

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): Big Jane
2. Forest Supervisor's Fire No. (from Form FS-5100-29): 0009
3. State: Utah
4. County: Utah
5. Region: 4
6. Forest: Uinta
7. Ranger District: Spanish Fork
8. Date Fire Started: 6/30/87
9. Date Fire Controlled: 7/6/87
10. Estimated Suppression Costs: \$143,700
11. Fire Suppression Damages Repaired with FFF 102 Funds:  
  
    5.3 miles (firelines waterbarred)  
    6.1 acres (firelines seeded)  
    4.9 acres Other (identify) closure of 1.4 miles of access road and  
        other disturbed areas incidental to fire control activities
12. Fire Intensity:      50 % (low)      30 % (medium)      20 % (high)

PART III - NATIONAL FOREST SYSTEM PROBLEM INVENTORY

1. Watershed No.: 10
2. NFS Acres Burned: 356
3. Water Repellant Soil: \_\_\_\_\_ 0 % of NFS acres burned
4. Vegetation Types: 30 % sagebrush-grass, 20 % pinyon-juniper, 50 % oakbrush
5. Geologic Types: All Price River Formation, Nearly all conglomerate rock.
6. Soil Erosion Hazard Rating:  
    30 % (low)      60 % (medium)      10 % (high)

7. Erosion Potential: \_\_\_\_\_ 6,455 cu. yds/sq. miles
8. Miles of Stream Channels by Regional Order or Classes: 1 = .5 miles
9. Miles of Forest Service Trails: None
10. Miles of Forest Service Roads by Maintenance Levels: None

\_\_\_\_\_ miles (Level I) \_\_\_\_\_ miles (Level II)  
 \_\_\_\_\_ miles (Levels III, IV, V)

#### PART IV - CALCULATED RISK AND CLIMATIC EVALUATION

1. Estimated Vegetative Recovery Period: 3 years. With revegetation work.
2. Chance of Success Desired by Management 70 percent.
3. Equivalent Design Recurrence Period: 25 years.
4. Related Design Storm Duration: 6 hours.
5. Related Design Storm Magnitude: 1.7 inches.
6. Related Design Flow 61.9 cfs.
7. Estimated Reduction in Infiltration: 20 percent.
8. Adjusted Related Design Flow: 74.3 cfs.

#### PART V - SUMMARY OF SURVEY AND ANALYSIS

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

<input checked="" type="checkbox"/> Hydrology	<input type="checkbox"/> Soils	<input checked="" type="checkbox"/> Geology	<input checked="" type="checkbox"/> Range
<input type="checkbox"/> Timber	<input checked="" type="checkbox"/> Wildlife	<input type="checkbox"/> Fire Mgmt.	<input checked="" type="checkbox"/> Engineering
<input type="checkbox"/> Contracting	<input checked="" type="checkbox"/> Local Mgmt.	<input type="checkbox"/> Research	<input checked="" type="checkbox"/> Other (identify) Economist

2. Describe Emergency: loss of ground cover and resultant loss of forage for wintering big game (deer & elk) and increased erosion with the possibility of some flash flooding onto U.S. Highway 50-6.

3. Emergency Rehabilitation Objective: Reestablish vegetative cover to protect soils using species which will improve big game winter range and control invasion of undesirable plants such as cheatgrass, musk thistle, and other species.

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

Land \_\_\_95 %    Channel \_\_\_\_\_ %    Roads \_\_\_95 %    Other \_\_\_\_\_ %

5. Net Environmental Quality Benefit Index:

☒ Significant                      ☐ Not Significant

6. Net Social Well Being Benefit Index:

☐ Significant                      ☒ Not Significant

7. Benefit/Cost Ratio: .078

8. Net Benefits: \$ -15,561


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	FFF 092	Other \$	No. of	Federal\$	Non-Federal	Total
		Cost	Units	\$		Units		\$	\$
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
<b>A. LAND</b>									
a. Seeding	Acres	65.96	256	16,885	-	-	-	-	16,885
b.									
c.									
d.									
e.									
<b>B. CHANNELS</b>									
a. Opening water									
courses	Miles	-							-
b. Stabilizing									
streambanks	Miles								
c.									
d.									
e.									
<b>C. ROADS AND TRAILS</b>									
a.									
b.									
c.									
<b>D. MAJOR STRUCTURES</b>									
a. Preplanned -									
from Forest									
Plans									
<b>E. TOTAL</b>			256	\$16,885	\$		\$	\$	\$ 16,885

PART VII - APPROVALS

/S/   
Forest Supervisor (Signature)

7-10-87  
Date

/S/ \_\_\_\_\_  
Regional Forester (Signature)

