



**STATE OF VERMONT**  
JOINT FISCAL OFFICE

**MEMORANDUM**

To: James Reardon, Commissioner of Finance & Management  
From: Nathan Lavery, Fiscal Analyst  
Date: December 1, 2008  
Subject: JFO #2350

No Joint Fiscal Committee member has requested that the following item be held for review:

**JFO #2350** — \$1,297,634.73 grant from the Federal Emergency Management Agency (FEMA) to the Agency of Transportation. These grant funds will be used to repair public facilities (state, local, and non-profit) in a number of counties that were damaged by the storms of June 21 to August 12, 2008.  
[JFO received 10/30/08]

In accordance with 32 V.S.A. §5, the requisite 30 days having elapsed since this item was submitted to the Joint Fiscal Committee, the Governor's approval may now be considered final. We ask that you inform the Secretary of Administration and your staff of this action.

cc: David Dill, Commissioner



**STATE OF VERMONT**  
JOINT FISCAL OFFICE

**MEMORANDUM**

To: Joint Fiscal Committee Members  
From: Nathan Lavery, Fiscal Analyst  
Date: October 30, 2008  
Subject: Grant Request

Enclosed please find one (1) request which the Joint Fiscal Office recently received from the Administration:

**JFO #2350** — \$1,297,634.73 grant from the Federal Emergency Management Agency (FEMA) to the Agency of Transportation. These grant funds will be used to repair public facilities (state, local, and non-profit) in a number of counties that were damaged by the storms of June 21 to August 12, 2008.  
[JFO received 10/30/08]

The Joint Fiscal Office has reviewed this submission and determined that all appropriate forms bearing the necessary approvals are in order.

In accordance with the procedures for processing such requests, we ask you to review the enclosed and notify the Joint Fiscal Office (Nathan Lavery at 802/828-1488; [nlavery@leg.state.vt.us](mailto:nlavery@leg.state.vt.us) or Stephen Klein at 802/828-5769; [sklein@leg.state.vt.us](mailto:sklein@leg.state.vt.us)) if you have questions or would like this item held for Joint Fiscal Committee review. Unless we hear from you to the contrary by November 13 we will assume that you agree to consider as final the Governor's acceptance of this request.

cc: James Reardon, Commissioner  
David Dill, Commissioner



**STATE OF VERMONT**  
JOINT FISCAL OFFICE

**MEMORANDUM**

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From: Nathan Lavery, Fiscal Analyst  
Date: October 30, 2008  
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cc: James Reardon, Commissioner  
David Dill, Commissioner

STATE OF VERMONT  
GRANT ACCEPTANCE FORM

JFO # 2350

DATE: October 16, 2008

DEPARTMENT: AOT - Operations

GRANT/DONATION (brief description and purpose):

FEMA Disaster Assistance Grant FEMA-1790-DR-VT  
July 21 to August 12 storms – Addison, Caledonia, Essex, Lamoille, Orange,  
Washington, and Windsor Counties. Statewide for hazard mitigation only.

GRANTOR/DONOR: FEMA

GRANT PERIOD: N/A

AMOUNT/VALUE: \$1,297,634.73

POSITIONS REQUESTED (LIMITED SERVICE): 0

ANY ON-GOING, LONG-TERM COSTS TO THE STATE: None

COMMENTS:

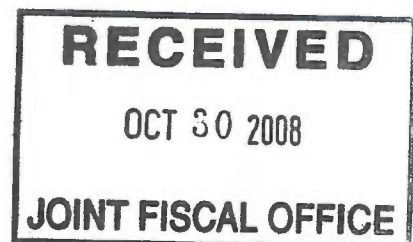
State match of \$223,615.89 will be needed. (ERAF).

Total Federal funds is \$1,297,634.73 (75% of current damage estimate plus \$55,324.23 administrative.)

*9/10/16/08*

DEPT. FINANCE AND MANAGEMENT:  
SECRETARY OF ADMINISTRATION:  
SENT TO JOINT FISCAL OFFICE:

(INITIAL) *JK 10/20/08*  
(INITIAL) *ARM 10/21/08*  
(DATE) *10/27/08*



**STATE OF VERMONT REQUEST FOR GRANT ACCEPTANCE** (Form AA-1)

BASIC GRANT INFORMATION					
<b>1. Agency:</b>		Transportation			
<b>2. Department:</b>		Operations			
<b>3. Program:</b>		Public Assistance			
<b>4. Legal Title of Grant:</b>		Disaster Assistance Grant FEMA 1790-DR-VT			
<b>5. Federal Catalog #:</b>		97-036			
<b>6. Grant/Donor Name and Address:</b> Federal Emergency Management Agency 99 High Street Boston, MA 02109-4595					
<b>7. Grant Period:</b>		<b>From:</b> 7/21/2008	<b>To:</b> 7/21/2012		
<b>8. Purpose of Grant:</b> To provide federal disaster assistance to repair damage to public facilities (state, local, and non-profit) caused by storms from July 21 to August 12, 2008.					
<b>9. Impact on existing program if grant is not Accepted:</b> State and local governments and eligible non-profit agencies may have to bear the full cost of repair to public facilities (roads, bridges, buildings), debris removal, and emergency response.					
10. BUDGET INFORMATION					
	<b>SFY 1</b>	<b>SFY 2</b>	<b>SFY 3</b>	<b>Comments</b>	
<b>Expenditures:</b>	<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011</b>		
Personal Services	\$	\$	\$		
Operating Expenses	\$	\$	\$		
Grants	\$855,869	\$427,935	\$427,934		
<b>Total</b>	\$855,869	\$427,935	\$427,934		
<b>Revenues:</b>					
State Funds:	\$111,808	\$55,904	\$55,904		
Cash	\$	\$	\$		
In-Kind	\$	\$	\$		
Federal Funds:	\$648,817	\$324,409	\$324,408		
(Direct Costs)	\$	\$	\$		
(Statewide Indirect)	\$	\$	\$		
(Departmental Indirect)	\$	\$	\$		
Other Funds:	\$	\$	\$		
Grant (source Local share)	\$95,244	\$47,622	\$47,622		
<b>Total</b>	\$855,869	\$427,935	\$427,934		
<b>Appropriation No:</b>		<b>Amount:</b>	\$		
	8100005500-59700-20150		\$1,297,635		
	8100005500-59700-21555		\$223,616		

REC'D OCT 16 2008

**STATE OF VERMONT REQUEST FOR GRANT ACCEPTANCE** (Form AA-1)

		\$
		\$
		\$
		\$
	<b>Total</b>	\$

**PERSONAL SERVICE INFORMATION**

**11. Will monies from this grant be used to fund one or more Personal Service Contracts?**  Yes  No  
 If "Yes", appointing authority must initial here to indicate intent to follow current competitive bidding

Appointing Authority Name: \_\_\_\_\_ Agreed by: \_\_\_\_\_ (initial)

12. Limited Service Position Information:	# Positions	Title
	0	
<b>Total Positions</b>	0	

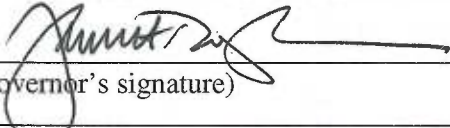
**12a. Equipment and space for these positions:**  Is presently available.  Can be obtained with available funds.

**13. AUTHORIZATION AGENCY/DEPARTMENT**

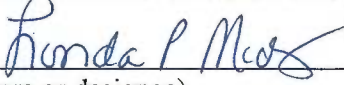
I certify that no funds have been expended or committed in anticipation of Joint Fiscal Committee Approval of this grant:

Signature: <i>David Deie</i>	Date: 10/16/2008
Title: Secretary of Transportation	
Signature:	Date:
Title:	

**14. ACTION BY GOVERNOR**

<input checked="" type="checkbox"/> Accepted	 (Governor's signature)	10/24/08
<input type="checkbox"/> Rejected		Date:

**15. SECRETARY OF ADMINISTRATION**

<input type="checkbox"/> Request to JFO	 (Secretary's signature or designee)	10/21/08
<input type="checkbox"/> Information to JFO		Date:

**16. DOCUMENTATION REQUIRED**

Required GRANT Documentation	
<input type="checkbox"/> Request Memo	<input type="checkbox"/> Request Memo
<input type="checkbox"/> Dept. project approval (if applicable)	<input type="checkbox"/> Dept. project approval (if applicable)
<input type="checkbox"/> Notice of Award	<input type="checkbox"/> Notice of Donation (if any)
<input type="checkbox"/> Grant Agreement	<input type="checkbox"/> Grant (Project) Timeline (if applicable)
<input type="checkbox"/> Grant Budget	<input type="checkbox"/> Request for Extension (if applicable)

**FEMA-1790-DR-VT July 21 to August 12, 2008**

	Damage (from PDA)		
	Total	FEMA	Administrative
Addison	\$ 451,266.00	\$ 338,449.50	\$ 15,072.28
Caledonia	\$ 287,900.00	\$ 215,925.00	\$ 9,615.86
Essex	\$ 135,934.00	\$ 101,950.50	\$ 4,540.20
Lamoille	\$ 143,700.00	\$ 107,775.00	\$ 4,799.58
Orange	\$ 113,717.00	\$ 85,287.75	\$ 3,798.15
Washington	\$ 296,502.00	\$ 222,376.50	\$ 9,903.17
Windsor	\$ 227,395.00	\$ 170,546.25	\$ 7,594.99
	<u>\$ 1,656,414.00</u>	<u>\$ 1,242,310.50</u>	<u>\$ 55,324.23</u>

\$ 1,242,310.50 = Total FEMA support to applicants  
\$ 55,324.23 = Total Administrative support to State  
\$ 1,297,634.73 = Total anticipated FEMA Support for PA

State Funds (ERAF): Est. Avg (13.5%) - Towns receive either 12.5% or 15% from ERAF  
ERAF: \$ 223,615.89



Applicant Share: \$ 190,487.61

Total (federal, state, & local): \$ 1,711,738.23



**State of Vermont**  
**Operations Division**  
One National Life Drive  
Montpelier, VT 05633-5001  
[sam.lewis@state.vt.us](mailto:sam.lewis@state.vt.us)

*Agency of Transportation*  
**Maintenance Programs**  
[phone] 802-828-2709  
[fax] 802-828-2848  
[ttd] 800-253-0191

**To:** Neale Lunderville, Secretary of Administration  
(Governor's Authorized Representative, FEMA PA Program)  
via David Dill, Secretary of Transportation   
**From:**  Alec Portalupi, State Public Assistance Officer, FEMA PA Program  
**Date:** September 23, 2008  
**Subject:** FEMA 1790-DR-VT (July 21 to August 12, 2008 storms)

We are requesting your approval and signature on the attached documents for the State to apply for and receive federal assistance under the subject federal disaster declaration.

If you have any questions about these documents or need additional information, please contact Alec Portalupi at 828-3889. Thank you.

Attachments

Standard Form 424  
State of Vermont Form AA-1  
Various Correspondence between State and FEMA Region 1


SEP 23 2008





<b>PA-01-VT-1790</b>	
Applicant Name: Vermont Agency of Transportation	Application Title: SF-424 for Disaster Number 1790
Period of Performance Start: 09-12-2008	Period of Performance End:

**Grant Application - SF424**

<b>APPLICATION FOR FEDERAL ASSISTANCE</b>		<b>2. DATE SUBMITTED</b> 09-16-2008	Applicant Identifier
<b>1. TYPE OF SUBMISSION</b>  N/A	Pre-Application	<b>3. DATE RECEIVED BY STATE</b> N/A	State Application Identifier N/A
	N/A	<b>4. DATE RECEIVED BY FEDERAL AGENCY</b> N/A	Federal Identifier
<b>5. APPLICANT INFORMATION</b>			Organizational Unit:
Legal Name: Vermont Agency of Transportation		Department: Vermont Agency of Transportation	
Organizational DUNS: 809376296-		Division: Operations	
Address Street: One National Life Drive  City: Montpelier County: Washington State: VT Country: United States of America		<b>Name and telephone number of person to be contacted on matters involving this application (give area code)</b> Prefix: Mr Middle Initial: Last Name: Portalupi Suffix: Email: alec.portalupi@state.vt.us Phone Number: 802-828-3889 Fax Number: 802-828-2848	
<b>6. FEDERAL EMPLOYER IDENTIFICATION NUMBER (EIN)</b> 03-6000274		<b>7. TYPE OF APPLICANT</b> State Government	
<b>8. TYPE OF APPLICATION</b> Grant Application (SF-424)		<b>9. NAME OF FEDERAL AGENCY</b> Federal Emergency Management Agency	
<b>10. CATALOG OF FEDERAL DOMESTIC ASSISTANCE NUMBERS</b> 97.036 CFDA TITLES: PUBLIC ASSISTANCE		<b>11. DESCRIPTIVE TITLE OF APPLICANT'S PROJECT</b> N/A	
<b>12. AREAS AFFECTED BY PROJECT</b> (cities, counties, states, etc.)  Caledonia, Essex, Washington, Windsor, Addison, Orange, Lamoille, Statewide			
<b>13. PROPOSED PROJECT:</b> Start Date: End Date:		<b>14. CONGRESSIONAL DISTRICTS OF:</b> a. Applicant: b. Project:	
<b>15. ESTIMATED FUNDING</b>		<b>16. IS APPLICATION SUBJECT TO REVIEW BY STATE EXECUTIVE ORDER 12372 PROCESS?</b>	
a. Federal	\$ 944113	N/A	
b. Applicant	\$ 0	<b>17. IS THE APPLICANT DELINQUENT ON ANY FEDERAL DEBT?</b>	
c. State	\$ 162695	N/A	
d. Local	\$ 138592		
e. Other	\$ 0		
f. Program Income	\$ 0		
g. TOTAL	\$ 1245400		
<b>18. TO THE BEST OF MY KNOWLEDGE AND BELIEF, ALL DATA IN THIS APPLICATION ARE TRUE AND CORRECT, THE DOCUMENT HAS BEEN DULY AUTHORIZED BY GOVERNING BODY OF THE APPLICANT AND THE APPLICANT WILL COMPLY WITH THE ATTACHED ASSURANCES IF THE ASSISTANCE IS REQUIRED.</b>			
a. Name of Authorized Representative Norman Portalupi	b. Title State Public Assistance Officer	c. Telephone Number 8028283889	
d. Signature of Authorized Representative 		e. Date Signed 9-18-08	

# DECLARED SEPTEMBER 12, 2008

## SUMMARY

In the event of a declaration, the following information applies:

STATE: Vermont  
NUMBER: FEMA-1790-DR  
INCIDENT: Severe Storms and Flooding  
INCIDENT PERIOD: July 21 to August 12, 2008  
DATE REQUESTED BY GOVERNOR: August 25, 2008  
FEDERAL COORDINATING OFFICER: Philip E. Parr  
National FCO Program

### DESIGNATIONS AND TYPES OF ASSISTANCE:

#### INDIVIDUAL ASSISTANCE (Assistance to individuals and households):

None.

PUBLIC ASSISTANCE (Assistance to State and local governments and certain private nonprofit organizations for emergency work and the repair or replacement of disaster-damaged facilities):

Addison, Caledonia, Essex, Lamoille, Orange, Washington, and Windsor Counties.

HAZARD MITIGATION GRANT PROGRAM (Assistance to State and local governments and certain private nonprofit organizations for actions taken to prevent or reduce long term risk to life and property from natural hazards):

All counties in the State of Vermont are eligible to apply for assistance under the Hazard Mitigation Grant Program.

OTHER: Additional designations may be made at a later date after further evaluation.

JAMES H. DOUGLAS  
Governor



State of Vermont  
OFFICE OF THE GOVERNOR

August 25, 2008

The Honorable George W. Bush  
President of the United States  
The White House  
Washington, D.C. 20500

Through: Arthur W. Cleaves  
Regional Administrator  
FEMA Region I  
Boston, Massachusetts 02110

Dear Mr. President:

Under the provisions of Section 401 of the Robert T. Stafford Disaster Relief and Emergency Assistance Act, 42 U.S.C. §§ 5121-5206 (Stafford Act), and implemented by 44 CFR § 206.36, I request that you declare a major disaster for the State of Vermont as a result of excessive rainfall that caused flash flooding and extensive road damage in certain areas throughout the State on and from July 21, 2008 through August 12, 2008. The Vermont counties impacted to the highest degree of eligible damage include Addison, Caledonia, Essex, Lamoille, Orange, Washington and Windsor. Initial damage estimates exceed \$1.66 million dollars. The damage was widespread due to an extended storm system that impacted seven of Vermont's fourteen counties.

In response to the situation, I have taken appropriate action under State law and directed the execution of the State Emergency Operations Plan through the Commissioner of the Department of Public Safety beginning on July 21, 2008 and continuing in operation through August 12, 2008 in accordance with Section 401 of the Stafford Act. In accordance with the State Emergency Operations Plan, the following State Agency Support functions were activated: Department of Public Safety, Vermont Emergency Management Division and Vermont State Police, Vermont Agency of Transportation, Vermont Agency of Human Services, Vermont Department of Health, and the American Red Cross. The communities of Ferrisburgh, Leicester, Middlebury, Northfield, Ripton, Rochester, Troy, Williamstown and Wolcott, Vermont each requested a local declaration of emergency due to excessive damage to their public infrastructure.

The State of Vermont has a State Mitigation Plan that was approved by FEMA in November of 2007. Approximately 85% of Vermont communities have FEMA approved local mitigation plans with the rest in various forms of draft stages.

Joint Federal, State, and local surveys of the damaged areas were conducted several times between July 21 and August 12 in different counties of the state:

Lamoille	07/31/08	Orange	08/08/08
Caledonia	07/31/08	Essex	08/12/08
Washington	08/06/08	Windsor	08/14/08
Addison	08/08/08		

Preliminary assessments by State and local officials indicated the most severe impacts were to town and state roads that received road damage by flash floods.

I have determined that this incident is of such severity and magnitude that effective response is beyond the capabilities of the State and the affected local governments and that supplementary Federal assistance is necessary. I am specifically requesting Federal assistance utilizing the following federal programs: Public Assistance for the counties of Addison, Caledonia, Essex, Lamoille, Orange, Washington and Windsor, Vermont. The State of Vermont also requests that the Hazard Mitigation Grant Program (Section 404), available throughout the State.

Preliminary estimates of the types and amount of assistance needed under the Stafford Act are tabulated in Enclosure A.

The following information is furnished on the nature and amount of State and local resources that have been or will be used to alleviate the conditions of this disaster: The following State agencies were directed to provide immediate assistance as a result of flash flooding: Department of Public Safety, Vermont Emergency Management Division and Vermont State Police, State Agency of Transportation, Vermont Agency of Human Services, Vermont Department of Health, Vermont National Guard and the American Red Cross. The flash flooding that devastated seven out of fourteen counties resulted from a storm system that according to the National Weather Service officially began on July 18, 2008 and went through August 12, 2008. A description of the storm system prepared by the National Weather Service office that serves most of Vermont is attached as Enclosure B. The damage from this storm that affected Vermont began on July 18 (FEMA-1784-DR), skipped a few days and then began again in earnest for the next three and a half weeks, between July 21 through August 12. Many communities were impacted several times and were not able to repair damaged infrastructure before the next storm cells caused additional damage. Some communities were in the process of recovering from another storm, FEMA-1778-DR, when they received additional damage from the latest storm.

