

Canyonlands National Park
Mab, Utah 84532

A 2823

January 8, 1966

Memorandum

To: Chief, Interpretation and Resources Management
From: District Park Ranger, Arches
Subject: Monthly Narrative Report, NPS (AM)-4, December 1965

Administration.

Weather Conditions: Comparatively warm weather prevailed as the mean temperature was 3.2 degrees warmer than last December and 2.6 degrees above normal. Precipitation was slightly below normal with 0.73" being recorded at headquarters.

The Arches weather data have been received from the Atlas Minerals Mill where observations are made each afternoon. Many times the snowfall will have melted and gone by early afternoon when as much as 1.5" could have been recorded at 8:00 am. Due to this fact the normals will now be based on a 5-year record of observations made at Arches at 8:00 am., beginning with December 1965. A total of 0.6" was recorded at headquarters which reached a depth of about 3.0" at the Windows and required closure of the Monument roads on 3 occasions. A summary follows:

<u>December</u>	<u>1965</u>	<u>1964</u>	<u>Normals</u>
Maximum Temperatures	57°	55°	60.4°
Minimum Temperatures	16°	10°	3.8°
Mean Temperatures	34.0°	30.8°	31.4°
Precipitation	0.73"	1.04"	0.86"
Snowfall	1.4"	0.5"	2.08"
Maximum Depths	0.6"	0.5"	1.58"

Increase in Travel: Visitor travel continues its upward trend with increases of 13.3% for the month and 44.2% for the year. Campground use increased 192.8% for the month and 79.8% for the year while trail use was down 174.3% for the month but was up 78.7% for the year. A travel summary follows:

<u>December</u>	<u>Visits</u>	<u>Variation</u>	<u>Year</u>	<u>Variation</u>
1965	1,666		143,901	
1964	1,470	+ 13.3%	99,727	+ 44.2%

Campground Use;

	<u>Month</u>	<u>Variation</u>	<u>Year</u>	<u>Variation</u>
1965	41		21,494	
1964	14	+ 192.8%	11,956	+ 79.8%

Trail Use:

	<u>Month</u>	<u>Variation</u>	<u>Year</u>	<u>Variation</u>
1965	78		20,646	
1964	24	- 174.3%	11,543	+ 78.8%

Visitors: 12/6, Marion Terry, Maintenance Foreman, Dinosaur
12/14, Joseph Muench, Photographer, Santa Barbara, Calif.
12/20, Jack Rowens, Adm. Assistant, Carlsbad Caverns
Buddy Martin, Supv. Park Ranger, Navajo

Administration.

Personnel: Ranger Mabery was notified on the 10th that he was to be reassigned and transferred to Grand Canyon effective Jan. 2. However, due to lack of housing facilities there the transfer was cancelled.

Naturalist Dennis L. Carter returned to duty on the 12th after having completed 424 hours of NPS training at the Horace M. Albright Training Center at Grand Canyon.

Arches personnel took 240 hours of, take or lose, annual leave during the month.

Ranger Mabery attended a Training Advisory Committee meeting in the Canyonlands Office on the 3rd.

Safety and Health: Ranger Ferris started off a seat belt safety campaign on the 4th with the distribution of seat belt reminder stickers for dash boards accompanied by a short memo.

A copy of "Family Safety" Magazine was routed to all families within the Complex beginning December 7.

A safety grille was constructed and installed over the air compressor belt in the Utility shop on the 9th.

Ranger Mabery entered dental surgery in Salt Lake City on the 29th for a periodontectomy, having small portions of the upper and lower, left jaw bones removed. He will return to work about January 3 or 4.

Conservation, Interpretation and Use.

Interpretive Facilities: The following books were accessioned to the Arches Library during the month as donations by the Southwestern Monuments Association: The Delight Makers, by Adolf F. Bandalier; Guarding the Treasured Lands, by Ann and Myron Sutton, The Snakes of Arizona, by Jack A. Fowlie; The North American Desert, by Edmond C. Jaeger, Stratigraphic Sections and Records of Springs in the Glen Canyon Region, by M. E. Cooley, and National Parks of the West, by the editors of Sunset Books. Ranger Follows added some 400 slides to the Arches files during the month.

Interpretive Services: At Arches, 289 Visitor Center contacts were made, (05A), a 20.4% decrease from last December. No talks or guided tours were conducted but the audiovisual program was presented 6 times to a total of 24 visitors, (03C). The Wayside Exhibit Register at Balanced Rock was signed by 88 visitors, (06F), and 33 roving contacts were made, (05C).

Research and Observations: Naturalist Carter and a companion, Larry Davis, found a long-eared owl in Lower Courthouse Wash on the 28th. This was an addition to the Monument bird list, (#116). A white-throated swift was observed flying around the visitor center on the 30th which constitutes the first winter observance of this species in Utah.

Protection: On the 3rd, a couple in a blue pick-up truck came to look at a sofa and chair in apartment 7-C, which had been advertised for sale by Ranger Follows. They loaded the furniture into their truck and drove off with it. It was learned on the 8th that the furniture had not been paid for and that Ranger Follows had no knowledge of its being picked up. The Sheriff's Office was notified on the 9th but to date the party taking the furniture has not been located.

The radio-telephone was removed from patrol pick-up #80468 on the 3rd.

Several early and late road patrols were made due to weather conditions and trail patrols were made to Double O and Delicate Arches on the 31st by Rangers Ferris and Carter.

Ranger Mabery made midnight patrols on the 10th and 11th when it was reported that High School groups might be planning a beer bust in the Monument. A few students were contacted on the night of the 10th and several 6-pack beer cartons were picked up from along the roadsides on the 12th but no organized party was detected on either night.

The Monument road system was closed to public use on the 15th, 22nd and 23rd due to hazardous driving conditions. "Icy Road" signs were constructed and maintained in places from the 22nd through the end on the month.

Rangers Ferris and Mabery went through the Lost and Found records and items on the 22nd and disposed of items in various legal manners. A special report to the files, A-62, has been submitted.

Wildlife: Ranger Ferris completed a graph showing data obtained during a 2-year observation period from the deer observation transects at Arches.

Maintenance: The insulation box installed over the stand-pipe near quarters # 8 last month did not keep the pipe from freezing. A drain cock was installed just above the valve, which is at ground level, ~~at~~ early in the month.

The trailer quarters at Arches was moved to the utility area and given a coat of paint when adverse weather conditions intervened. We are now awaiting suitable weather conditions to complete the job.

An effort to locate the leak in the Devils Garden water system continued into December. The Moab City metal detector was rented on the 8th and the water pipes located and marked on the ground and pavement. The leak, which turned out to be a leaky gate valve under the pavement near the campfire circle, was finally located on the 13th, after 46 man-hours of searching had been expended. The water system was drained on the 16th.

The hallway and Information Booth in the visitor center were painted on the 27th and 28th.

A leaky fuel tank on the Case Loader was repaired by Maintenance personnel on the 29th.

A snow-plow blade was installed on the Chevy Dump #66720 on the 28th and snow removed from the Monument roads on the 29th.

Resource Planning.

Cooperating Non-Governmental Agencies: The semi-annual inventory and sales report was prepared and submitted to Southwestern Monuments association at the end of the month. Cash received during the last 6-month period was \$5,715.18 compared to \$3,985.90 during the same period last year. Cash receipts for 1965 totalled \$8,302.21 compared to \$5,758.41 received during 1964.

Rangers Carter and Ferris and Seasonal Ranger Ted Tibbetts took part in the annual Christmas Bird Count in cooperation with the National Audubon Society, on the 29th. 36 species and 2,660 individuals were recorded in contrast to 23 species and 782 individuals last year.

Roby R. Mabery
Roby R. Mabery

Canyonlands National Park
Moab, Utah 84532

A 2823

February 7, 1966

Memorandum

To: Chief, Interpretation and Resources Management
From: District Park Ranger, Arches
Subject: Monthly Narrative Report, NPS (AM)-4, January 1966

Administration.

Weather Conditions: The monthly mean temperature was 7.5 degrees cooler than last year but still 0.8 degrees above normal. Precipitation and snowfall were somewhat below normal. A summary follows:

<u>January</u>	<u>1966</u>	<u>1965</u>	<u>Normals</u>
Maximum Temperatures	47°	59°	53.7°
Minimum Temperatures	8°	16°	- 3.0°
Mean Temperatures	29.6°	35.3°	28.8°
Precipitation	.17"	.19"	.73"
Snowfall	2.0"	Trace	2.55"
Maximum Depths	1.5"	Trace	2.17"

Decrease in Travel: While visitor use decreased 16.1% and trail use decreased 30.2%, campground use increased 157% over January 1965. A three-year comparison follows:

<u>January</u>	<u>Visits</u>	<u>Variation</u>	<u>Campers</u>	<u>Trail Use</u>
1966	1,776		18	60
1965	2,118	- 16.1%	7	86
1964	2,056	- 13.06%	2	105

Visitors: 1/31, H. Wayne Norton, Supv. Park Ranger, Great Sand Dunes.

