



IN REPLY REFER TO:

# United States Department of the Interior

## NATIONAL PARK SERVICE

JOSHUA TREE NATIONAL MONUMENT  
74485 NATIONAL MONUMENT DRIVE  
TWENTYNINE PALMS, CALIFORNIA 92277-3597

### SUPERINTENDENT'S ANNUAL REPORT FOR 1988

The calendar year 1988 was a difficult year for the staff at Joshua Tree National Monument. Without exception, all five divisions operated short-handedly.

Calendar year 1989 is starting out no better, but slightly worse. With shortages of staff our personnel did an outstanding job, even in our record visitation year of 958,958 recorded visitors which is an increase of 15% over 1987.

Several years ago with the coming of Haley's Comet Joshua Tree was advertised through the media, both in San Diego and Los Angeles, as one of the more ideal places to view the comet. The Monument was receiving extremely heavy visitation during the comet viewing period and its felt that this event introduced a great many people to the Monument from the southern California Metropolitan areas that are both within a three hour drive.

Additionally, during 1986 with the first introduction by California Senator Alan Cranston of the "California Desert Conservation Act" Bill additional attention has been drawn to the Monument. Senator Cranston re-introduction of the Bill in the 99th and 100th Congress, as well as our current 101st Congress has further brought significant attention to the desert including Joshua Tree National Monument. When this Bill was first introduced there was a great deal of misunderstanding by some members of desert communities, primarily by adverse and biased news media. It appears that currently there's a more indepth understanding by the general public of the Bill "S-11", and with a similar Bill on the floor in the House of Representatives it appears it will receive Congressional attention during this Congress.

The above activities as well as a growing trend to the use of the desert by the general populace has severely strained the resources at Joshua Tree National Monument. The saving grace through these years is that the Monument is blessed with an extremely competent and dedicated staff. All of whom contribute a 110%.

The following pages contain reports from the division chiefs of Administration, Protection, Interpretation, Maintenance and Resources Management. These reports address significant accomplishments because of dedicated employees but also identify severe shortages in both manpower and money. Hopefully the future is bright for Joshua Tree National Monument for it certainly is one of the crown jewels of the National Park Service.

Rick Anderson

- ADMINISTRATION - 1988 CALENDAR YEAR

The switch of our servicing Finance Division from Western Region to Accounting Operations Division in Reston, VA., created total chaos with invoice paying. A.O.D. still has not caught up with Joshua Tree's work, though we are nine months into the changeover.

We hired a part-time, temporary GS-3 Clerk Typist for the Admin. Div. This was precipitated by our entry into the A.F.S. obligation transmittal system. That became only a small part of the clerk typist's duties. Her help was invaluable in assisting the Procurement Clerk, Superintendent's Secretary and the Admin. Officer.

From February 29, 1988, through October 1, 1989, her salary was paid from donation funds. As of the end of the 1988 fiscal year those funds were depleted and her salary was switched to the Administrative account. With the allotment of 1989 FY funds, it was discovered that there was no possibility of continuing to pay the salary of the Clerk Typist. She was terminated effective January 14, 1989.

Procurement cut 428 purchase orders during the 1988 fiscal year. That is an all-time record for Joshua Tree when one takes into consideration that we had 38 blanket purchase orders, that saved the preparation of many, many individual purchase orders.

The final O.N.P.S. budget at the end of 1988 fiscal year stood at \$1,527,127. This included all fee enhancement funds and the add-on for operation of the fee collection system.

In FY88 there was considerable reorganization taking place following revision of position management within the various divisions of the Monument. Positions in Resource Management, Protection and Maintenance were reviewed and redesigned in an effort to become more efficient and cost effective in operation.

Protection Division created a Fire Management position and had 4 newly approved positions for patrol rangers. This allowed promotion of two current rangers to GS-9 supervisory rolls, the hiring of two other currently employed rangers to fill the patrol positions so badly needed. By hiring those highly qualified from the present staff, the start-up costs were minimized and when funds are available to fill the other 2 patrol positions, and another entry level ranger job, we will have a much better enforcement operation in action.

