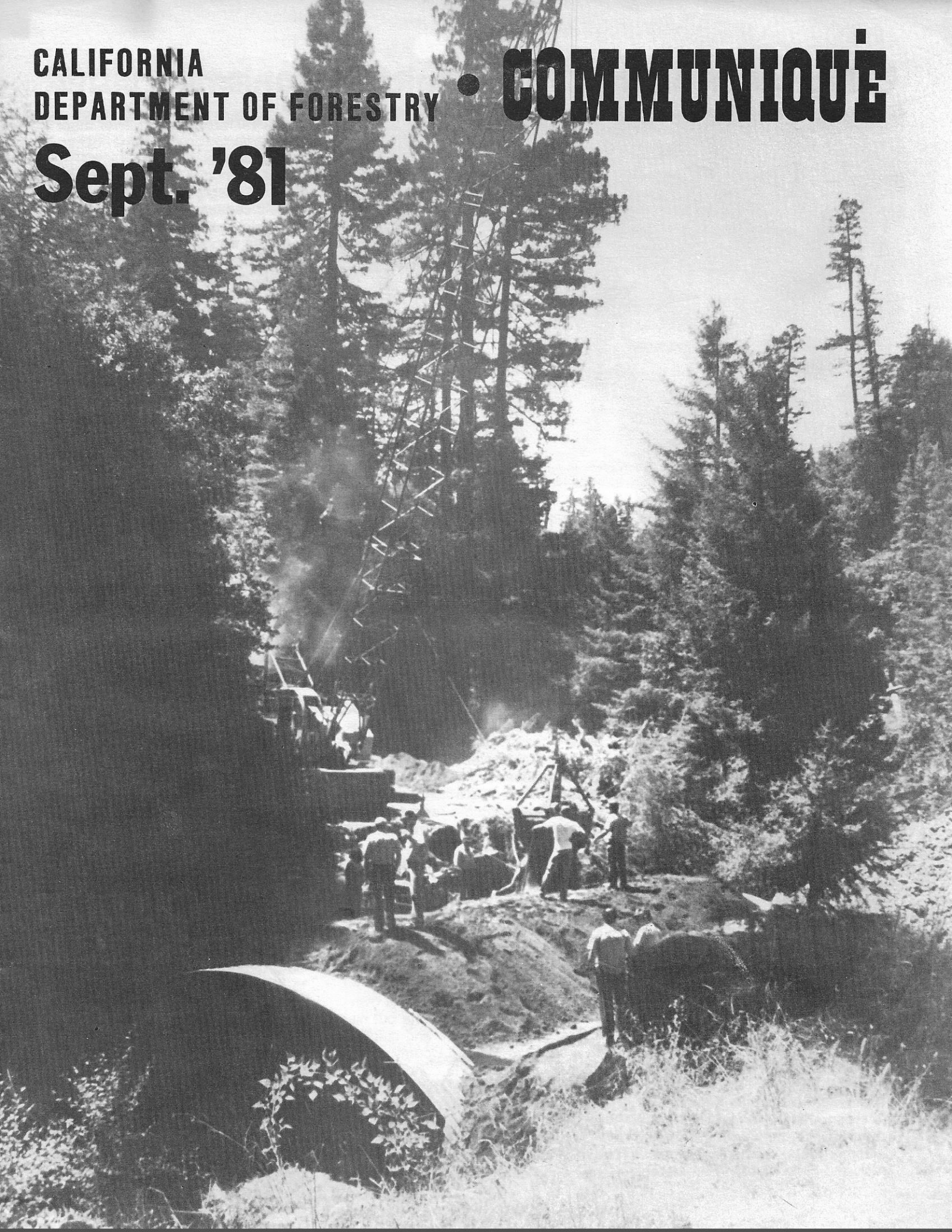


CALIFORNIA
DEPARTMENT OF FORESTRY

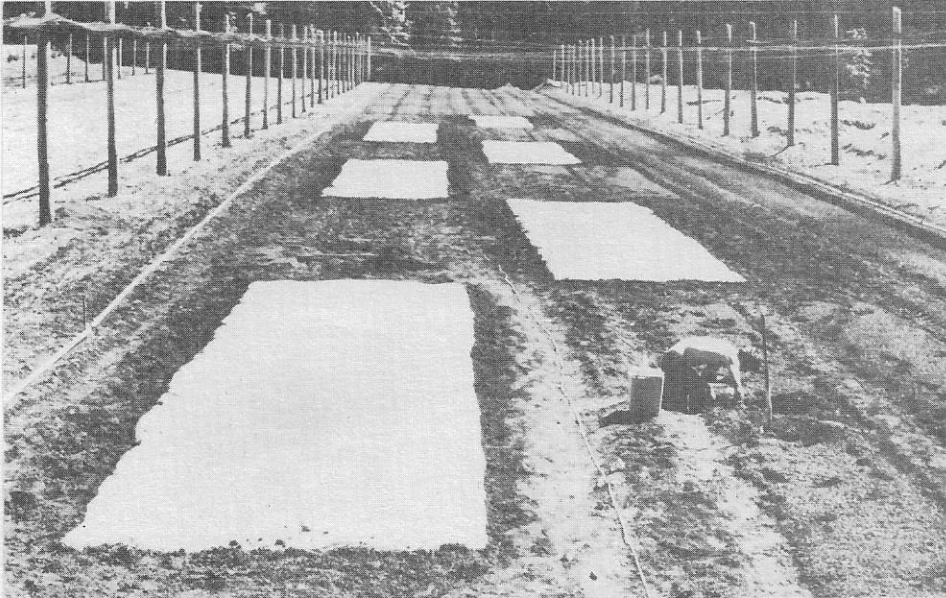
Sept. '81

• COMMUNIQUE



Using solar energy to kill microorganisms

by Dave Adams



Six, 9' x 10' solar pasteurization tarps are in place in experimental design. Keith Brownell is installing thermocouples to remotely measure soil temperature under tarped and untarped areas.

