

BURNED AREA REPORT
(Reference FSH 2509.13, Report FS-2500-A)

PART I - TYPE OF REQUEST

1. Type of Report

- ☐ A. Funding (Request for estimated FFF funds)
☒ B. Accomplishment Report

2. Type of Action

- ☐ A. Initial (estimated funding is first requested)
☐ B. Interim

- ☐ Updating the initial funding request.
☐ Supplying information for accomplishments to date
on emergency work underway.

☒ C. Final

- ☐ Best estimate for funds needed to complete eligible
rehabilitation measure.
☒ Following completion of funded work.

PART II - FIRE LOCATION

1. Fire Name (from Form FS-5100-29): ST. CLAIR
2. Forest Supervisor's Fire No. (from Form FS-5100-29): 03/12/01/59
3. State: Arizona
4. County: Maricopa
5. Region: Southwestern-03
6. Forest: Tonto-12
7. Ranger District: Cave Creek-01
8. Date Fire Started: 06/21/91
9. Date Fire Controlled: 06/23/91
10. Estimated Suppression Costs: \$ 150,000
11. Fire Suppression Damages Repaired with FFF 102 Funds:

1 miles (firelines waterbarred)
 acres (firelines seeded)
 Other (identify) (Blocked Access)

12. Fire Intensity: 20 % (low) 25 % (medium) 55 % (high)

PART III - NATIONAL FOREST SYSTEM PROBLEM INVENTORY

1. Watershed No.: 15060203196
2. NFS Acres Burned: 1100
3. Water Repellant Soil: 10 % of NFS acres burned

4. Vegetation Types: Sonoran Desert Shrub
5. Geologic Types: Granite
6. Soil Erosion Hazard Rating:

40 % (low) 40 % (medium) 20 % (high)

7. Erosion Potential: 2800 cu. yds/sq. mile
8. Miles of Stream Channels by Regional Order or Classes: 1st Order: 4.3 miles
9. Miles of Forest Service Trails: 0
10. Miles of Forest Service Roads by Maintenance Levels:

0.9 miles (Level I) 3.3 miles (Level II)
2.3 miles (Levels III, IV, V)

PART IV - CALCULATED RISK AND CLIMATIC EVALUATION

1. Estimated Vegetative Recovery Period: 8 years.
2. Chance of Success Desired by Management: 70 percent.
3. Equivalent Design Recurrence Period: 25 years
4. Related Design Storm Duration: 24 hours.
5. Related Design Storm Magnitude: 3.8 inches.
6. Related Design Flow 1540 cfs.
7. Estimated Reduction in Infiltration: 20 percent.
8. Adjusted Related Design Flow: 1930 cfs.

PART V - SUMMARY OF SURVEY AND ANALYSIS

1. Skills Represented on Burned Area Survey Team ("x" appropriate boxes):

☒ Hydrology ☒ Soils ☐ Geology ☒ Range
☐ Timber ☒ Wildlife ☒ Fire Mgmt. ☐ Engineering
☐ Contracting ☒ Local Mgmt. ☐ Research ☐ Other (Archeologist)

2. Describe the Emergency: The vegetative ground cover has been reduced from approximately 20% to less than 5% over 80% of the burned area. The burn is located between two heavily used county highways. ORV use is already heavy in the area and is expected to increase as a result of the fire. The increased surface runoff and erosion resulting from ORV use of the burn area will cause unacceptable levels of soil loss.

3. Emergency Rehabilitation Objective:

Drain and close existing ORV routes. Protect vegetative recovery by administratively closing the area to vehicular traffic.

4. Probability of Completing Treatment Prior to First Major Damage Producing Storm:

Land 80 % Channel % Roads 80 % Other %

5. Net Environmental Quality Benefit Index:

☒ Significant ☐ Not Significant

6. Net Social Well Being Benefit Index:

☐ Significant ☒ Not Significant

7. Benefit/Cost Ratio: 0.8:1

8. Net Benefits: \$ (1,860)

9. Cost Effectiveness Index: ☐ I. ☒ II. ☐ III. ☐ IV.

PART VI - ELIGIBLE EMERGENCY REHABILITATION MEASURES OR TREATMENTS
AND SOURCE OF FUNDS

NOTE: Emergency rehabilitation is work done promptly following a wildfire and is not to solve watershed problems that existed prior to the wildfire.