Miscellaneous: A NPS Community Association for the Canyonlands Complex was formed and the first meeting held at the Arches Visitor Center on the 25th.

Mrs. Mabery and I took a 2-hour plane flight over Arches and Canyonlands on the 30th. We sighted a new arch, to us, north of Double O Arch. While collecting the Devils Garden trail registers on the 31st I hiked in to visit this arch on the ground. It appears to be a pothole arch that measures about 25' X 20' high. It is believed that there are 89 natural stone arches within the boundaries of Arches National Monument. My ambition has been to visit all of them on the ground. Thus far I have visited 64 and have viewed two others at a distance. I hope to be able to return some day to search out and visit the remaining 23.

Administration.

Personnel: District Ranger Mabery was selected for promotion and transfer to Carlsbad Caverns National Park as Chief Park Ranger GS-11. Supervisory Park Ranger H. Wayne Norton, Great Sand Dunes, has been selected to fill the vacated District Ranger position at Arches. Both transfers are to become effective February 13.

Safety and Health: Ranger Ferris attended the Driver Improvement Training Course conducted by the National Safety Council in Salt Lake City on the 5th and 6th.

Ranger Mabery took 1½ days of sick leave due to dental surgery.

A new supply of light bulbs for the visitor center walks was received on the 24th and burned out ones replaced.

Conservation, Interpretation and Use.

Interpretive Facilities: Considerable time and effort has gone into the revision of the self-guiding auto tour leaflet. The first draft of the text and drawings has been completed.

Bird records which had been obtained during the February to April ~~period~~ 1965 period were added to the Monument card file on birds.

The new audiovisual program prepared by Ranger Follows was reviewed by Arches and Canyonlands personnel.

Interpretive Services: At Arches, 281 Visitor Center contacts were made during the month, (05A) a 25.7% decrease from January of last year. 41 roving contacts were made (05C). No guided tours were conducted but 3 off-site talks were presented for 480 school children and teachers (07A). The Wayside Exhibit Register at Balanced Rock was signed by 88 visitors compared to 141 during January 1965, (06F).

Research and Observations: Naturalist Carter observed a covey of 14 Chukars near Turnbow Cabin and 2 Golden Eagles over the Devils Garden on the 19th. Rangers Carter and Mabery observed about 120 Black Rosy Finch near the Balanced Rock on the 28th.

Rangers Allen and Mabery measured 4 arches along the proposed Devils Garden return trail on the 19th. Measurements were recorded as follows: Hidden Arch - 20' high, 37' span; Juniper Bridge (unofficial name) - 11' high, 31' span; Black Arch - 40' high, 70' span; and Crystal Arch - 31' high, 31' span.

Protection: Heavier than normal road patrols were maintained to keep abreast with road conditions which changed constantly due to changing weather conditions through the first half of the month. The road between the Windows Junction and the Devils Garden was closed 6 days due to hazardous road conditions, ice and snow.

As a protection for visitors, snow was swept off the Delicate Arch Trail on the 8th, where it follows the ledge just before reaching the Arch View.

The boundary fences in Upper and Lower Courthouse Wash were checked and repaired.

A meeting was held at the Arches Visitor Center on the 14th for the purpose of establishing guidelines for better handling of fee collection and Southwestern Monuments Association funds. Present at the meeting were: Superintendent Wilson, Chief Ranger Randall, Assistant Chief Ranger Allen and Rangers Mabery, Ferris, Carter and Follows.

As a result of the above mentioned meeting a cash drawer for Entrance Sales permits and monies was constructed for the Information Booth on the 21st so that collection monies can be kept separate from Southwest Monuments Association funds.

It was discovered on the 18th that one of the NPS emblems was missing from the entrance sign on U. S. 160. Two new emblems were installed on the 19th.

On the 22nd a sign in the Windows Section was discovered facing in the wrong direction and was corrected.

Building Fire Protection: Nine new lengths of 1½" fire hose and 9 new "Y" valves were received and installed in hydrant houses at Arches during the month. New flashlights were also received and mounted in the hydrant houses so that the beams will fall on the "Y" valves. These lights can be readily removed for hand use.

Maintenance: The interior of quarters #5 was reconditioned and painted during the month requiring 86 man-hours. Painting the interior of quarters #1D was started and 31 man-hours expended when we ran out of paint due to a mix-up in colors received in a GSA order.

Resource Planning.

Cooperating Non-Governmental Agencies: Some mistakes were discovered in the semi-annual Inventory and Sales Report to Southwestern Monuments Association. These were corrected and the report resubmitted. A total of \$128.42 was received from sales of SWMA items during the month as compared to \$92.22 during January 1965.

Public Affairs.

Public Relations: Ranger Mabery showed a fire prevention film, "Stop Them Before They Start", twice at the Grand County Junior High School ^{on the 10th} and presented a slide talk on the Monument for the 5th grade classes at the Helen M. Knight School, on the 28th as public relations gestures.

Roby R. Mabery
Roby R. Mabery

Canyonlands National Park
Hoab, Utah 84532

A2823

March 8, 1966

Memorandum

To: Chief, Interpretation and Resources Management
From: District Park Ranger, Arches
Subject: Monthly Narrative Report, NRS (AR)-4, February 1966

General

Weather Conditions: This was a considerably cooler February than last year. A summary follows:

<u>February</u>	<u>1966</u>	<u>1965</u>	<u>Normals</u>
Maximum Temperatures	54	63	63.6
Minimum Temperatures	15	9	18.4
Mean Temperatures	32	39.9	40.0
Precipitation	.74"	.1"	.77"
Snowfall	2.63"	4.5"	1.61"
Maximum Depth	1.3"	3.0"	.94"

Decrease in Travel: A decrease in travel was recorded again this month, perhaps the colder than average weather was a contributing factor. A summary of total visits and trail use follows:

<u>February</u>	<u>Visits</u>	<u>Variation</u>	<u>Year</u>	<u>Variation</u>	<u>Campers</u>
1966	1,627		3,403		3
1965	2,283	-24.4%	4,401	-20.4%	40

	<u>1966</u>		<u>1965</u>	
	<u>Month</u>	<u>Year</u>	<u>Month</u>	<u>Year</u>
Delicate Arch	20	49	55	101
Landscape Arch	18	42	55	91
Double O Arch	2	9	14	18

Administration

Personnel: A party was held for the Naberys in the Arches Visitor Center on the 10th.

Two of the staff have moved out of the Government housing at Arches and either purchased or rented in town. The reason for these moves was the inability of the lower paid employees to cope with the very

rental rates recently established for this area. It is thought that perhaps other employees will elect to move out leaving the Monument with several vacant houses.

The undersigned entered on duty as of February 13 and is very happy to be here.

Safety and Health: On the 7th the movie "Broken Glass at the Intersection" was shown twice. It was loaned to the High School driver education class and shown twice there.

Three drivers tests were given during the month: Elmer Lystra, 11th, Robert Sievers, 16th, and Jerry Boggs, 28th.

Safety Officer Robert Ferris held a safety committee meeting at the Canyonlands office on the 28th.

Conservation, Interpretation and Use

Interpretive Facilities: Work continued on the revision of the self-guiding auto tour.

The books in the Arches library were assigned Dewey Decimal Numbers and book pockets with cards were placed in the books which may be checked out of the library.

Interpretive Services: During the month 264 Visitor Center contacts were made, a 66.2% decrease from February of last year. Ranger Ferris gave a guided bus tour to 27 school children on the 15th. One orientation slide program was given to 6 visitors.

The register at Balanced Rock Wayside Exhibit was signed by 78 visitors compared to 140 last year.

Research and Observations: The monument card file of bird records was brought completely up to date by Ranger Dennis Carter. New sightings will be recorded as they are obtained.

Protection: The Monument road was closed on the 8th and 9th due to heavy snowfall. It was plowed and opened on the 10th.

A packsack was equipped with climbing gear to facilitate rescue operations in this area.

Building Fire Protection: Eight nozzles, two of them new, were obtained for the Monument. A hose tester was received and a base constructed for same.

Snaps were placed on the fire hose house doors in lieu of the bent nails that had been in the hasps.

Ranger Ferris made an inventory and record of location of all fire extinguishers.

Maintenance: The interior of quarters #6 was repainted and #3 was started.

The culverts along the entrance road were cleaned of tumble weeds and the weeds burned.

A general cleanup of the utility area was started and is continuing as time permits.

Resource Planning

Cooperating Non-Governmental Agencies: A total of \$48.85 was received from the sale of Southwestern Monuments Association items during the month. A bank money order for \$155.00 was submitted to SWMA. Two new books were put on sale, Marvels of the Earth, a \$.69 book in the Golden series and A Field Guide to Mammals which sells for \$4.95.