On July 21, a new method of soil treatment for control of soil-borne root pathogens was begun at CDF's Magalia Forest Tree Nursery. This method, using solar energy to kill harmful soil microorganisms is called

"solar pasteurization" or "soil solarization". Originally developed in Israel, the technique is based upon the "greenhouse effect" to greatly heat the soil to either directly kill unwanted plant pathogens, or change

the soil environment to favor other microorganisms who in turn destroy plant pathogenic fungi.

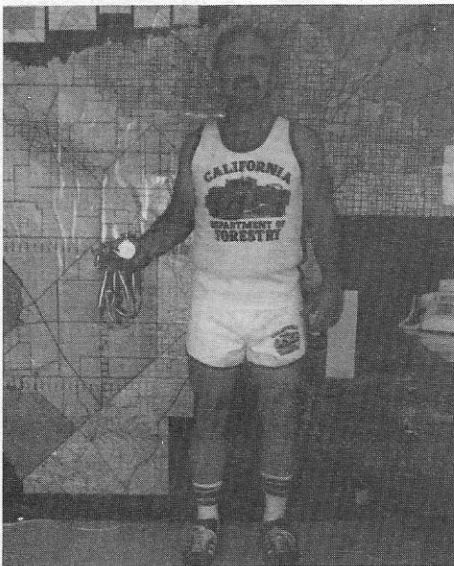
The method is simple in application, involving only bringing the soil to field capacity through irrigation and then sealing over the desired soil area with 1 mil clear plastic tarp. Thicker tarp does not allow the soil to heat as highly as the 1 mil tarp, and black plastic is worse yet. The tarp must be well sealed on all edges, to prevent loss of moisture and heat.

Plans are to leave the tarp on for 4-6 weeks. Temperatures exceeding 130 degrees Fahrenheit were recorded under the tarp in early August.

Ron Lipshitz, who has done similar work with agricultural crops in Israel, directed the efforts at Magalia. Others participating included Bill Krelle and Bob Villegas of the Magalia Nursery, Keith Brownell of UC Berkeley, Darin Eastburn of the Department of Food and Agriculture and Dave Adams of CDF.

Only time can tell

by Robert Kutz



Fire Captain Sam Mendenhall

by Robert Kutz

Sam Mendenhall, fire captain with the Fresno-Kings Ranger Unit, represented CDF at the Seventh Annual California State Firemen's Olympic Track and Field Meet in San Mateo.

He came away from this year's meet with one silver and three gold medals.

Mendenhall swept the over-40 age group dashes, and barely missed his first gold medal as a hurdler. He currently holds the meet record in every sprint event, from the 50m to the 440 yard.

Nearly 2,000 firemen competed in the 20 divisions, 400 in track and field alone. Mendenhall has been competing in this event since 1976 and has won at least three gold medals every year since 1977 with the exception of 1980 when he was unable to participate. He did establish some kind of record of his own on October 4, 1980 when he put his ability to work to chase and catch an arsonist in Madera County.

Mendenhall stays in condition year around. This involves about 1800 miles of cross-country running and countless tons of iron hoisting.

This fire captain has already fooled Mother Nature, now only Father Time can tell the tale.

On the cover

This month's cover photo was submitted by Forester I Craig E. Anthony. The photo shows the new Super-Span at Jackson State Forest. The story is featured elsewhere in this issue.

Department of Forestry
Communique'

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Super-Span comes to Jackson State Forest

by Forester I Craig E. Anthony

Times are changing on Jackson Demonstration State Forest. It is with a touch of sadness that the demise of the old Highway 20 bridge, located 20 miles east of Fort Bragg, is witnessed. Its 18" hand-hewn beams are gone.

Time has also weakened a classic redwood log bridge located one mile upstream from the old highway bridge. As the 35-ton crane strained to remove the six old-growth logs spanning the 50-foot stream crossing, those present could only marvel at the engineering feat required to construct this log bridge so many years ago.

Both bridges demonstrated a principle for stream crossings that in recent years has become very important. They allowed the natural streambed to co-exist with a stream crossing. These streams find their way into the Big River estuary. As in all northern California rivers, the importance of water quality and fish passage is a high priority.

Time has claimed these existing bridges, but it cannot claim the concept of streambed protection. While the term "multi-plate arch" does not have the romantic ring of "hand-hewn beams," it does insure the continual protection of the natural streambed.

Masonite Corporation is replacing these bridges with multi-plate arches, commonly known as Super-Spans, trade name of Armco Incorporated. Replacement of these stream crossings is part of the two timber sales that were purchased by Masonite Corporation last year.

A Super-Span is made of prefabricated steel plates, each weighing between 350 and 450 pounds. When the plates are assembled they form an arch over the streambed. Each side of the arch is fastened to a cement footing that runs the length of the arch on both sides of the stream. This results in the spanning of the stream without the installation of an artificial streambed.

The watershed at the log bridge site empties 4,000 acres. This would have required the water passing capability of a round pipe 14 feet in diameter. Large full round and multi-plate structures have been constructed with river run rock placed in



the pipe to simulate a natural streambed, however, their costs approach or exceed that of a Super-Span. The existing road surface is only 13 feet above the streambed so a low profile Super-Span was selected. The arch height is 8 feet, with a width of 24 feet and a length of 62 feet. Five feet of fill was required at the center of the span.

The old highway bridge required an arch with an even larger water carrying capacity. The size of the watershed served by this arch is 4,500 acres. This calculates to a roll pipe equivalent of 15 feet in diameter. The road surface is 27 feet above the streambed and the engineers had to contend with a restricted stream width caused by rock

walls on both sides of the stream. The selected arch for this location was 12 feet high, 18 feet wide, and 100 feet long.

The Jackson Demonstration State Forest will have four Super-Spans when these two arches are completed this summer. These are the only known Super-Spans in Mendocino County. It is anticipated that the economical and ecological benefits of the arch will result in increased use in the coastal region.

A California Forestry Note is being prepared detailing the cost analysis and technical descriptions of the two Super-Spans installed on the State Forest this summer. It should be published in early 1982.

Hilbert "Mike" Michael

Memorial services were held August 6, 1981 in San Luis Obispo for retired forestry cook Hilbert "Mike" Michael who passed away Friday, July 31. Known as "Mike" throughout CDF, he retired in 1976 after 37 years of service.