Town and State road crews worked for several days to repair the damage to public roads and to open access routes for emergency vehicles several times. There was not much debris clean-up as most debris washed down the river systems. Unfortunately, two lives were lost as a result of the storms during this time period; one due to a house fire after being struck by lightning and in a separate incident, a boater was lost in stormy waters. Several private properties received major damage but did not meet the threshold to seek SBA Disaster Assistance or an IA declaration. Two camps with summer campers were evacuated due to

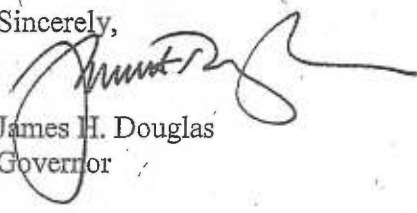
Honorable George W. Bush  
August 25, 2008  
Page 3

impassable and dangerous roads. Another summer camp also experienced destructive flash floods and heavy losses.

I certify that for this major disaster, the State and local governments will assume all applicable non-Federal share of costs required by the Stafford Act. Total state/local share expenditures are expected to exceed \$414,000.

I have designated Barbara Farr, Director of Vermont Emergency Management, as the State Coordinating Officer for this request. Ms. Farr will work with the Federal Emergency Management Agency in damage assessments and may provide further information or justification on my behalf.

Sincerely,



James H. Douglas  
Governor

Enclosures

VTrans County Rollup: 21 July to 12 August 2008, Strong Winds, Heavy Rain, Flooding

County	A - Debris Removal	B - Protective Measures	C - Roads & Bridges	D - Water Control Facilities	E - Buildings & Equipment	F - Utilities	G - Parks, Recreation	Total	Population	Total Per Capita
ADDISON		11,200	440,066					451,266	35,974	12.54
BENNINGTON								0	36,994	0.00
CALEDONIA			287,900					287,900	29,702	9.69
CHITTENDEN								0	146,571	0.00
ESSEX			135,934					135,934	6,459	21.05
FRANKLIN								0	45,417	0.00
GRAND ISLE								0	6,901	0.00
LAMOILLE		5,000	138,700					143,700	23,233	6.19
ORANGE			113,717					113,717	28,226	4.03
ORLEANS								0	26,277	0.00
RUTLAND								0	63,400	0.00
WASHINGTON		5,000	291,502					296,502	58,039	5.11
WINDHAM								0	44,216	0.00
WINDSOR		2,000	222,395			1,000	2,000	227,395	57,418	3.96
		23,200	1,630,214	0	0	1,000	2,000	1,656,414		

Prepared by A. Portalupi

08/25/2008

**ENCLOSURE A**



August 19, 2008

MEMORANDUM FOR: Barbara Farr, Director Vermont Emergency Management

FROM: Andy Nash, Meteorologist-in-Charge, National Weather Service Burlington VT

SUBJECT: Weather Summary – Significant Wet Period, July 18 to August 12, 2008

**Summary**

Beginning in mid July, a persistent atmospheric system developed across the eastern Great Lakes resulting in rounds of severe weather and heavy rainfall across a large portion of Vermont. This repeated rainfall resulted in many areas of the state, especially central and northeastern sections, enduring their wettest July on record. The system continued to strengthen into early August as it drifted over and then to the south of Vermont. This strengthening resulted in renewed heavy rainfall and significant flash flooding.

**Table 1. Rainfall Totals (in inches) at select locations for the period July 15-August 14, 2008**

Mt Mansfield (Lamoille County)	14.33
South Lincoln (Addison County)	14.05
Corinth (Orange County)	13.28
East Haven (Essex County)	12.92
Worcester (Washington County)	12.84
Montpelier (Washington County)	12.46
Sutton (Caledonia County)	12.21
Saint Johnsbury (Caledonia County)	11.77
Island Pond (Essex County)	11.77
Jay Peak (Orleans County)	11.69
Bethel (Windsor County)	9.08

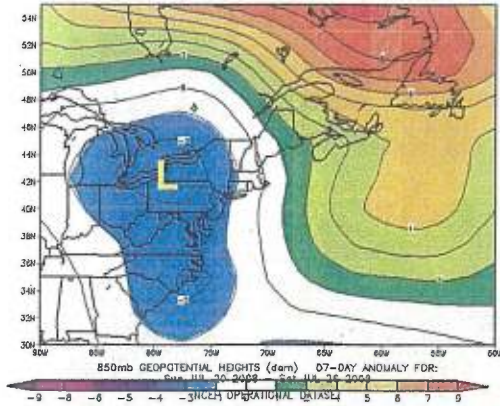


*Figure 1. Rainfall Amounts for the 30-Day period ending August 17. Areas in purple indicate rainfall in excess of 10 inches.*

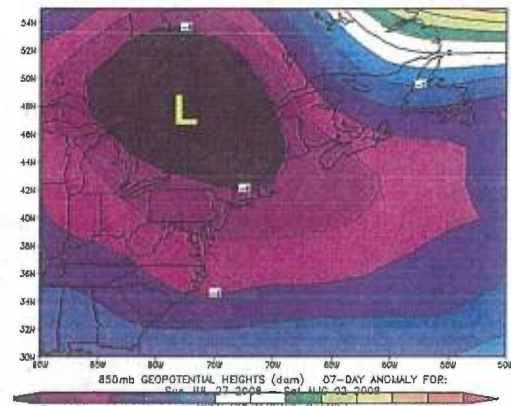


National Oceanic and Atmospheric Administration  
 National Weather Service  
 Weather Forecast Office Burlington, VT  
 1200 Airport Dr  
 South Burlington, VT 05403

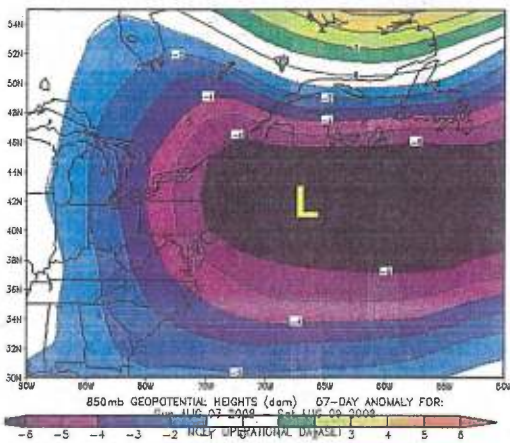
*Weather Map – July 20-26, 2008*



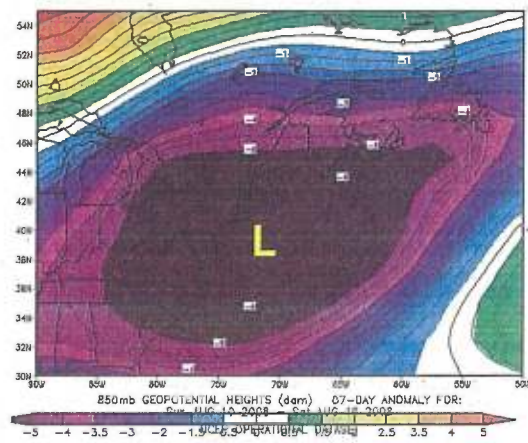
*Weather Map – July 27-August 3, 2008*



*Weather Map – August 3-9, 2008*



*Weather Map – August 10-16, 2008*



*Figure 2. Weather maps depicting weekly evolution of the low pressure system between July 20 and August 16. The blues and dark purples indicate areas with lower than normal pressure.*

**Specific Events**

**July 18 – Severe Thunderstorms**

Severe thunderstorms impacted a number of locations on July 18<sup>th</sup> as the large scale storm system was becoming established. Three areas were particularly hard hit. The first was the area in Grand Isle and Franklin Counties, from Isle La Motte east to St Albans and Georgia where straight line winds estimated at 70 to 80 mph, especially over Isle La Motte, caused considerable damage to trees and homes.

Another severe thunderstorm, likely producing winds in the 50 to 70 mph range caused damage to trees, cornfields and at least one home under renovation in Addison County.





National Oceanic and Atmospheric Administration  
National Weather Service  
Weather Forecast Office Burlington, VT  
1200 Airport Dr  
South Burlington, VT 05403

The most significant severe thunderstorm occurred across parts of Lamoille County, from near North Cambridge to just south of Waterville. A storm survey determined that the bulk of the damage was due to straight line winds in the 70 to 90 mph range which downed many hundreds of trees in a swath up to ½ mile wide and nearly 8 miles long. Several structures were also damaged. Isolated pockets of damage indicate the occurrence of a brief tornado touchdown, rated EF-1 on the Enhanced Fujita Scale, with winds around 100 mph. The last tornados in Vermont happened in July 2003 across Bennington and Windham Counties.

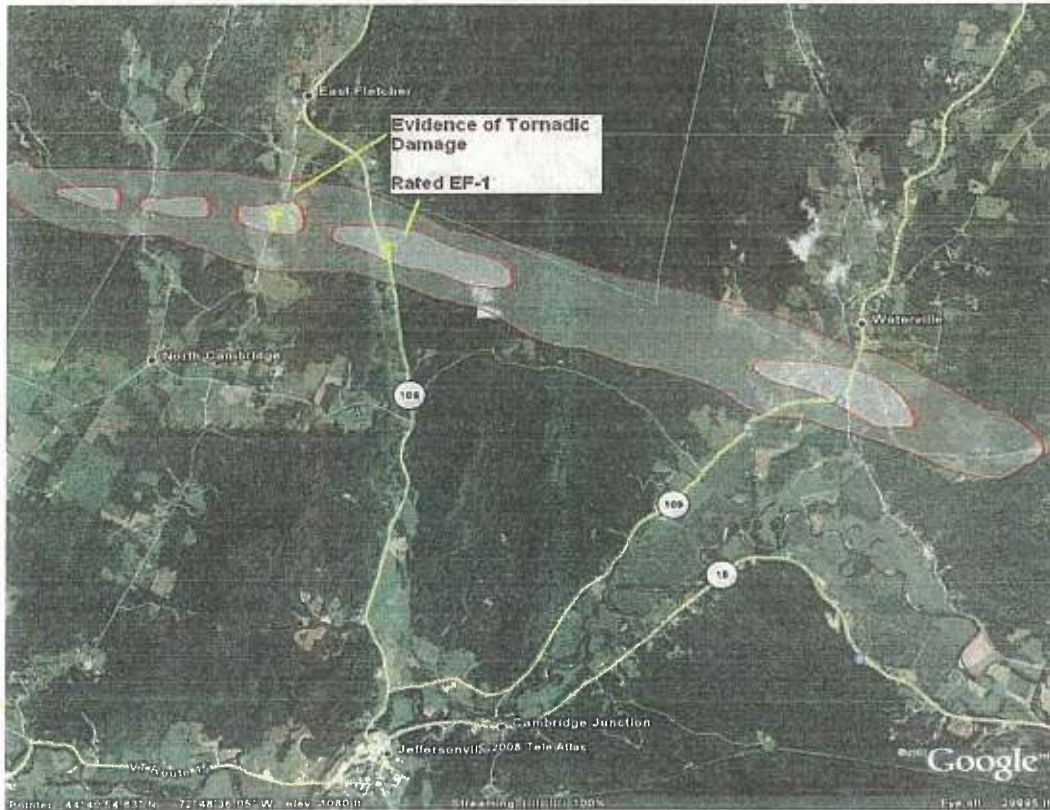


Figure 3. Damage swath for the severe thunderstorm in Lamoille County. Dark gray shading indicates areas with winds estimated to be 50-70 mph. Light gray shaded areas indicate areas that likely experienced winds of 70 to 90 mph.



National Oceanic and Atmospheric Administration  
 National Weather Service  
 Weather Forecast Office Burlington, VT  
 1200 Airport Dr  
 South Burlington, VT 05403

**July 23-24 – Widespread Rainfall & Flooding**

After several days in which scattered thunderstorms produced localized heavy rainfall each afternoon and evening across the state, a widespread moderate to heavy rainfall occurred. Total rainfall over the two days ranged from 2 to 4 inches across a large part of Vermont. Rivers and streams that were already running well above normal due to the antecedent rains, were pushed over bank-full in a number of locations. The Lamoille River at Johnson peaked 1.8 feet above flood stage, resulting in the closure of the Wrong-Way Bridge along Route 15 and the Missisquoi River at North Troy 0.8 feet above flood stage. Other flooding of streams and smaller rivers occurred across Washington, Orleans, Lamoille, and Caledonia Counties which resulted in some road closures along Routes 122, 14 and 100. In addition, a bridge and road were washed out at the Mt Norris Scout Camp temporarily stranding a large group of Boy Scouts.

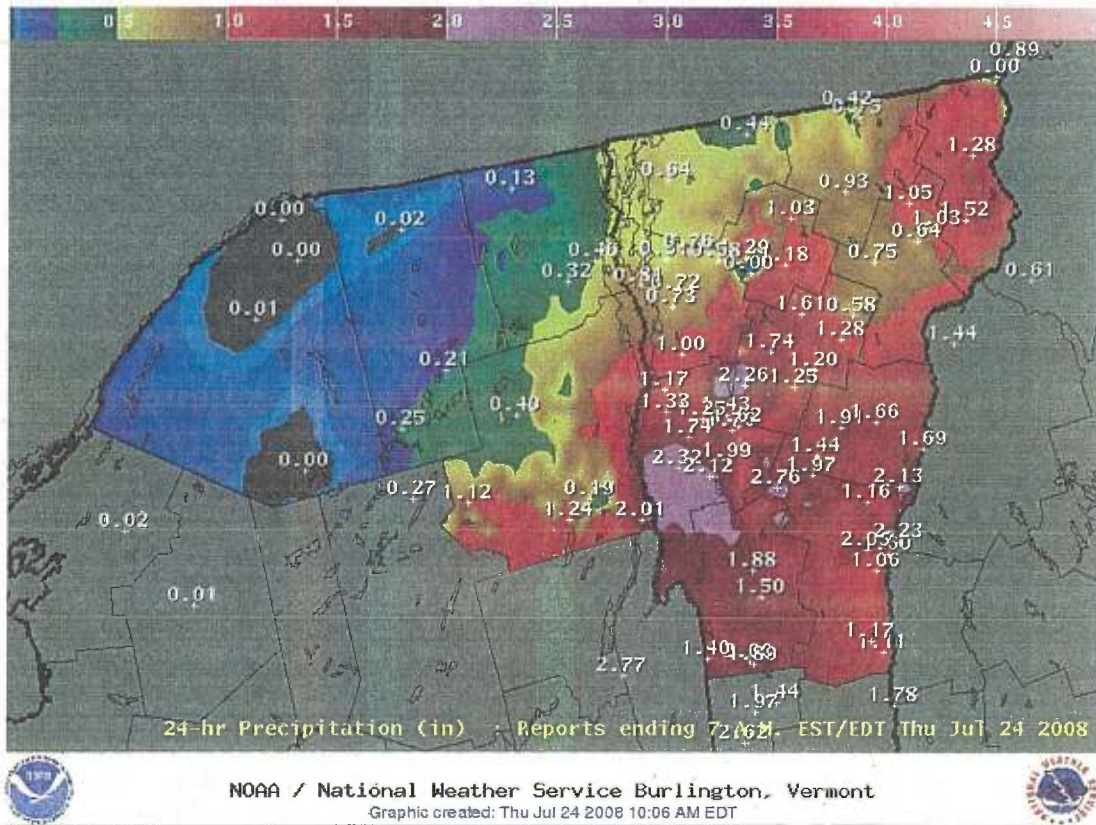


Figure 4. Total Rainfall from 7am July 23 to 7am July 24.



National Oceanic and Atmospheric Administration  
National Weather Service  
Weather Forecast Office Burlington, VT  
1200 Airport Dr  
South Burlington, VT 05403

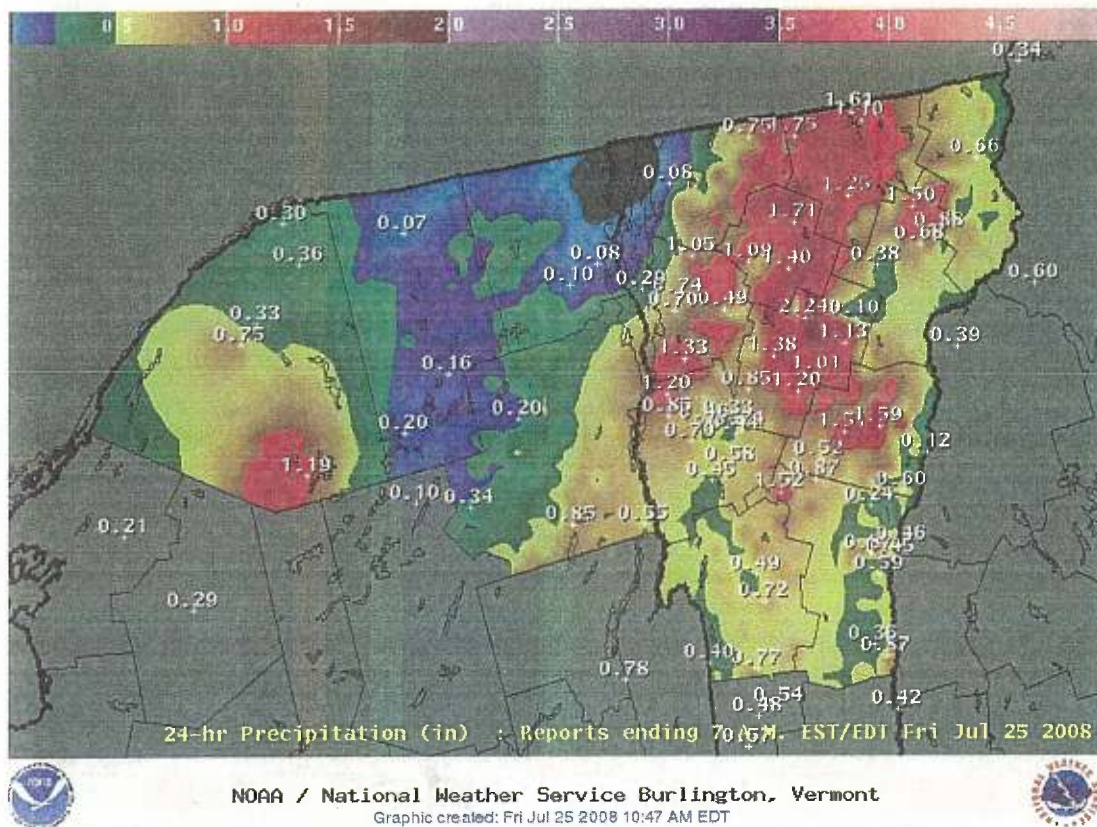


Figure 5. Total Rainfall from 7am July 24 to 7am July 25.

### July 31-August 3 – Repeated thunderstorms and heavy rainfall

During the early overnight hours of July 31st, a band of strong to severe thunderstorms moved across the northern half of the state, producing locally heavy rainfall and minor wind damage. Areas hardest impacted with 1 to 1½ inches of rain in a short period of time included Addison, Orange, Washington and Caledonia Counties. Due to the antecedent heavy rainfall of the previous two weeks, this amount of rainfall resulted in significantly more impact than it normally would. Some of the more significant flooding occurred in the Barre and Montpelier area where culverts overflowed or were significantly damaged along Routes 2, 14 and 302.

Late in the day and into the evening of August 1, additional thunderstorms affected nearly the same region with another ½ to 1 inch of rainfall. Particularly hard hit was Washington County, where upwards of 1½ to 2 inches of rain occurred near Berlin which resulted in washouts of several roads.