H. Wayne Herton

Canyonlands National Park
Bloom, Utah 84532

12523

April 12, 1966

Memorandum

To: Chief, Interpretation and Resource Management
From: District Park Ranger, Arches
Subject: Monthly Narrative Report, NPS (AM)-4, March 1966

General

Weather Conditions: March was pleasant with close to normal temperatures. A summary follows:

<u>March</u>	<u>1966</u>	<u>1965</u>	<u>Normals</u>
Maximum Temperature	78	79	77.3
Minimum Temperature	19	18	26.2
Mean Temperature	49.8	44.5	43.0
Precipitation	.66"	.80"	.88"
Snowfall	0	2.00"	0
Maximum Depth	0	2.00"	0

Decrease in Travel: Visitors and campers were down for this month compared to last year.

<u>March</u>	<u>Visits</u>	<u>Variation</u>	<u>Year</u>	<u>Variation</u>	<u>Campers</u>
1966	3,111		6,514		63
1965	3,660	-14.8%	8,051	-10.1%	139

Visitors: Ralph Webb, Park Naturalist, Capitol Reef National Monument stopped by on March 26.

Special Activities: The District Ranger attended committee meetings as follows: Sign Committee on March 4 and Training Advisory Committee on March 10.

Administration

Personnel: Ranger Dennis Carter was on annual leave from March 10 to March 23.

The old flu bug caught up with Ranger Bob Ferris on March 25 and he was forced to take 1 1/2 days of sick leave.

Training has played a large part in the Arches operation during the month. On the 11th a building fire school was held in the area and attended by Rangers Ferris and Norton. The undersigned traveled to Mesa Verde National

Park and received instructions on Entrance Station operation on the 25th. The day before, March 24, Ranger Ferris and Norton traveled to Monticello and attended an FBI training session on auto theft. During the visit to Mesa Verde Chief Ranger Wade kindly offered us the loan of a Durroughs cash register to facilitate our entrance station operation until our new ones are received. We gladly accepted.

A very fine Rock Rescue School was held at Arches on March 28-30 with partial or total attendance by our total uniformed staff. District Ranger Dunnagan is to be commended on an excellent presentation.

Safety and Health: Ranger Ferris attended a course in driver safety at the Green River Missile Site on the first.

As Safety Officer Ranger Ferris reviewed the Island in the Sky LP gas fire and prepared a DI-134 on same. He also submitted data for the safety contest.

The District Ranger sustained a badly bruised and cut leg during the Rock Rescue School. There was no lost time but a form CA-1 was prepared.

Conservation, Interpretation and Use

Interpretive Facilities: The manuscript of the revised auto tour was sent to Earl Jackson, Southwestern Monuments Association. Mr. Jackson edited the manuscript and returned it for comments.

Interpretive Services: During the month 707 Visitor Center contacts were made, a decrease of 38.6 % from March of last year. No talks were given. Two visitors were given a guided tour of the Fiery Furnace on the 6th. The register at Balanced Rock Wayside Exhibit was signed by 348 visitors compared to 321 last year. Four orientation slide programs were shown to 45 visitors and eleven roving contacts were made.

Research and Observations: Birds recorded during the month were a flock of 20 Pine Siskin, a Redwinged Blackbird and a Townsend's Solitaire. Easter Flower (Primula specuicola) was noted at the head of Birch Canyon. A leopard Frog was also seen in Birch Canyon.

Carl Wadsworth, Brigham Young University, visited the Monument on the 31st and trapped and marked a few Colorado Chipmunks then released them.

Protection: Because of snowfall, the "icy road" sign was put up on the 2nd.

Two large rock slides and one small one occurred on the 10th, 13th and 26th and were promptly removed.

On the 18th campers were reprimanded for driving their Scout off of established roads and around a barrier. They agreed to remove all sign of their transgression.

Cows were discovered in the vicinity of Salt Valley on the 20th and reported to John Ross. He removed them on the 22nd and 23rd.

*Vanels
arrived
1000
4 signs
at 1000*

Building Fire Protection: The base for the hose tester was altered slightly so that larger fittings could be attached.

Work was begun on a more elaborate "bubbling fire trap" and will be continued as time permits.

Sanitation: The campground water system was disinfected with 45 pounds of 70% calcium hypochlorite powder to 30,000 gallons of water giving us slightly over a .15 chlorine solution.

Area water samples continue to be returned marked safe.

Maintenance: Many difficulties are presenting themselves in connection with the Devils Garden Water System. The generator fuel pump broke and allowed fuel oil to be pumped into the crankcase. Had the engine run longer it would have caused extensive damage to the crankshaft and bearings. The mechanical fuel pump was replaced with an electric one. This was followed by a fuel line breaking and the fuel tank was pumped dry by the electric fuel pump. We then installed a safety switch device which will shut off the fuel pump in the event of a fuel line or oil line failure. A more recent discovery indicates that it will be necessary to hire a well driller to pull the pump. Water delivery to the tank is something less than 1 gallon per minute. The system has been carefully checked for leaks and there are none.

Painting of the interior of residence #10 was completed.

Resource Planning

Cooperating Non-Government Agencies: A total of \$32.81 was received from the sale of Southwestern Monuments Associations items; this was down considerably from the \$260.67 received during March of last year.

Public Affairs

Public Relations: The undersigned worked with the Chamber of Commerce in a campaign to promote better knowledge of the surrounding area in local business establishments where questions are likely to be asked by the visiting public. While posing as a tourist, questions were asked in many of these businesses, and dollar bills given for correct answers. The money was furnished by the Chamber and a total of \$25 was handed out. A few days later we followed up with a local television broadcast explaining what had been done and the results. Considerable interest was shown in the program and the results were quite gratifying.


C. Wayne Norton

A, J, E

Arches National Monument
Keab, Utah 84532

12823

May 12, 1966

Memorandum

To: Chief, Interpretation and Resources Management
From: District Manager, Arches
Subject: Monthly Narrative Report, April 1966

General

Weather Conditions: April was dry but pleasant with temperatures about normal. A summary follows:

<u>April</u>	<u>1966</u>	<u>1965</u>	<u>Normals</u>
Maximum Temperature	82	89	87.0
Minimum Temperature	29	33	39.5
Mean Temperature	56	56.1	55.6
Precipitation	.97"	1.78"	.75"
Snowfall	0	Trace	0
Maximum depth	0	0	0

Increase in Travel: Number of visitors showed an increase while campers showed a decrease compared with the same month last year.

<u>April</u>	<u>Visits</u>	<u>Variation</u>	<u>Year</u>	<u>Variation</u>	<u>Campers</u>
1966	10,520	+2.8%	17,034	-2.9%	482
1965	9,484		17,535		1,108

Visitors: 4/3 Jack Welch, Director, Wildlife Research Lab., U. S. Fish and Wildlife, Denver, Colorado
4/4 Forran Harp, Architect, CURO
4/11 Maurice Parbash, Fire Island National Seashore
4/17 Dr. C. Gregory Dampton, University of Utah

Miscellaneous: Worthy of note is that Joe Shoemaker, son of Mr. and Mrs. Harold Shoemaker, was elected student body president at Grand County High School for the 1966 - 1967 school year. Joe is an honor student and active in athletics. He will be a senior next year.

Administration

Personnel: Several new employees entered on duty during the month. Robert Fisher started work on April 4 as Seasonal Park Ranger and has been doing a creditable job of operating the entrance station. Boyd Stewart also started April 4 as Seasonal Laborer and has been giving much needed assistance to Maintenanceman Rose. The new permanent Information-Receptionist position was filled on April 24 by Annette Walker a transferee from the

U. S. Air Force at Green River Missile Base and is a most welcome addition to our staff.

Safety and Health: Ranger Ferris prepared a chart to show data for the safety contest. It is posted in the Canyonlands Office. He also gave drivers tests to a number of new employees.

A sixth grade student from Moab, Jean Trusty, fell while playing in the Balanced Rock Picnic Area on April 7. Both bones in her left forearm were broken.

On April 27 Safety Officer Ferris held a Safety Committee meeting at Natural Bridges National Monument. The area was inspected and a number of recommendations made.

Conservation, Interpretation and Use

Interpretive Facilities: Earl Jackson is working on the revised Self-Guiding Auto Tour.

The orientation slide program became inoperative on the 28th.

Interpretive Services: During the month 3,500 Visitor Center contacts were made, an increase of 14% over April of last year. Four talks were given to 162 visitors. During April of last year only one talk was given to 12 visitors. Four conducted walks were given to 121 visitors. The register at Balanced Rock was signed by 245 visitors compared to 211 last year. The orientation slide show was run 22 times and viewed by 267 visitors and a total of 43 roving contacts were recorded.

Research and Observations: A gopher snake and a faded midget rattlesnake were seen by Ranger Ferris on the 10th. Ranger Carter found a Bendire's thrasher in Salt Wash on the 20th. This was a new addition to the Monument bird list and a most unusual record. Arches National Monument is as far north as this species has ever been seen. Other bird records of interest were a male black-chinned hummingbird near Delicate Arch viewpoint on the 20th, a water pipit in Courthouse Wash on the 29th, and a Lincoln's sparrow near the Visitor Center on the 23rd. Woodhouse's toads (Bufo woodhousei) appeared in numbers in the residence area on the 16th.