In 1934 he was employed by the CCC and was later hired by CDF to work in the Santa Clara Ranger Unit where he served as both forest fire fighter and camp crew cook until he joined the United States Air Force in 1942.

Upon his discharge by the military in 1946, he was employed by the San Luis Obispo Ranger Unit where he remained until his retirement.

Hilbert Michael will be long remembered throughout CDF for his devotion to forestry and his kind words for everyone.

Anatomy of a murder

(Editor's Note: The following editorial appeared in the *Lake Elsinore Valley Tribune* on June 25, 1981. *Communiqué* thanks Associate Editor David A. Miller for allowing us to reprint his message.

In September 1979 we noted the large number of arson-caused fires in the local area. We suggested the community flex its muscles in an anti-arson campaign, become more alert to suspicious persons loitering in wildland areas, and create a local reward fund for information leading to the arrest and conviction of anyone involved in an arson-caused fire, whether it be structure or brush.

Response was not overwhelming! This newspaper received two checks, one for \$10 and the other for \$50.

As a publication interested in the apprehension of anyone deliberately setting a wildfire, we figured that if someone came forward with enough information to net a for-real arsonist, we'd come up with at least enough to make our little fund worth \$100.

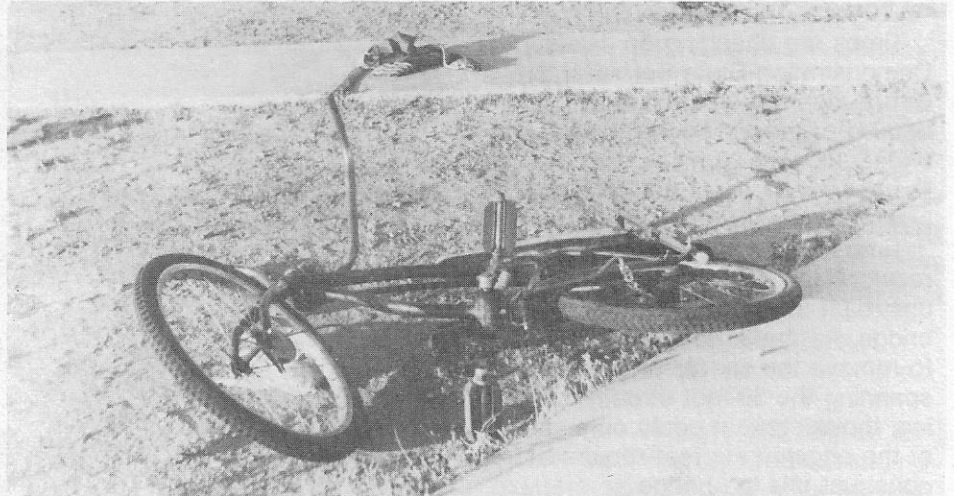
While the total of \$100 wasn't much in itself, the California Department of Forestry had a standing \$500 reward and "WeTIP" another \$500 reward for information leading to the arrest and conviction of those involved in arson fires.

The reward fund didn't go bankrupt, although we're quite sure some local residents knew who set the disastrous fires of 1979. But - as long as you're not directly affected, why get involved?

That was 1979 and James Scarlet Jr. of Murrieta was four. He turned five in 1980 and we succeeded in burning off even more acreage thanks to the fact that our arsonist neighbors waited until the Santa Ana winds arrived to insure more successful and larger fires.

Because we as a community continued to be so completely ignorant to what was going on, no one was arrested for any of the major 1980 brush fires in the local area.

James Jr. - "Jimbo" to his teacher and Murrieta School classmates - turned six this year, completed kindergarten, and looked forward to summertime fun before entering first grade in the fall. Time moved fast for James and we can only hope father and son got the most mileage out of those last days. Fortunately they didn't know that we as a com-



END of the trail cowboy

munity had signed the youngster's death warrant by a proxy based on the premise that we only have to become involved when problems reach our own doorsteps.

So what's a little arson problem when it's way up in the mountains. And so what if we do have some helpful information. We didn't know James Scarlet Jr. He wasn't OUR son!

On Monday, June 15, 1981, still another arsonist struck near Hayes and Guava Roads and flames raced unchecked through brush which in some spots hadn't burned since 1942. Monday night was fun city time in Murrieta. Most of the community and a large number of tourists turned out to watch a massive and successful firing out operation along the Ortega Mountain foothills.

It was just like the Fourth of July and everyone loved it. James Scarlet Jr. had two days to live.

The firing operation was highly successful in keeping the fire out of the main portion of the Murrieta Valley and by Wednesday morning, the last day for James, fire officials worried about only a half-mile stretch of open line. While true that 4660 acres had been blackened, the fire was 90 percent contained and injuries were limited to two minor hurts.

By 4 p.m. Wednesday, however, an air observer flying over the fire was warning ground units that problems were developing. At 4:15 p.m., a fire storm, burning along a one and one-quarter mile front, swept out of the Ortega Mountains toward Washington Street ranches and scattered dwellings in its path. One

of those was the mobile home where James Jr. lived with his father.

There could be absolutely no doubt in anybody's mind, wildfire was loose in Murrieta Valley.

We're told by some the fire moved through 1000 acres in 15 minutes; others contended it was closer to 1900 acres in 15 minutes. The column of smoke made Mt. St. Helens look like a molehill, for it reached thousands and thousands of feet into the air and was visible almost everywhere in Western Riverside County.

James Jr. had five minutes to live and while we feel those final minutes were mostly panic, they must have involved a great deal of love.

Within the one and a quarter mile fire storm a tornadic wind developed - similar to a dust devil but this time filled with flames, ash, dirt, and rocks. The tornado was probably 300 feet high.

James Sr. feared the large propane tank behind the mobile home would explode. He grabbed his son, and a friend, Ann Fesler grabbed her 14-month daughter Jessica. They tried to outrun destiny by attempting to reach a pickup truck and when that failed, all was lost....