\_\_\_\_\_  
Date

USDA-Forest Service  
EXAMINING IMPACTS OF MANAGEMENT ALTERNATIVES FOR AN  
EMERGENCY PROGRAM  
(REF. FSH 2509.13)

Fire Name Big Jane	Date of Report 7/9/87
-----------------------	--------------------------

**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	1	10	0	0	1	10
2. Aesthetic land quality	1	0	0	0	0	0	0
3. Water quality	2	0	0	0	0	0	0
4. Site productivity	8	2	16	1	16	1	0
5. Wildlife habitat	8	1	8	0	0	1	8
6. Fish habitat	1	0	0	0	0	0	0
7. Other (NA)	-	-	-	-	-	-	-
8. TOTAL	30		34		16		18
9. Average weighted index			1.1		1.9		.8
10. Net environmental quality benefit index							.8

**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	10	1	10	0	0	1	10
2. Employment	1	0	0	0	0	0	0
3. Recreational opportunity	1	0	0	0	0	0	0
4. Economic stability	3	0	0	0	0	0	0
5. Income distribution	1	0	0	0	0	0	0
6. Preserve special sites	1	0	0	0	0	0	0
7. Other (NA)	-	-	-	-	-	-	-
8. TOTAL	17		10		0		10
9. Average weighted index			.6		0		.6
10. Net social well being benefit index							.6

C. REMARKS

#### D. EXPECTED DAMAGE REDUCTION BENEFIT SUMMARY

Note: At current Water Resources Council  
interest rate 8.825 percent

Economic Benefit Indices (a)	Units of Measure (b)	Without Treatment		With Treatment		Expected \$ Damage Reduction (g)
		No. of Units (c)	Present Value (\$) (d)	No. of Units (e)	Present Value (\$) (f)	
I. Watershed Im- pacts Sediments	-					-
Downstream water storage	-					-
Sediment (from Removal highway)	cu. yds.	2103	594	285	139	455
Fish habitat	-					-
Water quality	-					-
II. Flood Water						
Land	-					-
Water Improvements	-					-
Subtotal, Watershed			594		139	455
III. Resource- Related Impacts						
Range	-					-
Wildlife and recreation	Big Game	11	957	5	462	495
Timber	-					-
Subtotal, Re- source-Related			957			495
IV. Other Impacts						
lost time (high- way travel)	hours	2	374	0	0	374
Subtotal, Other			374			374
V. TOTAL DOLLARS			1925		601	1324

#### E. REMARKS

The 356 acres burned is part of the 62,700 acres of winter range in the Diamond Fork deer herd unit. Revegetation would hold animals on the area longer in the spring with green up and reduce pressure on adjacent areas that are in worse condition, but overall impacts from the fire will be slight.

For more information on the highway damage and loss of travel time situation see the remarks section of form FS-2500-8b.

ON-SITE AND OFF-SITE DEVELOPMENTS SUBJECT TO HAZARDS<sup>1</sup>

(Reference FSH 2509.13)

Fire Name BIG JANE			Date of Report 7-9-87	
Line Items (a)	Type of Units (b)	Numbers of Units (c)	Estimated Value \$ (d)	
1. Community and urban development	People			
2. Municipal and domestic water supply	People Served			
3. Transportation Systems	Miles	1.25		\$125,000
4. Water distribution (irrigation)	Miles			
5. Agricultural development (crops, facilities)	Acres			
6. Industrial development (dams, power, manufacturing)	Number			
7. Power and communication lines	Miles			
8. Recreation development	PAOT			
9. Fish Habitat	Miles			
10. Other (specify)				
11. Total Hazard Potential <sup>2</sup>				\$ 125,000
12. Narrative (Optional - if additional space if needed, attach another sheet.)				

THE FIRE BURNED ON STEEP SLOPES AND OPEN RIDGES ABOVE THE RED NARROWS AREA OF SPANISH FORK CANYON. THE LOWER EDGE OF THIS FIRE IS IMMEDIATELY ABOVE U.S. HIGHWAY 50-6 FOR A DISTANCE OF ABOUT 1.25 MILES. THE BURN INCREASES THE THREAT OF FLASH FLOODING FROM THE DRY DRAWS WHICH DRAIN ONTO THE HIGHWAY IN THIS VICINITY. THIS FLOOD SITUATION IS ALREADY A PROBLEM ON THE POORLY VEGETATED PORTIONS OF SLOPES LEADING INTO THE CANYON. THE CHIEF HAZARD HERE IS THAT FLASH FLOODING WILL COVER THE HIGHWAY WITH DEBRIS FLOWS CAUSING TRAFFIC DELAYS UNTIL THE HIGHWAY CAN BE CLEANED OFF. THE UTAH DEPARTMENT OF HIGHWAYS ESTIMATES THE DELAY COST ON THIS SECTION OF HIGHWAY AT \$7480 PER HOUR. TREATMENT PROPOSED WILL NOT PREVENT THIS FROM HAPPENING THE FIRST YEAR, BUT WILL HASTEN RECOVERY SO THAT THE AREA SHOULD RETURN TO PREFLOOD CONDITIONS WITHIN ABOUT THREE YEARS.

