly Narrative to submit for Arches and Natural Bridges. In this space I take the liberty of expressing my appreciation and thanks to Superintendent Wilson for this assignment. I feel that during the past 3 years that I have been preparing, and often submitting these reports I have gained valuable experience and training that I could not have gained otherwise. For this I am grateful. I have enjoyed this responsibility and will miss it very much.

Administration

Personnel: Bates E. Wilson was promoted from Superintendent, Arches-Natural Bridges, GS-12, to Superintendent Canyonlands, Arches & Natural Bridges, GS-13, effective October 25.

Administrative Assistant George T. Yardic, GS-8, has been selected for transfer to Administrative Assistant, GS-8, Lava Beds.

Personnel Officer Kent J. Wintch, GS-11, Rocky Mountain, was selected to fill the position of Administrative Officer, GS-11, Canyonlands, Arches and Natural Bridges and reported for duty on November 1.

Forms 19-89 for Arches ranger personnel were revised, reviewed and submitted during the month.

Safety and Health: There were 2 personal injury accidents and one motor vehicle accident during the month. All occurred to visitors and special reports have been submitted.

The monthly safety meeting was held during the first week of the month. A copy of the minutes was submitted to the Regional Director.

Conservation, Interpretation, and Use

Interpretive Facilities: All equipment, excepting one Kodak Carousel Projector is on hand to rebuild the audiovisual slide show for Arches. Slides used in the Selentroslide unit have been remounted to fit the Carousel Projector and new tapes for installation have been received from WASO.

Interpretive Services: At Arches, 3,174 Visitor Center contacts were made and 1,097 visitors signed the register at the Balanced Rock. Due to lack of personnel only one conducted trip was made through the Fiery Furnace for 14 visitors. Four off-site talks were conducted for 94 people. The movie "In Honor of Liberty" was shown to 24 visitors at Arches and to 72 people in 6 showings in Moab.

At Natural Bridges, 301 visitor contacts were made, 388 visitors signed the register and an estimated 194 took the Owachomo Nature Trail walk.

Research and Observations: An inquiry from Keith Dixon, Associate Professor of Zoology, Utah State University regarding possible research in Canyonlands was received and answered during the month.

The Archeology and Historic Site Base map for Arches has been completed and forwarded to Region for duplication.

Protection: Daily boundary patrols were maintained during the deer hunting season, October 17 - 27. Due to lack of uniform personnel it was necessary to use maintenance personnel on a 4 patrols per week schedule. Although it is quite evident that several would-be violations were deterred, none were detected.

On October 9 a stranded climber was rescued from a ledge in the Delicate Arch section of the Monument, by ranger personnel and members of the volunteer search and rescue unit trained at Arches.

Wildlife Activities: A canyon wren flew into the Arches Visitor Center on the 3rd, flew to the information desk clipped at the ranger on duty then flew back out the door.

A Golden Eagle was observed near Klondike Bluffs on the 4th and a covey of 15 chuckers were seen crossing the road just above headquarters on the 23rd.

Boaters reported sighting 17 Desert Big-Horns in two groups about 12 miles above the confluence, within Canyonlands, on the 18th.

Pellet counts during the month indicates that the deer population at Arches may be increasing.

Maintenance: The water system at the Devils Garden Campground has been drained and comfort stations closed for the winter. Pit toilets were erected for winter use.

A new Dodge dump truck was received during the month.

Visitor Comments: Favorable comments, both oral and written, continue to be received regarding the self-guiding auto tour for Arches.

Resource Planning

Cooperating Non-Government Agencies: A total of \$654.00 was sent to the Southwestern Monuments Association during the month from sales items at Arches and Natural Bridges.

Public Affairs

Public Relations: During Fire Prevention Week, October 4 - 10, fire prevention talks were conducted to 1,543 students and faculty members during 6 different talks at the four schools in Moab in cooperation with the Moab Volunteer Fire Department.

Roby R Mabery
Acting Superintendent

DESIGN AND CONSTRUCTION

Project 1 (1), Bituminous Surfacing, Arches Entrance Road: Bids for this project were opened in the Regional Office on September 1, 1964 and the contract was awarded to Corn Construction Co., Grand Junction, Colorado, the low bidder. The sub-contractor continued intermittent crushing of aggregate during October. Prime contractor moved in and set up his asphalt mixing plant the week of October 25. Road edges were primed the full length of the project on October 30 and 31. The project is now 16% complete.