National Oceanic and Atmospheric Administration  
National Weather Service  
Weather Forecast Office Burlington, VT  
1200 Airport Dr  
South Burlington, VT 05403

Thunderstorms redeveloped during the afternoon of August 2, and brought more heavy rainfall and additional flooding. This time the heavy rainfall was more widespread, with some locations across northeast Vermont receiving rainfall in excess of 2 inches. Washington County was again hard hit, with widespread rainfall approaching 1 inch. This rain, on top of what had fallen the previous few days, caused additional damage with numerous reports of road washouts in Moretown, Duxbury and Middlesex. Heavy rainfall in portions of Rutland County also resulted in flooding damage due to a beaver dam collapse in Wallingford along Route 140. Flash flooding also occurred along the Hyde Park/Johnson town line in Lamoille County which washed out part of a road and isolated nearly a dozen residences.

August 3<sup>rd</sup> featured another round of showers and thunderstorms across primarily the northern half of Vermont. The heaviest totals of ½ to 1 inch occurred across Addison, Chittenden, Franklin and Orleans counties. Water was reported to be covering Route 5 in Derby.

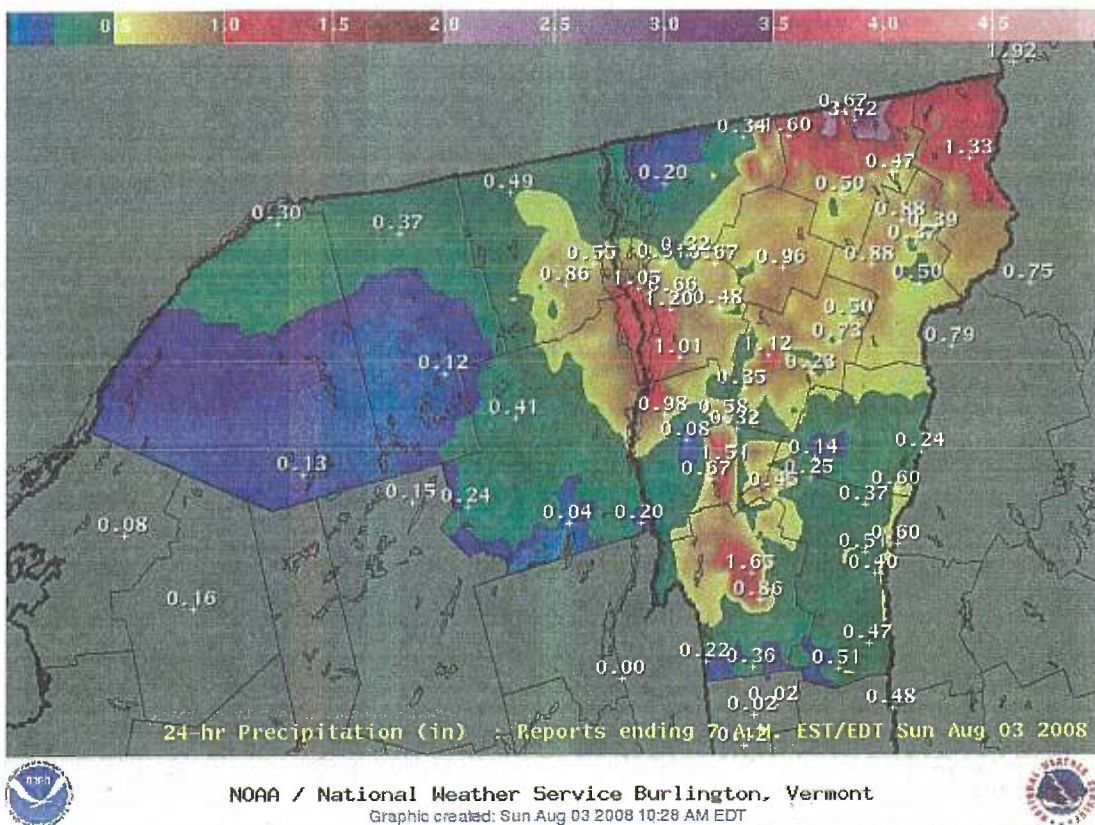


Figure 6. Total Rainfall from 7am August 2 to 7 am August 3.



**August 6-7 - Significant Flash Flooding**

As the storm system intensified over the northeast, widespread rain and thunderstorms impacted much of the state. Particularly hard hit on August 6<sup>th</sup> was Addison County where 3 to 5 inches of rain fell in a few hours. Severe damage was reported in many towns, including Hancock, Leicester and Ripton where roads and highways such as Routes 100 and 125 were closed for sometime.

Additional heavy rainfall on the order of 2 to 3 inches fell across portions of Caledonia County, and damage was reported in Danville and West Barnet where several roads were washed out. Routes 2 and 15 around Danville were also impacted. Isolated flash flooding was reported in Brandon (Rutland County) and Stockbridge (Windsor County)

On August 7<sup>th</sup>, the focus for the worst flash flooding was Orange and Washington Counties where upwards of 3 inches of rain occurred in slow moving thunderstorms during the afternoon and evening. Water flowed over many roads in the towns of Chelsea, Corinth and Montpelier forcing them to be closed. Isolated locations, such as Troy (Orleans County) and Ferrisburgh (Addison County) also suffered flash flooding damage from heavy but local rainfall. Officials in Ferrisburgh reported 2 to 3 inches in less than an hour that resulted in several roads being washed out along with a small landslide on private property near Button Bay.

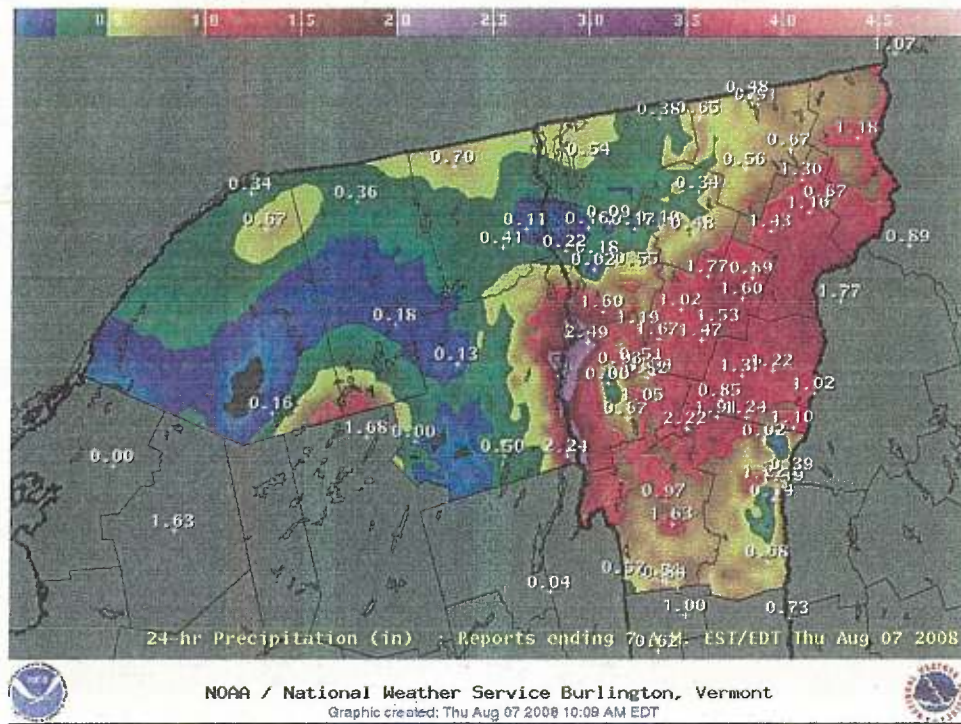


Figure 7. Total Rainfall from 7am August 6 to 7am August 7.

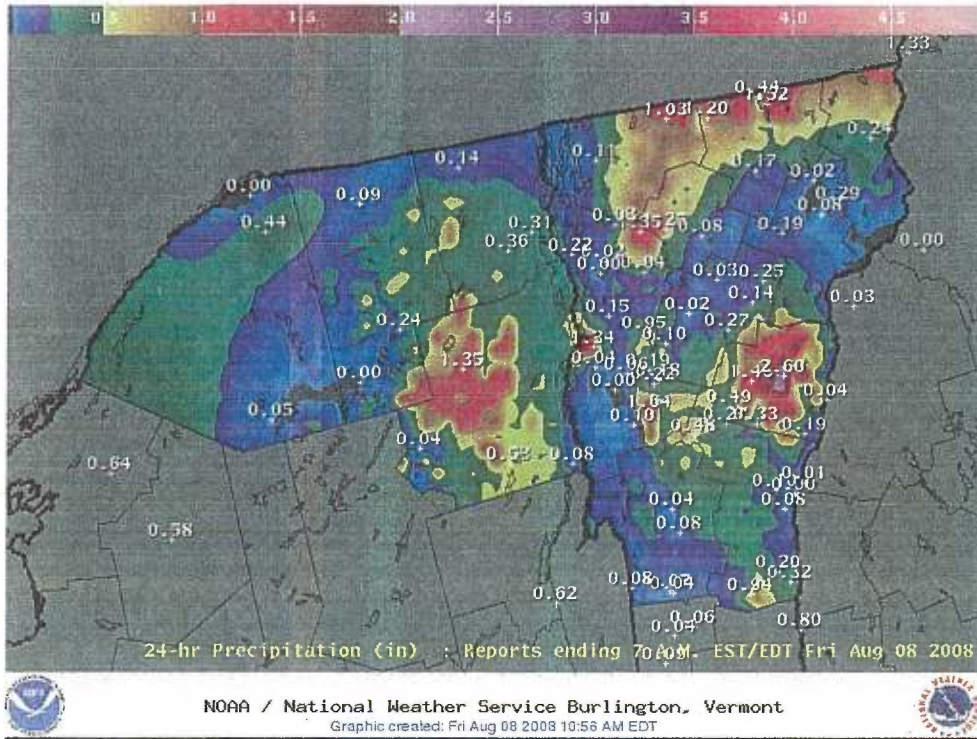


Figure 8. Total Rainfall from 7am August 7 to 7am August 8.

### ***August 10-12 – Scattered Severe Thunderstorms & Isolated Flooding***

Due to the proximity of the storm system, unsettled conditions continued with daily showers and thunderstorms developing across the state. These thunderstorms primarily produced hail and locally heavy downpours. Local rainfall of 1½ to 2 inches in a short period of time resulted in flash flooding on the afternoon of August 10<sup>th</sup> around Middletown Springs (Rutland County) where water covered portions of Route 133. During the late evening of August 11<sup>th</sup>, slow moving thunderstorms produced an estimated 1 to 2 inches of rain across portions of Washington and Lamoille Counties, and flood advisories were issued although no significant flash flooding was reported.

1. Date: **9/23/2008**
2. Agency: **Transportation**
3. Department: **Operations**
4. Program: **Public Assistance Program**
6. Legal Title of Grant: **Disaster Assistance Grant  
FEMA-1790-DR-VT**
8. Grantor and Office/Address:  
**Federal Emergency Management Agency  
99 High Street  
Boston, MA 02109-4595**
5. Type of Grant:  
 New     Supplemental  
 Renewal     Modification
7. Federal Catalog No.: **97-036**
9. State Grant Administrator:  
**Agency of Transportation  
Operations Division**
10. Grant Period: From: **July 21, 2008** To: **Completion**
11. Purpose of Grant: (attach additional sheets if needed)  
**To provide federal disaster assistance to repair damage to public facilities; state, local and non-profit, caused by the storms from July 21 to August 12, 2008. See attached pages.**
12. Impact on Existing Programs if Grant is not Accepted:  
**State and local governments and eligible non-profit agencies may have to bear the full cost of repair to public facilities, road, and bridges; the cost of debris removal; and for emergency response.**
13. Budget Information: (Expenditures expected to occur in FY09 – FY10)

EXPENDITURES:

Statutory Administrative Costs	40,251.95
Other (recovery costs - estimated)	1,205,148.00
<b>TOTAL</b>	<b>\$1,245,399.95</b>

REVENUES

State Funds (Estimates - see attached schedule)	
Emergency Relief and Assistance Fund	162,694.98
Federal Funds: (Federal share is 75% of the total damage estimate)	
Federal Projects	903,861.00
Federal Administrative	40,251.95
Other Funds: (Estimates - see attached schedule)	
Local government	138,592.02
<b>TOTAL</b>	<b>\$1,245,399.95</b>

Grant will be allocated to these appropriation expenditure accounts: (excludes local share)

<u>DEPT ID</u>	<u>Program</u>	<u>Fund</u>	<u>Amount</u>
8100005500	59700	20150	\$944,112.95
8100005500	59700	21555	\$162,694.98

REPLACED  
ERROR  
Corrected  
10/16/08

SEP 24 2008

STATE OF VERMONT  
REQUEST FOR GRANT ACCEPTANCE

FORM AA-1

14. Will grant monies be spent on one or more personal service contracts?  
 YES  NO

If YES, signature of appointing authority here indicates intent to follow current guidelines for bidding. \_\_\_\_\_

- 15a. Please list any requested Limited Service positions:

<u>Titles</u>	<u>Number of Positions</u>
NONE	
TOTAL	

- 15b. Equipment and space for these positions:  
 Is presently available.  
 Can be obtained with available funds.

16. Signature of Appointing Authority

*OK - LAL 9-23-08*

I certify that no funds have been expended or committed in anticipation of Joint Fiscal Committee approval of this grant.

*David Orr*  
(Signature)

9/24/08  
(Date)

17. Action by Governor:

Approved  
 Rejected

\_\_\_\_\_  
(Signature) (Date)

18. Secretary of Administration:

Request to JFO  
 Information to JFO

\_\_\_\_\_  
(Signature) (Date)

19. Action by Joint Fiscal Committee:

Request to be placed on JFC agenda  
 Approved (not placed on agenda in 30 days)  
 Approved by JFC  
 Rejected by JFC  
 Approved by Legislature

(Dates)  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
(Signature) (Date)



**FEMA-1790-DR-VT July 21 to August 12, 2008**

	Damage (from PDA)		
	Total	FEMA	Administrative
Addison	\$ 451,266.00	\$ 338,449.50	\$ 15,072.28
Caledonia	\$ 287,900.00	\$ 215,925.00	\$ 9,615.86
Essex	\$ 135,934.00	\$ 101,950.50	\$ 4,540.20
Lamoille	\$ 143,700.00	\$ 107,775.00	\$ 4,799.58
Orange	\$ 113,717.00	\$ 85,287.75	\$ 3,798.15
Washington	\$ 296,502.00	\$ 222,376.50	\$ 9,903.17
Windsor	\$ 227,395.00	\$ 170,546.25	\$ 7,594.99
	<u>\$ 1,205,148.00</u>	<u>\$ 903,861.00</u>	<u>\$ 40,251.95</u>

\$ 903,861.00 = Total FEMA support to applicants  
\$ 40,251.95 = Total Administrative support to State  
 \$ 944,112.95 = Total anticipated FEMA Support for PA

State Funds (ERAF): Est. Avg (13.5%) - Towns receive either 12.5% or 15% from ERAF  
 ERAF: \$ 162,694.98

Applicant Share: \$ 138,592.02

Total (federal, state, & local): \$ 1,245,399.95

*error corrected 10/16/08*

STATE OF VERMONT  
REQUEST FOR GRANT ACCEPTANCE

FORM AA-1

Additional Information:

STATE OF VERMONT  
GRANT ACCEPTANCE FORM

JFO # 2350

DATE: October 16, 2008

DEPARTMENT: AOT - Operations

GRANT/DONATION (brief description and purpose):

FEMA Disaster Assistance Grant FEMA-1790-DR-VT  
July 21 to August 12 storms – Addison, Caledonia, Essex, Lamoille, Orange,  
Washington, and Windsor Counties. Statewide for hazard mitigation only.

GRANTOR/DONOR: FEMA

GRANT PERIOD: N/A

AMOUNT/VALUE: \$1,297,634.73

POSITIONS REQUESTED (LIMITED SERVICE): 0

ANY ON-GOING, LONG-TERM COSTS TO THE STATE: None

COMMENTS:

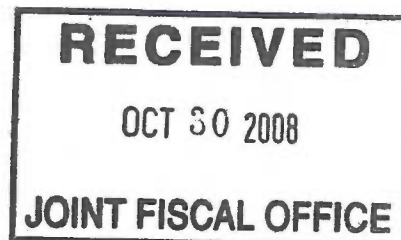
State match of \$223,615.89 will be needed. (ERAF).

Total Federal funds is \$1,297,634.73 (75% of current damage estimate plus \$55,324.23 administrative.)