Jessica was found 100 feet from the mobile home; the pickup truck was located 138 feet from the structure, and James Jr. was found 220 feet from the trailer, just short of the safety of a large dry wash. Several witnesses said that when James Sr. saw that he had no chance of mak-

(continued on page 11)

Children listen to Mrs. Figgy

taken from the *Sun*, San Bernardino



Lenore Figueredo, or Mrs. Figgy, uses Rosy, a boa, to illustrate her talk on fire safety.

When Mrs. Figgy talks, people listen.

For several years Lenore Figueredo - Mrs. Figgy - has been telling children in Yucaipa how to have a safe summer. She talks to them about fire safety, animals, and basic first aid. Her friend, Rosy, a 3-foot-long boa, helps keep her audience entertained.

Figueredo - "my name is difficult for children to remember, so they call me Mrs. Figgy" — is a paid-call firefighter - paramedic for CDF at the Crafton Hills Station, San Bernardino Ranger Unit and has been giving her safety lecture to Scout troops, YMCA day camps, and school groups for about 2-½ years.

She gives the lectures on her own time but because she wears her uniform the children keep looking around for Smokey the Bear.

"When I tell them Smokey couldn't be there but sent one of his forest friends instead, sometimes they run to the window to see," said Mrs. Figgy. "But Rosy is inside my shirt and crawls out during the lecture. At least, she is supposed to but when it's hot she comes out too soon and when it's cold, she doesn't like to come out at all."

During a recent visit to third graders, Mrs. Figgy and Rosy talked about basic first aid, and then went on to discuss fire safety. Most of the children knew Smokey's first rule: Don't play with matches.

Mrs. Figgy added a few more: If you find matches when you are out playing, given them to a Big Person. If you find matches at home, give them to your mother or father. And if they are not home, give them to a Big Person. If you see a fire, go tell a Big Person.

She goes on to explain to the children the importance of being careful when playing in the wild because plants can be damaged and die and animals have to have a place to live. She talks about what to do in case of snake bites, choking when swallowing, and other first aid measures before distributing litter bags imprinted with emergency phone numbers.

On use of the phone, she cautions, "Don't talk fast and stay on the phone because the person who answers is going to have to ask you questions."

Figueredo started giving the lectures as an outgrowth of her job as an instructional aide at Dunlap Ele-

mentary School, a job she had for four years. She took an emergency medical technician course at Crafton Hills College and then became a paid-call firefighter at CDF's Crafton Hills station about 2-½ years ago. She recently completed the paramedic course at Crafton Hills College.

At 5 feet, 110 pounds, Firefighter Figgy said she has had her share of speciality jobs, such as the day someone had to climb into a cement mixer to clean it out.

She makes about 15 speeches a year mostly to children in the second to fourth grades...Her youngest audience was a group of 4-year olds in a Head Start class.

"I give some basic first aid and fire safety information and tell them how to be careful and go for help," she said.



photo by Kent van Golder

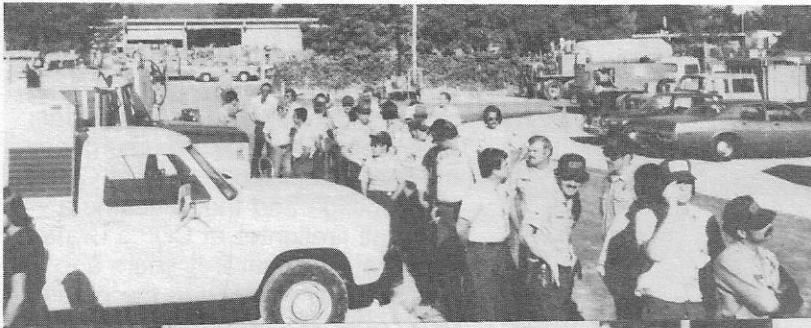
NOTICE - YE OLE BROWN BAG

Beginning Monday, August 24, 1981, a monthly Brown-Bag Luncheon will be held in Room 133 of the Resources Building at 1416 Ninth Street, Sacramento, from 11:30 a.m. to 1:00 p.m.

- Are you a forestry woman?
- Are you interested in issues related to your employment?
- Would you like to talk to other women with similar interests?

Then meet us on August 24, 1981 in Room 133 and bring:

Ye Ole Brown Bag



CDF battles the Medfly



by Don Perkins

The Department of Forestry was asked by the Governor's office to provide support for the Medfly project in the Santa Clara Valley from July 8 to the 16th. CDF operated out of the staging area located at the Caltrans maintenance yard in Cupertino.

Forty CDF personnel and fifteen spray rigs from all five regions were involved in the project. Each spray rig was accompanied by a Food and Agriculture employee who contacted the homeowner prior to spraying. Training was provided by Food and Agriculture prior to actually spraying. CDF crews sprayed approximately 1500 residential properties, both front and back yards. Less than fifty homeowners refused to have their property sprayed. The refusals were followed up later by the Department of Food and Agriculture.

Assistant Chief of Fire Protection Jim Dykes, Dave Mack, special projects coordinator, and Howard O'Brien, federal liaison officer, coordinated logistical support at the Sacramento level for all state resources that were committed to the project. This involved arranging for specialized safety equipment, transportation, lodging, feeding, and other supplies.

Dave Adams, Dick Hunt, and Don Perkins, all of the Resource Management Section coordinated CDF activities at Cupertino with the Department of Food and Agriculture and Caltrans. This effort involved making crew assignments, lodging arrangements, necessary repairs on equipment and a host of other logistical problems. Cooperation between

CDF, Food and Agriculture and Caltrans was excellent.

Robert Woods, Program Executive assigned out of the Resources Agency to CDF's Program Analysis, Information and Legislation Section for six months, was also involved. He assisted Project Director Jerry Scribner as an administrative assistant and information officer at the Los Gatos Headquarters. The Emergency Command Center maintained communication with CDF personnel

committed to the project and coordinated relief of crews with each of the Region Offices...

The following safety clothing was provided: knee-hi rubber boots, plastic disposable jumpsuit, rubber gloves, hardhat with faceshield and breathing apparatus if desired.

The CDF crews did a fine job and performed in a very professional manner. The safety record was excellent with no injuries or accidents being reported.