Line Items	NFS Lands					Other Lands			All Lands
	Units	Unit	No. of	FFP 092	Other \$	No. of	Federal \$	Non-Federal	Total
		Cost	Units	\$		Units		\$	\$
(1)	(2)	(3)	(4)	(5)	ident.	(7)	ident.	identify	(9)
A. LAND									
a. Seeding (Roads)	Acres	95	15	1425					1425
b. Hand drain roads	Miles	8041	3	2412					2412
c. Mech. drain roads	Miles	332	19	6308					6308
d.									
e.									
B. CHANNELS									
a. Opening water									
courses	Miles								
b. Stabilizing									
streambanks	Miles								
c. Debris dam									
d.									
e.									
C. ROADS AND TRAILS									
a. ORV Signs/Install	Ea	28	30	840					840
b.									
c.									
D. MAJOR STRUCTURES									
a. Preplanned -									
from Forest									
Plans									
E. TOTAL				\$10,985	\$		\$	\$	\$10,985

10145

PART VII - APPROVALS

/S/ RICHARD C. MARTIN for
JAMES L. KIMBALL
Forest Supervisor (Signature)

November 19, 1991
Date

Regional Forester (Signature)

Date

United States
Department of
Agriculture

Forest
Service

Southwestern
Region

517 Gold Avenue SW.
Albuquerque, NM 87102-0084

From Initial

Reply to: 2520-3/6520

Date:

Subject: St Clair Fire Emergency Burned Area Rehabilitation

To: Forest Supervisor, Tonto National Forest

I have reviewed your request for rehabilitation funding on the St Clair Fire. Proposed measures and related costs appear reasonable and prudent, and I grant approval of your request for \$11,140.00. You are authorized to incur obligations against these funds pending allocation by AD739.

Please provide us with your final accomplishment report, FS 2500-8, within 60 days of project completion showing actual costs and accomplishments.



R. FORREST CARPENTER
Deputy Regional Forester

Enclosure: Burned Area Report, FS 2500-8

cc:
PDB

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AND SOURCE OF FUNDS

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Line Items	NFS Lands					Other Lands			All Lands
	Units	Unit	No. of	FFF 092	Other \$	No. of	Federal\$	Non-Federal	Total
		Cost	Units	\$		Units		\$	\$
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
A. LAND									
a. Seeding (Roads)	Acres	60	15	900					900
b. Mech.drain roads	Miles	515	12	6180					6180
c. Hand drain roads	Miles	583	3	1750					6960
d.									
e.									
B. CHANNELS									
a. Opening water									
courses	Miles								
b. Stabilizing									
streambanks	Miles								
c. Debris dam									
d.									
e.									
C. ROADS AND TRAILS									
a. ORV Signs/Install.	Ea	43	42	1810					1810
b.									
c.									
D. OTHER									
a. Arch. clearance				500					500
E. TOTAL				\$11,140	\$		\$	\$	\$11,140

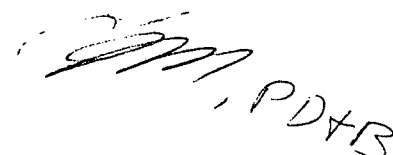
PART VII - APPROVALS

/s/Larry Soehlig for
JAMES L. KIMBALL
Forest Supervisor (Signature)

6/26/91
Date


Regional Forester (Signature)

6/28/91
Date

 J.M. PD+B

**EXAMINING IMPACTS OF MANAGEMENT ALTERNATIVES FOR AN
EMERGENCY PROGRAM**
(Reference FSH 2509.13)

Fire Name

Date of Report

A. ENVIRONMENTAL QUALITY BENEFIT INDEX

Environmental Factor (a)	Weight Factor (b)	Without Treatment		With Treatment		Difference	
		Actual (c)	Weighted (d)	Actual (e)	Weighted (f)	Actual (g)	Weighted (h)
1. Erosion and sediment	10	2	20	1	10	1	10
2. Aesthetic land quality	4	2	8	0	0	2	8
3. Water quality	3	1	3	1	3	0	0
4. Site productivity	7	2	14	1	7	1	7
5. Wildlife habitat	5	1	5	0	0	1	5
6. Fish habitat	1	0	0	0	0	0	0
7. Other Cultural resources	4	1	4	0	0	1	4
8. TOTAL	34	XXXXXXXX	54	XXXXXX	20	XXXXXXXX	34
9. Average weighted index	XXXXXXXX	XXXXXXXX	1.59	XXXXXX	.59	XXXXXXXX	1.0
10. Net environmental quality benefit index	XXXXXXXX	XXXXXXXX	XXXXXXXXXXXX	XXXXXX	XXXXXXXXXXXX	XXXXXXXX	1.0