*JA 10/16/08*

DEPT. FINANCE AND MANAGEMENT:  
SECRETARY OF ADMINISTRATION:  
SENT TO JOINT FISCAL OFFICE:

(INITIAL) *JK 10/20/08*  
(INITIAL) *ARM 10/21/08*  
(DATE) *10/27/08*



**STATE OF VERMONT REQUEST FOR GRANT ACCEPTANCE** (Form AA-1)

BASIC GRANT INFORMATION				
<b>1. Agency:</b>		Transportation		
<b>2. Department:</b>		Operations		
<b>3. Program:</b>		Public Assistance		
<b>4. Legal Title of Grant:</b>		Disaster Assistance Grant FEMA 1790-DR-VT		
<b>5. Federal Catalog #:</b>		97-036		
<b>6. Grant/Donor Name and Address:</b> Federal Emergency Management Agency 99 High Street Boston, MA 02109-4595				
<b>7. Grant Period:</b>		<b>From:</b> 7/21/2008	<b>To:</b> 7/21/2012	
<b>8. Purpose of Grant:</b> To provide federal disaster assistance to repair damage to public facilities (state, local, and non-profit) caused by storms from July 21 to August 12, 2008.				
<b>9. Impact on existing program if grant is not Accepted:</b> State and local governments and eligible non-profit agencies may have to bear the full cost of repair to public facilities (roads, bridges, buildings), debris removal, and emergency response.				
10. BUDGET INFORMATION				
	<b>SFY 1</b>	<b>SFY 2</b>	<b>SFY 3</b>	<b>Comments</b>
<b>Expenditures:</b>	<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011</b>	
Personal Services	\$	\$	\$	
Operating Expenses	\$	\$	\$	
Grants	\$855,869	\$427,935	\$427,934	
<b>Total</b>	\$855,869	\$427,935	\$427,934	
<b>Revenues:</b>				
State Funds:	\$111,808	\$55,904	\$55,904	
Cash	\$	\$	\$	
In-Kind	\$	\$	\$	
Federal Funds:	\$648,817	\$324,409	\$324,408	
(Direct Costs)	\$	\$	\$	
(Statewide Indirect)	\$	\$	\$	
(Departmental Indirect)	\$	\$	\$	
Other Funds:	\$	\$	\$	
Grant (source Local share)	\$95,244	\$47,622	\$47,622	
<b>Total</b>	\$855,869	\$427,935	\$427,934	
<b>Appropriation No:</b>		<b>Amount:</b>	\$	
	8100005500-59700-20150		\$1,297,635	
	8100005500-59700-21555		\$223,616	

**STATE OF VERMONT REQUEST FOR GRANT ACCEPTANCE** (Form AA-1)

		\$
		\$
		\$
		\$
	<b>Total</b>	\$

**PERSONAL SERVICE INFORMATION**

**11. Will monies from this grant be used to fund one or more Personal Service Contracts?**  Yes  No  
 If "Yes", appointing authority must initial here to indicate intent to follow current competitive bidding

Appointing Authority Name: \_\_\_\_\_ Agreed by: \_\_\_\_\_ (initial)

12. Limited Service Position Information:	# Positions	Title
	0	
<b>Total Positions</b>	0	

**12a. Equipment and space for these positions:**  Is presently available.  Can be obtained with available funds.

**13. AUTHORIZATION AGENCY/DEPARTMENT**

I certify that no funds have been expended or committed in anticipation of Joint Fiscal Committee Approval of this grant:

Signature: <i>David Deie</i>	Date: 10/16/2008
Title: Secretary of Transportation	
Signature:	Date:
Title:	

**14. ACTION BY GOVERNOR**

<input checked="" type="checkbox"/> Accepted	<i>[Signature]</i> (Governor's signature)	10/24/08 Date:
<input type="checkbox"/> Rejected		

**15. SECRETARY OF ADMINISTRATION**

<input type="checkbox"/> Request to JFO	<i>Ronda P. Moss</i> (Secretary's signature or designee)	10/21/08 Date:
<input type="checkbox"/> Information to JFO		

**16. DOCUMENTATION REQUIRED**

Required GRANT Documentation	
<input type="checkbox"/> Request Memo	<input type="checkbox"/> Request Memo
<input type="checkbox"/> Dept. project approval (if applicable)	<input type="checkbox"/> Dept. project approval (if applicable)
<input type="checkbox"/> Notice of Award	<input type="checkbox"/> Notice of Donation (if any)
<input type="checkbox"/> Grant Agreement	<input type="checkbox"/> Grant (Project) Timeline (if applicable)
<input type="checkbox"/> Grant Budget	<input type="checkbox"/> Request for Extension (if applicable)

**FEMA-1790-DR-VT July 21 to August 12, 2008**

	Damage (from PDA)		
	Total	FEMA	Administrative
Addison	\$ 451,266.00	\$ 338,449.50	\$ 15,072.28
Caledonia	\$ 287,900.00	\$ 215,925.00	\$ 9,615.86
Essex	\$ 135,934.00	\$ 101,950.50	\$ 4,540.20
Lamoille	\$ 143,700.00	\$ 107,775.00	\$ 4,799.58
Orange	\$ 113,717.00	\$ 85,287.75	\$ 3,798.15
Washington	\$ 296,502.00	\$ 222,376.50	\$ 9,903.17
Windsor	\$ 227,395.00	\$ 170,546.25	\$ 7,594.99
	<u>\$ 1,656,414.00</u>	<u>\$ 1,242,310.50</u>	<u>\$ 55,324.23</u>

\$ 1,242,310.50 = Total FEMA support to applicants

\$ 55,324.23 = Total Administrative support to State

\$ 1,297,634.73 = Total anticipated FEMA Support for PA

State Funds (ERAF): Est. Avg (13.5%) - Towns receive either 12.5% or 15% from ERAF


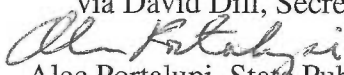
ERAF: \$ 223,615.89

Applicant Share: \$ 190,487.61

Total (federal, state, & local): \$ 1,711,738.23

**State of Vermont**  
**Operations Division**  
One National Life Drive  
Montpelier, VT 05633-5001  
[sam.lewis@state.vt.us](mailto:sam.lewis@state.vt.us)

*Agency of Transportation*  
**Maintenance Programs**  
[phone] 802-828-2709  
[fax] 802-828-2848  
[ttd] 800-253-0191

**To:** Neale Lunderville, Secretary of Administration  
(Governor's Authorized Representative, FEMA PA Program)  
via David Dill, Secretary of Transportation   
**From:**  Alec Portalupi, State Public Assistance Officer, FEMA PA Program  
**Date:** September 23, 2008  
**Subject:** FEMA 1790-DR-VT (July 21 to August 12, 2008 storms)

We are requesting your approval and signature on the attached documents for the State to apply for and receive federal assistance under the subject federal disaster declaration.

If you have any questions about these documents or need additional information, please contact Alec Portalupi at 828-3889. Thank you.

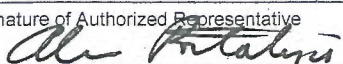
Attachments

Standard Form 424  
State of Vermont Form AA-1  
Various Correspondence between State and FEMA Region 1

SEP 23 2008

<b>PA-01-VT-1790</b>	
Applicant Name: Vermont Agency of Transportation	Application Title: SF-424 for Disaster Number 1790
Period of Performance Start: 09-12-2008	Period of Performance End:

**Grant Application - SF424**

<b>APPLICATION FOR FEDERAL ASSISTANCE</b>		<b>2. DATE SUBMITTED</b> 09-16-2008	Applicant Identifier
<b>1. TYPE OF SUBMISSION</b>  N/A	Pre-Application	<b>3. DATE RECEIVED BY STATE</b> N/A	State Application Identifier N/A
	N/A	<b>4. DATE RECEIVED BY FEDERAL AGENCY</b> N/A	Federal Identifier
<b>5. APPLICANT INFORMATION</b>			Organizational Unit:
Legal Name: Vermont Agency of Transportation			Department: Vermont Agency of Transportation
Organizational DUNS: 809376296-			Division: Operations
Address Street: One National Life Drive  City: Montpelier County: Washington State: VT Zip Code: 05633 - 5001 Country: United States of America			<b>Name and telephone number of person to be contacted on matters involving this application (give area code)</b> Prefix: Mr First Name: Norman Middle Initial: Last Name: Portalupi Suffix: Email: alec.portalupi@state.vt.us Phone Number: 802-828-3889 Fax Number: 802-828-2848
<b>6. FEDERAL EMPLOYER IDENTIFICATION NUMBER (EIN)</b> 03-6000274			<b>7. TYPE OF APPLICANT</b> State Government
<b>8. TYPE OF APPLICATION</b> Grant Application (SF-424)			<b>9. NAME OF FEDERAL AGENCY</b> Federal Emergency Management Agency
<b>10. CATALOG OF FEDERAL DOMESTIC ASSISTANCE NUMBERS</b> 97.036 CFDA TITLES: PUBLIC ASSISTANCE			<b>11. DESCRIPTIVE TITLE OF APPLICANT'S PROJECT</b> N/A
<b>12. AREAS AFFECTED BY PROJECT</b> (cities, counties, states, etc.)  Caledonia, Essex, Washington, Windsor, Addison, Orange, Lamoille, Statewide			
<b>13. PROPOSED PROJECT:</b> Start Date: End Date:			<b>14. CONGRESSIONAL DISTRICTS OF:</b> a. Applicant: b. Project:
<b>15. ESTIMATED FUNDING</b>			<b>16. IS APPLICATION SUBJECT TO REVIEW BY STATE EXECUTIVE ORDER 12372 PROCESS?</b> N/A
a. Federal		\$ 944113	<b>17. IS THE APPLICANT DELINQUENT ON ANY FEDERAL DEBT?</b> N/A
b. Applicant		\$ 0	
c. State		\$ 162695	
d. Local		\$ 138592	
e. Other		\$ 0	
f. Program Income		\$ 0	
g. TOTAL		\$ 1245400	
<b>18. TO THE BEST OF MY KNOWLEDGE AND BELIEF, ALL DATA IN THIS APPLICATION ARE TRUE AND CORRECT, THE DOCUMENT HAS BEEN DULY AUTHORIZED BY GOVERNING BODY OF THE APPLICANT AND THE APPLICANT WILL COMPLY WITH THE ATTACHED ASSURANCES IF THE ASSISTANCE IS REQUIRED.</b>			
a. Name of Authorized Representative Norman Portalupi	b. Title State Public Assistance Officer	c. Telephone Number 8028283889	
d. Signature of Authorized Representative 		e. Date Signed 9-18-08	



# DECLARED SEPTEMBER 12, 2008

## SUMMARY

In the event of a declaration, the following information applies:

STATE: Vermont  
NUMBER: FEMA-1790-DR  
INCIDENT: Severe Storms and Flooding  
INCIDENT PERIOD: July 21 to August 12, 2008  
DATE REQUESTED BY GOVERNOR: August 25, 2008  
FEDERAL COORDINATING OFFICER: Philip E. Parr  
National FCO Program

### DESIGNATIONS AND TYPES OF ASSISTANCE:

#### INDIVIDUAL ASSISTANCE (Assistance to individuals and households):

None.

PUBLIC ASSISTANCE (Assistance to State and local governments and certain private nonprofit organizations for emergency work and the repair or replacement of disaster-damaged facilities):

Addison, Caledonia, Essex, Lamoille, Orange, Washington, and Windsor Counties.

HAZARD MITIGATION GRANT PROGRAM (Assistance to State and local governments and certain private nonprofit organizations for actions taken to prevent or reduce long term risk to life and property from natural hazards):

All counties in the State of Vermont are eligible to apply for assistance under the Hazard Mitigation Grant Program.

OTHER: Additional designations may be made at a later date after further evaluation.

JAMES H. DOUGLAS  
Governor



State of Vermont  
OFFICE OF THE GOVERNOR

August 25, 2008

The Honorable George W. Bush  
President of the United States  
The White House  
Washington, D.C. 20500

Through: Arthur W. Cleaves  
Regional Administrator  
FEMA Region I  
Boston, Massachusetts 02110

Dear Mr. President:

Under the provisions of Section 401 of the Robert T. Stafford Disaster Relief and Emergency Assistance Act, 42 U.S.C. §§ 5121-5206 (Stafford Act), and implemented by 44 CFR § 206.36, I request that you declare a major disaster for the State of Vermont as a result of excessive rainfall that caused flash flooding and extensive road damage in certain areas throughout the State on and from July 21, 2008 through August 12, 2008. The Vermont counties impacted to the highest degree of eligible damage include Addison, Caledonia, Essex, Lamoille, Orange, Washington and Windsor. Initial damage estimates exceed \$1.66 million dollars. The damage was widespread due to an extended storm system that impacted seven of Vermont's fourteen counties.

In response to the situation, I have taken appropriate action under State law and directed the execution of the State Emergency Operations Plan through the Commissioner of the Department of Public Safety beginning on July 21, 2008 and continuing in operation through August 12, 2008 in accordance with Section 401 of the Stafford Act. In accordance with the State Emergency Operations Plan, the following State Agency Support functions were activated: Department of Public Safety, Vermont Emergency Management Division and Vermont State Police, Vermont Agency of Transportation, Vermont Agency of Human Services, Vermont Department of Health, and the American Red Cross. The communities of Ferrisburgh, Leicester, Middlebury, Northfield, Ripton, Rochester, Troy, Williamstown and Wolcott, Vermont each requested a local declaration of emergency due to excessive damage to their public infrastructure.

The State of Vermont has a State Mitigation Plan that was approved by FEMA in November of 2007. Approximately 85% of Vermont communities have FEMA approved local mitigation plans with the rest in various forms of draft stages.

Joint Federal, State, and local surveys of the damaged areas were conducted several times between July 21 and August 12 in different counties of the state:

Lamoille	07/31/08	Orange	08/08/08
Caledonia	07/31/08	Essex	08/12/08
Washington	08/06/08	Windsor	08/14/08
Addison	08/08/08		

Preliminary assessments by State and local officials indicated the most severe impacts were to town and state roads that received road damage by flash floods.

I have determined that this incident is of such severity and magnitude that effective response is beyond the capabilities of the State and the affected local governments and that supplementary Federal assistance is necessary. I am specifically requesting Federal assistance utilizing the following federal programs: Public Assistance for the counties of Addison, Caledonia, Essex, Lamoille, Orange, Washington and Windsor, Vermont. The State of Vermont also requests that the Hazard Mitigation Grant Program (Section 404), available throughout the State.

Preliminary estimates of the types and amount of assistance needed under the Stafford Act are tabulated in Enclosure A.

The following information is furnished on the nature and amount of State and local resources that have been or will be used to alleviate the conditions of this disaster: The following State agencies were directed to provide immediate assistance as a result of flash flooding: Department of Public Safety, Vermont Emergency Management Division and Vermont State Police, State Agency of Transportation, Vermont Agency of Human Services, Vermont Department of Health, Vermont National Guard and the American Red Cross. The flash flooding that devastated seven out of fourteen counties resulted from a storm system that according to the National Weather Service officially began on July 18, 2008 and went through August 12, 2008. A description of the storm system prepared by the National Weather Service office that serves most of Vermont is attached as Enclosure B. The damage from this storm that affected Vermont began on July 18 (FEMA-1784-DR), skipped a few days and then began again in earnest for the next three and a half weeks, between July 21 through August 12. Many communities were impacted several times and were not able to repair damaged infrastructure before the next storm cells caused additional damage. Some communities were in the process of recovering from another storm, FEMA-1778-DR, when they received additional damage from the latest storm.

Town and State road crews worked for several days to repair the damage to public roads and to open access routes for emergency vehicles several times. There was not much debris clean-up as most debris washed down the river systems. Unfortunately, two lives were lost as a result of the storms during this time period; one due to a house fire after being struck by lightning and in a separate incident, a boater was lost in stormy waters. Several private properties received major damage but did not meet the threshold to seek SBA Disaster Assistance or an IA declaration. Two camps with summer campers were evacuated due to

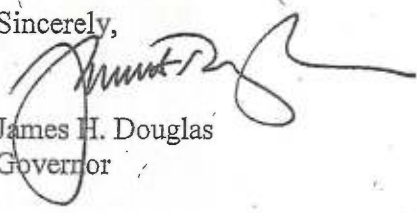
Honorable George W. Bush  
August 25, 2008  
Page 3

impassable and dangerous roads. Another summer camp also experienced destructive flash floods and heavy losses.

I certify that for this major disaster, the State and local governments will assume all applicable non-Federal share of costs required by the Stafford Act. Total state/local share expenditures are expected to exceed \$414,000.

I have designated Barbara Farr, Director of Vermont Emergency Management, as the State Coordinating Officer for this request. Ms. Farr will work with the Federal Emergency Management Agency in damage assessments and may provide further information or justification on my behalf.

Sincerely,



James H. Douglas  
Governor

Enclosures

VTrans County Rollup: 21 July to 12 August 2008, Strong Winds, Heavy Rain, Flooding

County	A - Debris Removal	B - Protective Measures	C - Roads & Bridges	D - Water Control Facilities	E - Buildings & Equipment	F - Utilities	G - Parks, Recreation	Total	Population	Total Per Capita
ADDISON		11,200	440,066					451,266	35,974	12.54
BENNINGTON								0	36,994	0.00
CALEDONIA			287,900					287,900	29,702	9.69
CHITTENDEN								0	146,571	0.00
ESSEX			135,934					135,934	6,459	21.05
FRANKLIN								0	45,417	0.00
GRAND ISLE								0	6,901	0.00
LAMOILLE		5,000	138,700					143,700	23,233	6.19
ORANGE			113,717					113,717	28,226	4.03
ORLEANS								0	26,277	0.00
RUTLAND								0	63,400	0.00
WASHINGTON		5,000	291,502					296,502	58,039	5.11
WINDHAM								0	44,216	0.00
WINDSOR		2,000	222,395			1,000	2,000	227,395	57,418	3.96
		23,200	1,630,214	0	0	1,000	2,000	1,656,414		

Prepared by A. Portalupi

08/25/2008

**ENCLOSURE A**



August 19, 2008

MEMORANDUM FOR: Barbara Farr, Director Vermont Emergency Management

FROM: Andy Nash, Meteorologist-in-Charge, National Weather Service Burlington VT

SUBJECT: Weather Summary – Significant Wet Period, July 18 to August 12, 2008

**Summary**

Beginning in mid July, a persistent atmospheric system developed across the eastern Great Lakes resulting in rounds of severe weather and heavy rainfall across a large portion of Vermont. This repeated rainfall resulted in many areas of the state, especially central and northeastern sections, enduring their wettest July on record. The system continued to strengthen into early August as it drifted over and then to the south of Vermont. This strengthening resulted in renewed heavy rainfall and significant flash flooding.

**Table 1. Rainfall Totals (in inches) at select locations for the period July 15-August 14, 2008**

Mt Mansfield (Lamoille County)	14.33
South Lincoln (Addison County)	14.05
Corinth (Orange County)	13.28
East Haven (Essex County)	12.92
Worcester (Washington County)	12.84
Montpelier (Washington County)	12.46
Sutton (Caledonia County)	12.21
Saint Johnsbury (Caledonia County)	11.77
Island Pond (Essex County)	11.77
Jay Peak (Orleans County)	11.69
Bethel (Windsor County)	9.08

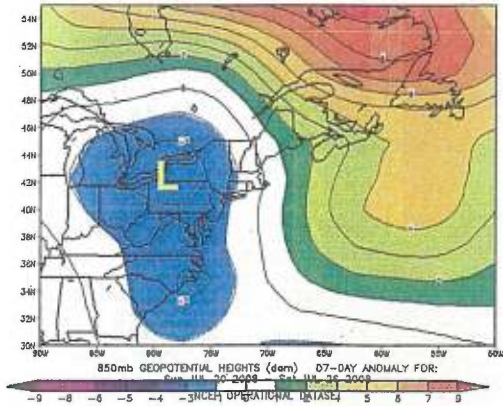


*Figure 1. Rainfall Amounts for the 30-Day period ending August 17. Areas in purple indicate rainfall in excess of 10 inches.*

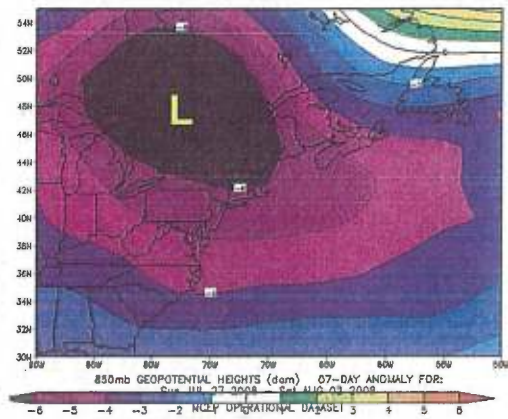


National Oceanic and Atmospheric Administration  
 National Weather Service  
 Weather Forecast Office Burlington, VT  
 1200 Airport Dr  
 South Burlington, VT 05403

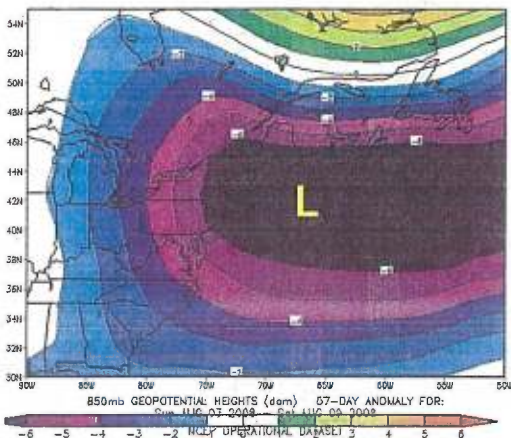
*Weather Map – July 20-26, 2008*



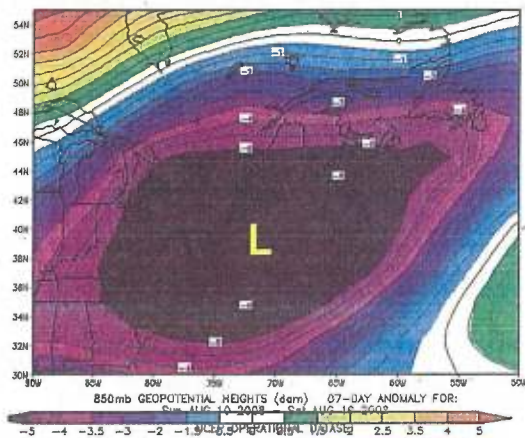
*Weather Map – July 27-August 3, 2008*



*Weather Map – August 3-9, 2008*



*Weather Map – August 10-16, 2008*



*Figure 2. Weather maps depicting weekly evolution of the low pressure system between July 20 and August 16. The blues and dark purples indicate areas with lower than normal pressure.*

**Specific Events**

**July 18 – Severe Thunderstorms**

Severe thunderstorms impacted a number of locations on July 18<sup>th</sup> as the large scale storm system was becoming established. Three areas were particularly hard hit. The first was the area in Grand Isle and Franklin Counties, from Isle La Motte east to St Albans and Georgia where straight line winds estimated at 70 to 80 mph, especially over Isle La Motte, caused considerable damage to trees and homes.