CDF welcomes Millar



Dick Millar, USFS retired, is welcomed to CDF with a patch and seal. Making the presentation is Wendy Potter, planning analyst in the Fire Protection Section, while A. Harrison of Cooperative Fire Protection, Washington Office, looks on.

Dick Millar, retired Chief of Aviation and Fire Management for USFS Region 5, is now the proud owner of a new patch — a CDF patch. CDF had hired Dick as a consultant to assist in a special study.

Entitled, "Economics of Fire Protection on Non-Federal Rural Lands," the study is being done at the request of the USFS's Cooperative Fire Protection. Jerry Letson, chief of Fire Protection, has responsibility for overseeing the study, and Wendy Potter is heading up the effort for CDF. Potter and Millar attended training given by Ames Harrison and others in Washington, D.C.

While the study has many possibilities for use in CDF's budget process in the years to come, for the present the primary concern is

justifying continued Cooperative Forestry Assistance Act (CFAA) funding to the states. CFAA, the successor to the Clarke-McNary program, has been cut to zero for two years in a row in the President's budget. While Congress has restored the funds under political pressure in the past, in today's budget atmosphere it will take sophisticated economic analysis to protect this program's future.

The study is a benefit-cost analysis using a cost-plus-net value change approach. San Diego and Mariposa-Madera are among the Ranger Units which have been assisting the Potter-Millar team in collecting extensive data on all parts of their fire protection efforts.

Care to Run? Swim? Cycle?



That's one hardy group

by Jeff Malmin

On Saturday, July 25th, fifty-one "superbly-trained" athletes participated in the Second Annual San Mateo-Santa Cruz Triathlon Endurance Classic.

The field was broken down into three divisions: Open, Forestry, and Team. The course consisted of swimming $\frac{5}{8}$ of a mile, cycling 22 miles, and ended up with a ten kilometer run on the beach.

This was the first year that the event was open to the public and the public accepted the challenge. Eleven Forestry personnel were also in the fray. There were twenty individuals and eleven teams competing.

Civilian Alex Peabody took top honors for completing the circuit in 2 hours and 9 minutes. The second place individual, Marty Kruger, also a

civilian, finished only 20 seconds behind Peabody. The top forestry finisher was 5th place Rick Sagan with a time of 2 hours and 30 minutes. The second place forestry employee was Chris Hess who took 8th place overall and 2nd place, female.

A lot of excitement was generated by the team aspect of the competition. The teams, consisting of specialized performers, turned in the top three times of the day. Civilians John Williams, Hugh Forrest, and Pat Shartle put together the winning time of 1 hour and 59 minutes, a world record for the new improved Triathlon route.

The best forestry team mustered 5th place as swimmer Ray Imel, bicyclist Frank Ward, and runner Francisco Perez churned, turned, and burned their way to the finish line in 2 hours and 16 minutes.

Other forestry participants included 8th place team members Gregg Goodman, Craig Forsythe, and Mike King, and 10th place team members Jeff Malmin, Ken Gilbert, and Kathleen Kronander.

Once again, the Triathlon was a resounding success. Next year's Triathlon will be held the first Saturday of August. The San Mateo-Santa Cruz Ranger Unit would like to get some ranger unit competition going. Any takers?

photo by Judy Malmin

Victory for CDF!

by Bill Morrison

On August 9th, the Amador County Fair held an invitational loggers show. One of the events was a relay race consisting of ax-throwing, pole climbing choker setting, bucking logs, and carrying a log around the arena.

Three teams competed in this particular event: American Forest Products, Phillips Timber Fallers from Pioneer, CA, and the California Department of Forestry - Gary Brittnner, Bill Morrison and Nancy Jurisich from Headquarters. Larry Lippert, Larry Lathrop, and Steve Iverson of Region IV were on fire mission, so Don Rojo, Walt Smith and Terry Northcutt were recruited hastily.

Cheering and applause roared through the grandstands as the first two teams competed in this last event of the day (American Forest

Products, Phillips Timber). When the CDF team emerged from the shadows to take its place in the arena, silence settled on the crowd, and quiet remarks such as "Here come the pencil pushers" were heard.

As CDF bolted in lightning-fast quickness through each segment; grunts, groans, and screams of encouragement came from each member of the team.

As the log runner crossed the finish line, the teams looked toward the timekeeper/announcer in anticipation and heard "Well, the 1981 relay champions are - the California Department of Forestry."

VICTORY FOR CDF!!!!

The team received a trophy which is on display in the Wood Energy Section of the 13th floor.

GOOD GUYS VS. BAD GUYS

Headquarters will play their fourth annual 15th floor (Good Guys) versus 16th floor (Bad Guys) baseball game, Friday night September 4, at Land Park in Sacramento.

So far the Good Guys have finished last. But the word is out: the Golden Throne Award will sit on the 15th floor this year! All are invited to come out to cheer us on.

VIP Activation - Riverside County June 15-19, 1981

On Monday, June 15, 1981, a major vegetation fire broke out in Riverside County and by Wednesday, six major fires had developed; more than 29,000 acres and 32 structures had been destroyed; 13 civilians and fire fighters had received critical burns; and there were two fatalities. Approximately 1,500 fire fighting personnel including 285 engine companies and 51 hand crews; 25 dozers; seven aircraft; and three helicopters were all deployed and in operation.

The Emergency Command Center (ECC) in the Riverside Ranger Unit at Perris is the communications and dispatch center for the 33 CDF fire stations in the western part of the county. During a major emergency, the center controls and dispatches hundreds of fire engines, rescue squads, aircraft, and strike teams not only from CDF, but the USFS, Office of Emergency Services, other

counties and even units which may be called in from out of California. The communication problems, involving simultaneous tactical, strategic, and logistics traffic are formidable. CDF radio, telephone, and microwave links at the ECC were severely overloaded for extended periods of time.

But the Volunteers In Prevention (VIP) program for CDF had been initiated last year to provide amateur radio support for such a contingency. Some of the program members had already gained experience in 1980 during the Southern California fire and flood cycle.