The redescription of several key positions in the Maintenance Division resulted in the promotion of two current employees to foreman status, and one 10-point compensable veteran to a WG-8 Maintenance Worker. One former foreman had requested removal from supervisory duties as he edged toward retirement, and he was moved into a Leader status. A seasonal employee showed interest in obtaining information in the Indian Agency Job Assistance Program and was guided through the variety of optional areas to eventually make proper contact for his request. Rather than risk working for another agency in an unknown locale, he opted to continue in a seasonal status at Joshua Tree until such time as he may be able to get a permanent position here.

The Resource Management Division plans to advertise in FY89 to fill the newly created position of Resource Management Supervisor, GS-401-11. This division has made steady progress in building the assigned projects with notable resourcefulness and the reorganization will create a more efficient operation in FY89.

The Administrative Division has added a seasonal position to facilitate the work flow due to increased staff responsibilities over those of 1971 when this division last added a position.

Two new temporary positions were located in the Interpretive Division where a major Indian Collection is being cataloged and restored.

Statistically, the ethnic makeup of the employees in FY88 was as follows:

Seasonal Personnel:

<u>Hispanic Female</u>	<u>Black Female</u>	<u>White Male</u>	<u>White Female</u>	<u>Indian Male</u>
1	2	13	14	1
		<u>Asian Female</u>		
		1		

Permanent Personnel:

<u>Hispanic Male</u>	<u>Indian Male</u>	<u>Indian Female</u>	<u>Asian Male</u>	<u>Black Male</u>
3	2	1	1	2
	<u>White Male</u>		<u>White Female</u>	
	18		7	

Additionally - 1 white male in this category was hired under a handicapped appointment.

1 Black male is starting his first year under the Co-op Ed Program.

Promotions: 1 Hispanic Male to GS-9  
 1 White Male to GS-9  
 1 White Male to WS-8  
 1 White Male to WS-9

Joshua Tree continues to have a GS-9 Administrative Officer which is a target occupation in the Western Region for women.

The following training was completed by employees in FY88 -

40 hrs	Seamon	MMS Computer Training Course	9/88
40 hrs	Pepeto	Museum Recordkeeping f/Arch Collections	9/88
24 hrs	Ford	Tri State Amer. Wtr. Wks. Assoc. Seminar	9/88
24 hrs	Gentry	Same as above	9/88
24 hrs	Patterson, T	Emergency Medical Svc. Wkshop	8/88
24 hrs	Gillett	NPS Computer Cataloging Wkshop	7/88
80 hrs	Ayala	Building Maintenance Skills	7/88
24 hrs	Knapp	Inst. Training - Revised M.V.Rpt 10-413	6/88
160 hrs	Pritchett	Ranger Intake Trainee Program	8/88
40 hrs	Knapp	Firearms Instructor Course	5/88
40 hrs	Schlinkmann	Same as above	5/88
40 hrs	DeBus, J.	Fee Collection supervision	5/88
40 hrs	DeBus, W.	Same as above	5/88
40 hrs	Arrington	Same as above	5/88
40 hrs	Thompson	Engineering Equip. Op. Training	6/88
40 hrs	Bowe	Same as Above	6/88
40 hrs	Morcilio	Same as Above	6/88
24 hrs	Heuston	Air Quality -Acid Rain/Air Polut Desert	5/88
40 hrs	Thompson	E. O. Counselor Refresher Course	5/88
40 hrs	Patterson, T.	Crew Supervisor Training	5/88
40 hrs	Bowe	Blasting & Explosives Safety course	5/88
40 hrs	Patterson, C	E. O. Counselor Refresher Course	5/88
24 hrs	Pearson	S-211 Fire Course	4/88
40 hrs	Moon	W. R. Revegetation Workshop	4/88
40 hrs	Arrington	Collateral Duty Safety Officer Training	4/30
40 hrs	Anderson	E. O. Counselor Refresher Course	5/88
16 hrs	Lewis	Pursuing Secretarial Excellence	4/88
16 hrs	Clements	Same as above	4/88
40 hrs	Pepeto	NPS Computer Cataloging Workshop	4/88
8 hrs	Ford	Aviation Training	4/88
8 hrs	Garcia	Aviation Training	4/88
40 hrs	Henry	Law Enforcement Course - Instruct.	4/88
40 hrs	Schlinkmann	Admin. Tech. Workshop	4/88
40 hrs	Moon	S490-Advanced Fire Behavior	3/88
40 hrs	Bowe	Chief of Maint. Workshop	3/88
40 hrs	Gentry	Same as Above	3/88
80 hrs	Gillett	Curatorial Methods	3/88
40 hrs	Briggs	S-260 Fire Business Management	1/88
40 hrs	Brinkmeyer	Same as Above	1/88
40 hrs	Schlinkmann	Same as Above	1/88
40 hrs	Moon	RX95 Course - Instructor	12/87
40 hrs	Henry	Regional L. E. Refresher Course - Inst.	12/87