Another severe thunderstorm, likely producing winds in the 50 to 70 mph range caused damage to trees, cornfields and at least one home under renovation in Addison County.



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National Weather Service  
Weather Forecast Office Burlington, VT  
1200 Airport Dr  
South Burlington, VT 05403

The most significant severe thunderstorm occurred across parts of Lamoille County, from near North Cambridge to just south of Waterville. A storm survey determined that the bulk of the damage was due to straight line winds in the 70 to 90 mph range which downed many hundreds of trees in a swath up to ½ mile wide and nearly 8 miles long. Several structures were also damaged. Isolated pockets of damage indicate the occurrence of a brief tornado touchdown, rated EF-1 on the Enhanced Fujita Scale, with winds around 100 mph. The last tornados in Vermont happened in July 2003 across Bennington and Windham Counties.



Figure 3. Damage swath for the severe thunderstorm in Lamoille County. Dark gray shading indicates areas with winds estimated to be 50-70 mph. Light gray shaded areas indicate areas that likely experienced winds of 70 to 90 mph.





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**July 23-24 – Widespread Rainfall & Flooding**

After several days in which scattered thunderstorms produced localized heavy rainfall each afternoon and evening across the state, a widespread moderate to heavy rainfall occurred. Total rainfall over the two days ranged from 2 to 4 inches across a large part of Vermont. Rivers and streams that were already running well above normal due to the antecedent rains, were pushed over bank-full in a number of locations. The Lamoille River at Johnson peaked 1.8 feet above flood stage, resulting in the closure of the Wrong-Way Bridge along Route 15 and the Missisquoi River at North Troy 0.8 feet above flood stage. Other flooding of streams and smaller rivers occurred across Washington, Orleans, Lamoille, and Caledonia Counties which resulted in some road closures along Routes 122, 14 and 100. In addition, a bridge and road were washed out at the Mt Norris Scout Camp temporarily stranding a large group of Boy Scouts.

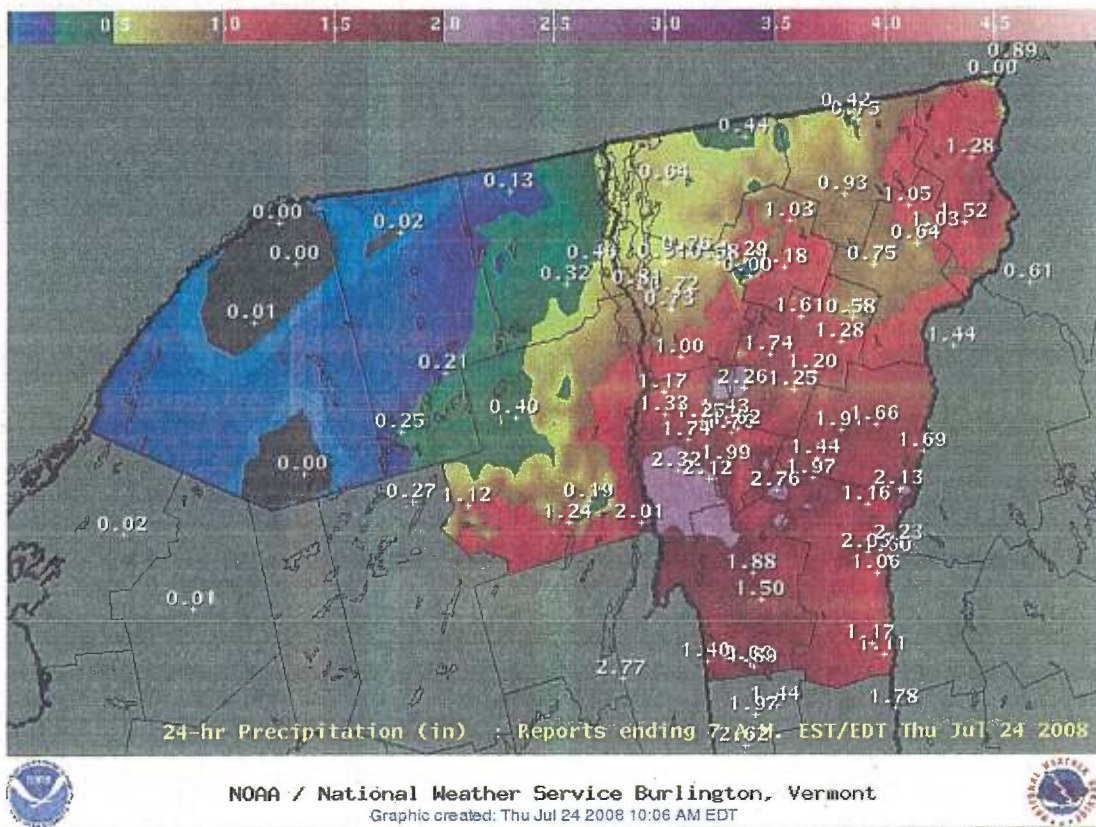


Figure 4. Total Rainfall from 7am July 23 to 7am July 24.



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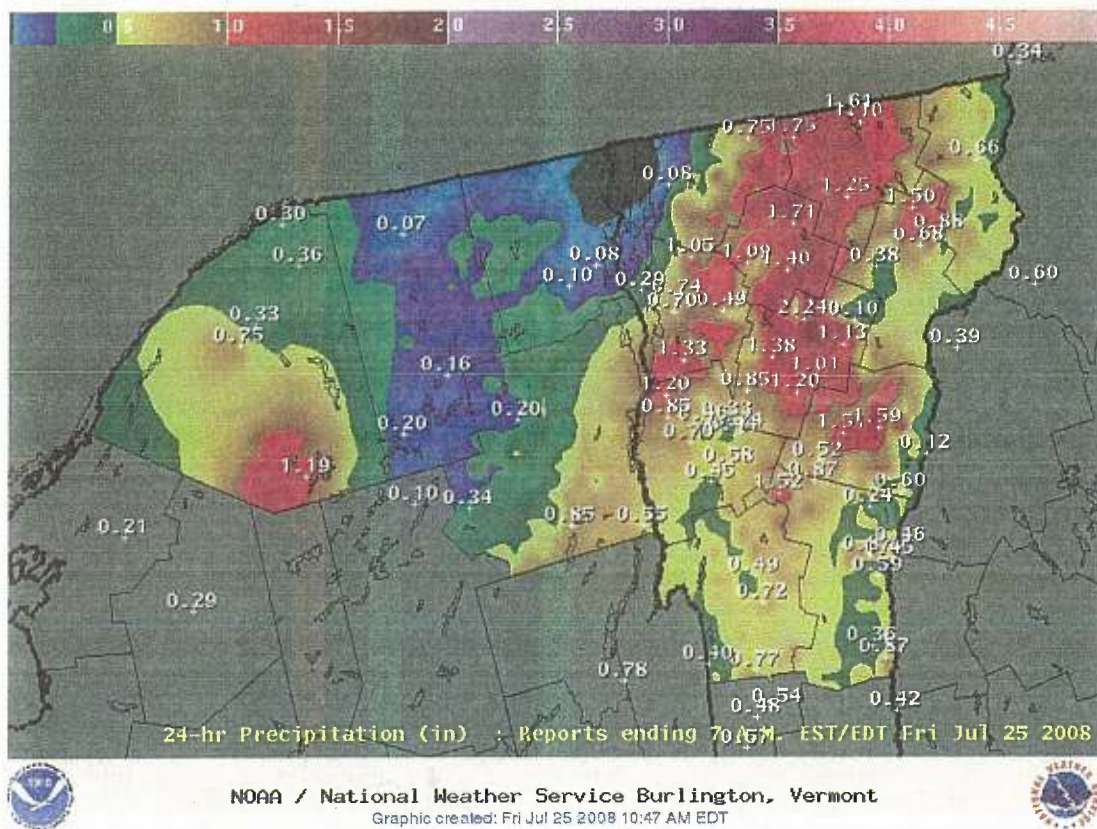


Figure 5. Total Rainfall from 7am July 24 to 7am July 25.

### July 31-August 3 – Repeated thunderstorms and heavy rainfall

During the early overnight hours of July 31st, a band of strong to severe thunderstorms moved across the northern half of the state, producing locally heavy rainfall and minor wind damage. Areas hardest impacted with 1 to 1½ inches of rain in a short period of time included Addison, Orange, Washington and Caledonia Counties. Due to the antecedent heavy rainfall of the previous two weeks, this amount of rainfall resulted in significantly more impact than it normally would. Some of the more significant flooding occurred in the Barre and Montpelier area where culverts overflowed or were significantly damaged along Routes 2, 14 and 302.

Late in the day and into the evening of August 1, additional thunderstorms affected nearly the same region with another ½ to 1 inch of rainfall. Particularly hard hit was Washington County, where upwards of 1½ to 2 inches of rain occurred near Berlin which resulted in washouts of several roads.



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Thunderstorms redeveloped during the afternoon of August 2, and brought more heavy rainfall and additional flooding. This time the heavy rainfall was more widespread, with some locations across northeast Vermont receiving rainfall in excess of 2 inches. Washington County was again hard hit, with widespread rainfall approaching 1 inch. This rain, on top of what had fallen the previous few days, caused additional damage with numerous reports of road washouts in Moretown, Duxbury and Middlesex. Heavy rainfall in portions of Rutland County also resulted in flooding damage due to a beaver dam collapse in Wallingford along Route 140. Flash flooding also occurred along the Hyde Park/Johnson town line in Lamoille County which washed out part of a road and isolated nearly a dozen residences.

August 3<sup>rd</sup> featured another round of showers and thunderstorms across primarily the northern half of Vermont. The heaviest totals of ½ to 1 inch occurred across Addison, Chittenden, Franklin and Orleans counties. Water was reported to be covering Route 5 in Derby.

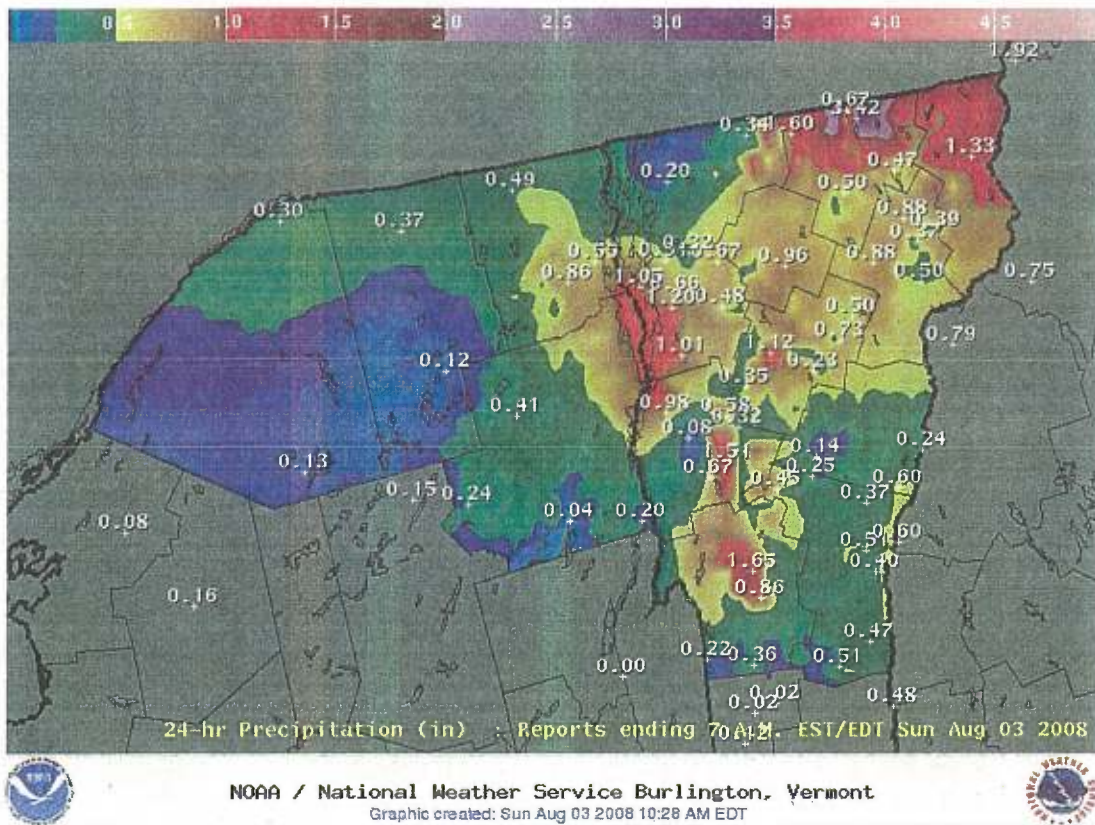


Figure 6. Total Rainfall from 7am August 2 to 7 am August 3.



**August 6-7 - Significant Flash Flooding**

As the storm system intensified over the northeast, widespread rain and thunderstorms impacted much of the state. Particularly hard hit on August 6<sup>th</sup> was Addison County where 3 to 5 inches of rain fell in a few hours. Severe damage was reported in many towns, including Hancock, Leicester and Ripton where roads and highways such as Routes 100 and 125 were closed for sometime.

Additional heavy rainfall on the order of 2 to 3 inches fell across portions of Caledonia County, and damage was reported in Danville and West Barnet where several roads were washed out. Routes 2 and 15 around Danville were also impacted. Isolated flash flooding was reported in Brandon (Rutland County) and Stockbridge (Windsor County)

On August 7<sup>th</sup>, the focus for the worst flash flooding was Orange and Washington Counties where upwards of 3 inches of rain occurred in slow moving thunderstorms during the afternoon and evening. Water flowed over many roads in the towns of Chelsea, Corinth and Montpelier forcing them to be closed. Isolated locations, such as Troy (Orleans County) and Ferrisburgh (Addison County) also suffered flash flooding damage from heavy but local rainfall. Officials in Ferrisburgh reported 2 to 3 inches in less than an hour that resulted in several roads being washed out along with a small landslide on private property near Button Bay.

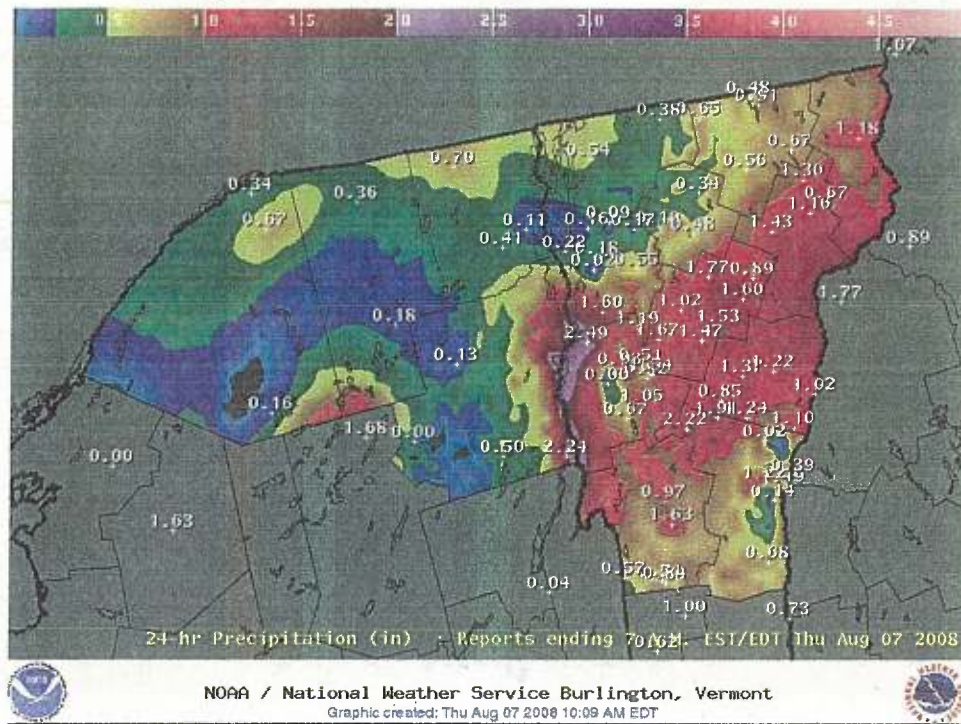


Figure 7. Total Rainfall from 7am August 6 to 7am August 7.



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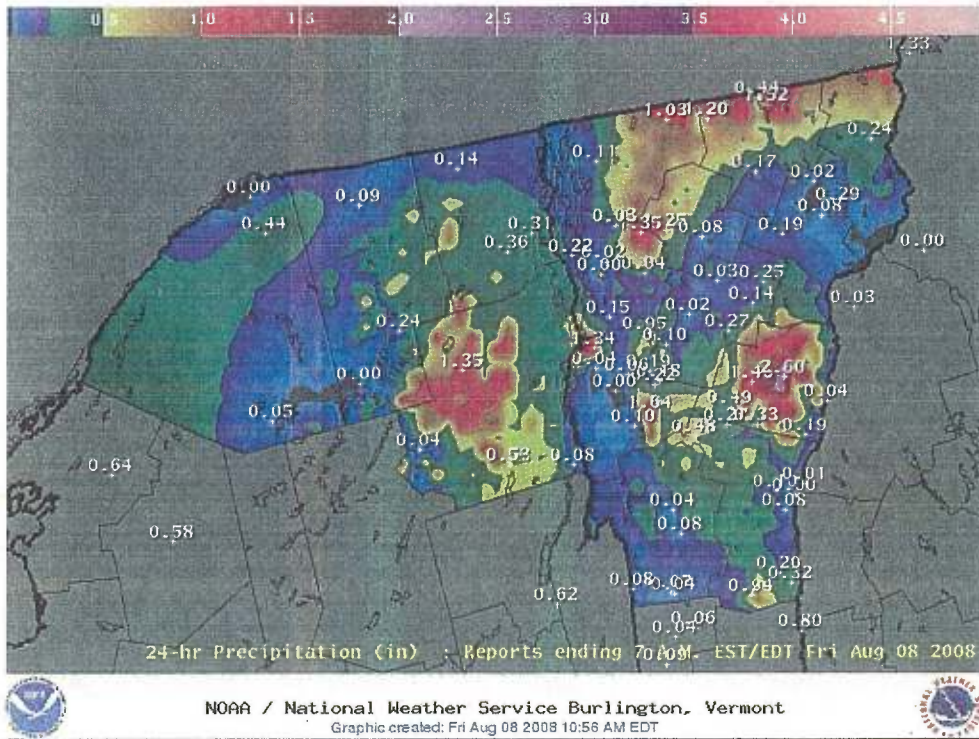


Figure 8. Total Rainfall from 7am August 7 to 7am August 8.