The VIP amateur control station with multiple equipment was located inside the ECC. It identified as "Perris ECC" plus the call sign of the duty operator every ten minutes and at the beginning and end of contacts. Mobile amateur units identified

with their call signs, while operators at base camps or aboard CDF vehicles identified with both amateur call and the CDF radio designator. Critical communications were carried out as third party traffic, allowing CDF officers to talk to each other directly over the amateur links.

For five days and four nights in temperatures exceeding 105 degrees, some 60 amateur radio operators provided communications support to the Riverside Ranger Unit.

During this emergency period, all amateur communications were conducted on VHF-FM, primarily on N6BAE/R and WB6FUE/R. Cooperation from non-participating hams was excellent. But what was heard on the air during these five days and four nights was only a small part of what was going on. Let me sketch just a few incidents.

There was the ham aboard a CDF vehicle, who suddenly found himself sitting at his radio 10 feet from the fireline, while his fire personnel were trying to stop the flames.

There were the two radio amateurs dispatched to a rugged mountain top in an attempt to serve as a relay link to hand-held CDF radios on the firelines behind the mountain - until the flames moved towards the top and they were advised to leave - fast!

After some fifty hours of operation, many of the participating amateurs were as fatigued as the CDF personnel. On Thursday, CDF requested the Riverside County Office of Disaster Preparedness to formally activate the Radio Amateur Civil Emergency Service (RACES) to provide additional amateurs to the VIP operation.

Through the QST emergency code and telephone calls - whenever there was an open line - we were able to obtain sufficient volunteers to provide the needed relief operators, including amateurs from nearby counties. Even those Amateur Emergency Radio Service (ARES) and RACES members with little prior experience in extended major fire suppression operations, learned very fast and provided the much needed help.

by Gerhard F. Schilling
VIP - Riverside Ranger Unit

Governor Brown praises 8-year old

Governor Edmund G. Brown Jr. has presented a special Certificate of Honor to eight-year-old Forrest Garrison for saving the lives of his family when their Amador County home was destroyed by fire on Friday, July 31, 1981.

"I commend you for your prompt and courageous action in leading your family to safety" the Governor told Forrest.

When Forrest woke up about 2:30 that morning he could hear someone banging on his front door. Smoke filled his nostrils and he knew the house was on fire.

The youngster scrambled out of bed, keeping close to the floor where good air still circulated. He tried to make his way to the front door where an unidentified passer-by was banging to warn the family, but the smoke was too thick.

Forrest crawled to the back of the house where his mother was still asleep with her month-old baby. He woke his mother warning her to keep low to avoid inhaling the smoke. Making their way along the floor they escaped from the smoke-

filled house and within 15 minutes the home was destroyed.

When asked how he knew what to do, Forrest said, "Smokey the Bear came to my classroom and told us."

Forrest was a first-grader at Pine Grove Christian School in May when a group of California Department of Forestry (CDF) team teachers and Smokey conducted a fire safety class. This classroom team teaching is part of the CDF's Volunteers In Prevention (VIP) Program.

CDF Fire Prevention Assistant Sharon Torrence and the VIP's provide fire safety teaching to all the schools in Amador County. The emphasis is on not playing with matches, but the children also learn what to do in case of fire.

Forrest apparently remembered everything the VIP team and Smokey told the class — keep close to the floor to avoid breathing smoke, close doors to contain the fire and get out of the house.

"You always wonder how much they remember," Torrence said. "His mother said Forrest was in complete control all through the escape."

Taglio named "Fireman of the year"



Ranger I James H. Taglio

The Mendocino County Fireman's Association has named State Forest Ranger I James H. Taglio "Fireman of the Year." Ranger Taglio received the award for saving the life of a helicopter pilot who crashed last August while fighting a fire in Redwood Valley.

At 1552 hours, August 6, 1980, helicopter pilot Jonathan Long was making water drops in support of the helitack crew and others when the ship experienced rear rotor failure

and spun hard into the ground. The ship suffered major damage on impact and sheared off all three rotor blades. After the impact the engine continued to run wild building up RPMs.

Fire Boss Taglio was near the crash scene and rushed to the pilot's aid. By the time he arrived at the crash scene, the helicopter engine was screaming out of control and on the verge of exploding.

Without any regard for his own

safety, Taglio entered the helicopter and found that the badly injured pilot was still conscious. The helicopter had crashed so hard that the pilot's seat had collapsed and the pilot was unable to reach the emergency shut down controls. With instructions from the pilot, Taglio lifted the injured man from the craft and was able to reach the controls and shut the engine down.

It was later determined that if the helicopter engine had continued to run wild, it would have exploded, rupturing the fuel tanks and probably killing anyone within a 50-yard radius.

Pilot Long suffered three fractured vertebrae and elbow injuries. He is now completely recovered and is flying test helicopters for Hughes Aircraft.

Be special - help someone special

With more than \$34,000 already contributed to the Sacramento Area's Special Olympics Program, state employees are gearing up for the third annual BE SPECIAL, HELP SOMEONE SPECIAL Benefit Walk/Run, to be at California State University, on Saturday October 3.

According to chairman Charles Willard, a group of Parks and Recreation employees organized the project two years ago to raise funds for year-round recreational programs for the physically and mentally disabled.

In 1980 over 550 joggers, walkers, and runners took part and Willard plans for greater participation this year. He noted that 1981 is the "Year of the Disabled" and this event offers a splendid opportunity to improve your own health and fitness while contributing to recreational opportunities for the disabled.

The walk-run will begin at 8 a.m. and extend over a three-mile loop course which can be repeated for longer distances. Competitors will be asked to seek pledge donations.

For further information, contact Bill Weaver at (916) 445-0217, ATSS 485-0217.

Progress - Women's Committee

The Women's Advisory Committee met at Sacramento on July 23, 1981. New members, Associate Programmer Analyst, Aileen Fell of Sacramento; Steno B, Kimberly Peterson, Region I; Data Processing Manager I, Linda Sanford, Sacramento; and Fire Apparatus Engineer, Karl Schneider of the Nevada-Yuba-Placer Ranger Unit were all welcomed.