Protection: Easter Sunday "sunrise service" called for the usual parking and traffic control. This day has in the past presented us with a number of infractions but was much quieter this year. It was noted that the annual Dragerton picnic did not occur here this Easter. Nevertheless there were a number of warnings issued for such things as trail machines on the foot trails and climbing in hazardous places.

The entrance station was opened and manned on April 15 for the first time in the history of the Monument. The operation is working smoothly with very few visitor complaints.

On the 19th Ranger Ferris attended an F. P. I. firearms training session.

On the 20th several elderly ladies who had locked themselves out of their vehicle were successfully aided by Ranger personnel.

Another first was recorded on April 22 when the Arches uniformed staff were appointed as deputy sheriffs of Grand County without compensation.

Wildlife Activities: The deer pellet transects of the Monument were marked this month. The data has yet to be recorded and compared with that of last fall.

Maintenance: The Pelicate Arch viewpoint road was repaired and opened on April 8 and washed out again on April 11.

The well and pumping system at Devils Garden simply refused to supply an adequate amount of water and a driller was hired to pull the pump. Pump and cable were shipped to Salt Lake City for testing and necessary repairs.

Resources Planning

Cooperating Non-Government Agencies: A total of \$456.02 was received from the sale of Southwestern Monuments Association items; this was comparable to the \$485.62 received during April of last year. On the 22nd, 37,000 post cards were delivered by Hanson's Photos for sale here and in Canyonlands National Park.

Public Affairs

General Publicity: On April 6 the undersigned participated in a local radio and television simulcast. The subject of fees for the coming season was discussed.

H. Wayne Norton

Handwritten initials

Arches National Monument
Moab, Utah 84532

A2823

June 13, 1966

Memorandum

To: Chief, I&RM
From: District Ranger, Arches
Subject: Monthly Narrative Report, May 1966

General

Weather Conditions: Mean temperature was a little above normal for the month. A summary follows:

<u>May</u>	<u>1966</u>	<u>1965</u>	<u>Normals</u>
Maximum Temperature	91	90	93.5
Minimum Temperature	41	36	37.5
Mean Temperature	67.1	63.5	64.3
Precipitation	.68"	1.03"	.72"

Decrease in Travel: A new, more accurate system for establishing a multiplier went into effect this month and undoubtedly accounts for the decrease in our travel figure for the month.

<u>May</u>	<u>Visits</u>	<u>Variation</u>	<u>Year</u>	<u>Variation</u>	<u>Camers</u>
1966	15,701		32,735		2,869
1965	17,128	-8%	34,663	-5.6%	2,833

Visitors: 5/20 Wayne Welsh, Park Ranger, Dinosaur National Mon.
5/25 Bob Powell, Park Ranger, Badlands National Mon.
5/26 L. E. Echols, Chief of Park Maintenance, Mount Ranier National Park

Special Activities: The Arches District Ranger assisted the Canyonlands staff with the Memorial Day weekend "Friendship Cruise" by setting up and manning a radio relay station at Grandview Point. The operation proved very successful and helped to provide a great deal of assistance to the many visitors in the park at that time.

Miscellaneous: Arches Information Receptionist, Annette Walker, was the recipient of the Commander's Award for meritorious service and many contributions to the United States Intercontinental Ballistic Missile Program.

Administration

Personnel: A training session on the Land and Water Conservation Fund Act was held at Arches National Monument on May 11. There were 19 people in attendance including 6 visitors from the Bureau of Land Management and one from the U.S. Forest Service.

The Arches District Ranger accompanied the Chief Ranger and others on an orientation trip west of the rivers May 2 through May 6. Information Receptionist Annette Walker was included in the group.

On the 23rd, a GSA sponsored driver education school was held at the Arches Visitor Center.

Seasonal Ranger Kermit Hanson entered on duty on Sunday, May 15.

Safety and Health: Water samples continue to be returned marked satisfactory.

On the 9th, a safety film "No Defense" was shown at the Canyonlands office. Another film "The Lost Hunter" was shown on that occasion.

Traffic signs on the monument roads were surveyed for damage and possible changes. DI 1 was submitted for new signs.

On May 21 at about 8:30 p.m. Maura Ferris, age 11, was buried alive in a sand cave which collapsed. Because of the quick thinking of Robin Randall who dug to her head and got air to her, she was able to breathe. The cave collapsed again and she was rescued a second time by Kent Wintch. Mrs. Wintch and several other children helped to dig her out. She was examined by Dr. Munsey at the I.W. Allen Memorial Hospital. No injuries were found. This could have been a tragedy. All children have been forbidden to dig sand caves.

Conservation, Interpretation, and Use

Interpretive Facilities: The orientation slide program was inoperative during most of the month.

A proposed dummy for the self-guiding auto tour was prepared by Southwestern Monuments Association.

Interpretive Services: Arches Visitor Center contacts totaled 4,066 - a 39.3% decrease from May of last year. Five talks were given to 363 visitors. This included a talk to Colorado State Univ. students and four Devil's Garden Campfire talks. Last May 9, talks were given to 421 visitors. A total of 350 visitors took part in eight guided tours including four Fiery Furnace hikes, one hike on the Broken Arch trail, two conducted bus trips, and one conducted auto trip. The Olympic Male Chorus was taken on a bus trip 5/14 and a Chamber of Commerce group from Provo was given a bus trip, 5/19. On 5/29, a group of 105 visitors went on the Fiery Furnace hike - one of the largest groups to be taken through this area. The number of visitors taking part in guided tours was down from last year. A total of 1,111 visitors signed the register at the Balanced Rock Wayside Exhibit compared to 1,535 last year. Six orientation slide programs were shown to 49 visitors.

Research and Observations: Noteworthy bird observations included two Golden Eagles at the Visitor Center, 5/3; a Spotted Sandpiper in courthouse Wash, 5/10; a Gray Vireo at the Fiery Furnace, 5/15; and a Yellow Warbler at the Courthouse Wash Bridges, 5/24. The Park Naturalist collected a new plant for the Monument, 5/12 - Golden Smoke (*Corydalis Aurea*). The specimen was donated to the B.Y.U. herbarium. The biology field trip group from Brigham Young University was in the Monument 5/13 - 5/15. The Botany Club from Iowa State University, Ames, Iowa with Dr. Welsh and Dr. Moore from B.Y.U. in charge visited the Monument, 5/31.

Protection: On Monday, May 2, vandals broke the foot bridge leading to the Delicate Arch trail. They scattered beer bottles over the area and broke many of them. They were subsequently caught and brought to justice. An individual offense report form 10-175 was submitted. There were 9 young people involved in the incident and the court case was dismissed with the proviso that they pay the costs for repairs to the damaged bridge.

On May 6, 15-year-old Thomas Dysert, part of a Seventh Day Adventist group was lost in the vicinity of Double O Arch. An extensive search was made by air and on foot by Park Rangers and members of the Grand County Jeep Possee. He was found unhurt on the afternoon of the 7th by Rangers Follows and Boggs resting in Lloyd Holyoak's jeep in Salt Valley.

Heavy visitor use on the Memorial Day weekend necessitated a number of reprimands by patrolling rangers. Fees amounting to \$2,030 were collected at the entrance station between May 27 and May 30. On Saturday, May 28, a total of \$832.50 was collected to make the biggest day for this season.

The Arches District Ranger spent 2 days assisting in the installation of a portion of the new radio system. Units were installed in four vehicles and a high gain antenna at the Neck. A temporary high gain antenna was installed at Grandview Point.

Maintenance: The pumping system at Devil's Garden is still shut down. A new pump has been ordered but not received. Water hauling is quite a chore and very difficult to keep an adequate supply.

Resources Planning

Proposed Park Areas: The Arches Park Naturalist took part in a trip into the area west of the Colorado and Green Rivers with the Superintendent and Utah State Highway Commission officials, 5/17 - 5/20.

Cooperating Non-Government Agencies: A total of \$703.59 was received from the sale of Southwestern Monuments Association items compared to \$792.22 during May of last year.

Public Affairs

General Publicity: Arches Park Naturalist, Dennis Carter, was interviewed on a radio and television simulcast May 9. The Arches interpretive program and wild flower display were discussed as well as some phases of the search and rescue operation.

H. Wayne Norton

JH

Arches National Monument
Horb, Utah 84532

A2823

July 8, 1966

Memorandum

To: Chief, Interpretation and Resources Management
From: District Ranger, Arches
Subject: Monthly Narrative Report, June 1966

General

Weather Conditions: The mean temperature for June was right at normal. Rainfall was below normal. A summary follows:

<u>June</u>	<u>1966</u>	<u>1965</u>	<u>Normals</u>
Maximum temperature	100	96	103.4
Minimum temperature	50	48	47.4
Mean temperature	72.5	69.1	72.5
Precipitation	.03"	.47"	.43"

Decrease in Travel: Travel continues to drop. A summary follows:

<u>June</u>	<u>Visits</u>	<u>Variation</u>	<u>Year</u>	<u>Variation</u>	<u>Campers</u>
1966	22,189		54,924		4,302
1965	24,992	11%	59,655	8%	5,863

Visitors: 6/6 Dr. C. Lynn Hayward, Dept. of Zoology, Brigham Young Univ.
6/12 Kevin McKibbin, Supv. Park Ranger, Timpanogos Cave Nat. Mon.
6/16 Jon F. Haman, District Ranger, Hovenweep Nat. Mon.
6/27 Walter F. Shelton, Ranger-Naturalist, Black Canyon of the Gunnison Nat. Mon.