40 hrs	Henry	I-400 Incident Commander Training Course	12/87
80 hrs	Teague	Technical Rescue Seminar - Inst.	10/87
40 hrs	Lewis	Federal Quarters Management Conference	10/87

IN-HOUSE TRAINING HELD FY88 -

Super-Vision

6/88

40 hrs	Arrington
40 hrs	DeBus
40 hrs	DeBus
40 hrs	Pica
40 hrs	Truesdell
40 hrs	Bowe
40 hrs	Davis
40 hrs	Wilcox
40 hrs	Moon
40 hrs	Ayala
40 hrs	Morcilio
40 hrs	Ford
40 hrs	Thompson
40 hrs	Gillett
40 hrs	Knapp

AWARDS OF FY88

Quality Step Increase	- Gentry
\$500 Monetary Award	- Morcilio
\$400 Monetary Award	- Heuston
\$589 Monetary Award	- Lewis
\$250 Monetary Award	- Briggs

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MEMORANDUM

PROTECTION DIVISION - 1988

During 1988 Monument personnel handled 29 search and rescue incidents, one being a fatality, and 36 emergency medical incidents. Rangers investigated approximately 1000 law enforcement incidents, including 198 off-road driving violations. These investigations resulted in 236 citations, 48 being mandatory appearance citations. 31 traffic accidents were investigated in the monument; four fatalities resulted from these accidents. These incidents resulted in over 400 hours of after hour emergency call outs.

Ten wildland fires occurred within Joshua Tree National Monument in 1988, burning eight acres. One 25 acre prescribed burn was conducted. Monument personnel responded to a total of 40 fires during the year, many assignments being three weeks long.

In 1988 the fee collection program collected \$430,738 compared to \$245,059 in 1987. The north entrance station out of Twentynine Palms began operation July 1st 1988.

Two new permanent positions were created in the protection division during 1988. Kip Knapp was hired as a GS-5/7 Park Ranger and Jim Schlankmann was hired as a GS-7 Ranger. Also Karl Pearson was hired on as a permanent GS-4 Clerk Typist.

  
D. Paul Henry

INTERPRETATION AND VISITOR SERVICES  
JOSHUA TREE NATIONAL MONUMENT

Interpretation - 1988

Interpretive operations were still very much reduced in 1988; however we did benefit by additional fee revenue monies which allowed us essentially to add a second employee at the Cottonwood area, keeping that visitor center open almost daily for the entire year. Because of other incurred expenses, however, we had to lapse two permanent positions for extended periods, thus not accomplishing as much in matters such as interpretive publications, trail repairs, trail label text reviews, and getting in planning for other needed interpretive media, rehabilitation needs, etc. The two positions were filled during February and August. With the staff available this year we also operated the Oasis Visitor Center daily and were able to provide a rather good interpretive program schedule, primarily on weekends throughout the visitor seasons. Volunteers in the Parks continue to play an important roll in the maintaining of programs. Weekly programs were presented by VIPs at Black Rock, twice monthly astronomy talks were presented by Astronomy groups at Hidden Valley and Cottonwood, and Campground Hosts assisted by keeping the Black Rock Visitor Center open from approximately January through May. Hosts assisted in three campgrounds during the year.

Division personnel received some excellent training during the year, including the Super-Vision course offered at Joshua Tree, ANCS Catalog training, Curatorial Methods, Search and Rescue, and S-190 and 130 Fire training. Cooperative Education Student Pritchett attended four weeks of specially scheduled training at Golden Gate NRA, including Interpretive Skills I, Resource Management, and Orientation to NPS Operations. Hispanic Program Manager Vasquez assisted the Western Region EEO Office in developing plans to positively respond to a Region Class Action suit, which included planning for a Career Development Workshop.

A special training and work program was developed this year for three German Student Interns, who worked for six months as Volunteers for almost all Park operations. They were scheduled to work at visitor centers, on revegetation projects, on architectural drawing projects, in the park museum collection room, and a wide variety of other projects.