Also attending were the State Personnel Board Statewide Women's Program Officer Lori Hara; Assistant to the Director Susie Lange; Women's Program Coordinator Ollie Milligan; Affirmative Action Officer

Manuel Román; and Associate Management Analyst Faith Sorenson of the CDF Training Office.

Aileen Fell and Linda Sanford presented a draft analysis of the Women's Needs Assessment Survey and reported on some of the preliminary findings of that survey. The committee then discussed various means by which progress can be made in problem areas.

Faith Sorenson explained the process used in the requesting and granting of training, and the possibility of expanding the current CDF training program with greater emphasis on upward mobility training.

Arson rewards at \$16,000

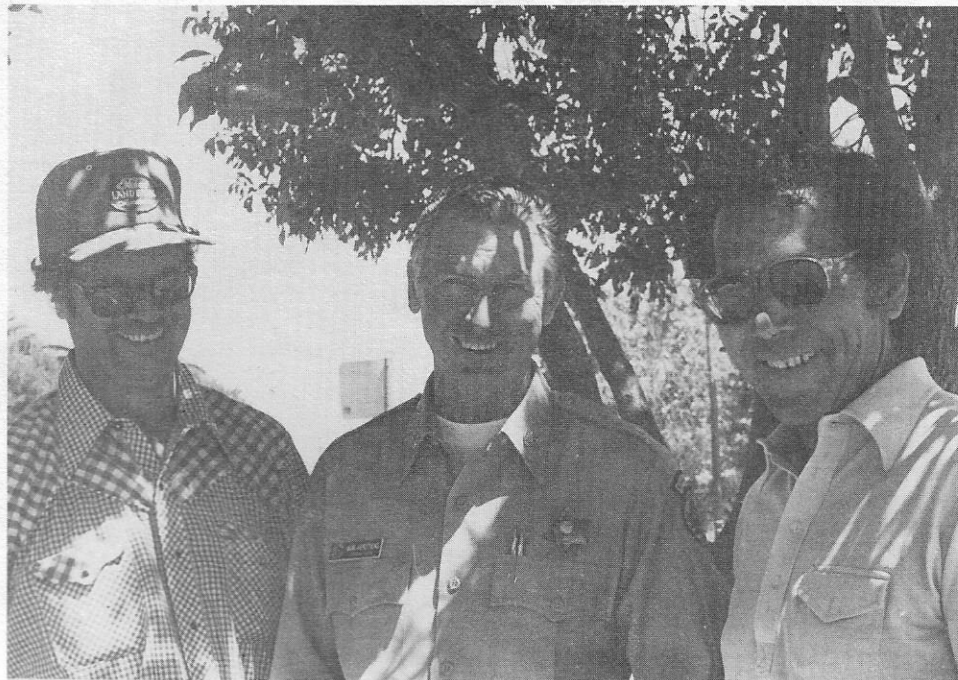
Rewards up to \$16,000 are waiting for Tehama County citizens who may have information leading to the arrests and conviction of arsonists.

Ranger-in-charge Bob Kersteins of the Tehama Glenn Ranger Unit said the Northern California Fire Coop is offering a maximum \$5,000 reward for information about arson fires on or threatening their commercial timberlands in Tehama, Modoc, Siskiyou, Shasta, Lassen, and Plumas Counties. The co-op comprises nine timberland owners with more than one million acres of commercial timberland in these counties.

The United States Forest Service has increased its reward payment to \$5,000 for information about arson fires on or threatening national forest lands, and CDF has increased its reward payment to \$5,000 on state responsibility lands.

Now the Tehama County Cattlemen's Association and the Tehama County Chapter of Keep California Green are each offering a maximum reward of \$500 for information on arson fires in the unincorporated areas of Tehama County.

"The land is worth dollars," said



Pat Jenkins, Tehama County Cattlemen's Association; Ranger-in-charge Bob Kersteins, Tehama-Glenn Ranger Unit; and Ray Crane of the Keep California Green, Tehama County chapter, happily announce increased reward money for information leading to county arsonists. Crane is a past member of the Board of Forestry.

Cattlemen's president Pat Jenkins. "Most of the grass consumed in the latest arson fires is on range-type watershed land.

Kersteins noted that in the period of July 19 to 21, 1981, a total of 36 fires in the county were arson-caused.

Anatomy of a murder

(from page 4)

ing it to safety, he used all of his remaining strength to toss the small boy into the dry wash, but the final all-out effort failed.

Engineer John Vipond of the Juni-plats fire engine, one of two assigned to protect Scarlet's mobile home was burned, bleeding, and worried about a Perris fire engine he was sure had been wiped out, but was still fighting fire with all he had left in him.

Vipond recalls, "We were so busy trying to save their home and our two fire engines no one saw them take off from the mobile home and try to run to safety." Through the determination of state and county firemen, the mobile home wasn't scorched, the propane tank didn't explode and the only visible damage was to the rear awning and siding material that was ripped from the structure by the tornadic wind.

"The mother of the girl came up from the hill behind us crying that

the wind had jerked the girl from her arms," said Vipond. As Vipond started toward Jessica, James Scarlet Sr. came up the hill saying, "Help me, I'm on fire." Scarlet wasn't on fire but was badly burned. He told Vipond, "My son is gone; the wind took my boy away."

Vipond found the boy. "All of his clothing was burned off except for his little cowboy boots which were still burning. I got a canteen of water and the resuscitator from our engine. I put the fire out with the canteen water, then began using the suction on the resuscitator to give the kid a chance."

By Thursday, only memories existed on the small hill overlooking Washington Street.

The wind still blew at an official 27 mph; the humidity was still a very low 15 percent; trees on Scarlet's property were "frozen" (carbonized), and while not burned, disintegrated in your hand when touched. The thermometer on the front porch was stuck at 700 degrees.

A fire investigator who inspected the scene said he felt the temperature inside the whirlwind was 1200 degrees as it passed over and confided that he seriously doubted anyone would ever know what really happened in those few final moments of life for James Scarlet Jr.

A boy's bicycle which would never again be ridden lay next to the mobile home and an infant's shoe was found further down the hill. All was quiet at the small mobile home on the hill overlooking Washington Street.