<sup>1</sup> 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.)

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

SUMMARY OF EMERGENCY REHABILITATION NEEDS BY LANDOWNERSHIP  
(REF. FSH 2509.13)Fire Name  
BIG JANEDate of Report  
7-9-87

Landownership	A. Acres Burned	B. Emergency Rehab. Needs				C. Source of Emergency Rehab. Funds for Needed Work \$					6. Total
		(1) Land (Ac)	(2) Channel (Mi)	(3) Road & Trail (Mi)	(4) Other (Mi)	1. FFF	2.	3.	4.	5.	
						092	102	FR&T	Other Fed. (Fund)	Non- Fed. (Fund)	
Federal (NFS)	356	267		ACCESS 1.4	FIRELIN 5.3	16,885	7,985				\$24,870
Other (Specify)											
Subtotal (NFS)											
Non-Federal (State & County)											
Indian Reservation											
Private											
Subtotal (Non-Federal)											
TOTAL	356	267		1.4	5.3	16,885	7,985				\$24,870

## D. REMARKS

THE BURNED AREA IS ESTIMATED AT 356 ACRES OF WHICH 267 ACRES WOULD BE DESIREABLE TO RESEED. ELEVEN ACRES OF THIS 267 ACRES ACRES ARE DISTURBED AREAS INCLUDING FIRELINES, 1.4 MILE ACCESS ROAD DOWN THE RIDGE TO THE HEAD OF THE BURN AND OTHER SITES DISTURBED BY FIRE CONTROL ACTIVITIES. THESE ELEVEN ACRES HAVE ALREADY BEEN STABILIZED BY WATER BARRING AND BROADCAST SEEDING USING A HELICOPTER STATIONED ON THE FIRE WITH FFF-102 FUNDS AS LISTED ABOVE.

# Cost Estimate

FFF-092 Seed Order for Big Jane Fire

<u>Species</u>	<u>lbs</u>	<u>\$/lb</u>	<u>Total</u>
Smooth Brome (Lincoln)	400	3.75	1500.00
Orchard Grass (Piute)	250	5.00	1250.00
Hard Fescue	125	1.50	187.50
Fairway Crested Wheatgrass	200	2.95	590.00
Intermediate Wheatgrass	400	3.95	1580.00
Pubescent Wheatgrass	250	4.50	1125.00
Indian Ricegrass	125	8.25	1031.25
Western Wheatgrass	200	3.75	750.00
Ladak Alfalfa	125	1.75	218.75
Small Burnett	125	1.10	137.50
Chickpea Milk Vetch	125	2.20	275.00
Palmer Penstemon	32	25.00	800.00
Yarrow	32	19.00	608.00
Yellow Sweetclover	125	.65	81.25
Snowberry (Utah or Mtn.)	64	49.00	3,136.00
Wild Rose (Woods)	64	12.00	768.00
Big Sagebrush (Veseyana)	32	4.60	147.20
Bitterbrush	125	6.00	750.00
	2799		\$14,935.4

1/2 day with Helicopter @  
\$400/hour

\$1,600

Crews Mileage for seed Delivery,  
Loading etc.

\$350

Total ~\$16,885.4



# Fire Seed Order

	<u>lbs</u>	<u>Price per lb</u>	
Smooth Brome (Lincoln)	100	3.75	\$375.00
Orchard Grass (Piute)	100	5.00	\$500.00
Fairway Crested Wheatgrass	50	2.95	147.50
Intermediate Wheatgrass	50	3.95	197.50
Pubescent wheatgrass	50	4.50	225.00
Indian Ricegrass	20	8.25	165.00
Western wheatgrass	50	3.75	187.50
Ladak Alfalfa	50	1.75	87.50
Small Burnett	30	1.10	33.00
Chick pea Milkvetch	25	2.20	55.00
CUS Palmer Penstemon	20	18.00	25.00 360.00
Yellow Sweetclover	50	.65	32.50
Snowberry (Utah)	50	49.00	2450.00
Wild Rose	75	12.00	60.00
CAS Big Sagebrush (Vassejana)	5	4.00	4.60 20.00
CUS Fourwing Saltbush	20	2.50	50.00
	<u>625</u>		<u>\$4,945.50</u>