Special Activities: The Arches District Ranger and Seasonal Ranger Russell Donoghue were part of the group attending the river training session from Potash to Hite through Cataract Canyon.

Administration

Personnel: Seasonal Rangers Carl Wadsworth, Ted Tibbetts and Russell Donoghue began work on Wednesday, June 1st. Mel Olsen and Jim West entered on duty as laborers on June 10 and 15.

A training session on interpretation and protection was held for all Canyonlands personnel at the Arches Visitor Center on June 13. The main purpose of the training was to orient new seasonals and refresh the memories of others. Rangers Carter, Ferris and Norton participated in the training. Another session was held on the afternoon of June 14 emphasizing only the Arches operation.

Safety and Health: A final draft of the Documented Safety Program was completed this month and water samples continue to be returned marked satisfactory.

Conservation, Interpretation, and Use

Interpretive Facilities: The Arches self-guiding auto tour was sent to the printer on the 23th with a request to print 20,000 copies.

New sound tapes were received for the orientation slide program on the 10th and put in use on that date, but the program again became inoperative on the 12th.

Interpretive Services: A total of 3,275 Visitor Center contacts were made during the month - a decrease of 31% from June of last year. 27 campfire talks were given to 1,571 visitors at the Devil's Garden Campfire Circle compared to 23 to 1,541 last year. Conducted hikes totaled 25 (19 Fiery Furnace and 6 Broken Arch) to 431 visitors (394 on Fiery Furnace and 87 on Broken Arch), an increase of 26.6% over last year. Ted Tibbetts spent five days at the Girl Scout Camp early in the month and led nature walks for a total of 300 off-site interpretive contacts. The register at the Balanced Rock Wayside Exhibit was signed by 2,155 visitors compared to 2,460 last year. Fourteen orientation slide programs were shown to 145 visitors, and 70 roving contacts were made.

The full summer schedule of interpretive activities went into effect on June 5, with nightly campfire programs and guided walks each morning.

Research and Observations: A Colorado School of Mines geology field group under the direction of Dr. Robert J. Weimer spent June 6-10 doing mapping and other field work in the upper part of the Monument. Dennis Carter and Robert Ferris attended the lecture given by Dr. Weimer on the evening of the 6th.

David Bixler, Dept. of Entomology, Michigan State University, was doing research on spiders (especially wolf spiders on which he is an expert) and insects in the Monument from the 26th through the end of the month.

Carl Wadsworth is doing research work on the Colorado Chipmunk (Eutamias quadrivittatus) in the Monument this summer and was working on this project throughout the month. Wadsworth prepared a study skin of a bat that had been collected in the Arches residence area, May 7; it proved to be a Pallid Bat (Antrozous pallidus), a new species for Arches. Another addition to the list of mammals that have been recorded in the Monument was a whitetail prairie dog (Cynomys gunnisoni) observed by Carl Wadsworth in Salt Valley at the junction of the main road and the road to Turnbow Cabin on the 29th. David Bixler and Dennis Carter saw a doe with two small fawns in Upper Courthouse Wash, June 27. Many cottontails and jack rabbits have been seen along the monument roads by rangers on patrol, and the rabbit population seems to be very high this year.

Ted and Ruth Dement of Denver, Colorado observed cliff swallows in the Devil's Garden area on the 19th. David Bixler and Dennis Carter saw a sharp-shinned hawk at the mouth of Birch Canyon on the 27th. Many young black-throated sparrows were seen during the month, and this species seems to have had good nesting success.

Protection: On June 1, Rangers Ferris and Norton, along with Assistant Chief Ranger Allen, attended a Juvenile Court trial for Tony Castor. He was charged with drinking and destruction of property under state law. The case was dismissed. Ranger Ferris appeared as a witness for the State.

A deer was killed by a car on June 1, near Doc. Williams point, and discovered on the morning of June 2. The incident was not reported by the party that struck the animal.

Several stalled motorists were helped by ranger personnel and one had to be hauled out by the wrecker from Buck's garage.

On the 19th, a lost dog was found by rangers and returned to its owner.

A disturbance in the campground on the evening of the 23rd, was investigated by Ranger personnel. On the 27th, Ranger Ferris interviewed Bill Foy, one of the boys involved. The others involved were Pat Unger, Tony Castor, Jeff Taylor, Dennis Nealey, and John Fossey. There were some whose names were not revealed.

A cow and calf were moved from the Courthouse area by John Ross at our request.

Sanitation: The Devil's Garden well was drilled 200 feet deeper, to 1,100 feet. A new 5-horse pump was installed and a test run by Clyde Arcaro from SWRO. Tests indicated that we can now pump at 10-11 gallons per minute and still have approximately 100 feet of water over the pump. The water was sweet and cool. All very good news after a lengthy period of hauling all water to the campground.

Maintenance: The new chiller unit was installed in Arches Visitor Center on June 16 and the system has worked well since. Considerable information and knowledge of the system was gained by the District Ranger by assisting the refrigeration man that installed the unit.

A very fine job of seal-coating was done at Arches by the Utah State seal-coating crew. Areas coated were the Windows section road, the residential area road and about the first $\frac{1}{2}$ mile of the entrance road which was cracking badly.

The Arches District Ranger and Assistant Chief Ranger Allen assisted Bob Pozel from SWRO, in a sign survey of the Monument. All signs were photographed and recorded as to location.

Resource Planning

Cooperation With Other Agencies: Richard Wheeler, Landscape Architect, Utah State Park & Recreation Commission visited the Monument on the 10th and talked with Dennis Carter and Carl Wadsworth concerning proposed exhibits in the new visitor center at Dead Horse Point State Park.

Cooperating Non-Government Agencies: A total of \$933.34 was received from the sale of Southwestern Monuments Association sales items during the month, 12.4% less than during the same month last year. The semi-annual inventory and sales report showed a total of \$1,837.69 taken in during the first half of the year, a decrease

of about 29% from the amount obtained during the same period last year. These decreases are due, at least in part, to the decrease in the number of visitors coming to the visitor center and also to the fact that the self-guiding auto tour has not been on sale this year. Three new sets of slides have been prepared for sale at Arches. America's Wonderlands by the National Geographic Society was put on sale on the 25th.

H. Wayne Norton

JWW

Arches National Monument
Moab, Utah 84532

A2823

August 9, 1966

Memorandum

To: Chief, DORM

From: District Ranger, Arches

Subject: Monthly Narrative Report, July 1966

General

Weather Conditions: The month was hot and dry with temperatures above average and rainfall less than average. A summary follows:

<u>July</u>	<u>1966</u>	<u>1965</u>	<u>Normals</u>
Maximum temperature	105	102	104.7
Minimum temperature	51	54	53.7
Mean temperature	83.4	82.2	78.7
Precipitation	.39"	2.25"	.75"

Decrease in Travel: A slight decrease in visits was offset by an increase in overnight visits. A summary follows:

<u>July</u>	<u>Visits</u>	<u>Variation</u>	<u>Year</u>	<u>Variation</u>	<u>Campers</u>
1966	25,299		80,223		4,682
1965	25,379	-.31%	85,034	-5.6%	4,095

Visitors: 7/12 Tom Lippert, Supervisory Engineer, DCSSC
7/26 Lynn Wallace, Utah Public Health Service

Special Activities: The Arches District Ranger spent 3 days camping and traveling in the Needles District with Assistant Chief Ranger Allen. We happened to be in the right place at the right time to assist some people, 2 men, 2 women and 3 children, who had gotten their jeep down into Cross Canyon and were unable to drive back out. The younger man and woman had hiked to the Chesler Park road when we found them and the man was in pretty bad shape from the heat having suffered from heat stroke the year before. We gave them water and winched their jeep up the hill and got them on their way again.

Administration

Safety and Health: A public health inspection was made of the Arches area on July 26. Very few deficiencies were noted and these will be corrected in the near future.

Water sample tests from the Devil's Garden and Arches Headquarters water systems were returned marked satisfactory.

Seasonal Ranger Kermit Hanson drove the ambulance off the road and broke a wheel on July 1. Accident reports have been submitted.