The following is a breakdown of programs offered and the number of visitors contacted:

Visitor Centers	155,384
Tours and Walks	1,469
Talks (NPS and 25% VIP)	5,554
Environmental Education (Association sponsored)	1,733
Fee Interpretive Historic Tours (Association)	2,960

## Cultural Resources Management

Museum Curatorial cyclic funds were obtained for hiring two temporary Museum Curators in February to begin the inventory of Joshua Tree's 100,000 artifacts. Using the ANCS program we began entering all records into the computer. A lot of housekeeping chores had to be accomplished as little had been done in the museum over the past ten years. Most artifacts were transferred to proper archival containers, as were photographs and transparencies and documents. The Keys Ranch artifacts that had been brought into the museum as long as ten years ago were catalogged, and an inventory at the ranch was accomplished. Among these articles were found some highly toxic waste materials that had to be disposed of. The Marine Corps Base disposal unit assisted us with this. New accessions for the year totaled 22; completed catalog records sent to Harpers Ferry Center totaled 988. There were 21 researchers utilizing the collections this year, and a number of interested individuals also visited the museum, including representatives from Native American groups including the Agua Caliente Band of the Cahuilla Indians, the Chemehuevi, and the Colorado Indian Reservation of the Mojave Indians.

During the year the Chief Naturalist and other staff members became involved with the Mojave Desert Archeological Planning group, attending their meetings and hosting a tour of the Pinto Basin archeological site.

Historic Stabilization cyclic funds were obtained this year and stabilization work was accomplished on the Lost Horse Mill and Keys Ranch historic structures. Death Valley's mine safety crew also assisted us with the netting of some mine shafts and old wells.





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**Subject: Maintenance Division FY88 accomplishments and Activities**

Joshua Tree Maintenance Division went through many changes during fiscal year 1988. In February, Thomas Roberson, the Monuments General Foreman transferred. Upon his transfer a total maintenance reorganization took place and two separate divisions were developed; Roads and Trails Division, and a Buildings and Utilities Division. These two divisions were created due to the necessity of the complex vast operation of maintenance activities. Joshua Tree National Monument was too large an operation to function efficiently under one general foreman's supervision.

In May we hired a Roads and Trails Foreman from within the internal operation. Mr. Daral Bowe, our Heavy Duty Mechanic, was promoted to a Maintenance Mechanic Foreman. With Mr. Bowe's promotion, we eliminated our Heavy Duty Mechanic position; the Monument is located adjacent to three communities with these services. Any automotive equipment repair could be contracted out.

In June we hired a Buildings and Utilities Foreman from within the internal operation. Mr. John Ford, our Maintenance Worker Leader, was promoted to Buildings and Utilities Foreman.

Another fiscal year has gone by without any Federal Highway projects occurring within the Monument. One million dollars was set aside for the repair of Cottonwood Canyons low water crossings. Six alternatives were developed at meetings among the National Park Service, Design Assistance Team, Denver Service Center, Federal Highway Engineers and Hydrologists. Alternative #6, the reconstruction of selected low water crossings and minor road realignment was the NPS DAT team's recommendation and Joshua Tree concurred. The FHWA leaned towards #4, extending all low water crossings and the construction of dikes to deflect drainage flow. Both projects exceeded the \$1,000,000 program.

In January, Superintendent Rick Anderson and Chief of Park Maintenance John Gentry went to Denver to address this situation at DSC's January work session and to meet with FHWA's engineers to resolve this "stale mate." The meeting was held and still no decision was reached. Regional FHWA's funding of \$25,000 was granted for FY88 so that Park staff could do minor repairs to prevent possible road washouts due to present design.

Joshua Tree entered into a 7 year 7 phase FHWA road reconstruction project in 1984 with a target completion date of 1991. Presently, only 3 phases have been completed. The last FHWA road project was completed in FY87. Now targeted completion date will be somewhere in the late 1990's. Instead of a 7 year program; Joshua Tree's FHWA road program is now turning into an approximately 15 year program. The road conditions throughout the Monument are poor and in serious condition. Major road and shoulder work is needed on the sections of roadway which were scheduled to be completed by FHWA. Needed funding will be requested through our already over-taxed Rehab/Cyclic program.

