

Joint Legislative Transportation Oversight Storm Impact on NCDOT Budgeting

Mark Foster, Chief Financial Officer October 11, 2011

Emergency Relief Programs

- Administered by the Federal Emergency Management Agency (FEMA) & Federal Highway Administration (FHWA)
- Intended for Natural Disasters or Catastrophic Failures
 - Natural Disasters (i.e. hurricanes, tornadoes, wild fires, severe storms)
 - Catastrophic Failures (i.e. bridge collapses after being struck by a barge)
- Type of event & location determines which agency oversees emergency efforts
 - FEMA Reimburses States/Locals for repairs to non Federal-Aid Roads & Bridges
 - FHWA Reimburses NCDOT for repairs to Federal-Aid Roads & Bridges



Emergency Relief Programs Reimbursement Procedures

- Disaster events are individually tracked and reported
- State dollars are required to pay expenses first
 - File for reimbursement with supporting cost detail data
 - May take years before NCDOT is fully reimbursed
- State share of FEMA costs
 - Charged to Maintenance
 - 1st coverage is unallocated maintenance reserve
- State share of FHWA costs
 - Federal-Aid State Matching Funds



Eligible for ER Funding? FHWA vs. FEMA

FHWA

- Governor's Declaration
- Cost recovery assessment, Federal review & authorization of eligibility
- NCDOT tracks disaster cost, incurs cost first and then may seek reimbursement
- Subject to agency reimbursement criteria
 - \$700,000 minimum in FHWA damages statewide
 - \$5,000 minimum per site
 - \$100 million per state cap

<u>FEMA</u>

- Presidential Declaration by County
- Cost recovery assessment, Federal review & authorization of eligibility
- NCDOT tracks disaster cost, incurs cost first and then may seek reimbursement
- Subject to agency reimbursement criteria
 - \$12.5 million minimum damages statewide
 - \$1,000 minimum per site
- Reimbursement is through North Carolina Division of Emergency Management

Rules for Emergency Repair Reimbursement

FHWA

- Prior Authorization of eligible cost determination
- 100% funding (1st 180 days)
- After 180 days, reimburses
 - 90% Interstates
 - 80% other eligible roadways
- No pre-disaster activities;
 Date of Declaration is critical

FEMA

- Project Worksheet approval determines eligibility
- 75% funding (72 hours at 100%)
- 180-day/6-month time limit
- Emergency Protective Measures are an allowable cost
- Debris removal only labor O.T.



Declared & Non-Declared Disaster Costs 15 Year Summary

• Since Fall 1996, NC has experienced 33 major disasters.

Declared Federal Disasters \$ in Millions	Total Cost		Federal Reimbursement		State Funding		Largest Events
Hurricanes	\$	380.9	\$	287.9	\$	93.0	Fran \$119 M
Ice Storms		142.6		79.3		63.2	Dec 2002 \$67 M
Floods/Tornadoes/Other		27.9		25.7		2.3	Haywood Co Rockslide \$15 M
Total	\$	551.4	\$	392.9	\$	158.5	
Percent (%)				71%		29%	
Avg/Year	\$	36.8	\$	26.2	\$	10.6	

Non-Declared Disasters \$ in Millions	To	tal Cost	Federal Reimbursement	Stat	e Funding
Snow and Ice	\$	430.5		\$	430.5
Avg/Year	\$	28.7		\$	28.7



NC Disaster Events Beginning September 1996							
		Estimated	Federal	State Maint.	State	Receivable	
Disaster Event	Date	Cost	Reimbursed	Funding	Matching	Balance	
Hurricane Irene	Aug-11	\$ 30,000,000	\$ -	\$ -		30,000,000	
Hurricane Earl	Sep-10	478,427	11,792	23,050	443,584	-	
TS Nicole	Sep-10	3,000,913				3,000,913	
TS Ida	Nov-09	1,459,619	1,435,754		23,865	-	
TS Hanna	Sep-08	2,346,690	1,052,857		1,293,833	-	
Hurricane Ernesto	Aug-06	4,976,397	1,352,072	3,553,892	70,433	-	
Hurricane Ophelia	Sep-05	3,163,144	2,043,814	806,785	312,545	-	
Hurricane Katrina	Aug-05	58,777	53,497		5,280	-	
Hurricane Ivan	Sep-04	61,471,452	49,687,748	11,245,970	537,734	-	
Hurricane Frances	Sep-04	16,349,407	12,083,960	4,265,447		-	
Hurricane Charley	Aug-04	1,284,435	-	1,284,435		-	
Hurricane Alex	Aug-04	308,849		308,849		-	
Hurricane Isabel	Sep-03	39,831,780	29,789,477	8,476,377	1,565,927	-	
Hurricane Floyd	Sep-99	88,946,161	56,005,889	31,314,931	1,625,341	-	
Hurricane Dennis	Aug-99	2,925,193	1,514,748	1,240,277	170,168	-	
Hurricane Bonnie	Aug-98	5,653,800	3,150,963	2,473,150	29,686	-	