Project R-14 - Natural Bridges Loop Road: Bids were opened in the Regional Office on August 18, 1964 and the contract awarded to McGeechie Construction Co., Box 480, Cortez, Colorado. Notice to proceed was issued on October 1 and October 10 was established as the starting date. Contractor moved equipment into the area on October 27 and started clearing operations on the 28th. The visitor center parking area and the road to station 8 + 00 are cleared. A pre-construction conference is scheduled for November 4.

Project NN-W-543 - Natural Bridges Residence and Apartment Building: Low bidder was Slavens Hardware and Lumber Co., Moab, Utah. Notice of award was issued on July 17, 1964 and August 4 was established as the starting date. Wall texturing has been completed in the apartment building and heating systems are being installed in all buildings. Work progress is good and the project is about 80% complete.

Project 3WR-6413 - Water, Well, Natural Bridges: Bids were opened on April 30, 1964 and contract awarded to low bidders Perry Brothers Drilling, Flagstaff, Arizona. Notice to proceed was issued on June 1 and June 7 was recorded as the starting date. Salt Water was encountered at a depth of 1,300 ft. and the hole was back filled to a depth of 650' and cased. Hole # 2 was started at approximately 165' to the left of station 0 + 75 on the main road in an attempt to produce more water. Water was found at approximately 600' in hole # 2. Drilling was stopped at 695' with a test yield of 6 to 7 GPM. This well has been cased and Perry Brothers moved their equipment out of the area on October 27.

Consultant Survey Party Contract # 14-10-0434-1477: Work on this project completed pending the need for blue tabs, etc., on the loop road. All trail survey work is complete and topo has been obtained for trails to be contracted in 1966 by.

F. J. ...

37 Canyonlands National Park
 27 Arches-Natural Bridges National Monuments
 47 Moab, Utah 84532

A 2823

December 5, 1964

Memorandum

To: Chief, Interpretation & Protection
 From: District Park Ranger, Arches
 Subject: Monthly Narrative Report, NPS (AM)-4, November 1964

General

Weather Conditions: The month was somewhat warmer than is usual for November. A summary follows:

<u>November</u>	<u>1964</u>	<u>1963</u>	<u>Normals</u>
Maximum Temperatures	73	71	68.7
Minimum Temperatures	20	19	20.7
Mean Temperatures	49.6	47.2	41.5
Precipitation	.49"	.16"	.65"

Travel: Visitation and camping were down at both monuments, perhaps due in part to the Worlds Fair holding the eastern visitors in the east. A summary follows:

<u>November</u>	<u>Visits</u>	<u>Variation</u>	<u>Cummulative</u>	<u>Variation</u>	<u>Campers</u>
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ARCHES

1964	2,240		98,257		54
1963	5,936	-62.17%	115,450	-14.9%	91

NATURAL BRIDGES

1964	492		10,441		2
1963	937	-47.5%	12,675	-17.6%	11

Trail Use:

	<u>November</u>	<u>1964</u>	<u>Year</u>	<u>November</u>	<u>1963</u>	<u>Year</u>
Delicate Arch	141		3,955	215		4,240
Landscape Arch	137		5,731	164		4,499
Double O Arch	43		1,643	77		1,411

Boat Operator Tex McClatchy reported 34 visitors in 3 boats on the Colorado River during the month.

Visitors: 11/05, Richard M. Brown, Chief Park Naturalist, Crater Lake.
Robert C. Carpenter, Chief Park Nat., Lassen Volcanic.
11/10, John Mulady, Chief Park Ranger, Glen Canyon.
11/11, Jack Clark, Supv. Park Ranger, Hovenweep.
11/16, Richard C. Miller, Personnel Officer, Yellowstone.
11/29, Mrs. Betty Pursell, Publisher, Utah Sports and Vacation Guide, Salt Lake City.

Special Activities: A Pre-Construction Conference on the Natural Bridges Loop road was held at Natural Bridges on the 4th, with the District Ranger representing the Superintendent. Others present were: Vernon M. Anderson, Landscape Architect, WODC; John C. Ballard and Gary E. Laughter, Project Supervisors; and M. F. McGechie, President and Al J. Murdock, Superintendent, McGechie Construction Company.

The Arches Entrance Road project was inspected by BPR personnel, J. Q. Adair, District Engineer, and Area Engineers Sheldon C. Turnidge and Archy Meadows, on the 19th.