Five major rehab/cyclic projects were funded and four were completed. The completed projects were:

1. Rehab 10 miles of trails; PKG #338, \$25,000
2. Restripe 64 miles of roads; PKG #301, \$13,000
3. Reroof/Replace heating/air conditioning Admin/VC Bldg.; PKG #247, \$269,000
4. Rehab Lost Horse Mine trail; \$15,000

Not completed was:

5. Chip seal 10 miles road; PKG #300, \$115,000

The Chip Seal road project was reduced from \$115,000 to an authorized amount of \$55,000 due to Western Region budget cuts. The bid was awarded to an 8A contractor on September 20, 1988. Total negotiated bid was \$113,000 to do the 10 mile section of roadway. Only the base portion of this contract would be possible due to the reduction of the authorized funding, 3 mile section only. Starting date postponed due to weather. New notice to proceed date March 20, 1989.

Equipment replacement for FY88 was the purchase of a 10 yard dump truck, delivery date Spring of 1989.

In FY88 a Cultural Cyclic project was funded, the Historical Stabilization of Keys Ranch/Lost Horse Mine. It was a very successful project, a total of 12 unsafe mine shafts were sealed with the assistance of the Death Valley Mine Safety crew. The Lost Horse Mine Stamp Mill was stabilized and reconditioned. The rest of FY88 Cultural Cyclic funding was spent on the stabilization of Keys Ranch. Much work is still needed, and many more unsafe mine shafts still need to be sealed and critical stabilization is needed on the Keys Ranch project. Many structures at Keys Ranch are starting to deteriorate to the point of the total loss of these historic structures and it has created

a very unsafe condition. Weekly tours are conducted serving approximately 4,000 visitors per year. Continued funding is needed to preserve this historical structure. No funding was authorized for FY89. All construction has ceased.

Fee Enhancement Program: maintenance portion was used to close 5 in-park barrow pits during FY88.

To increase Park revenue and detour vandalism, a major construction project was a new North Entrance Fee Collection Station built by Park personnel.

Construction continued with the completion of another 1400 ft. of concrete handicapped Oasis of Mara Trail.

Quarters Replacement Program: site preparation, set up, and landscaping of the new module home at Black Rock Campground.

Major unexpected storm clean-up parkwide, August 1988. Approximately 80 mandays and many equipment hours were spent on this cleanup.

Replacement of 43 worn out/vandalized picnic tables during FY88

Installation of a new radio tie system with San Bernardino County dispatch operations.

#### ADMINISTRATIVE ACCOMPLISHMENTS

The implementation of the New Maintenance Management System. Fully successful!

The selections and supportiveness of the Maintenance Affirmative Action Plan Program (MAAP) resulted in hiring a Hispanic employee during FY88.

Hired a new WG-08 Maintenance Worker. This was due to the transfer of one of our Maintenance Workers to Olympic National Park.

Reviewed and rewrote maintenance employee's position descriptions, which resulted in upgrading some of our employees.

Maintenance Worker WG-05, Mr. Arthur Ayala injured on the job August 1988, Workman's Compensation, possibility of a medical retirement. Mr. Ayala has not returned to work as of yet.

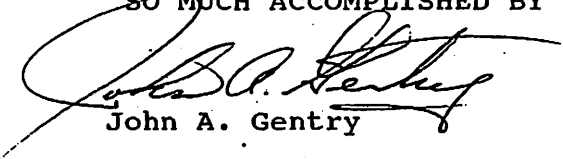
Out of park training for maintenance employees involved the following courses: Engineering Equipment Operator certification, Certified Blasters Training, Building Maintenance Skills, SuperVision, EEO and Defensive Driving for all employees.

These were just some of the major accomplishments of fiscal year 1988. Along with these accomplishments, regular routine, i.e.,

campground sanitation, road repair(patching, grading), building maintenance, and routine work orders were also completed.

Joshua Tree is fortunate to have such versatile dedicated employees on their maintenance staff. They have responded to many immediate needs to accomplish a wide varieties of projects which we were faced with in FY88. Very commendable work.

"SO MUCH ACCOMPLISHED BY SO FEW"



John A. Gentry

## RESOURCES MANAGEMENT

January 1988

By now most of you know that we will be losing Jen Coffey, our Resources Management Specialist, by mid-February. Her go-get-'em attitude in all her projects will be hard to replace not to mention the fact that she is just nice to be around! We know that she will enjoy being with her husband, Mike, at Lake Mead instead of having to commute every other weekend. We hope that she will be back for a visit now and then.