Someday the hills will again turn green, small children - maybe even Jessica - will laugh and play, but it's doubtful some will ever forget those final, fatal five minutes Wednesday, June 17, 1981.

When all the ceremonial doings, memorials, and other functions are forgotten, somebody will, we hope serve up the arsonist-murderer to the proper authorities, not for the money, but in a lasting and fitting tribute to James Scarlet Jr.

PERSONNEL TRANSACTIONS

NORTH COAST REGION

Promotions - Raymond E. Jackman to Asst. Dep. St. For., Hq.; Ashley W. Dunham to SFR II, Humboldt; Russell A. Brown to SFR I and Brian D. Kornegay to FC, Mendocino.

Appointments - Michael P. Foley and Gregory K. Guyan to LT FC, Lake-Napa; Brian D. Kornegay to LT FC, Mendocino; Diana J. Frediani to TAU OA II(T), Mendocino; Rebecca L. Johnson to Stock Clk., Lake-Napa; John P. Knight to FCS, Eel River CC; and Linda M. Cinkel to TAU OA II(T), Humboldt.

Retirement - FC Eddie R. Hogg, Humboldt.

Training & Development - SFR II Clifford B. Chapman to Del Norte FC; and Anthony R. Gomez to LT FAE, Humboldt.

25-Year Award - FC's Alan L. Trood, Edwin F. Shideler; and SFR I Gary A. Craig.

CENTRAL COAST REGION

Transfers - FAE Russell Rogers to San Benito-Monterey; Acct. I Supv. Vince Mancarella to Hq.; and Ofc. Tech. Sharon Taylor to San Benito-Monterey.

Promotions - Richard Lopez to FC, San Luis Obispo; R. Frank Kemper to FC, San Mateo-Santa Cruz; and David Gowan to FAE, San Luis Obispo.

Appointments - Robert Robinson to FC Spec., San Luis Obispo; Henry Agundez and Bradley Myhand to HFEO.

SIERRA CASCADE REGION

Transfers - SFR I Clarence R. Weckman to Nevada-Yuba-Placer; FC Case Buttermann to Lassen-Modoc; and FCS Alfred D. Hayes to Deadwood CC.

Promotions - Robert L. Funchess to SFR I, Shasta-Trinity; and Frederick E. Middleton to FC, Butte.

Appointment - Gilbert N. Arellano to M&SS I, Tehama-Glenn.

Reinstatements - Robert Jones to FAE, Siskiyou; and Timothy J. Sappok to SFR I, Nevada-Yuba-Placer.

Separation - FC James F. Wilson, Butte.

Retirement - FC William L. Clark, Lassen-Modoc.

SOUTH SIERRA REGION

Transfers - FF CDF James Roller to Fresno-Kings.

Promotions - Roy Killion to SFR IV, Tulare; Dennis Tremelling to FC, Madera-Mariposa; Keven O'Meara and David Fator to LT FC, Tuolumne-Calaveras; William Bratton to LT FC, Amador-El Dorado; James Roller and Felipe Gomez to LT FAE, Fresno-Kings; and Ricky Gible to LT FAE, Tulare.

Training & Development - Richard Borboa to HFEO, Madera-Mariposa.

Retirement - FCS Royce Favre, Pine Grove YCC.

SACRAMENTO HEADQUARTERS

Transfer - SFR III Raymond Skeels to Fresno Hq.; Assoc. Pers. Anal. Sharon Chan to Pers. Ofc.

Promotions - Audley Davidson to Asst. Chief; Gerald Ahlstrom to For. III, Forrester's Licensing; Sylvia Ramos to SSA.

Appointments - Barbara Nixon to Steno.(B); Betty A. Hunter to Sec.; and Karen Manners to WP Tech.; Maria Jauregui to SSA; Diana McCord to Assoc. Budget Anal.; New Proj. Consult. Kenneth Mayer.

Separations - Programmer Dave Brusseau; Ofc. Tech. (T) Laura Vidal; Sec. Kristen Skeels; and OA II(T) Jacquelyn Willis.

EXAMINATION CALENDAR

UPCOMING EXAMINATIONS

Title	Filing Date	Exam Date
Office Technician (General)	September 10	October
Office Technician (Typing)	September 10	October
Office Services Supervisor (General)	September 10	October
Office Services Supv. I (Typing)	September 10	October
Office Services Supv. I (Filing)	September 10	October
Senior Stenographer	September 10	October
Senior Account Clerk	September 10	October
Secretary	September 10	October
Accounting Officer (Spec.)	September 17	November
Accounting Officer (Supv.)	September 17	November
Accountant I (Spec.)	October 1	November
Accountant I (Supv.)	October 1	November
State Forest Ranger I	October 15	November
Senior Accounting Officer (Spec.)	October 29	December
Senior Accounting Officer (Supv.)	October 29	December

Do **NOT** submit applications for examinations until the bulletin has been released. Use Form 678 (1-77) printed in **GREEN** ink.

SOUTHERN CALIFORNIA REGION

Transfers - SFR I John Allan to San Bernardino; HFEO Clark Somers to Hq.

Promotions - Philip Kerr to SFR I, Riverside; Michael Mikitka, David Petrionovich, Michael Vasques, Ronald Moran, Evelyn Armenta, Raymond Paiz, and David Parks, Jr., all to FAE, Riverside; Patrick Colleary, John Gruber, Holly Mosz and Ronald Hernandez, all to LT FAE, San Diego; Rudy Yniguez to LT FAE, San Bernardino; Derek Smethurst, Leroy Tofson and Michael Marlow to FAE, San Bernardino; James M. Wright, Michael Schnarr, Samuel S. Ortiz, Wayne W. Murray, Robert Cox, Randolph Wilson, and Olga Vogt, all to FC, Riverside; Paul K. Alvarez to FF CDF, San Diego; William K. Smith and Teodora A. Mendoza to FC, San Diego; Daniel Bahr to FCS, Morena CC.

Appointments - Carol Bonkowski to Steno., San Bernardino; Marilyn J. Martin to OA II(T), Fenner CC; Joan E. Trujillo to OA II(T), Riverside; Starlett