The District Ranger held a pre-construction conference with the Corn Construction Company, on the Arches Service Road project on the 25th and a pre-final inspection on the 29th. In attendance were Evan Callister BPR., and Wilber Graham, Superintendent for Corn Construction.

Administration.

Personnel: Dennis L. Carter, Naturalist, GS-7, EOD November 8.

Administrative Assistant George T. Yardic transferred to Lava Beds National Monument effective November 8.

Supv. Ranger Roby R. Mabery was reduced in rank from Chief Park Ranger, GS-9 to District Park Ranger, I. & P., GS-9, Arches; and Robert J. Ferris from Supv. Park Ranger, Arches and Natural Bridges, to Park Ranger, GS-7, Arches, effective November 8.

Safety and Health: The monthly safety meeting was held on the 20th. A clean-up, pick-up date of the last Friday in each month was adopted in accordance with a suggestion found in Acting Regional Safety Officer Stanley Broman's safety memorandum on November 4.

A safety film, "Safety Through Seat Belts", was shown to employees and family members on the 30th.

The Monument road was closed due to icy conditions on the 16th.

There were no ~~add~~ accidents, either vehicular or personal injury, during the month.

Conservation, Interpretation and Use.

Interpretive Facilities: A Grafsonic Cordless Remote, for use with the Carousel projector at the Devils Garden campfire programs, has been received.

Two books, Waterfowl Tomorrow and Standing Up Country, have been added to the Arches library during the month.

Interpretive Services: At Arches, 868 Visitor Center contacts were made and 261 visitors signed the Wayside Exhibit Register at the Balanced Rock.

Research and Observations: Four species of birds were added to the Arches list during the month. These included the Hairy Woodpecker, Bewick's Wren, Pine Siskin, and the American Goldfinch, which were observed by Naturalist Carter and Ranger Ferris.

Protection: District Ranger Mabery made two inspection trips to Natural Bridges during the month pertaining to protection and maintenance matters.

Two warnings (verbal) were issued to Corn Construction workers for hazardous conditions. One warning was issued through the Project Engineer and the other one to the workers on the site.

On the 16th a written warning was issued to a Mr. Karl D. Kisela of Arvada, Colorado for unsafe driving.

Wildlife Observations: Boaters on the Colorado River reported observing several Bighorn Sheep in the vicinity of Monument Basin. Sheep were reported in this same general vicinity in October.

Maintenance: Arches personnel assisted with setting up trailer quarters, and installing temporary water, sewer and electrical systems at Natural Bridges and Cave Spring during the month.

A 280' erosional control, spider fence was constructed along the east bank of Salt Wash near Turnbow Cabin as a part of the Arches soil and moisture project.

The Arches water supply was out of service for several days due to a burned out bearing in the pump on the 10th. The clothes dryer in the Apartment building was out of service for several days due to a burned out solinoid, which was repaired on the 17th.

The use of snow removal equipment was required on the Monument entrance road following a brief snow storm on the 16th.


Roby R. Mabery

Canyonlands National Park
 Arches-Natural Bridges National Monuments
 Moab, Utah 84532

A 2823

January 4, 1965

Memorandum

To: Chief, Interpretation & Protection
 From: District Ranger, Arches
 Subject: Monthly Narrative Report, NPS (AN)-4, December 1964

General

Weather Conditions: Weather during the month was characterized by above-normal temperatures and snowfall but below-normal precipitation. Snowfall resulted in closure of the Monument road during parts of the 10th, 12th, 18th, and 19th. A weather summary follows:

<u>December</u>	<u>1964</u>	<u>1963</u>	<u>Normals</u>
Maximum Temperatures	61°	55°	60.4°
Minimum Temperatures	11°	10°	3.8°
Mean Temperatures	35.4°	30.8°	31.4°
Precipitation	.42"	1.04"	.86"
Snowfall	2.7"	0.5"	.41"
Maximum depth	1.3"	0.5"	.37"

Decrease in Travel: There was a 46.9% decrease in visitation during the month while the annual travel is down 15.6% from last year. The big decrease in the annual figures occurred in November and December. This decrease may be attributed to several factors. Publicity resulting from the Canyonlands hearings in 1962 and 1963 no doubt attracted many visitors to the area. While the weather in Southeast Utah was generally favorable during November and December, it was mostly stormy all around us. A three-year summary follows:

