

144 N Mt View Avenue
San Bernardino, CA 92408

REPLY TO: ~~6530 Collection~~

2520 EMBURN REHAB - Arrowhead Fire - San Bernardino 2/24/78

SUBJECT: Campus Crusade (Arrowhead Fire)

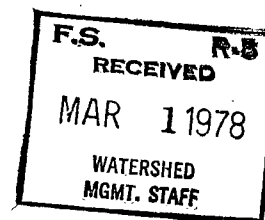


TO: Regional Forester
Attention: Colleen Lew

Summarized below is information on rehabilitation work done on the Arrowhead burn. You stated that this was to be added to the collection on an amended Complaint. Copies of referenced documents are enclosed.

1. \$8,881.00 Replanting Arrowhead Landmark
Original planned cost on PWP 27-2 was \$9,410.00 but was reduced to actual project cost.
2. \$2,274.00 Improve Trail drainage on Arrowhead Landmark Trail.
Original planned cost was \$2,510.00.
3. Memorandum 2510 dated October 13, 1976 to Regional Forester summarizes accomplishment on Items #1 & #2.
4. Memorandum 2510 dated September 19, 1975 to Chief from Deputy Regional Forester.
5. As per your inquiry of \$2,919 as an expenditure, we are unable to identify it.


M.F. OGNISTY
Administrative Officer



UNITED STATES DEPARTMENT OF AGRICULTURE
FOREST SERVICE
SBNF

REPLY TO: 2510 Watershed Survey and Plans

October 13, 1976

SUBJECT: Watershed Restoration - Arrowhead Burn



TO: Regional Forester

The following information is the accomplishment for the restoration of the Arrowhead Burn area:

1. Drainage facilities were installed on the Arrowhead Peak Trail, 4W13, to handle the increased runoff from the Arrowhead fire. The trail tread was restored where it had been damaged. The Arrowhead Landmark, a California Historical Landmark, was restored by planting native shrubs to stop erosion. A 96-inch diameter culvert was installed on Forest Development Road 1N24 near the point of origin of the fire.
2. Trail restoration cost \$2274, the landmark restoration cost \$8,881, and the culvert replacement cost \$35,205.
3. There are no remaining unobligated balances of Federal emergency funds.
4. On-going programs of the Forest Service were utilized to meet the emergency. Preliminary and construction engineering was provided from regular FR&T financing, as well as additional construction cost (above that estimated originally). This amounted to \$2919. Additional heavy trail maintenance will be required in 1977 and 1978 until the burn stabilizes. This will be provided for with FR&T maintenance funds and will be approximately \$1500 per year more than normal.
5. The California Division of Forestry Pilot Rock Inmate Crew was used to grow and plant seedlings of Descanso Rock Rose plants purchased by the Forest Service. In addition, the Pilot Rock crew grew and planted seeds of native shrubs (white sage, creeping sage and gum rock rose) that were collected by the Forest Service. Campus Crusade for Christ International provided \$5119 for the cost of the culvert replacement and has been billed for an additional \$1592 to cover their share of engineering expenses and additional construction costs.

It is interesting to note that when the Forest was hit by tropical storm Kathleen in September, the 96" diameter culvert ran nearly full. Because of the increased runoff from the fire, including debris and many dislodged boulders, the original 48" diameter culvert would have plugged and the embankment would surely have washed out.

CHARLES W. HAMILTON
Forest Resource Officer

cc: District Ranger, Cajon
Calvert-Proj. File 1N24

MFlorey:dml

UNITED STATES DEPARTMENT OF AGRICULTURE
FOREST SERVICE

OFFICIAL GOVERNMENT COPY

Cajon R.D.

REPLY TO: 2510 Watershed Survey and Plans
6510 Appropriations and Funds

August 27, 1976

SUBJECT: Watershed Restoration - Arrowhead Burn



TO: Forest Supervisor
Attn: Nelson Dean

The watershed accomplishment report as requested by Nelson Dean's memo dated 8/24/76 is as follows:

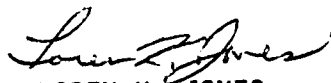
Rehab work consisted of planting native shrubs on the Landmark and improving trail drainage. Sixty man days of work was done to the trail tread by force account labor in March and April 1976. Trail tread was re-established and widened. The trail will receive more heavy maintenance in FY 1977 and 1978 and hopefully at that time the trail will have stabilized.