### August 10-12 – Scattered Severe Thunderstorms & Isolated Flooding

Due to the proximity of the storm system, unsettled conditions continued with daily showers and thunderstorms developing across the state. These thunderstorms primarily produced hail and locally heavy downpours. Local rainfall of 1½ to 2 inches in a short period of time resulted in flash flooding on the afternoon of August 10<sup>th</sup> around Middletown Springs (Rutland County) where water covered portions of Route 133. During the late evening of August 11<sup>th</sup>, slow moving thunderstorms produced an estimated 1 to 2 inches of rain across portions of Washington and Lamoille Counties, and flood advisories were issued although no significant flash flooding was reported.

1. Date: **9/23/2008**
2. Agency: **Transportation**
3. Department: **Operations**
4. Program: **Public Assistance Program**
5. Type of Grant:  
 New     Supplemental  
 Renewal     Modification
6. Legal Title of Grant: **Disaster Assistance Grant  
FEMA-1790-DR-VT**
7. Federal Catalog No.: **97-036**
8. Grantor and Office/Address:  
**Federal Emergency Management Agency  
99 High Street  
Boston, MA 02109-4595**
9. State Grant Administrator:  
**Agency of Transportation  
Operations Division**
10. Grant Period: From: **July 21, 2008** To: **Completion**
11. Purpose of Grant: (attach additional sheets if needed)  
**To provide federal disaster assistance to repair damage to public facilities; state, local and non-profit, caused by the storms from July 21 to August 12, 2008. See attached pages.**
12. Impact on Existing Programs if Grant is not Accepted:  
**State and local governments and eligible non-profit agencies may have to bear the full cost of repair to public facilities, road, and bridges; the cost of debris removal; and for emergency response.**
13. Budget Information: (Expenditures expected to occur in FY09 – FY10)

EXPENDITURES:

Statutory Administrative Costs	40,251.95
Other (recovery costs - estimated)	1,205,148.00
<b>TOTAL</b>	<b>\$1,245,399.95</b>

REVENUES

State Funds (Estimates - see attached schedule)	
Emergency Relief and Assistance Fund	162,694.98
Federal Funds: (Federal share is 75% of the total damage estimate)	
Federal Projects	903,861.00
Federal Administrative	40,251.95
Other Funds: (Estimates - see attached schedule)	
Local government	138,592.02
<b>TOTAL</b>	<b>\$1,245,399.95</b>

Grant will be allocated to these appropriation expenditure accounts: (excludes local share)

<u>DEPT ID</u>	<u>Program</u>	<u>Fund</u>	<u>Amount</u>
8100005500	59700	20150	\$944,112.95
8100005500	59700	21555	\$162,694.98

REPLACED  
error  
corrected  
10/16/08

SEP 29 2008

STATE OF VERMONT  
REQUEST FOR GRANT ACCEPTANCE

FORM AA-1

14. Will grant monies be spent on one or more personal service contracts?  
 YES  NO

If YES, signature of appointing authority here indicates intent to follow current guidelines for bidding. \_\_\_\_\_

- 15a. Please list any requested Limited Service positions:

<u>Titles</u>	<u>Number of Positions</u>
NONE	
TOTAL	

- 15b. Equipment and space for these positions:  
 Is presently available.  
 Can be obtained with available funds.

16. Signature of Appointing Authority

*075 - LAL 9-23-08*

I certify that no funds have been expended or committed in anticipation of Joint Fiscal Committee approval of this grant.

*David C. Orr*  
(Signature)

*9/24/08*  
(Date)

17. Action by Governor:  
 Approved  
 Rejected

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Date)

18. Secretary of Administration:  
 Request to JFO  
 Information to JFO

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Date)

19. Action by Joint Fiscal Committee: (Dates)
- Request to be placed on JFC agenda \_\_\_\_\_  
 Approved (not placed on agenda in 30 days) \_\_\_\_\_  
 Approved by JFC \_\_\_\_\_  
 Rejected by JFC \_\_\_\_\_  
 Approved by Legislature \_\_\_\_\_

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Date)

**FEMA-1790-DR-VT July 21 to August 12, 2008**

	Damage (from PDA)		
	Total	FEMA	Administrative
Addison	\$ 451,266.00	\$ 338,449.50	\$ 15,072.28
Caledonia	\$ 287,900.00	\$ 215,925.00	\$ 9,615.86
Essex	\$ 135,934.00	\$ 101,950.50	\$ 4,540.20
Lamoille	\$ 143,700.00	\$ 107,775.00	\$ 4,799.58
Orange	\$ 113,717.00	\$ 85,287.75	\$ 3,798.15
Washington	\$ 296,502.00	\$ 222,376.50	\$ 9,903.17
Windsor	\$ 227,395.00	\$ 170,546.25	\$ 7,594.99
	<u>\$ 1,205,148.00</u>	<u>\$ 903,861.00</u>	<u>\$ 40,251.95</u>

\$ 903,861.00 = Total FEMA support to applicants

\$ 40,251.95 = Total Administrative support to State

\$ 944,112.95 = Total anticipated FEMA Support for PA

State Funds (ERAF): Est. Avg (13.5%) - Towns receive either 12.5% or 15% from ERAF  
 ERAF: \$ 162,694.98

Applicant Share: \$ 138,592.02

Total (federal, state, & local): \$ 1,245,399.95

*error corrected 10/16/08*



STATE OF VERMONT  
REQUEST FOR GRANT ACCEPTANCE

FORM AA-1

Additional Information:

STATE OF VERMONT  
GRANT ACCEPTANCE FORM

JFO # 2550

DATE: October 16, 2008

DEPARTMENT: AOT - Operations

GRANT/DONATION (brief description and purpose):

FEMA Disaster Assistance Grant FEMA-1790-DR-VT  
July 21 to August 12 storms – Addison, Caledonia, Essex, Lamoille, Orange,  
Washington, and Windsor Counties. Statewide for hazard mitigation only.

GRANTOR/DONOR: FEMA

GRANT PERIOD: N/A

AMOUNT/VALUE: \$1,297,634.73

POSITIONS REQUESTED (LIMITED SERVICE): 0

ANY ON-GOING, LONG-TERM COSTS TO THE STATE: None

COMMENTS:

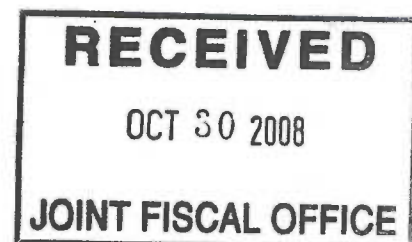
State match of \$223,615.89 will be needed. (ERAF).

Total Federal funds is \$1,297,634.73 (75% of current damage estimate plus \$55,324.23 administrative.)

*JA 10/16/08*

DEPT. FINANCE AND MANAGEMENT:  
SECRETARY OF ADMINISTRATION:  
SENT TO JOINT FISCAL OFFICE:

(INITIAL) *10/20/08*  
(INITIAL) *RAM 10/21/08*  
(DATE) *10/27/08*



# STATE OF VERMONT REQUEST FOR GRANT ACCEPTANCE

(Form AA-1)

BASIC GRANT INFORMATION				
<b>1. Agency:</b>	Transportation			
<b>2. Department:</b>	Operations			
<b>3. Program:</b>	Public Assistance			
<b>4. Legal Title of Grant:</b>	Disaster Assistance Grant FEMA 1790-DR-VT			
<b>5. Federal Catalog #:</b>	97-036			
<b>6. Grant/Donor Name and Address:</b>	Federal Emergency Management Agency 99 High Street Boston, MA 02109-4595			
<b>7. Grant Period:</b>	<b>From:</b>	7/21/2008	<b>To:</b>	7/21/2012
<b>8. Purpose of Grant:</b>	To provide federal disaster assistance to repair damage to public facilities (state, local, and non-profit) caused by storms from July 21 to August 12, 2008.			
<b>9. Impact on existing program if grant is not Accepted:</b>	State and local governments and eligible non-profit agencies may have to bear the full cost of repair to public facilities (roads, bridges, buildings), debris removal, and emergency response.			
10. BUDGET INFORMATION				
	<b>SFY 1</b>	<b>SFY 2</b>	<b>SFY 3</b>	<b>Comments</b>
<b>Expenditures:</b>	<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011</b>	
Personal Services	\$	\$	\$	
Operating Expenses	\$	\$	\$	
Grants	\$855,869	\$427,935	\$427,934	
<b>Total</b>	<b>\$855,869</b>	<b>\$427,935</b>	<b>\$427,934</b>	
<b>Revenues:</b>				
State Funds:	\$111,808	\$55,904	\$55,904	
Cash	\$	\$	\$	
In-Kind	\$	\$	\$	
Federal Funds:	\$648,817	\$324,409	\$324,408	
(Direct Costs)	\$	\$	\$	
(Statewide Indirect)	\$	\$	\$	
(Departmental Indirect)	\$	\$	\$	
Other Funds:	\$	\$	\$	
Grant (source Local share)	\$95,244	\$47,622	\$47,622	
<b>Total</b>	<b>\$855,869</b>	<b>\$427,935</b>	<b>\$427,934</b>	
<b>Appropriation No:</b>		<b>Amount:</b>	\$	
	8100005500-59700-20150		\$1,297,635	
	8100005500-59700-21555		\$223,616	

REC'D OCT 16 2008

**STATE OF VERMONT REQUEST FOR GRANT ACCEPTANCE** (Form AA-1)

			\$
			\$
			\$
			\$
		<b>Total</b>	\$

**PERSONAL SERVICE INFORMATION**

**11. Will monies from this grant be used to fund one or more Personal Service Contracts?**  Yes  No  
 If "Yes", appointing authority must initial here to indicate intent to follow current competitive bidding

Appointing Authority Name: \_\_\_\_\_ Agreed by: \_\_\_\_\_ (initial)

12. Limited Service Position Information:	# Positions	Title
	0	
<b>Total Positions</b>	0	

**12a. Equipment and space for these positions:**  Is presently available.  Can be obtained with available funds.

**13. AUTHORIZATION AGENCY/DEPARTMENT**

I certify that no funds have been expended or committed in anticipation of Joint Fiscal Committee Approval of this grant:	Signature: <i>David Deie</i>	Date: 10/16/2008
	Title: Secretary of Transportation	
	Signature:	Date:
	Title:	

**14. ACTION BY GOVERNOR**

<input checked="" type="checkbox"/> Accepted	<i>[Signature]</i>	10/24/08
<input type="checkbox"/> Rejected	(Governor's signature)	Date:

**15. SECRETARY OF ADMINISTRATION**

<input type="checkbox"/> Request to JFO	<i>Ronda P. Meo</i>	10/21/08
<input type="checkbox"/> Information to JFO	(Secretary's signature or designee)	Date:

**16. DOCUMENTATION REQUIRED**

**Required GRANT Documentation**

<input type="checkbox"/> Request Memo	<input type="checkbox"/> Request Memo
<input type="checkbox"/> Dept. project approval (if applicable)	<input type="checkbox"/> Dept. project approval (if applicable)
<input type="checkbox"/> Notice of Award	<input type="checkbox"/> Notice of Donation (if any)
<input type="checkbox"/> Grant Agreement	<input type="checkbox"/> Grant (Project) Timeline (if applicable)
<input type="checkbox"/> Grant Budget	<input type="checkbox"/> Request for Extension (if applicable)

**FEMA-1790-DR-VT July 21 to August 12, 2008**

	Damage (from PDA)		
	Total	FEMA	Administrative
Addison	\$ 451,266.00	\$ 338,449.50	\$ 15,072.28
Caledonia	\$ 287,900.00	\$ 215,925.00	\$ 9,615.86
Essex	\$ 135,934.00	\$ 101,950.50	\$ 4,540.20
Lamoille	\$ 143,700.00	\$ 107,775.00	\$ 4,799.58
Orange	\$ 113,717.00	\$ 85,287.75	\$ 3,798.15
Washington	\$ 296,502.00	\$ 222,376.50	\$ 9,903.17
Windsor	\$ 227,395.00	\$ 170,546.25	\$ 7,594.99
	<u>\$ 1,656,414.00</u>	<u>\$ 1,242,310.50</u>	<u>\$ 55,324.23</u>

\$ 1,242,310.50 = Total FEMA support to applicants

\$ 55,324.23 = Total Administrative support to State

\$ 1,297,634.73 = Total anticipated FEMA Support for PA

State Funds (ERAF): Est. Avg (13.5%) - Towns receive either 12.5% or 15% from ERAF


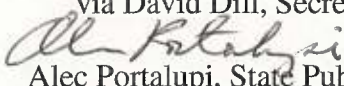
ERAF: \$ 223,615.89

Applicant Share: \$ 190,487.61

Total (federal, state, & local): \$ 1,711,738.23

State of Vermont  
Operations Division  
One National Life Drive  
Montpelier, VT 05633-5001  
sam.lewis@state.vt.us

Agency of Transportation  
Maintenance Programs  
[phone] 802-828-2709  
[fax] 802-828-2848  
[ttd] 800-253-0191

**To:** Neale Lunderville, Secretary of Administration  
(Governor's Authorized Representative, FEMA PA Program)  
via David Dill, Secretary of Transportation   
  
**From:** Alec Portalupi, State Public Assistance Officer, FEMA PA Program  
**Date:** September 23, 2008  
**Subject:** FEMA 1790-DR-VT (July 21 to August 12, 2008 storms)

We are requesting your approval and signature on the attached documents for the State to apply for and receive federal assistance under the subject federal disaster declaration.

If you have any questions about these documents or need additional information, please contact Alec Portalupi at 828-3889. Thank you.

Attachments


Standard Form 424  
State of Vermont Form AA-1  
Various Correspondence between State and FEMA Region 1

SEP 23 2008



<b>PA-01-VT-1790</b>	
<b>Applicant Name:</b> Vermont Agency of Transportation	<b>Application Title:</b> SF-424 for Disaster Number 1790
<b>Period of Performance Start:</b> 09-12-2008	<b>Period of Performance End:</b>

**Grant Application - SF424**

<b>APPLICATION FOR FEDERAL ASSISTANCE</b>		<b>2. DATE SUBMITTED</b> 09-16-2008	Applicant Identifier
<b>1. TYPE OF SUBMISSION</b>  N/A	Pre-Application  N/A	<b>3. DATE RECEIVED BY STATE</b> N/A	State Application Identifier N/A
		<b>4. DATE RECEIVED BY FEDERAL AGENCY</b> N/A	Federal Identifier
<b>5. APPLICANT INFORMATION</b>			Organizational Unit:
Legal Name: Vermont Agency of Transportation		Department: Vermont Agency of Transportation	
Organizational DUNS: 809376296-		Division: Operations	
Address Street: One National Life Drive  City: Montpelier County: Washington State: VT Zip Code: 05633 - 5001 Country: United States of America		<b>Name and telephone number of person to be contacted on matters involving this application (give area code)</b> Prefix: Mr First Name: Norman Middle Initial: Last Name: Portalupi Suffix: Email: alec.portalupi@state.vt.us Phone Number: 802-828-3889 Fax Number: 802-828-2848	
<b>6. FEDERAL EMPLOYER IDENTIFICATION NUMBER (EIN)</b> 03-6000274		<b>7. TYPE OF APPLICANT</b> State Government	
<b>8. TYPE OF APPLICATION</b> Grant Application (SF-424)		<b>9. NAME OF FEDERAL AGENCY</b> Federal Emergency Management Agency	
<b>10. CATALOG OF FEDERAL DOMESTIC ASSISTANCE NUMBERS</b> 97.036 CFDA TITLES: PUBLIC ASSISTANCE		<b>11. DESCRIPTIVE TITLE OF APPLICANT'S PROJECT</b> N/A	
<b>12. AREAS AFFECTED BY PROJECT</b> (cities, counties, states, etc.)  Caledonia, Essex, Washington, Windsor, Addison, Orange, Lamoille, Statewide			
<b>13. PROPOSED PROJECT:</b> Start Date: End Date:		<b>14. CONGRESSIONAL DISTRICTS OF:</b> a. Applicant: b. Project:	
<b>15. ESTIMATED FUNDING</b>		<b>16. IS APPLICATION SUBJECT TO REVIEW BY STATE EXECUTIVE ORDER 12372 PROCESS?</b>	
a. Federal	\$ 944113	N/A	
b. Applicant	\$ 0	<b>17. IS THE APPLICANT DELINQUENT ON ANY FEDERAL DEBT?</b> N/A	
c. State	\$ 162695		
d. Local	\$ 138592		
e. Other	\$ 0		
f. Program Income	\$ 0		
g. TOTAL	\$ 1245400		
<b>18. TO THE BEST OF MY KNOWLEDGE AND BELIEF, ALL DATA IN THIS APPLICATION ARE TRUE AND CORRECT, THE DOCUMENT HAS BEEN DULY AUTHORIZED BY GOVERNING BODY OF THE APPLICANT AND THE APPLICANT WILL COMPLY WITH THE ATTACHED ASSURANCES IF THE ASSISTANCE IS REQUIRED.</b>			
a. Name of Authorized Representative Norman Portalupi	b. Title State Public Assistance Officer	c. Telephone Number 8028283889	
d. Signature of Authorized Representative 		e. Date Signed 9-18-08	



# DECLARED SEPTEMBER 12, 2008

## SUMMARY

In the event of a declaration, the following information applies:

STATE: Vermont  
NUMBER: FEMA-1790-DR  
INCIDENT: Severe Storms and Flooding  
INCIDENT PERIOD: July 21 to August 12, 2008  
DATE REQUESTED BY GOVERNOR: August 25, 2008  
FEDERAL COORDINATING OFFICER: Philip E. Parr  
National FCO Program

### DESIGNATIONS AND TYPES OF ASSISTANCE:

#### INDIVIDUAL ASSISTANCE (Assistance to individuals and households):

None.

PUBLIC ASSISTANCE (Assistance to State and local governments and certain private nonprofit organizations for emergency work and the repair or replacement of disaster-damaged facilities):

Addison, Caledonia, Essex, Lamoille, Orange, Washington, and Windsor Counties.

HAZARD MITIGATION GRANT PROGRAM (Assistance to State and local governments and certain private nonprofit organizations for actions taken to prevent or reduce long term risk to life and property from natural hazards):

All counties in the State of Vermont are eligible to apply for assistance under the Hazard Mitigation Grant Program.

OTHER: Additional designations may be made at a later date after further evaluation.

JAMES H. DOUGLAS  
Governor



State of Vermont  
OFFICE OF THE GOVERNOR

August 25, 2008

The Honorable George W. Bush  
President of the United States  
The White House  
Washington, D.C. 20500

Through: Arthur W. Cleaves  
Regional Administrator  
FEMA Region I  
Boston, Massachusetts 02110

Dear Mr. President:

Under the provisions of Section 401 of the Robert T. Stafford Disaster Relief and Emergency Assistance Act, 42 U.S.C. §§ 5121-5206 (Stafford Act), and implemented by 44 CFR § 206.36, I request that you declare a major disaster for the State of Vermont as a result of excessive rainfall that caused flash flooding and extensive road damage in certain areas throughout the State on and from July 21, 2008 through August 12, 2008. The Vermont counties impacted to the highest degree of eligible damage include Addison, Caledonia, Essex, Lamoille, Orange, Washington and Windsor. Initial damage estimates exceed \$1.66 million dollars. The damage was widespread due to an extended storm system that impacted seven of Vermont's fourteen counties.