96,777,659

4,605,843

10,626,658

44,726,953

5,548,129

4,419,969

66,414

69,927,551

14,764,399

2,448,238

17,504,643

342,392,424

225,592

71.0%

\$26.2

\$

254,960,229

20,909,111

85,902,273

15,543,876

2,061,030

21,299,329

15,584,466

7,269,082

152,443

185,296

367,788

745,301

27.0%

\$9.8

148,405,357

39,774

61,757,783

1,007,755

7,086,152

101,522

155,188

1,504,874

9,263

9,606

556,662

52,986

33,669

500,050

342,232

2.0%

\$.8

1,495,206

10,086,232

1,238,901

33,000,913

9,394,157

9,394,157

8,084,386

90,713

8,175,098

50,570,168

Sep-96

Jan-11

Dec-09

Feb-03

Dec-02

Jan-00

Jan-98

Apr-11

Apr-11

May-09

Oct-09

Nov-08

May-08

Nov-06

Oct-05

2008 & 2011

118,694,526

380,949,568

15,543,876

14,000,000

12,789,210

67,265,183

21,141,858

11,844,239

8,150,800

15,321,061

9,606

152,443

238,283

401,457

342,232

316,305

\$36.8

\$

\$

2,988,062

27,920,248

\$ 551,454,182

\$ 142,584,366

Hurricane Fran

Total Hurricane

Jan. 2011 Ice Storm

Feb. 2003 Ice Storm

Dec. 2002 Ice Storm

Jan. 2000 Snow Storm

Total Winter Storms

Harnett Co. Tornado

Haywood Co. Rockslide

April 2011 Tornado

May 2009 Tornado

Nov. 2008 Tornado

May 2008 Tornado

Nov. 2006 Floods

Div. 3 Floods

Total Other

Percent (%)

\$ AVG/Year

Total All Events

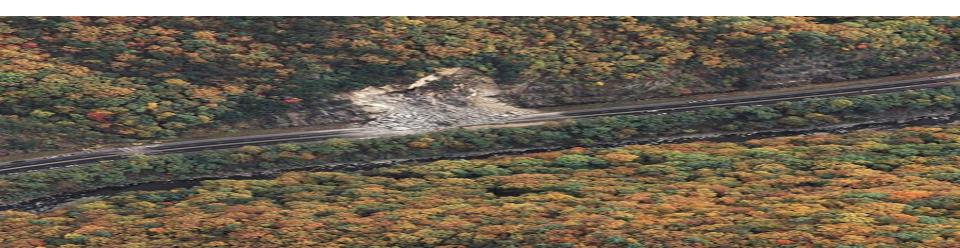
Wildfires

Jan. 1998 Floods & Snow

Dec. 2009 Winter Storm

Current Federal Disaster Receivable

- 5 outstanding disasters equals \$50.6M receivable due NCDOT
- NCDOT reached a historical high of \$160.9 M in Spring 2005 (\$49.9M FHWA & \$111M FEMA reimbursement outstanding)
- Reporting and imaging capability in SAP accelerated reimbursements and increased Federal share of cost
- Disasters tracked according to Division, County, roadway system & type of work (ie: Debris Removal, Emergency Protective Measures, Snow Removal, Vessel & Equipment Relocation, Signs and Signals)



Undeclared Disasters -Not eligible for Federal funds



NCDOT Reserves Primary & Secondary Maintenance Funds:

- Annual Reserved Snow & Ice Operations (SFY 2012 \$50M)
- +\$10M (unallocated) reserved until 3rd Quarter to fund unforeseen disasters
- Unallocated used to cover Non-FEMA disaster maintenance costs
- Shortage (not covered by \$60M) is advanced from other maintenance budgets
- Reduces funding for standard operations

Allocation of Highway Maintenance Funds for Snow & Ice Operations

(Costs in \$ Millions)

	Funds <u>Allocated</u>		Funds Expended	
FY2010 Snow & Ice Removal	\$	60	\$	64
FY2011 Snow & Ice Removal	\$	40	\$	49
FY2012 Snow & Ice Removal	\$	50		

Note1: Historical average snow & ice cost = \$30 million



Conclusion - NCDOT Disaster Budget

NCDOT Budgeting Process:

- Declared Disasters
 - Cost primarily Federally Reimbursed (71%)
 - FHWA or FEMA participation in cost is determined by type of event, location, severity of damage, & work activity required to respond appropriately
 - NCDOT pays first & requests reimbursement as federal \$'s become available
 - Settlement with maintenance & Trust Fund budget occurs after final FHWA/FEMA reimbursement
 - Cash Model reserves \$10 M annually for disasters coincides with \$10 M historical average/year

Non-declared disasters

- Historical annual cost \$30 M
 - Last 2 years average \$57 M
- Approximately 10% (\$50M) of SFY 2012 Maintenance Budget is allocated statewide for this purpose
- Additional \$10 M unallocated to divisions until 3rd quarter to meet an unforseen event to minimize the impact to standard operations

Exhibits

- Major Disaster Events for North Carolina
- Annual History of Snow & Ice Expenditures (Non-declared)
- Board of Transportation SFY 2012 Maintenance Allocations