Five thousand Descanso Rock Rose plants were purchased from the Antelope Nursery in Lancaster and the Pilot Rock, California Division of Forestry crew planted these in February and March 1976. Seeds from native shrubs white sage, creeping sage and gum rock rose were collected by Forest Service crews and were transported to Pilot Rock. The Forest Service also bought materials to construct plant flats and tubs so the Pilot Rock crew could grow the plants and plant them at the Landmark.

To date the plants are being germinated. Higher priorities at Pilot Rock prohibited their completion of planting. This will be done this fall. Forest Service participation in the project is complete.

Natural vegetation is becoming established in the area and survival of planted Descanso Rock Rose was not highly successful.

A copy of completed project work plans 27-2 and 46-2 are attached.


LOREN K. JONES
Resource Officer

Attach.

2. MANPOWER (List by Name)		DAYS	DAILY RATE	TOTAL FINANCED	CONTRIBUTED	53-22 Jon	
PROJECT LEADER OR FOREMAN						PROJECT NO.	FISCAL YEAR
Forester	GS 9	10	67.84	678.00		27-2	76
For. Techn.	GS 7	9	61.12	550.00		PROJECT NAME, LOCATION & DESCRIPTION Arrowhead Landmark Resotation - S.I., T.IN; R.4W; S.B.B.&M. Replant the burned portion of the Arrowhead with White Sage, Gum Rock Rose, Descanso Rock Rose and Creeing Sage to restore it to condition it was before the burn. Planting to be done during Feb. & March 1976 (7.6 Acres)	
For. Techn.	GS 5	7	41.20	288.00			
For. Techn.	GS 5	7	41.20	288.00			
For. Techn. Crew (10 men)	GS 3	7	357.00	2499.00			
For. Techn. Crew (10 men)		7	357.00	2499.00			
Pilot Rock CDF Crew		8	535.00		4280		
PER DIEM, TRAVEL AND MEALS							
EQUIPMENT (F.S. and Rental)	MONTHS F.O.R.	HOURS OR MILES	F.O.R. OR USER RATE			Collect the necessary seeds for growing potted stock for the planting. Potted stock to be started by Nov. 1975.	
6329		150	.45	68.00			
3242		170	.10	17.00			
CDF Bus					75.00		
						BEGIN WORK	COMPLETE WORK
						Aug. 20, 1975	March 30, 1976
						SPECIAL SKILLS NEEDED	DAYS WHEN
MATERIALS AND SUPPLIES		QUANTITY TO BUY	ON HAND	UNIT PRICE			
Seed - Collect							
Planting Tubes		-0-	32 M	.015	490.00	4. PROPOSED BY <i>Thomas E. Mayall</i> DATE 9-5-75	
Planting Shovels		20	-0-	7.50	150.00	STAFF REVIEW BY	
G.A. & Overhead					1354 2171.00	APPROVED BY <i>Arthur R. Langer</i> 10/14/75 Acting F.S.	
TOTAL PLANNED COST		FINANCED + CONTRIBUTED		8,881 \$9410.00	4355	FUNDS ALLOCATED BY	
		\$13,765.00					

3. FINANCE AND ACCOUNTING DATA						5. ACCOMPLISHMENT RECORD		DATE	INITIAL
APPROPRIATION	STAT CODE	ACCOUNT OR ACTIVITY	FUNCTION MAJOR SUB	SUB-UNIT	DOLLARS PLANNED AND ALLOCATED				
602			094	01	53	8,881 \$9410.00	100% Forest Service	3/1/76	22
						25% complete contractor			
						labor (CDF Pilot Rock Crew)	3/1/76	79	
TOTAL ALLOCATED						8,881 \$9410.00			

PROJECT NO.	FISCAL YEAR
46-242-1	76
PROJECT NAME, LOCATION & DESCRIPTION	
Arrowhead Landmark Trail- Sec. 1, T.1N., R.4W., S8B&N	

Improve trail drainage to accomodate additional surface runoff.

1390-4 (1/73)

September 19, 1975

Enclosure (There was no
enclosure - 12/1/71)