The nursery crew (with the CCC) is continuing the planting of roadside vegetation. They are now working on the section of PR12 from Pinto Wye to the Geo Tour Road. The yucca plants that were pulled out of the way and stored in the temporary nursery near Sheep Pass last year are being replanted. Once the yuccas are planted the crew will then begin to plant our nursery raised stock.

On February 4th there will be a test burn in the Covington Flats area in anticipation of the full scale Fuel Hazard Reduction burn to be scheduled shortly thereafter. This is being coordinated with the FMO (Fire Management Officer), Mike Brinkmeyer and the District Ranger, Grady Arrington. Cheto Olais will be the Burn Boss. The hazardous fuel in that area is blackbrush (Coleogyne ramosissima), that is growing lush and huge. The 1987 Fire Management Plan mandates that a minimum of 10 acres be burned per year.

We've had a couple of interesting wildlife sightings this month. Cheto saw a Ringtailed cat run across the road near Skull Rock on January 19th. An excellent sighting of a Bighorn sheep herd was turned in by John Covelli of Redlands. He was in the Eagle Mountains near Eagle Tank and saw 6 rams, 8 ewes and 5 lambs for a total of 19 sheep in the herd. WOW! Don't forget to turn in those observation cards, not only on the larger mammals but any animal or bird that is doing something unusual, i.e. nesting, begging from campers, etc.

March 1988

We've been busy this past month here in Resources Management. Contrary to popular opinion, we actually do work around here. Several weeks ago, Melanie gave a tour of the greenhouse complex to a first grade class from Blessed Sacrament Catholic School. Each child had a hands on experience with planting and went away with their own cup of soil mix in which they had planted several Coyote melon (*Cucurbita palmata*) seeds.

The revegetation topside was slowed down due to a "sick" backhoe. The large Yuccas that have been stored in the temporary nursery in the Sheep Pass area were checked for viability, flagged and ready to be dug up and replanted along the roadside as soon as the backhoe was back in operation. Once the Yuccas are in place the rest of the smaller plants from the greenhouse can be put in.

Mark has been busy with another aspect of his job....mines. Since the Monument is honeycombed with old mines, prospects and dangerous holes of various descriptions, Mark has been showing some of the sites to a Historical Architect, Mechanical Restoration Engineer from Washington and Denver and a member of Death Valley's Mine Safing Team.

In Mark's usual bailiwick, an automated remote site weather station from Climatronics has arrived to be set in place soon near Lost Horse Ranger Station. The information from this weather station will not only be used for the ozone research, but also will be available for fire/weather during fire season.

We won't talk about the gophers that seem to be multiplying and munching their way through the Biomonitoring plot!

On February 24th, a prescribed burn was held in the Covington Flats area to reduce hazardous fuels (blackbrush) near the boundary of the park. According to Cheto, approximately 20 acres were burned. It was labor intensive since the wind wasn't strong enough to carry the flames through the brush and it had to be lit almost on a bush by bush basis. Aside from that drawback, a new Computrac fuel moisture analyzer worked great giving accurate one hour fuels readings in 15 to 20 minutes. And as Murphy's Law would have it, while we were all busy with that fire, someone (or two) set an arson fire in the palm trees in the Oasis of Palm. Hopefully, most of the trees will survive.

And, last but not least, we would like to welcome Ray Miller and Catarina Sanchez to Resources. They are students from Copper Mountain Campus and will be doing mostly maintenance and reveg work.

APRIL 1988

It seems the monthly RM Newsletter is due every other month, maybe! But with "you-know-what" several weeks, things just fall apart here.

We want to welcome Mark Holden to our monthly Peace Corps and comes to the desert from a warmer, cooler Michigan. He will be taking Heidi Haid's position when she leaves for Alaska. We wish Heidi "bon voyage" and hope the Alaskan mosquitos give her a fighting chance. We've had a lot of heavy help from Marta, Martina and Marguerite and it's been appreciated.

Though the roadside planting is over for the season, the nursery area will still be a busy place. During the warmer months ahead the crew will be going full bore with propagation experiments, seed collecting, doing more work in the Oasis area, including the planting of our desert orchid (Epipactis atrorubra) near the pond. Plans are being made to landscape the north and west sides of the nursery for aesthetics and possible interpretation use.