Conservation, Interpretation, and Use

Interpretive Facilities: More new tapes for the orientation slide program were received on July 2, and it was put into operation on that date; however, it again became inoperative on the 6th. The slide program has not been operating properly for the past two years. A new warning sign was installed at the start of the Fiery Furnace Trail on the 3rd. Ted Tibbetts painted dinosaur tracks on slickrock to mark the trails to Double O Arch and to Tower Arch. Visitors have often had difficulty staying on these trails, and it is hoped that the new marking system will solve this problem. Carl Wadsworth hiked the Park Avenue trail on the 29th to determine its condition and merits; the trail needs to be improved and more clearly marked, although there is no danger of getting lost in this locality. Carl felt that this was a worthwhile hike.

Interpretive Services: During the month, 10,892 Visitor Center contacts were made - a decrease of 15% from last year. A total of 29 campfire talks were given to 2,311 visitors; the number of visitors attending these talks was up 36% over July of last year. 30 conducted hikes (7 Broken Arch and 23 Fiery Furnace) were given to 477 visitors - about the same number as last year. The register at Balanced Rock wayside exhibit was signed by 2,544 visitors compared to 2,664 last year. The orientation slide program was shown 25 times to 388 visitors. Roving contacts totaled 151.

Research and Observations: Carl Wadsworth continued his research work on the Colorado Chipmunk (Eutamias quadrivittatus) in the

Monument. Dennis Carter and Ted Tibbetts investigated some spring areas east of the Windows Section on the 6th; 5 mule deer bucks and 9 species of birds were found in this locality.

Protection: On July 11, a group of unidentified teenage boys caused a disturbance in the campground. They made noise and threw a rock through a pick-up camper window.

Several would-be rock collectors were cautioned against the removal of rocks from the Monument. In one instance, it was considered advisable to issue a warning notice to the offender.

Frequent and unscheduled night patrols were made as a result of increased vandalism. Despite this precaution, the interpretive signs at LaSal Mt. View Point were smashed. However, the many contacts made with young people from town who were visiting the Monument at night did seem to discourage any further acts of this nature.

Building Fire Protection: On July 27, a large can of foam and a foam nozzle were installed in hose house #9 in the Utility Area.

Maintenance: A rock barricade was built at the edge of the Turnbow Cabin parking area on July 25. The purpose of this wall is to prevent visitors from driving too close to the cabin and possibly damaging it.

The Devil's Garden generator and well are beginning to read like a continued story. Following the deepening and testing of the well last month, the generator started giving trouble again. First the cranking reset switch burned out and then the rectifier burned out. We are once again hauling water at an approximate cost of \$97.05 per week. Since this plant is a Kohler, it was necessary to order parts from the factory. It seems to take them 6 weeks to 2 months to ship repair parts. Oh well, enough said on efficiency.

A 220-volt power line was installed in the shop to furnish power for the new welder and table saw.

The interior of residence number 5 was repainted by a local contractor and one of the seasonal rangers repainted the exterior of the entrance station.

We experienced considerable trouble with the visitor center refrigeration units during the month but the difficulties seem to be corrected now.

Hot road mix was placed in the driveways to residences 5 and 11.

Resource Planning

Cooperating Non-Government Agencies: A total of \$1,423.90 was received from the sale of Southwestern Monuments Association sales items, a decrease of 12% from July sales of last year. A new post card display rack was installed on the 8th. A new sales item, a folder of 14 color photos of the Canyonlands Country, was put on sale at the end of the month.

H. Wayne Norton

Arches National Monument
Moab, Utah 84532

A2823

September 11, 1966

Memorandum

To: Chief, Interpretation and Resources Management

From: Acting District Ranger, Arches

Subject: Monthly Narrative Report, August 1966

General

Weather Conditions: A very normal August prevailed. A summary follows:

<u>August</u>	<u>1966</u>	<u>1965</u>	<u>Normals</u>
Maximum Temperatures	102	102	101.8
Minimum Temperatures	50	53	53.0
Mean Temperatures	78.5	76.8	80.2
Precipitation	.81"	.89"	.87"

Decrease in Travel:

<u>August</u>	<u>Visits</u>	<u>Variation</u>	<u>Year</u>	<u>Variation</u>	<u>Campers</u>
1966	23,393	-11.3%	103,616	-9%	4,974
1965	28,745		113,778		4,280

Trail Use:

	<u>1966</u>		<u>1965</u>	
	<u>August</u>	<u>Year</u>	<u>August</u>	<u>Year</u>
Delicate Arch	1,070	4,261	1,622	7,071
Landscaps Arch	1,527	6,433	1,554	7,274
Double O Arch	445	1,748	384	1,936

Visitors: 8/8 Dr. Eugene J. Wilhem, Jr., NPS collaborator, McGill Univ.,
Montreal, Canada
8/19 Don Holloran, Naturalist, Bryce Canyon NP, Utah
8/22 Russ Dickenson, Midwest Regional Office, Omaha, Nebraska

Special Activities: District Ranger, H. Wayne Norton, attended a bubonic plague training session in Salt Lake City, August 3. Area training on this subject was given by District Ranger Norton at the Arches Visitor Center, August 15.

Administration

Personnel: Ted Tibbetts' last work day was August 10.

Conservation, Interpretation, and Use

Interpretive Facilities: The orientation slide program was back in operation on the 7th after Art Allen and H. Wayne Norton had worked on the equipment and found an adjustment screw which was used to remedy the problem of the slides cycling too fast.

A sign explaining the problems involved in the hike to Delicate Arch was installed at the start of the trail on the 18th.

The new, numbered signs for the self-guiding auto tour were made, and the posts for these signs have been installed along the road. The tour leaflet is still at the printer.

Interpretive Services: During the month, 10,797 Visitor Center contacts were made, a decrease of about 16% from last year. However, other interpretive services showed an increase. A total of 27 campfire talks were given; 2,503 visitors attended the talks, an increase of 25% over August of last year and a record high number for one month. 28 guided tours were given to 590 visitors, an increase of 10% from last year and another record high. Conducted hikes totaled 27 (20 Fiery Furnace and 7 Broken Arch) to 548 visitors. On the 5th a bus tour was given to 42 geography students from Northern Arizona University at Flagstaff. The register at Balanced Rock wayside exhibit was signed by 2,823 visitors compared to 2,493 last August. The orientation slide program was shown 200 times to 2,541 visitors. Roving contacts totaled 49.

Research and Observations: Carl Wadsworth continued his research work on the Colorado Chipmunk (Eutamias quadrivittatus). On the 23rd, a red-breasted nuthatch was killed by hitting a window in the entrance station; this is the first record of this or any nuthatch in the Monument. Other bird records of interest included a long-billed marsh wren in Salt Wash and a warbling vireo in Freshwater Canyon on the 19th and a house wren and a Wilson's warbler in Courthouse Wash on the 29th. An unidentified garter snake (Thamnophis) was seen in the pool at the mouth of Freshwater Canyon on the 24th.

Maintenance: The Devil's Garden generator quit early in the month, was repaired, and then quit again. It was inoperative most of the time as has been the case all summer. It was necessary to haul water to the storage tank at Devil's Garden. A small generator was used to supply electricity for the evening campfire talks.

The road to the Delicate Arch viewpoint which had been damaged by flash floods was repaired during the month.

Protection: During the night of August 3, visitors reported to Ranger Ferris that a number of cars were stranded beyond Salt Valley Wash on the road to Turnbow Cabin. He pulled them out with a jeep.

On August 7, a Gary Joe Day of Moab was reprimanded for littering when a beer bottle was found beside his parked car and he admitted throwing it there.

A number of motorists were aided during the month. On August 11, Buck's Garage was called to tow a car which had lost a wheel.

A couple collecting rocks in the Turnbow Cabin area was reprimanded on the 30th.

Safety and Health: On August 2, the State Highway Dept. painted center lines on the portion of the road that had been redone recently. Several driver tests were given.

On August 2, DI 134's and related forms were completed on a trailer fire at the Island and on a vehicle accident in the Needles District.

All water samples submitted to the State Board of Health were returned marked satisfactory.

Resource Planning

Cooperating Non-Government Agencies: The amount received from the sale of Southwestern Monuments Association items was \$1,001.50, the largest amount ever for one month at Arches and an increase of 21% over August sales of last year. A new display case for the six slide sets that are sold was put in operation on the 4th; slide sales were up 66% from the same period last year. The number of post cards sold was 7,248.

Dennis L. Carter

Arches National Monument
Moab, Utah 84532

A2823

October 8, 1966

Memorandum

To: Chief, Interpretation and Resources Management
From: District Ranger, Arches
Subject: Monthly Narrative Report, September 1966

General

Weather Conditions: This was an average September. A summary follows:

<u>September</u>	<u>1966</u>	<u>1965</u>	<u>Normals</u>
Maximum temperatures	96	89	97
Minimum temperatures	45	35	38.5
Mean temperatures	68.8	65.4	67.4
Precipitation	1.09"	.75"	.98"

Decrease in Travel: There was a decrease in visits and an increase in campers. A summary follows:

<u>September</u>	<u>Visits</u>	<u>Variation</u>	<u>Cummulative</u>	<u>Variation</u>	<u>Campers</u>
1966	12,815		116,431		2,357
1965	17,465	-26.6%	131,244	+11.2%	1,973

Visitors: September 6, Albert Henson, Volney Westley, and Lin Spalding, Master Plan Team, SSC.