In response to the situation, I have taken appropriate action under State law and directed the execution of the State Emergency Operations Plan through the Commissioner of the Department of Public Safety beginning on July 21, 2008 and continuing in operation through August 12, 2008 in accordance with Section 401 of the Stafford Act. In accordance with the State Emergency Operations Plan, the following State Agency Support functions were activated: Department of Public Safety, Vermont Emergency Management Division and Vermont State Police, Vermont Agency of Transportation, Vermont Agency of Human Services, Vermont Department of Health, and the American Red Cross. The communities of Ferrisburgh, Leicester, Middlebury, Northfield, Ripton, Rochester, Troy, Williamstown and Wolcott, Vermont each requested a local declaration of emergency due to excessive damage to their public infrastructure.

The State of Vermont has a State Mitigation Plan that was approved by FEMA in November of 2007. Approximately 85% of Vermont communities have FEMA approved local mitigation plans with the rest in various forms of draft stages.

Honorable George W. Bush  
August 25, 2008  
Page 2

Joint Federal, State, and local surveys of the damaged areas were conducted several times between July 21 and August 12 in different counties of the state:

Lamoille	07/31/08	Orange	08/08/08
Caledonia	07/31/08	Essex	08/12/08
Washington	08/06/08	Windsor	08/14/08
Addison	08/08/08		

Preliminary assessments by State and local officials indicated the most severe impacts were to town and state roads that received road damage by flash floods.

I have determined that this incident is of such severity and magnitude that effective response is beyond the capabilities of the State and the affected local governments and that supplementary Federal assistance is necessary. I am specifically requesting Federal assistance utilizing the following federal programs: Public Assistance for the counties of Addison, Caledonia, Essex, Lamoille, Orange, Washington and Windsor, Vermont. The State of Vermont also requests that the Hazard Mitigation Grant Program (Section 404), available throughout the State.

Preliminary estimates of the types and amount of assistance needed under the Stafford Act are tabulated in Enclosure A.

The following information is furnished on the nature and amount of State and local resources that have been or will be used to alleviate the conditions of this disaster: The following State agencies were directed to provide immediate assistance as a result of flash flooding: Department of Public Safety, Vermont Emergency Management Division and Vermont State Police, State Agency of Transportation, Vermont Agency of Human Services, Vermont Department of Health, Vermont National Guard and the American Red Cross. The flash flooding that devastated seven out of fourteen counties resulted from a storm system that according to the National Weather Service officially began on July 18, 2008 and went through August 12, 2008. A description of the storm system prepared by the National Weather Service office that serves most of Vermont is attached as Enclosure B. The damage from this storm that affected Vermont began on July 18 (FEMA-1784-DR), skipped a few days and then began again in earnest for the next three and a half weeks, between July 21 through August 12. Many communities were impacted several times and were not able to repair damaged infrastructure before the next storm cells caused additional damage. Some communities were in the process of recovering from another storm, FEMA-1778-DR, when they received additional damage from the latest storm.

Town and State road crews worked for several days to repair the damage to public roads and to open access routes for emergency vehicles several times. There was not much debris clean-up as most debris washed down the river systems. Unfortunately, two lives were lost as a result of the storms during this time period; one due to a house fire after being struck by lightning and in a separate incident, a boater was lost in stormy waters. Several private properties received major damage but did not meet the threshold to seek SBA Disaster Assistance or an IA declaration. Two camps with summer campers were evacuated due to

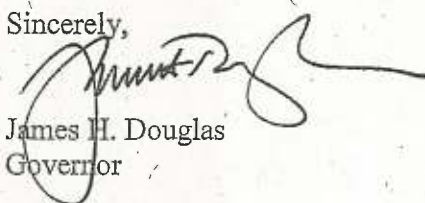
Honorable George W. Bush  
August 25, 2008  
Page 3

impassable and dangerous roads. Another summer camp also experienced destructive flash floods and heavy losses.

I certify that for this major disaster, the State and local governments will assume all applicable non-Federal share of costs required by the Stafford Act. Total state/local share expenditures are expected to exceed \$414,000.

I have designated Barbara Farr, Director of Vermont Emergency Management, as the State Coordinating Officer for this request. Ms. Farr will work with the Federal Emergency Management Agency in damage assessments and may provide further information or justification on my behalf.

Sincerely,



James H. Douglas  
Governor

Enclosures

VTrans County Rollup: 21 July to 12 August 2008, Strong Winds, Heavy Rain, Flooding

County	A - Debris Removal	B - Protective Measures	C - Roads & Bridges	D - Water Control Facilities	E - Buildings & Equipment	F - Utilities	G - Parks, Recreation	Total	Population	Total Per Capita
ADDISON		11,200	440,066					451,266	35,974	12.54
BENNINGTON								0	36,994	0.00
CALEDONIA			287,900					287,900	29,702	9.69
CHITTENDEN								0	146,571	0.00
ESSEX			135,934					135,934	6,459	21.05
FRANKLIN								0	45,417	0.00
GRAND ISLE								0	6,901	0.00
LAMOILLE		5,000	138,700					143,700	23,233	6.19
ORANGE			113,717					113,717	28,226	4.03
ORLEANS								0	26,277	0.00
RUTLAND								0	63,400	0.00
WASHINGTON		5,000	291,502					296,502	58,039	5.11
WINDHAM								0	44,216	0.00
WINDSOR		2,000	222,395			1,000	2,000	227,395	57,418	3.96
		23,200	1,630,214	0	0	1,000	2,000	1,656,414		

Prepared by A. Portalupi

08/25/2008

**ENCLOSURE A**



August 19, 2008

MEMORANDUM FOR: Barbara Farr, Director Vermont Emergency Management

FROM: Andy Nash, Meteorologist-in-Charge, National Weather Service Burlington VT

SUBJECT: Weather Summary – Significant Wet Period, July 18 to August 12, 2008

**Summary**

Beginning in mid July, a persistent atmospheric system developed across the eastern Great Lakes resulting in rounds of severe weather and heavy rainfall across a large portion of Vermont. This repeated rainfall resulted in many areas of the state, especially central and northeastern sections, enduring their wettest July on record. The system continued to strengthen into early August as it drifted over and then to the south of Vermont. This strengthening resulted in renewed heavy rainfall and significant flash flooding.

**Table 1. Rainfall Totals (in inches) at select locations for the period July 15-August 14, 2008**

Mt Mansfield (Lamoille County)	14.33
South Lincoln (Addison County)	14.05
Corinth (Orange County)	13.28
East Haven (Essex County)	12.92
Worcester (Washington County)	12.84
Montpelier (Washington County)	12.46
Sutton (Caledonia County)	12.21
Saint Johnsbury (Caledonia County)	11.77
Island Pond (Essex County)	11.77
Jay Peak (Orleans County)	11.69
Bethel (Windsor County)	9.08

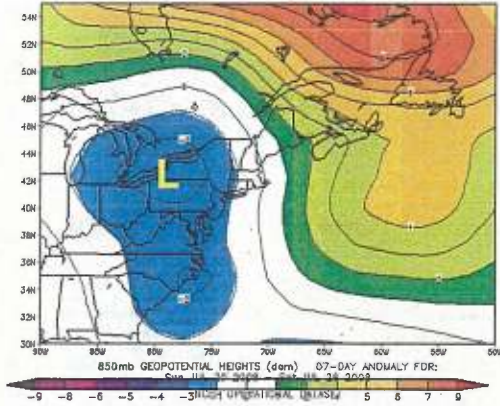


*Figure 1. Rainfall Amounts for the 30-Day period ending August 17. Areas in purple indicate rainfall in excess of 10 inches.*

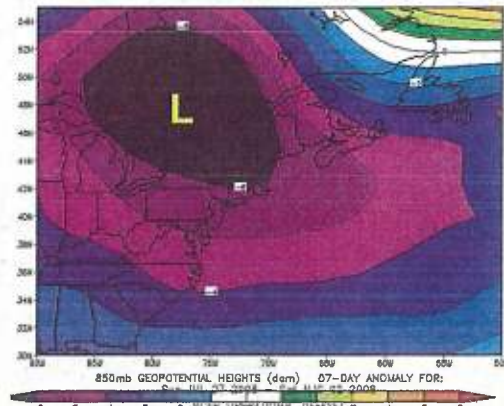


National Oceanic and Atmospheric Administration  
 National Weather Service  
 Weather Forecast Office Burlington, VT  
 1200 Airport Dr  
 South Burlington, VT 05403

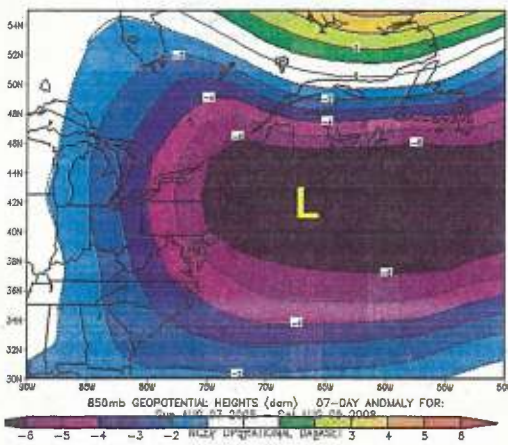
*Weather Map – July 20-26, 2008*



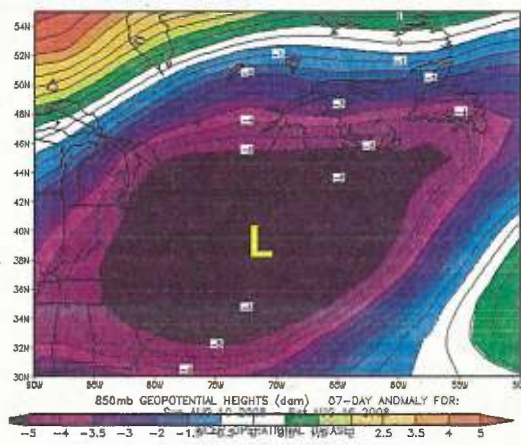
*Weather Map – July 27-August 3, 2008*



*Weather Map – August 3-9, 2008*



*Weather Map – August 10-16, 2008*



*Figure 2. Weather maps depicting weekly evolution of the low pressure system between July 20 and August 16. The blues and dark purples indicate areas with lower than normal pressure.*

**Specific Events**

**July 18 – Severe Thunderstorms**

Severe thunderstorms impacted a number of locations on July 18<sup>th</sup> as the large scale storm system was becoming established. Three areas were particularly hard hit. The first was the area in Grand Isle and Franklin Counties, from Isle La Motte east to St Albans and Georgia where straight line winds estimated at 70 to 80 mph, especially over Isle La Motte, caused considerable damage to trees and homes.

Another severe thunderstorm, likely producing winds in the 50 to 70 mph range caused damage to trees, cornfields and at least one home under renovation in Addison County.



National Oceanic and Atmospheric Administration  
National Weather Service  
Weather Forecast Office Burlington, VT  
1200 Airport Dr  
South Burlington, VT 05403

The most significant severe thunderstorm occurred across parts of Lamoille County, from near North Cambridge to just south of Waterville. A storm survey determined that the bulk of the damage was due to straight line winds in the 70 to 90 mph range which downed many hundreds of trees in a swath up to ½ mile wide and nearly 8 miles long. Several structures were also damaged. Isolated pockets of damage indicate the occurrence of a brief tornado touchdown, rated EF-1 on the Enhanced Fujita Scale, with winds around 100 mph. The last tornados in Vermont happened in July 2003 across Bennington and Windham Counties.



Figure 3. Damage swath for the severe thunderstorm in Lamoille County. Dark gray shading indicates areas with winds estimated to be 50-70 mph. Light gray shaded areas indicate areas that likely experienced winds of 70 to 90 mph.





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**July 23-24 – Widespread Rainfall & Flooding**

After several days in which scattered thunderstorms produced localized heavy rainfall each afternoon and evening across the state, a widespread moderate to heavy rainfall occurred. Total rainfall over the two days ranged from 2 to 4 inches across a large part of Vermont. Rivers and streams that were already running well above normal due to the antecedent rains, were pushed over bank-full in a number of locations. The Lamoille River at Johnson peaked 1.8 feet above flood stage, resulting in the closure of the Wrong-Way Bridge along Route 15 and the Missisquoi River at North Troy 0.8 feet above flood stage. Other flooding of streams and smaller rivers occurred across Washington, Orleans, Lamoille, and Caledonia Counties which resulted in some road closures along Routes 122, 14 and 100. In addition, a bridge and road were washed out at the Mt Norris Scout Camp temporarily stranding a large group of Boy Scouts.

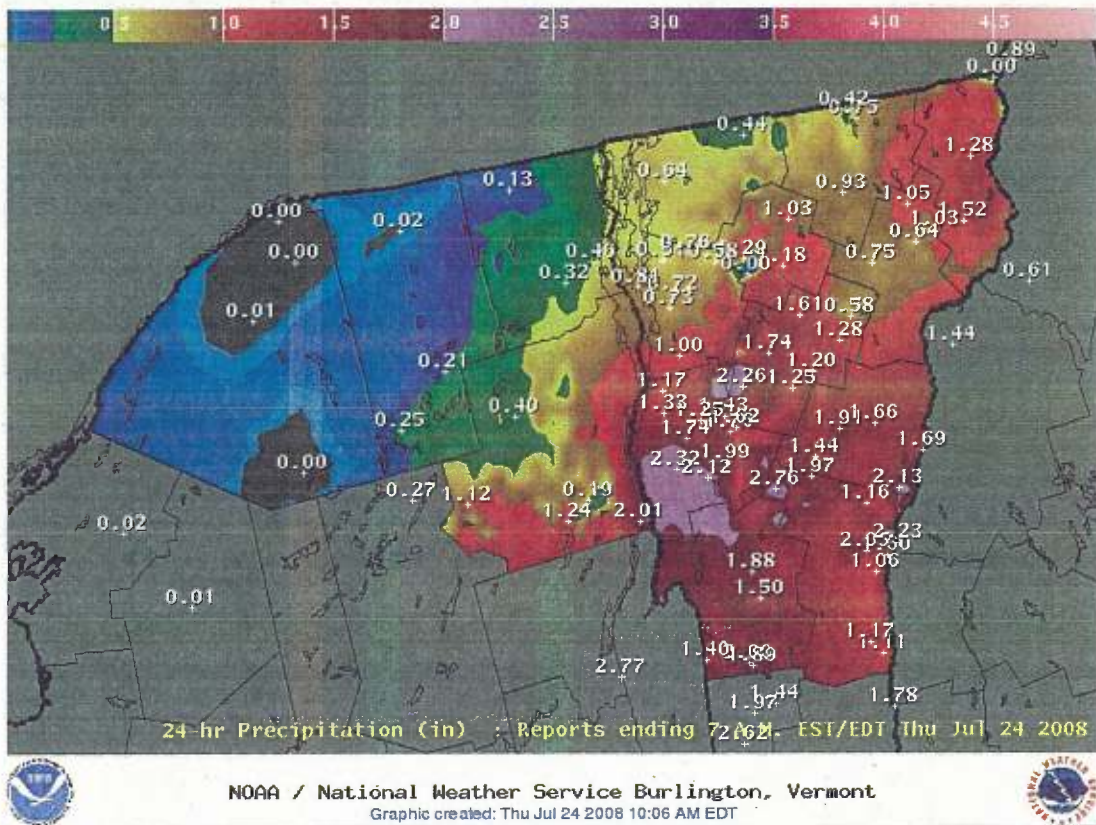


Figure 4. Total Rainfall from 7am July 23 to 7am July 24.



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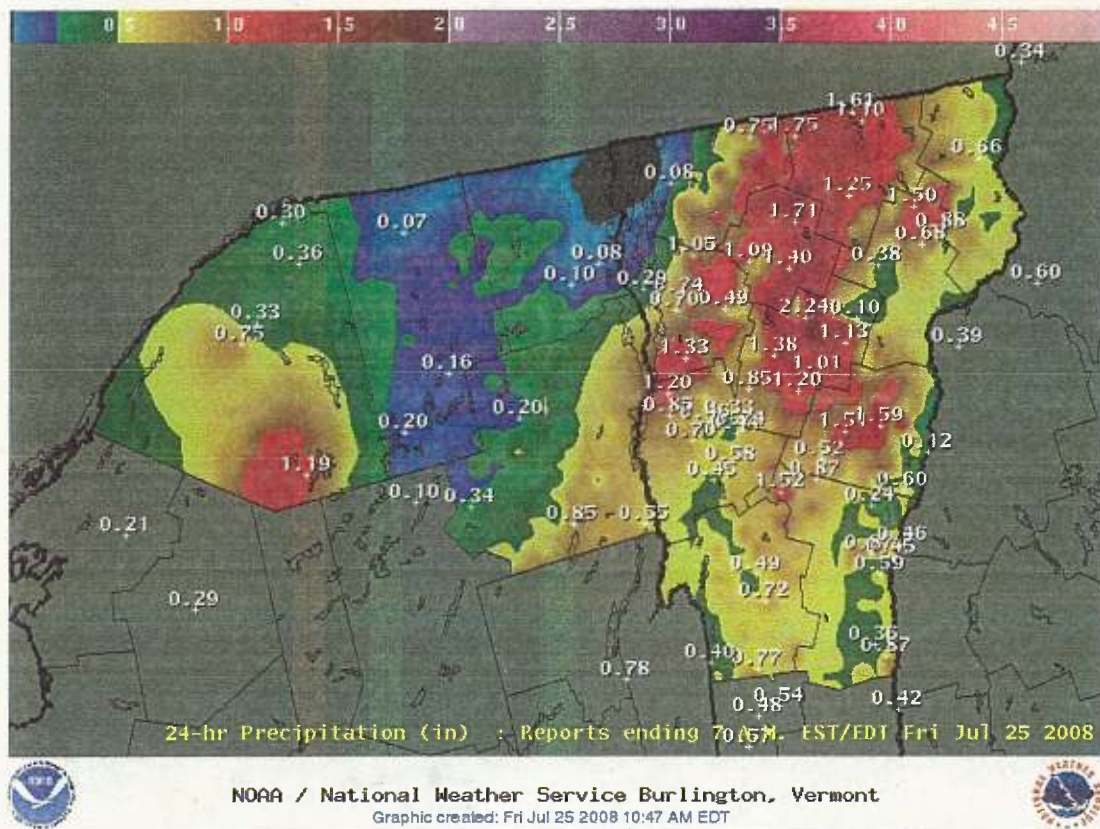


Figure 5. Total Rainfall from 7am July 24 to 7am July 25.

### July 31-August 3 – Repeated thunderstorms and heavy rainfall

During the early overnight hours of July 31st, a band of strong to severe thunderstorms moved across the northern half of the state, producing locally heavy rainfall and minor wind damage. Areas hardest impacted with 1 to 1½ inches of rain in a short period of time included Addison, Orange, Washington and Caledonia Counties. Due to the antecedent heavy rainfall of the previous two weeks, this amount of rainfall resulted in significantly more impact than it normally would. Some of the more significant flooding occurred in the Barre and Montpelier area where culverts overflowed or were significantly damaged along Routes 2, 14 and 302.