<u>December</u>	<u>Visits</u>	<u>Variation</u>	<u>Cummulative</u>	<u>Variation</u>	<u>Campers</u>
1964	1,470		99,727		14
1963	2,766	-46.9%	118,216	-15.6%	4
1962	2,038	-27.8%	105,666	- 5.6%	8

<u>Trail Use:</u>	1964		1963	
	<u>Dec.</u>	<u>Year</u>	<u>Dec.</u>	<u>Year</u>
Delicate Arch	84	4,049	29	4,269
Landscape Arch	87	5,818	32	4,531
Double O Arch	43	1,686	14	1,425

Visitors: 12/1, Richard W. Russell, Chief Park Naturalist, Bryce Canyon.
 12/24, Alan Skinner, Park Guide, Lehman Caves.

Administration.

Personnel: The following annual leave was taken during the month.

Roby R. Mabery, 80 hours - Dec. 15 - 31
 Robert J. Ferris, 56 hours - Dec 14 - 19, 22 and 29.
 Thomas D. Mulhern, 48 hours - Dec. 23 - 31.
 Dennis L. Carter, 8 hours - Dec. 31.
 Bervil R. Rose, 104 hours - Dec. 14 - 31.
 Harold J. Shoemaker, 16 hours - Dec. 18 and 24.

Suggestions were received from Rangers Ferris and Mulhern, during the month, for submission to the Incentive Awards Committee.

Naturalist Dennis L. Carter attended the orientation trip into Canyonlands with the Canyonlands staff, December 7 - 11.

Safety and Health: On the 6th Ranger Mabery and BFR Engineer Evan Callister inspected the feasibility of placing guard rails on the hazardous curves on Whoa Hill where the late afternoon sun tends to blind motorists. Mr. Callister has agreed to submit cost estimates for the 1,050 feet of guard railing needed.

An order was submitted on the 11th for/safety posters and signs.

Conservation, Interpretation and Use.

Interpretive Facilities: A Kodak 700 Carousel projector was received during the month. Audiovisual projection equipment has been sent to Mr. Daniel Zigler at the Regional Office for assembling and making ready for operations.

The file on bird observations has been brought up-to-date.

Interpretive Services: The Visitor Center was manned on a 9 hour daily schedule excepting on Christmas day. 363 visitor center contacts were made and 146 visitors signed the Wayside Exhibit register at Balanced Rock.

Research and Observations: Limited research on the birds of the Monument was conducted during the month by Naturalist Carter and Ranger Ferris. As a result, 4 species were added to the Monument list bringing the total to 72 species. New additions included the Mallard, Song Sparrow, Long-billed Marsh Wren and Sage Sparrow, observed by Naturalist Carter.

Protection: Cattle were observed in the Monument on several occasions as a result of the stock drive up Courthouse Wash in November. Stockmen were notified and the cattle removed.

The Monument roads were closed to travel 4 times during the month due to hazardous conditions resulting from snow storms.

A Salt Lake Tribune reporter was reprimanded by Ranger Ferris on the 8th for driving on the Windows Trail with a Honda cycle.

A wrecker was called to assist a motorist who had driven off the roadway in the Windows Section on the 23rd. The vehicle was not damaged.

Maintenance: The sewer pipe at quarters # 8 became plugged with tree roots on the 10th and was out of service for two days while undergoing repairs.

Seven holes were drilled and shot in rock layers along the Monument roads to make it possible to erect directional and warning signs.

Some 46 yards of fill were hauled and spread to build up and repair road shoulders in the Headquarters area.

Visitor Comments: A very nice Christmas card and letter was received from a Helen Elise Biemiller of Earlville, N. Y. expressing gratitude for services rendered by the Arches staff while on vacation here last summer.

Resource Planning.

Cooperation with Other Federal Agencies: One of the Arches pick-ups was loaned to the U. S. Post Office Department, December 14 to 27, for use during the Christmas Holiday rush.

Cooperating with Non-Governmental Agencies: The inventory and sales report for the past 6 months period was submitted to the Southwestern Monuments Association during the month. Total cash receipts from sales items amounted to \$3,985.90.

Interpretive and Protection personnel took part in the annual Christmas bird count on the 22nd in cooperation with the National Audubon Society. Counts submitted included 23 species and 782 individual birds.

DESIGN AND CONSTRUCTION

No design and construction activities took place during the month.


Roby R. Watery