September 23, Maury Thede, Regional Safety Officer.

Special Activities: A rough draft of Chapter 3 of the Master Plan was written the first few days of the month and the SSC Master Plan Team arrived the 6th to go over it and make necessary changes.

Safety Officer Maury Thede arrived the 23rd and made his safety inspection of the Monument. He commented on improvement since his previous inspection.

Miscellaneous: Children of Monument personnel entering college this fall are Susan Ferris, Utah State University; Cindy Wilson, University of Utah; Bill Norton, Trinidad State Junior College, Trinidad, Colorado. Bill will study gunsmithing.

Administration

Personnel: Seasonal Ranger Carl Wadsworth terminated Sept. 7, 1966.

Seasonal Ranger Russell O. Donoghue terminated September 25, 1966.

Glen Taylor terminated Sept. 16; Jim West, Sept. 17 and Mel Olsen, Sept. 22.

An advanced Rock Rescue Training School was held at Arches on September 16. Rangers Ferris and Norton attended.

Safety & Health: On Friday the 16th, Ranger Ferris hurt his back at a rock climbing school. He spent one week in the hospital. The necessary reports are being submitted.

Conservation, Interpretation and Use

Interpretive Services: During the month, 4,280 Visitor Center contacts were made, a decrease of 36 per cent from last year.

An effort was made to offer a fuller program of interpretive services this year. Conducted hikes and campfire talks were continued on a daily basis through the 10th after which four talks and three hikes were given each week through the last weekend. A total of 18 campfire talks were given to 905 visitors, and campfire talk attendance was up 117 per cent from last September. The number of conducted hikes given was 16 (11 Fiery Furnace and 5 Broken Arch). 241 visitors took part in these hikes, an increase of 81 per cent over last year.

On the 13th a conducted bus trip and hike was given to a 6th grade class of 30 from Moab.

The register at the Balanced Rock wayside exhibit was signed by 1,922 visitors compared to 1,750 last September.

The orientation slide program was shown 116 times to 841 visitors.

Interpretive Facilities: The new self-guiding auto tour leaflets arrived on the 17th and were put on sale immediately. They are proving to be very popular.

A number of books were accessioned to the Arches library during the month. Among these were The Earth Beneath Us by Kirtley F. Mather, Taxidermy by Leon L. Pray, Wildlife Management by the Department of the Interior, Excavations of Southwest Utah by C. Melvin Aikens, Zoology of the Upper Colorado River Basin by C. Lynn Hayward and others, Mormon Country by Wallace Stegner, An Archeological Survey of Canyonlands National Park by F. W. Sharrock, and Birds of Zion National Park and Vicinity by Roland H. Wauer and Dennis L. Carter.

Research and Observations: Wilson's Warblers were migrating through the area in numbers throughout the month and were seen daily in the residence area and other localities. The first Oregon Junco of the season was observed on the 17th and the first White-crowned Sparrow on the 7th. A Swainson's Hawk was seen soaring over the Devil's Garden on the 17th and was the first record of this species here in recent years. Other bird records of interest included a Solitary Vireo in Courthouse Wash on the 16th, single Yellowthroats in Courthouse Wash on the 16th and 19th and a Green-tailed Towhee in the same locality on the 17th.

Protection: On the 2nd the bridge at the Turnbow Cabin area was again vandalized. The road grader which was in the area had two windows smashed. The area was littered with beer cans. The vandalism was investigated by ranger personnel and by Sheriff Stocks on the 3rd and on the 4th. On the 22nd an FBI agent Bennie Huddleson talked with District Ranger Norton concerning the incident.

A number of patrols were made to check on the Monuments dirt roads after rainfall.

On the 14th, strong winds turned over a trailer on the Monument road. The damage was slight and a wrecker which was called put them on their way again.

Several stalled motorists were helped by ranger and maintenance personnel during the month.

Wildlife: Fourteen deer were counted between the Headquarters area and the Windows on the monthly deer count patrol on the 28th.

Maintenance: The Delicate Arch viewpoint road was washed out and repaired.

Several parking areas were repaired and improved in the residential area.

The utility yard was cleaned and rearranged. It now presents a much better appearance and provides more space for vehicle and equipment parking.

The Devil's Garden generator is still out and water hauling continues.

The south and west boundaries were checked and posted as necessary during the month.

Resource Planning

Cooperating Non-Government Agencies: The amount received from the sale of Southwestern Monuments Association items was \$916.12.

H. Wayne Norton

CNP 73

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

A2615

November 3, 1966
(Date)

Memorandum

To: Chief, Interpretation and Resources Management

From: District Ranger, Arches

Subject: Monthly Narrative Report for October, 1966

General

Weather Conditions:

Maximum Temperature	<u>80°</u>
Minimum Temperature	<u>29°</u>
Total Snowfall	<u>0</u>
Total Precipitation	<u>.37</u>

Increase or Decrease in Travel (cross out one):

	<u>1966</u>	<u>1965</u>
Total Visitors This Month	<u>7,228</u>	<u>8,032</u>
Total, Year to Date	<u>126,359</u>	<u>139,276</u>
Total Overnight	<u>1,653</u>	<u>933</u>
Total, Year to Date	<u>21,703</u>	<u>21,321</u>
Total Horseback Visits	<u> </u>	<u> </u>
Total Boat Visits	<u> </u>	<u> </u>

Concession travel was noted as follows:

	Tours	People
Tag-A-Long Tours	<u> </u>	<u> </u>
Canyonlands Tours	<u> </u>	<u> </u>
Southeast Utah Tours	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>

Visitors:

<u>Date</u>	<u>Name</u>	<u>Title, if any</u>
October 12	Victor Jackson	Park Naturalist, Grand Teton
October 23	Ralph Webb	Park Naturalist, Capitol Reef

Administration

Personnel:

October 1 thru 11 Dennis Carter, Park Naturalist, enjoyed annual leave
October 12 thru 21 Wayne Norton, District Ranger, also enjoyed annual
leave
October 20 Kermit Hansen, Seasonal Park Ranger, terminated

Conservation, Interpretation and Use

Interpretive Facilities: Annette Walker, Information Receptionist, typed author and title cards for all the publications in the Arches library.

Books accessioned to the library included three Golden Nature Guides - Flowers, Insects and Rocky Mountains; Indians of Yesterday by Gridley; Birds of North America by Robbins, Bruun and Zim; Check List of Southwestern Pottery Types by Colton; First Book of Archaeology by Kubic; Flowers of Mountain and Plain by Clements; Navaho Weaving Today by Dutton; Hopi Dye by Colton; Southern Paiute Ethnohistory by Euler; and Indians of Mesa Verde by Watson.

The museum exhibits were cleaned on the 22nd.

The roadside interpretive signs including the Balanced Rock wayside exhibit were removed. They were in a bad state of disrepair.

Interpretive Services: During the month, 2579 Visitor Center contacts were made - a slight increase over last year. No talks or guided tours were given. The orientation slide show was given 28 times to 222 visitors. The equipment for this program was inoperative during the last nine days of the month. Approximately 1,473 visitors used the self-guiding auto tour.

Research and Observations: Park Naturalist Carter added two species of birds to the Monument bird list - a Mountain Chickadee in the residence area on October 17 and a Northern Shrike in Salt Wash on October 20.

The Monument is experiencing an invasion of chickadees. Both Black-capped and Mountain Chickadees were recorded in several localities during the last half of the month.

Ranger Robert Ferris observed a Red-breasted Nuthatch in the residence area on October 20.

Five Black Rosy Finches, the first of the season, were seen by Park Naturalist Carter near LaSal Mountain Viewpoint on October 28. Carter and Bill Taylor observed a flock of about 50 near the end of the Monument road on October 31.

Protection: Arches discontinued operation of the entrance station on October 15, the end of the fee collection season. During the operating period of April 15 through October 15, a total of \$21,438.50 was collected.

The Utah deer hunting season opened October 22 necessitating special hunting patrols for the remainder of the month. Vulnerable boundary areas were posted early in the month and in late September.

Building Fire Protection: On October 10, as a special Fire Prevention Week activity, Arches personnel attended a building fire school given by District Ranger Dunnagan and assisted by District Ranger Norton.

Sanitation: Water samples from the Devil's Garden Campground and from the Visitor Center were sent to the Utah State Department of Health and found satisfactory.

Wildlife: Three of the four pellet-group transects were worked this month. The last one will be done as soon as possible in November.

Maintenance: Considerable trouble was experienced in the Arches Visitor Center sewer system. Roots had gotten into the drains and the leach field does not seem to function properly. Further investigations are being made.

Some more work was done on the Devil's Garden generator but it still is not working.

The Landscape Arch trail has been completed with only a little straightening up left to be done.

Resource Planning

Cooperating Non-Government Agencies: The amount received from the sale of Southwestern Monuments Association sales items was \$412.87. It has been decided to set up a Canyonlands Natural History Assn. before the end of the year.