Major Disaster Events for NC Beginning September 1996

					State Maint.	State Trust
Disaster Event	Date	Cost Estimate	FEMA %	FHWA %	%	Funds %
Hurricane Irene *	Aug-11	30.0	NA	NA	NA	NA
Hurricane Ivan	Sep-04	61.4	33%	48%	18%	1%
Hurricane Frances	Sep-04	15.9	58%	14%	27%	0%
Hurricane Isabel	Sep-03	39.9	26%	49%	21%	4%
Hurricane Floyd	Sep-99	89.0	28%	36%	35%	2%
Hurrican Fran	Sep-96	118.6	58%	23%	18%	1%
Haywood Co. Rockslide	Oct-09	15.3	0%	97%	0%	3%
Jan. 2011 Ice Storm	Ja n-11	15.5	0%	0%	100%	0%
Feb. 2003 Ice Storm	Feb-03	12.8	59%	23%	16%	1%
Dec. 2002 Ice Storm	De c-02	67.2	40%	27%	32%	2%
Jan. 2000 Snow Storm	Ja n-00	21.3	8%	18%	73%	0%
Winter Storm 2009	Ja n-09	14.0	100%	0%	0%	0%
Jan. 1998 Floods & Snow	Ja n-98	11.8	25%	11%	62%	2%
Total		\$ 512.7	42%	34%	29%	1%
Other Disasters		\$ 38.7				
Grand Total		\$ 551.4				

^{*} Note: Hurricane Irene cost estimate is preliminary and does not include the cost of the permanent NC 12 bridge structure.

Annual History of Snow & Ice Expenditures (Non-declared)

	T
1997	\$11,051,274.95
1998	\$11,400,644.75
1999	\$16,262,769.61
2000	\$25,563,556.35
2001	\$21,738,417.83
2002	\$19,631,666.50
2003	\$32,453,052.55
2004	\$44,939,518.76
2005	\$26,469,883.95
2006	\$25,983,698.36
2007	\$22,000,395.53
2008	\$24,705,362.08
2009	\$29,500,000.00
2010	\$66,400,000.00
2011	\$52,400,000.00
Total	\$430,500,241.22

NORTH CAROLINA BOARD OF TRANSPORTATION RECOMMENDED SUPPLEMENTAL ALLOCATION OF HIGHWAY MAINTENANCE APPROPRIATIONS FISCAL YEAR 2011 - 2012

SCHEDULE I - PRIMARY SYSTEM		ORIGINAL ALLOCATION	SUPPLEMENTAL ALLOCATION	TOTAL ALLOCATION
Road Maintenance		90,861,678	(1,736,712)	89,124,966
Bridge Maintenance (Central)		3,998,235	-	3,998,235
Bridge Maintenance (Divisions)		24,976,744	-	24,976,744
Railroad Signal Maintenance		490,000	-	490,000
Weigh Stations		2,000,000	-	2,000,000
Renovation of Rest Areas		1,200,000	-	1,200,000
Inmate Labor		7,420,000	-	7,420,000
Management and Technical Training		150,000	-	150,000
Condition Assessment		1,550,000	-	1,550,000
Drug & Alcohol Testing for CDL		200,000	-	200,000
NPDES – National Pollutant Discharge Elimin	ation System	1,000,000	-	1,000,000
Maintenance System Improvement		100,000	-	100,000
Snow and Ice		35,000,000	-	35,000,000
Beaver Control		112,500	-	112,500
Non-TIP Pavement Activities		600,000	-	600,000
Asphalt Emulsion Storage Tanks		100,000	-	100,000
Unallocated		5,000,000	-	5,000,000
Oversize / Overweight Fees		3,700,000	-	3,700,000
Traffic Signal Maintenance - R-4701		6,000,000	-	6,000,000
	SUB-TOTAL	\$184,459,157	(\$1,736,712)	\$182,722,445
SCHEDULE II - SECONDARY SYSTEM				
Road Maintenance		199,974,240	(1,985,580)	197,988,660
Bridge Maintenance (Central)		1,851,765	(1,500,000)	1,851,765
Bridge Maintenance (Divisions)		39.173.256		39,173,256
Railroad Signal Maintenance		2,400,000		2,400,000
Inmate Labor		1,770,000		1,770,000
Management and Technical Training		150,000		150.000
Condition Assessment		450,000		450,000
State Park Maintenance				
		500,000		500,000
Maintenance Systems Improvements		250,000		250,000
Snow and Ice Beaver Control		15,000,000		15,000,000
		337,500		337,500
Non-TIP Pavement Activities		400,000		400,000
Asphalt Emulsion Storage Tanks		100,000		100,000
Unallocated		5,000,000		5,000,000
	SUB-TOTAL	\$267,356,761	(\$1,985,580)	\$265,371,181
SCHEDULE III - GENERAL MAINTENANCE	RESERVE	\$54,493,713	\$61,536,530	\$116,030,243
SCHEDULE IV - SYSTEM PRESERVATION		\$95,282,473	\$118,942,743	\$214,225,216
SCHEDULE V - CONTRACT RESURFACING	1	\$0	\$406,731,130	\$406,731,130
	GRAND TOTAL	\$601,592,104	\$583,488,111	\$1,185,080,215