A "Nursery Operations Guidebook" is in the process of being written as an aid to anyone who works there. We are putting together a videotape on the revegetation projects and hope to show it at a staff meeting soon.

Spring is here...we can tell by the number of baby birds being turned in along with occasional baby birds. The front desk are doing great at helping us with the and paperwork together by writing a note on the and corresponding shell. An Eared Grebe was brought in, probably the victim of high winds. As usual, he was found to be injured as there was some blood on wing and leg. After a thorough checkup it was determined that the injury was not serious, more than a minor scrape on his leg and he was released in the morning at 29 Palms Inn. He was seen to smile as he paddled off to his sunset.

A concrete barrier has been poured around the monitoring plot at Lost Horse in an attempt to keep people from having picnic lunches there on a daily basis and wiping out the plot totally. The plot has been weeded and drip system installed. All is in readiness for some new plantings which will include annuals this year.

to come out every time on vacation for what can I say?

crew. Mark is excited, cooler Michigan. He leaves for Alaska. Mosquitos give her help from Marta, Martina and Marguerite.

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SUMMER 1988

We here at Resources Management do realize a spell since we last printed our newsletter. We hope no inconvenience has been caused by

As many have seen, the new shed has been built. This larger shed will be used with a 2/3 portion. The larger portion of this will be used by the nursery crew. The crew is also in the process of purchasing new ripstop shade cloth that won't tear under one did. We have to protect the young from heat.

In Air Quality, Mark Heuston toured a group of the Monica Mtns. Nat. Park through the biological parks in Western Region are showing biological effects monitoring for ozone

Mark Heuston will be attending a Hazardous Waste Workshop in Tucson, Arizona in late September as a speaker. He hopes to bring back valuable insights on management as well as interpretation of early mining sites.

Mark is also HAPPY to report that gophers at the SEEM plot have curbed their appetite since the installation of a cement wall. (Although several gophers have been noted gumming the wall)

With the onslaught of increasingly hot weather, many animals are flocking to lower springs and guzzlers. It is a good idea to glimpse one or any other large animal and fill out an observation card. Unusual behavior should also be reported.

Bighorn seem to be abundant and since we have sighted three rams, nine ewes, and five kids have been sighted. One of unknown gender and five mule deer have

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Ray Miller and Mark Holden were assigned to the Newstone as fire fighters. They were on the Clover and Shoshone fires, did some positive containment work and intense flame lengths. They were on that assignment for 10 days. Holden was then sent to Arapahoe National Forest in Colorado with Karl Pearson for a week. Both Miller and Holden say they got a good dose of firsthand fireline experience.



J O S H U A     T R E E     N A T I O N A L     M O N U M E N T

TOTAL VISITORS FOR YEARS 1941-1970

<u>YEAR</u>	<u>VISITORS</u>	<u>PERCENT INCREASE</u>
1941	23,964	- - -
1942	23,691	1.15 %)
1943	17,414	26.60 %)
1944	7,640	17.90 %)
1945	18,275	29.20 %
1946	36,605	10.31 %
1947	57,801	17.90 %
1948	59,157	2.33 %
1949	66,991	13.24 %
1950	79,129	18.12 %
1951	93,615	18.31 %
1952	141,416	11.06 %
1953	172,423	11.93 %
1954	260,730	51.22 %
1955	280,559	7.61 %
1956	312,889	11.52 %
1957	320,267	2.36 %
1958	365,312	14.06 %
1959	299,616	18.93 %)
1960	320,084	6.83 %
1961	301,524	5.16 %)
1962	331,458	9.93 %
1963	346,277	4.46 %
1964	343,363	0.85 %)
1965	336,021	2.13 %)
1966	408,577	21.59 %
1967	416,460	1.93 %
1968	489,441	17.52 %
1969	550,323	12.42 %
1970	642,993	16.31 %

1971	577,822	11.28 %)
1972	605,462	4.78 %
1973	593,012	2.10 %)
1974	503,881	17.69 %)
1975	554,362	10.02 %
1976	731,822	32.01 %
1977	748,441	2.27 %
1978	605,132	23.68 %)
1979	593,002	2.05 %)
1980	547,722	8.27 %)
1981	615,490	12.37 %
1982	676,110	9.85 %
1983	674,384	0.26 %)
1984	666,555	1.17 %)
1985	643,998	3.50 %)
1986	786,299	20.10 %
1987	833,341	5.98 %
1988	958,958	15 %