B. SOCIAL WELL-BEING BENEFIT INDEX

Social Criteria (a)	Weight Factor (b)	Without Treatment		With Treatment		Difference	
		Actual (c)	Weighted (d)	Actual (e)	Weighted (f)	Actual (g)	Weighted (h)
1. Life, health, safety	1	0	0	0	0	0	0
2. Employment	1	0	0	0	0	0	0
3. Recreational opportunity	5	0	0	0	0	0	0
4. Economic stability	1	0	0	0	0	0	0
5. Income distribution	1	0	0	0	0	0	0
6. Preserve special sites	5	1	5	0	0	1	5
7. Other							
8. TOTAL	14	XXXXXXXX	5	XXXXXX	0	XXXXXXXX	5
9. Average weighted index	XXXXXXXX	XXXXXXXX	.36	XXXXXX	0	XXXXXXXX	.36
10. Net social well-being benefit index	XXXXXXXX	XXXXXXXX	XXXXXXXXXXXX	XXXXXX	XXXXXXXXXXXX	XXXXXXXX	.36

C. REMARKS

D. EXPECTED DAMAGE REDUCTION BENEFIT SUMMARY

Note: At current Water Resources Council interest rate 8.625 percent

Economic Benefit Indices	Units of Measure	Damage Expected				Expected \$ Damage Reduction
		Without Treatment		With Treatment		
		No. of Units	Present Value (\$)	No. of Units	Present Value (\$)	
(a)	(b)	(c)	(d)	(e)	(f)	(g)
I. Watershed Impacts Sediments	XXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
1. Downstream water storage						
2. Sediment removal	cubic yds	6,937	16085	3382	10460	5625
3. Fish habitat						
4. Water quality						
II. Flood Water	XXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
1. Land						
2. Water improvements	culvert maint \$	16100	10022	7200	6248	3774
3. Subtotal, Watershed	XXXXXXXXXX	XXXXXXXXXXXX	26107	XXXXXXXXXXXX	16708	9399
III. Resource Related Impacts	XXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
1. Range						
2. Wildlife and Recreation						
3. Timber						
4. Subtotal, Resource Related	XXXXXXXXXX	XXXXXXXXXXXX		XXXXXXXXXXXX		
IV. Other Impacts	XXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
1.						
2. Subtotal, Other	XXXXXXXXXX	XXXXXXXXXXXX		XXXXXXXXXXXX		
V. TOTAL DOLLARS	XXXXXXXXXX	XXXXXXXXXXXX	26107	XXXXXXXXXXXX	16708	9399

REMARKS

ON-SITE AND OFF-SITE DEVELOPMENTS SUBJECT TO HAZARDS¹

(Reference FSH 2509.13)

Fire Name St. Clair

Date of Report

Line Items	Type of Units	Number of Units	Estimated Value \$
(a)	(b)	(c)	(d)
1. Community and urban development	People	0	0
2. Municipal and domestic water supply	People Served	0	0
3. Transportation systems	Miles	2.3	
4. Water distribution system (irrigation)	Miles	0	0
5. Agricultural development (crops, facilities)	Acres	0	0
6. Industrial development (dams, power, manufacturing)	Number	0	0
7. Power and communication lines	Miles	0	0
8. Recreation development	PAOT	0	0
9. Fish habitat	Miles	0	0
10. Other (specify) Wildlife Guzzlers	units	2	
2	XXXXXXXXXX	XXXXXXXXXX	
11. Total Hazard Potential	XXXXXXXXXX	XXXXXXXXXX	

12. Narrative (Optional- if additional space is needed, attach another sheet).

¹ Hazards from floods, floating debris, erosion, or sediment because a watershed is impaired by wildfire. (Do not include value of resources damaged or destroyed by the fire reported on FS-5100-29.)

² Indicates values threatened by design storm. Does not enter into the B/C.

Fire Name St. ClairSUMMARY OF EMERGENCY REHABILITATION NEEDS BY LANDOWNERSHIP
(Reference FSH 2509.13)Date of Report 06/26/91

Landownership	A. Acres	B. Emergency Rehabilitation Needs			
	Burned	(1) Land (acres)	(2) Channel (miles)	(3) Road & Trail (miles)	(4) Other
Federal (NFS)	1100	880		12	
Other (specify)	0	0		0	
Subtotal (NFS)	1100	880		12	
Non-Federal (State & County)	0	0			
Indian Reservation	0	0			
Private					
Subtotal (Non-Federal)					
TOTAL	1100	880		12	

C. Source of Emergency Rehabilitation Funds for Needed Work (\$)

Landownership	1. FFF		2. Emergency Flood Prevention	3. FR & T	4. Other Federal (Enter fund)	5. Non- Federal (Enter fund)	6. Total
	(a) 092	(b) 102					
Federal (NFS)	11350						11350
Other (specify)	0						0
Subtotal (NFS)	11350						11350
Non-Federal (State & County)	0						0
Indian Reservation	0						0
Private	0						0
Subtotal (Non-Federal)	0						0
TOTAL	11350						11350

D. Remarks