/S/ H. WAYNE NORTON

H. Wayne Norton

CNP 73

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

A2615

December 6, 1966
(Date)

Memorandum

To: Chief, Interpretation and Resources Management

From: District Ranger, Arches

Subject: Monthly Narrative Report for November, 1966

General

Weather Conditions:

Maximum Temperature	<u>69</u>
Minimum Temperature	<u>21</u>
Total Snowfall	
Total Precipitation	<u>.37</u>

Increase or Decrease in Travel (cross out one):

	19 <u>66</u>	19 <u>65</u>
Total Visitors This Month	<u>3,028</u>	<u>2,959</u>
Total, Year to Date	<u>126,687</u>	<u>142,235</u>
Total Overnight	<u>56</u>	<u>132</u>
Total, Year to Date	<u>21,459</u>	<u>21,453</u>
Total Horseback Visits	_____	_____
Total Boat Visits	_____	_____

Concession travel was noted as follows:

	Tours	People
Tag-A-Long Tours	_____	_____
Canyonlands Tours	_____	_____
Southeast Utah Tours	_____	_____
_____	_____	_____

Visitors:

<u>Date</u>	<u>Name</u>	<u>Title, if any</u>
November 5	Malin Foster,	Wilderness Society Representative
November 10	Dr. Oliver Scott,	Reg. Editor Audubon Field Notes
November 14	O. Merlin Terry,	Park Guide, Lehman Caves
November 26	Devereaux Butcher,	Author
November 28	Tom Mulhern,	Park Ranger, Saguaro National Monument

Special Activities: Offices and work space were rearranged at Arches Visitor Center. Efficiency is improved and some much needed cleaning was accomplished at the same time.

Administration

Management Analysis: Information Receptionist Annette Walker has cleaned up the filing system and disposed of 6.0625 cubic feet of old files.

Personnel: The form 10-153 for Kermit Hansen was submitted to the District Ranger for review and approval.

Safety & Health: Safety films have been requested: one from the National Safety Council for showing the 2nd week of January and the other from the Bell Telephone Company for the 2nd week of April. Two films were viewed by nine people, one on 4x4 principle and the other an excellent film on driving safety.

Conservation, Interpretation and Use

Interpretive Facilities: The closed cases in the Arches museum were cleaned on the 18th.

A list of all possible roadside interpretive sites was prepared as well as a list of topics to be covered in the interpretive prospectus.

A program of rearranging and cataloging the Arches slide file has been started by Annette Walker.

Interpretive Services: During the month, 853 Visitor Center contacts were made, an increase of about 14% from last year. Four special tours of the Fiery Furnace were given to 25 individuals compared to none last year. The orientation slide program was shown 7 times to 41 visitors. About 360 visitors used the self-guiding auto tour leaflet.

Research and Observations: Park Naturalist Carter added four species of birds to the Arches list - 3 House Sparrow at the Visitor Center on November 7, 1 Brown Creeper in Courthouse Wash on November 9, and 3 Gray-crowned Rosy Finch along the Monument road on November 26, and 2 Cassin's Finch in Courthouse Wash on November 30. These additions bring the number of species of birds that have been recorded in the Monument to 125.

District Ranger Wayne Norton found a gopher snake on the road near the Three Penguins on November 29. On the last day of the month a lupine was in bloom in Courthouse Wash and butterflies were still active in the residence area. On November 13, a coyote was seen near the Panorama Viewpoint road.

Protection: Most of the highway signs were replaced on the Arches roads. Some were changed to conform with the Uniform Traffic Control Devices handbook and others to replace signs in poor condition.

On the 26th, three climbers were stopped from an ascent just left of South Park Avenue in the Arches area. They were D. S. Leak, Tom Rasmussen, and Jeri Bowen. The climbing location they had chosen was in complete view of other visitors. This would have caused traffic to stop on the road to watch and the pitons left there would have been visible.

The rescue cache was cleaned and rearranged during the month.

Building Fire Protection: All Monument fire extinguishers were checked. Three of the cylinder type were found faulty and the cylinders were replaced.

Sanitation: A sample of the Monument water supply was sent to the State Department of Health and rated satisfactory.

Wildlife: The deer pellet-group count was completed this month.

A Cap-Chur gun was borrowed from Del Taylor, the county dog catcher. As soon as the darts and related equipment can be obtained, we plan to attempt the tagging of deer.

Maintenance: Roots were cleaned out of the Arches Visitor Center and Residence No. 3 sewers and the distribution lines were releveled. One tree was moved to keep roots out of lines.

Maintenanceman Rose and Laborer Stewart have been trimming dangerous limbs in the campground area.

The Delicate Arch Viewpoint road washed out again on November 8 and was reopened by the road crew about November 22.

Resource Planning

Cooperating Non-Government Agencies: The amount received from the sale of Southwestern Monuments Association items was \$263.85. Articles of incorporation for the Canyonlands Natural History Association were prepared and sent to the regional office for approval.

/S/ H. WAYNE NORTON
H. Wayne Norton

CNP 73

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

A2615

January 5, 1967
(Date)

Memorandum

To: Chief, Interpretation and Resources Management

From: District Ranger, Arches

Subject: Monthly Narrative Report for December, 1966

General

Weather Conditions:

Maximum Temperature	<u>61</u>
Minimum Temperature	<u>6</u>
Total Snowfall	<u>3"</u>
Total Precipitation	<u>.57</u>

~~XXXXXXXXXX~~
Increase or Decrease in Travel (cross out one): Travel for the year is down ~~113 from 1965, compares for the year are almost the same.~~

	1966	1965
Total Visitors This Month	1,306	1,600
Total, Year to Date	127,993	113,901
Total Overnight	17	41
Total, Year to Date	21,176	21,191
Total Horseback Visits	_____	_____
Total Boat Visits	_____	_____

Concession travel was noted as follows:

	Tours	People
Tag-A-Long Tours	_____	_____
Canyonlands Tours	_____	_____
Southeast Utah Tours	_____	_____
_____	_____	_____

Visitors:

<u>Date</u>	<u>Name</u>	<u>Title, if any</u>
12/27	Barbara Claus	Assistant District Ranger

Special Activities: The annual inventory was completed during the month.

Administration

Personnel: At least some leave was taken by all members of the Arches Staff during the month.

On December 20, Park Naturalist Dennis Carter accepted the Supervisory Park Naturalist position at Craters of the Moon National Monument, Idaho. Dennis has done a fine job for Arches during his tour and we feel privileged to have worked with him.

Safety and Health: Ranger Ferris had a vehicle accident while on routine road patrol on the afternoon of the 26th. He fell asleep at the wheel and ran off the road striking some rocks near a culvert. The use of the seat belt prevented serious injury with only some strained back muscles. Cost of the damage has not yet been assessed.

A survey was made of parking turnouts to ascertain whether all the "Viewpoint Ahead" signs were necessary for visitor safety. It had been determined that most of them are not needed.

Conservation, Interpretation and Use

Interpretive Facilities: The slides on animals were arranged in the Arches slide file and cataloged.

Conferences were held on the interpretive prospectus by Arches staff members and an outline of the material to be covered was prepared.

Interpretive Services: At Arches, 392 Visitor Center Contacts were made, an increase of 36% from last year. The orientation slide program was shown twice to 11 visitors and about 222 visitors used the self-guiding auto tour booklet.

Research and Observations: The first draft of an annotated list of the Birds of Arches National Monument was prepared by the Park Naturalist.

The Christmas Bird Count was taken on the 30th; 37 species were recorded. The most unusual find was a white-throated sparrow observed by Carrie Taylor in the residence area. This is a new species (#126) for Arches National Monument.

A visitor reported seeing a bobcat chasing a rabbit.

Protection: An icy road sign was placed just beyond the Panorama viewpoint turnoff at the top of the hill. This portion of the road is frequently shaded and covered with ice and snow.

It was necessary to leave the Turnbow Cabin road closed for several days due to the snowfall.

A minor rescue situation developed on December 18 when one of the sons of the Arches District Ranger became stranded in the bottom of a narrow canyon. Ranger Ferris was stopped by one of the boys and informed of the problem while on routine patrol. The older boy drove down after help and climbing equipment but the Ranger effected the rescue himself with a rope carried in the patrol vehicle.

Building Fire Protection: Fire hydrants were flushed to loosen the valves and remove any accumulated rust.

Sanitation: Two water samples were submitted from the Arches water supply and were rated satisfactory by the Utah State Health Department.

Maintenance: Most of the Arches informational signs have been repainted or reconstructed.

The Delicate Arch viewpoint road washed out again and was repaired during the month.

All roads were plowed following a snowstorm on December 26.

Resource Planning

Cooperating Non-Government Agencies: Sales of Southwestern Monuments Association items for the year totaled \$7,406.53 compared to \$8,302.21 last year.

Setting up of a Canyonlands Natural History Association has been delayed because the proposed articles of incorporation have not been returned by the regional office.

/S/ H. WAYNE NORTON

H. Wayne Norton