Late in the day and into the evening of August 1, additional thunderstorms affected nearly the same region with another ½ to 1 inch of rainfall. Particularly hard hit was Washington County, where upwards of 1½ to 2 inches of rain occurred near Berlin which resulted in washouts of several roads.



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National Weather Service  
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Thunderstorms redeveloped during the afternoon of August 2, and brought more heavy rainfall and additional flooding. This time the heavy rainfall was more widespread, with some locations across northeast Vermont receiving rainfall in excess of 2 inches. Washington County was again hard hit, with widespread rainfall approaching 1 inch. This rain, on top of what had fallen the previous few days, caused additional damage with numerous reports of road washouts in Moretown, Duxbury and Middlesex. Heavy rainfall in portions of Rutland County also resulted in flooding damage due to a beaver dam collapse in Wallingford along Route 140. Flash flooding also occurred along the Hyde Park/Johnson town line in Lamoille County which washed out part of a road and isolated nearly a dozen residences.

August 3<sup>rd</sup> featured another round of showers and thunderstorms across primarily the northern half of Vermont. The heaviest totals of ½ to 1 inch occurred across Addison, Chittenden, Franklin and Orleans counties. Water was reported to be covering Route 5 in Derby.

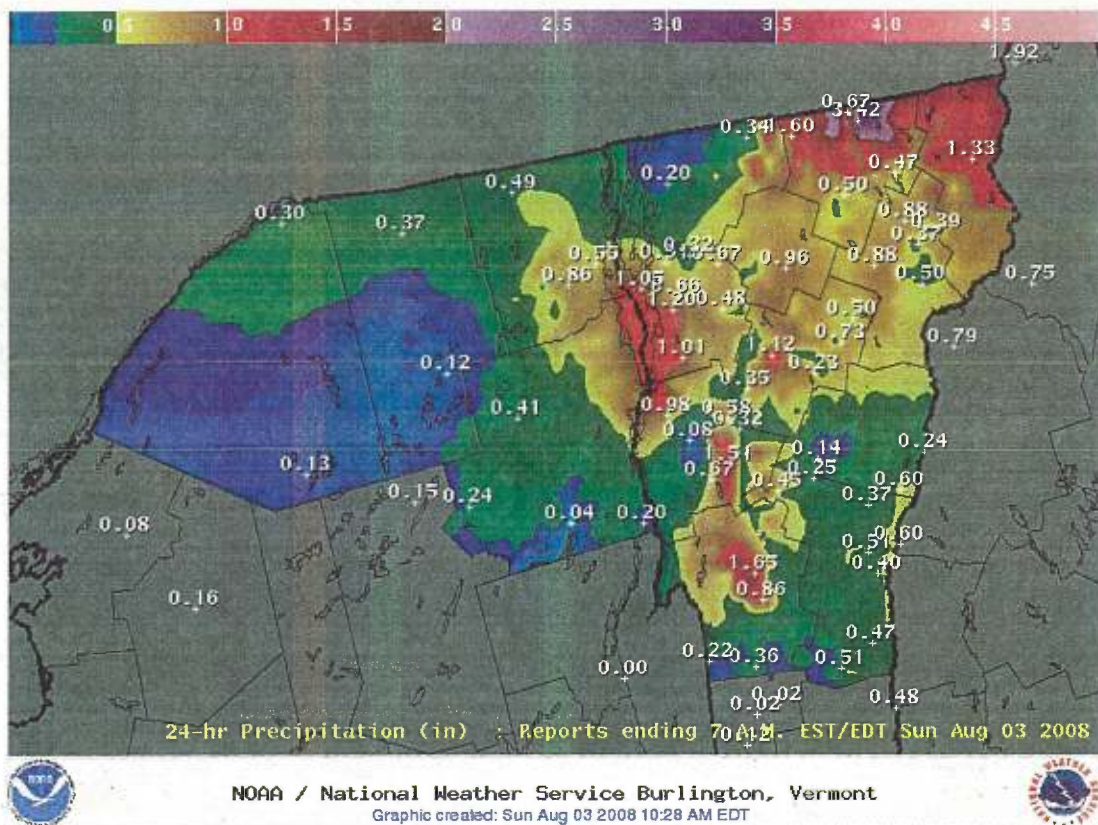


Figure 6. Total Rainfall from 7am August 2 to 7 am August 3.



**August 6-7 - Significant Flash Flooding**

As the storm system intensified over the northeast, widespread rain and thunderstorms impacted much of the state. Particularly hard hit on August 6<sup>th</sup> was Addison County where 3 to 5 inches of rain fell in a few hours. Severe damage was reported in many towns, including Hancock, Leicester and Ripton where roads and highways such as Routes 100 and 125 were closed for sometime.

Additional heavy rainfall on the order of 2 to 3 inches fell across portions of Caledonia County, and damage was reported in Danville and West Barnet where several roads were washed out. Routes 2 and 15 around Danville were also impacted. Isolated flash flooding was reported in Brandon (Rutland County) and Stockbridge (Windsor County)

On August 7<sup>th</sup>, the focus for the worst flash flooding was Orange and Washington Counties where upwards of 3 inches of rain occurred in slow moving thunderstorms during the afternoon and evening. Water flowed over many roads in the towns of Chelsea, Corinth and Montpelier forcing them to be closed. Isolated locations, such as Troy (Orleans County) and Ferrisburgh (Addison County) also suffered flash flooding damage from heavy but local rainfall. Officials in Ferrisburgh reported 2 to 3 inches in less than an hour that resulted in several roads being washed out along with a small landslide on private property near Button Bay.

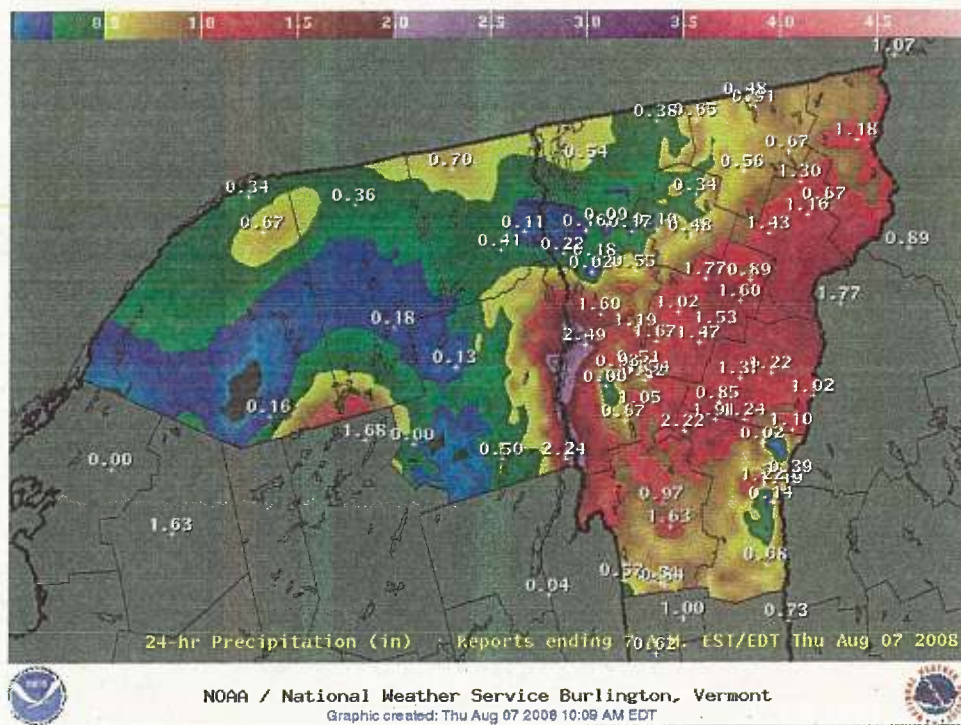


Figure 7. Total Rainfall from 7am August 6 to 7am August 7.



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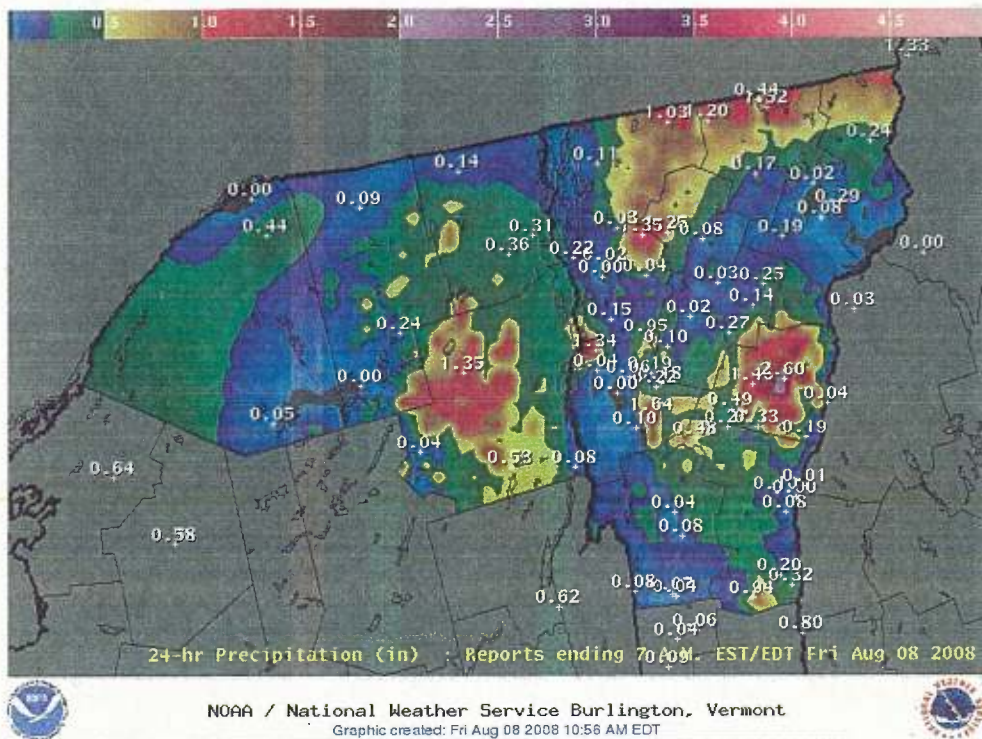


Figure 8. Total Rainfall from 7am August 7 to 7am August 8.

**August 10-12 – Scattered Severe Thunderstorms & Isolated Flooding**

Due to the proximity of the storm system, unsettled conditions continued with daily showers and thunderstorms developing across the state. These thunderstorms primarily produced hail and locally heavy downpours. Local rainfall of 1½ to 2 inches in a short period of time resulted in flash flooding on the afternoon of August 10<sup>th</sup> around Middletown Springs (Rutland County) where water covered portions of Route 133. During the late evening of August 11<sup>th</sup>, slow moving thunderstorms produced an estimated 1 to 2 inches of rain across portions of Washington and Lamoille Counties, and flood advisories were issued although no significant flash flooding was reported.

STATE OF VERMONT  
REQUEST FOR GRANT ACCEPTANCE

FORM AA-1

1. Date: **9/23/2008**
2. Agency: **Transportation**
3. Department: **Operations**
4. Program: **Public Assistance Program**
6. Legal Title of Grant: **Disaster Assistance Grant  
FEMA-1790-DR-VT**
8. Grantor and Office/Address:  
**Federal Emergency Management Agency  
99 High Street  
Boston, MA 02109-4595**
5. Type of Grant:  
 New     Supplemental  
 Renewal     Modification
7. Federal Catalog No.: **97-036**
9. State Grant Administrator:  
**Agency of Transportation  
Operations Division**
10. Grant Period: From: **July 21, 2008** To: **Completion**
11. Purpose of Grant: (attach additional sheets if needed)  
**To provide federal disaster assistance to repair damage to public facilities; state, local and non-profit, caused by the storms from July 21 to August 12, 2008. See attached pages.**
12. Impact on Existing Programs if Grant is not Accepted:  
**State and local governments and eligible non-profit agencies may have to bear the full cost of repair to public facilities, road, and bridges; the cost of debris removal; and for emergency response.**
13. Budget Information: (Expenditures expected to occur in FY09 – FY10)

EXPENDITURES:

Statutory Administrative Costs	40,251.95
Other (recovery costs - estimated)	1,205,148.00
<b>TOTAL</b>	<b>\$1,245,399.95</b>

REVENUES

State Funds (Estimates - see attached schedule)	
Emergency Relief and Assistance Fund	162,694.98
Federal Funds: (Federal share is 75% of the total damage estimate)	
Federal Projects	903,861.00
Federal Administrative	40,251.95
Other Funds: (Estimates - see attached schedule)	
Local government	138,592.02
<b>TOTAL</b>	<b>\$1,245,399.95</b>

Grant will be allocated to these appropriation expenditure accounts: (excludes local share)

<u>DEPT ID</u>	<u>Program</u>	<u>Fund</u>	<u>Amount</u>
8100005500	59700	20150	\$944,112.95
8100005500	59700	21555	\$162,694.98

*REPLACED  
error  
corrected  
10/16/08*

SEP 23 2008

STATE OF VERMONT  
REQUEST FOR GRANT ACCEPTANCE

FORM AA-1

14. Will grant monies be spent on one or more personal service contracts?  
 YES  NO

If YES, signature of appointing authority here indicates intent to follow current guidelines for bidding. \_\_\_\_\_

- 15a. Please list any requested Limited Service positions:

<u>Titles</u>	<u>Number of Positions</u>
NONE	
TOTAL	

- 15b. Equipment and space for these positions:  
 Is presently available.  
 Can be obtained with available funds.

16. Signature of Appointing Authority

*OK - LAL 9-23-08*

I certify that no funds have been expended or committed in anticipation of Joint Fiscal Committee approval of this grant.

*David C. Qui*  
(Signature)

*9/24/08*  
(Date)

17. Action by Governor:

- Approved  
 Rejected

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Date)

18. Secretary of Administration:

- Request to JFO  
 Information to JFO

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Date)

19. Action by Joint Fiscal Committee:

- Request to be placed on JFC agenda  
 Approved (not placed on agenda in 30 days)  
 Approved by JFC  
 Rejected by JFC  
 Approved by Legislature

(Dates)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Date)

**FEMA-1790-DR-VT July 21 to August 12, 2008**

	Damage (from PDA)		
	Total	FEMA	Administrative
Addison	\$ 451,266.00	\$ 338,449.50	\$ 15,072.28
Caledonia	\$ 287,900.00	\$ 215,925.00	\$ 9,615.86
Essex	\$ 135,934.00	\$ 101,950.50	\$ 4,540.20
Lamoille	\$ 143,700.00	\$ 107,775.00	\$ 4,799.58
Orange	\$ 113,717.00	\$ 85,287.75	\$ 3,798.15
Washington	\$ 296,502.00	\$ 222,376.50	\$ 9,903.17
Windsor	\$ 227,395.00	\$ 170,546.25	\$ 7,594.99
	<u>\$ 1,205,148.00</u>	<u>\$ 903,861.00</u>	<u>\$ 40,251.95</u>

\$ 903,861.00 = Total FEMA support to applicants

\$ 40,251.95 = Total Administrative support to State

\$ 944,112.95 = Total anticipated FEMA Support for PA

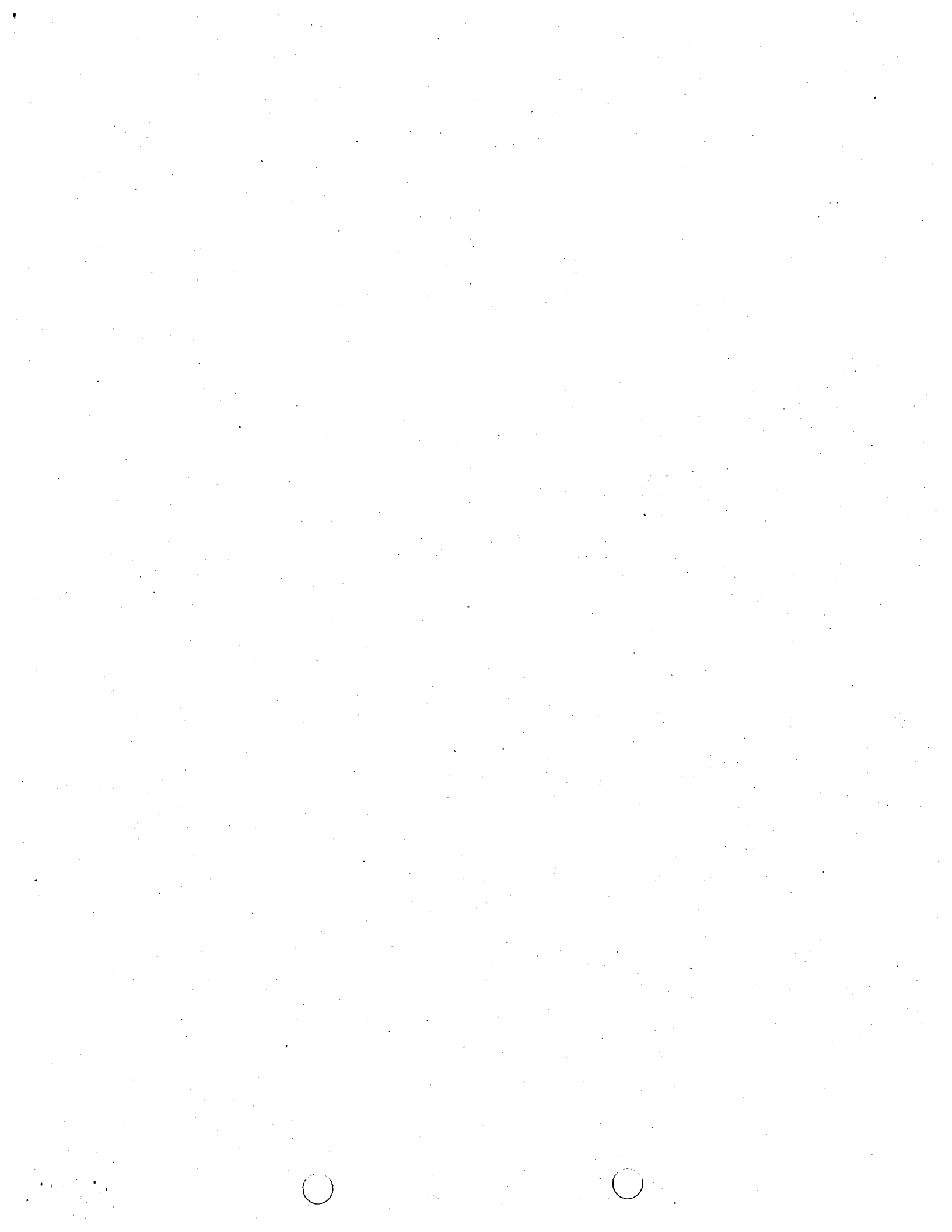
State Funds (ERAF): Est. Avg (13.5%) - Towns receive either 12.5% or 15% from ERAF  
 ERAF: \$ 162,694.98

Applicant Share: \$ 138,592.02

Total (federal, state, & local): \$ 1,245,399.95

*error corrected 10/16/08*





STATE OF VERMONT  
REQUEST FOR GRANT ACCEPTANCE

FORM AA-1

Additional Information: