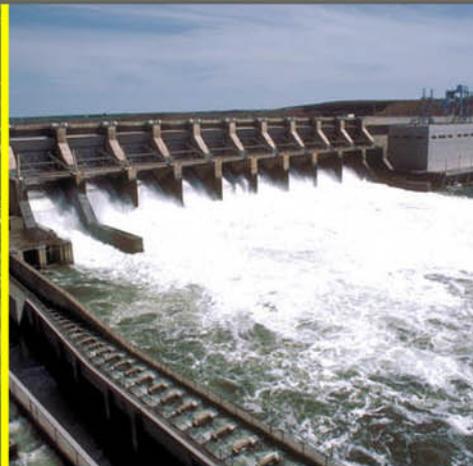
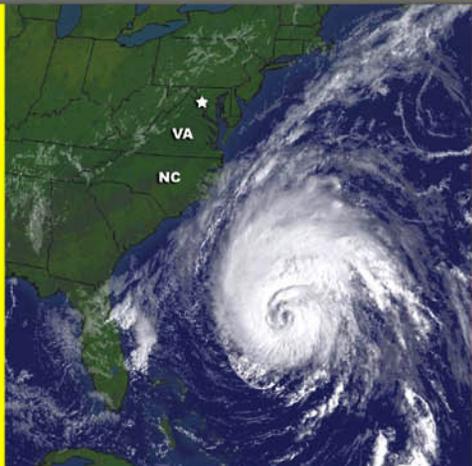


National Weather Service *Partnerships for America*



John E. Jones

**NOAA Deputy Assistant Administrator for Weather Services
& National Weather Service Deputy Director**

2006 National Severe Weather Workshop

March 2006



National Weather Service

Partnerships for America

Overview

- **The Nation's Risks: Extreme Climate, Weather, and Water**
 - *2005 in Review*
- **The Future: Action for America**
 - *Strategic Initiatives*



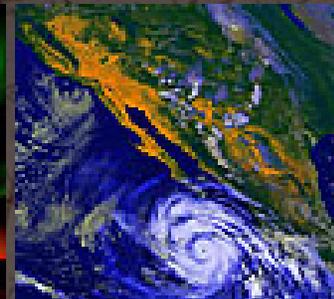
Climate



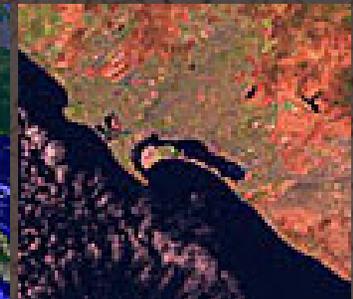
Oceans



Space
Environment



Atmosphere



Land

"America's Weather Enterprise: Protecting Lives, Livelihoods, and Your Way of Life"

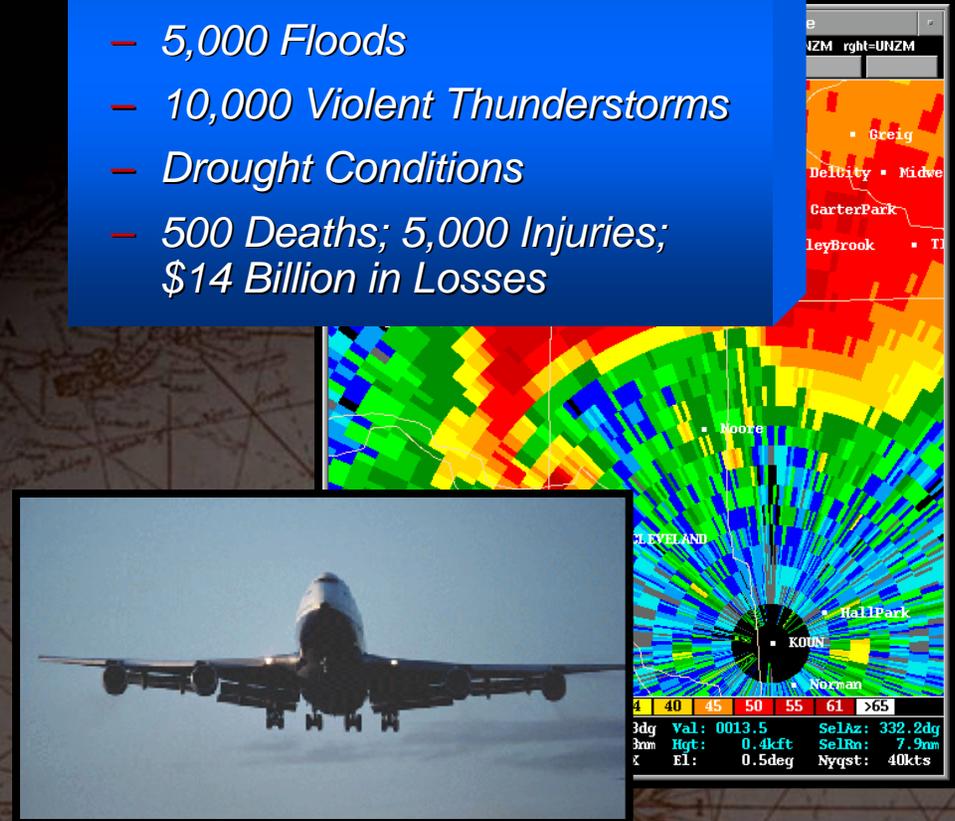


The Nation's Risks: *Extreme Climate, Weather, and Water*

- Provide climate, water, weather forecasts and warnings to protect **life** and **property** and enhance the economy
- 76 billion observations
- 1.5 million forecasts
- 50,000 warnings

A Typical Year Brings:

- 6 Hurricanes
- 1,000 Tornadoes
- 5,000 Floods
- 10,000 Violent Thunderstorms
- Drought Conditions
- 500 Deaths; 5,000 Injuries;
\$14 Billion in Losses



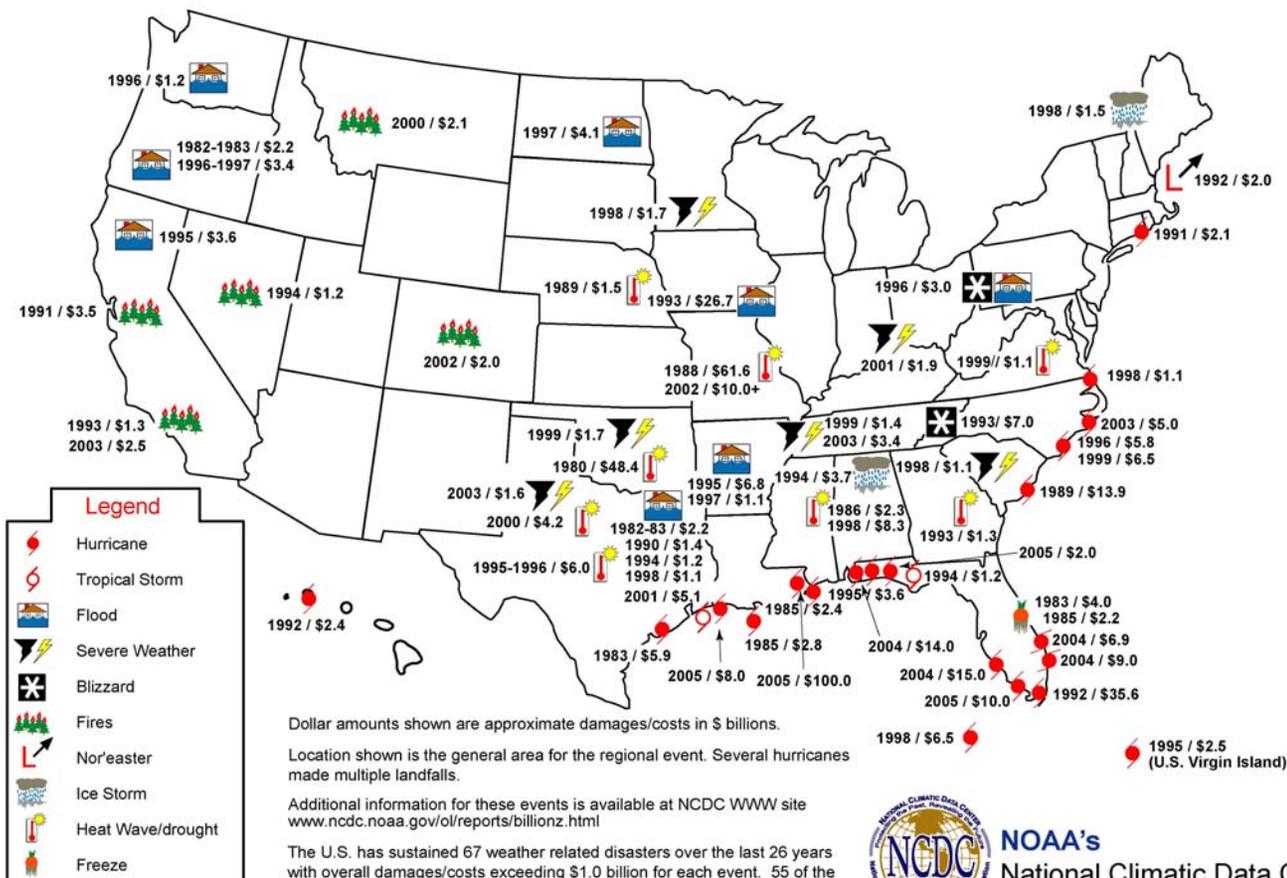
“America’s Weather Enterprise: Protecting Lives, Livelihoods, and Your Way of Life”



The Nation's Risks: Extreme Climate, Weather, and Water



Billion Dollar Weather Disasters 1980 - 2005



"America's Weather Enterprise: Protecting Lives, Livelihoods, and Your Way of Life"



The Nation's Risks: Extreme Climate, Weather, and Water

Significant U.S. Weather and Climate Events for 2005

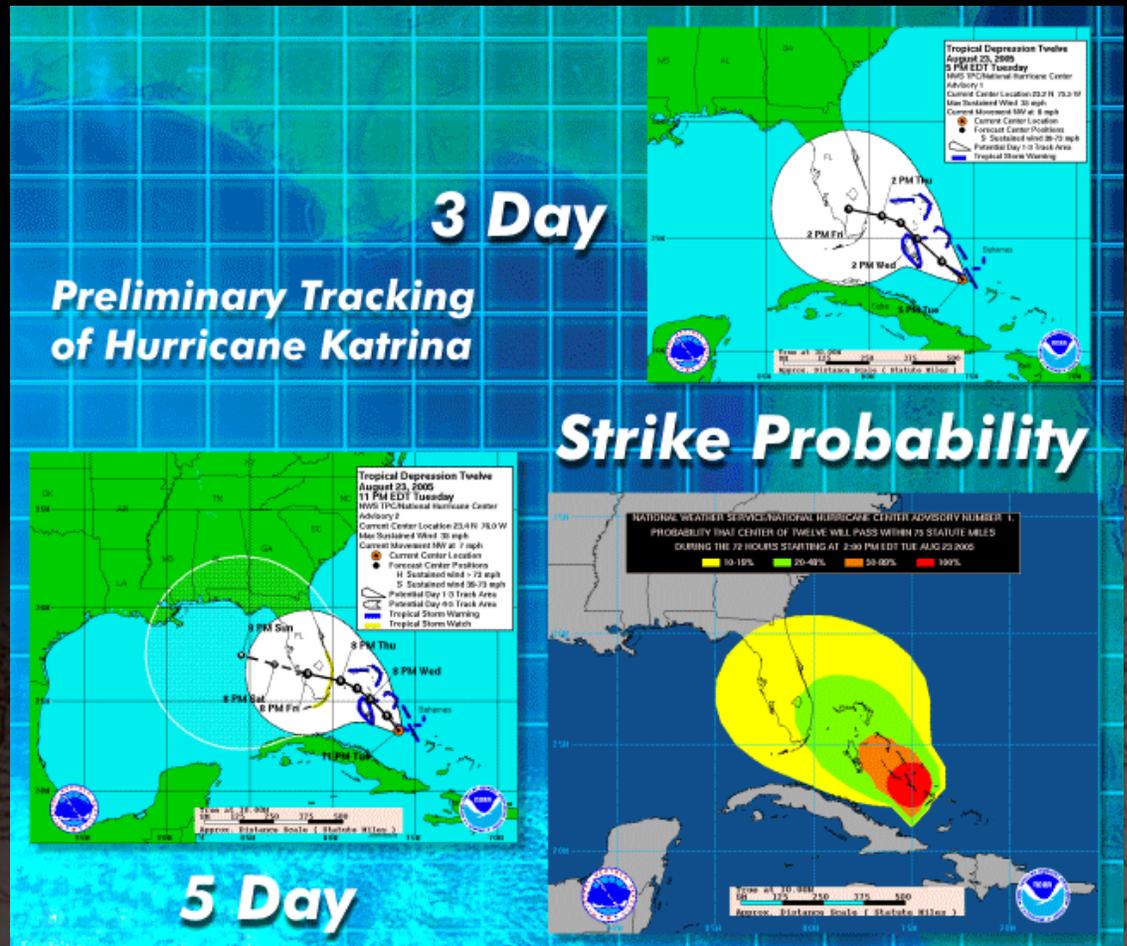


"America's Weather Enterprise: Protecting Lives, Livelihoods, and Your Way of Life"



The Nation's Risks: Extreme Climate, Weather, and Water

2005 in Review

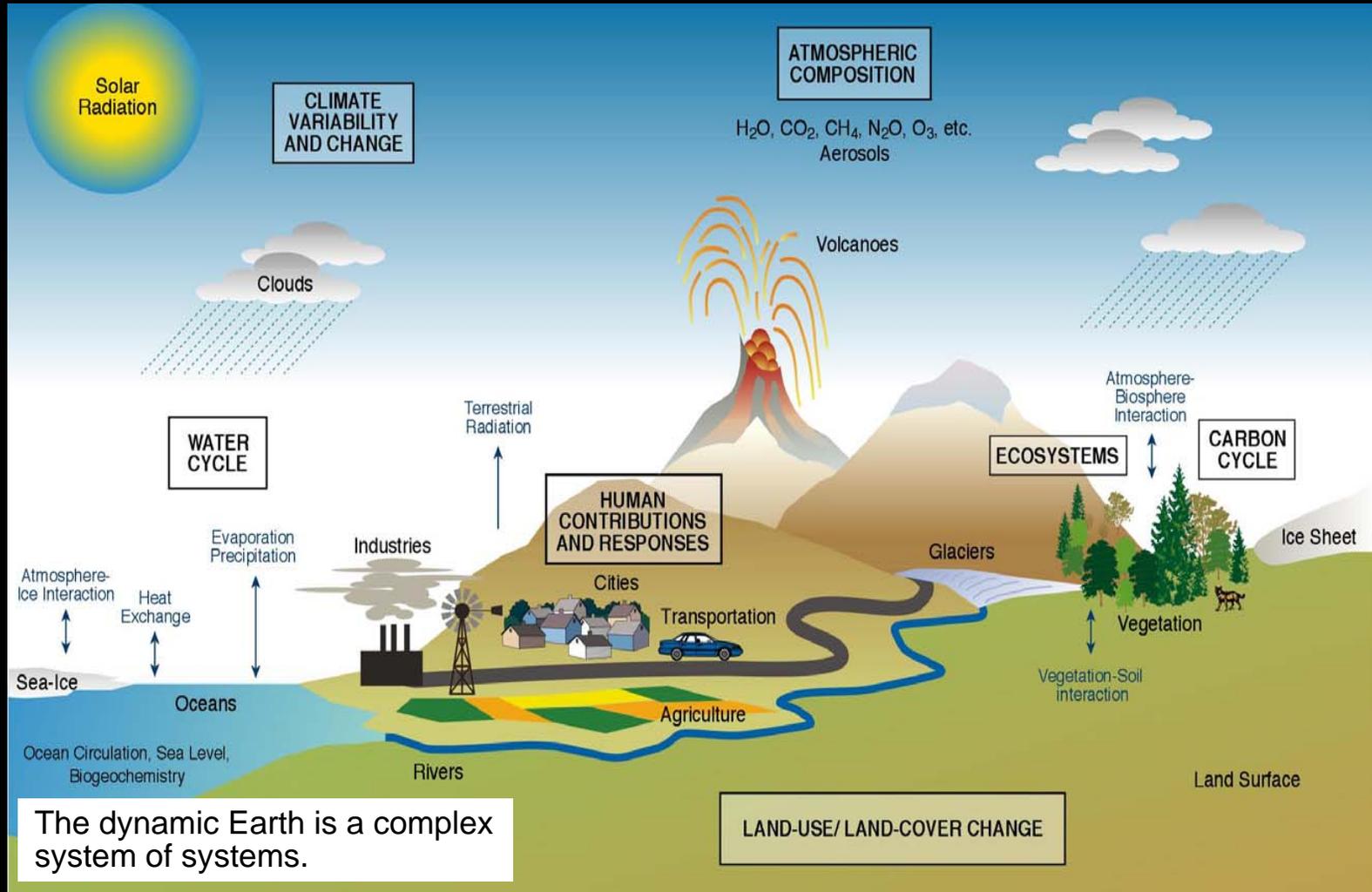


"America's Weather Enterprise: Protecting Lives, Livelihoods, and Your Way of Life"



The Future Action for America

Total Environmental Awareness



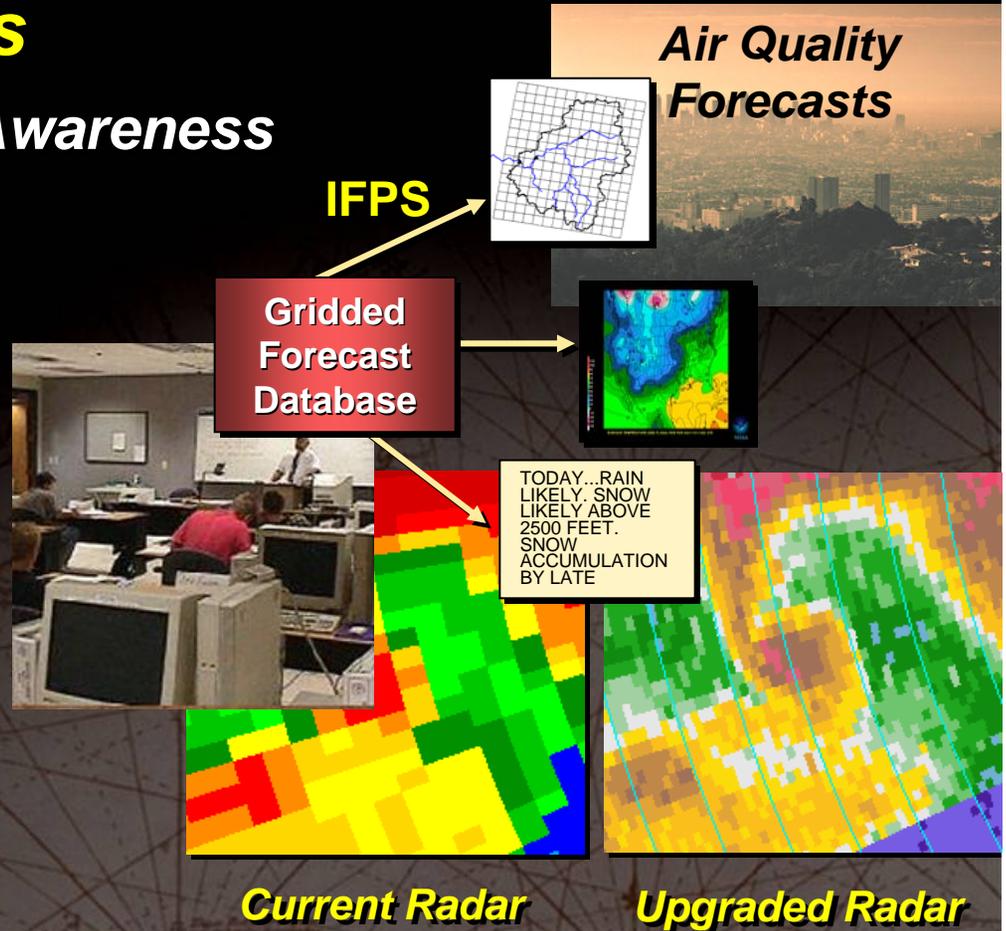
“America’s Weather Enterprise: Protecting Lives, Livelihoods, and Your Way of Life”



The Future Action for America

Integrating and Improving Skills & Tools

- *Integrated Environmental Awareness*
- *Grow National Digital Forecast Database (NDFD)*
- *Polygon Warnings*
- *Improve Radar*
- *Improve Public Education/
Awareness*

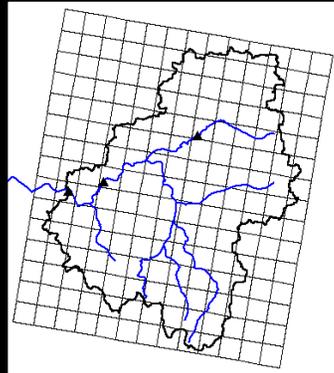


“America’s Weather Enterprise: Protecting Lives, Livelihoods, and Your Way of Life”



The Future Action for America

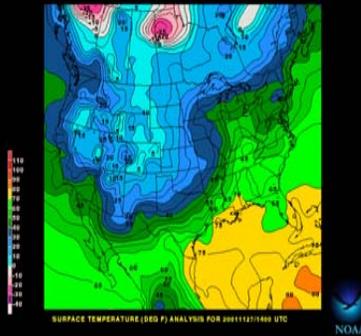
Digital Services (NDFD)



Commercial weather companies & emergency managers use grids to generate tailored products

- ✓ More weather data
- ✓ Higher resolution forecasts

Different Products for Different Customers



The public, emergency managers and city planners use WWW. graphic products for detailed forecasts

- ✓ Visual displays of probability
- ✓ User-defined products create business opportunities

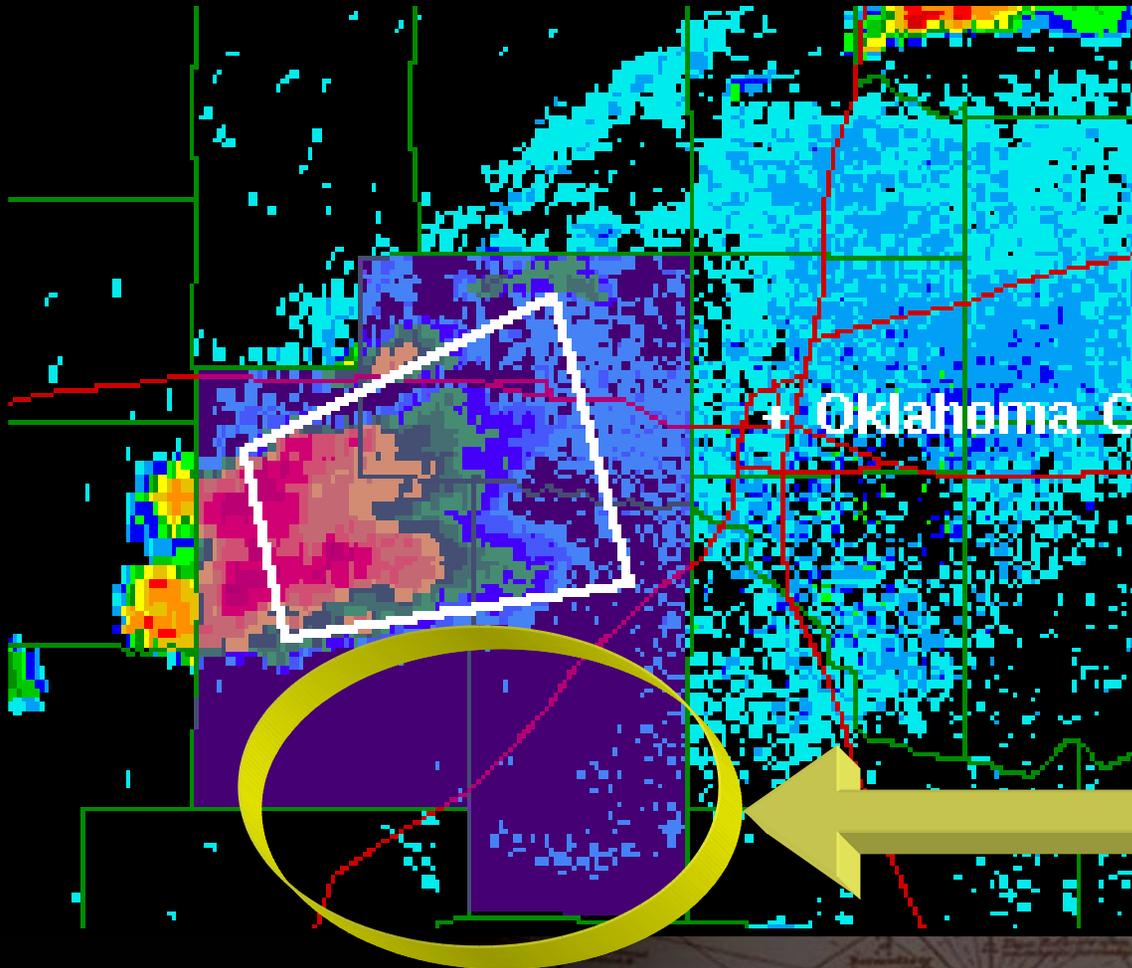
TODAY...RAIN LIKELY. SNOW LIKELY ABOVE 2500 FEET. SNOW ACCUMULATION BY LATE AFTERNOON 1 TO 2 INCHES ABOVE 2500 FEET. COLDER WITH HIGHS 35 TO 40. SOUTHEAST WIND 5 TO 10 MPH SHIFTING TO THE SOUTHWESTEARLY THIS AFTERNOON. CHANCE OF PRECIPITATION 70%.

Radio stations & public read text forecasts



The Future Action for America

Polygon Warnings & Demographic Data



National Weather Service Forecast Office - WFO, Ft. Worth, Texas - Microsoft Internet Explorer

Address: http://www.arh.noaa.gov/fwd/gwarn/WGUS54_KFVD_090707_200406.html

www.srh.noaa.gov

National Weather Service Forecast Office
Fort Worth, TX

Site Map News Organization Search Enter Search Here

North Texas Graphical Warning Information (Experimental)
Wednesday, June 09, 2004 6:10:11 AM

National Weather Service WGUS54 KFWD 090707 200406 Warning Profile

FLASH FLOOD WARNING

Issued: Wednesday 6/9/2004 2:05:00 AM Expires: Wednesday 6/9/2004 6:00:00 AM

Event: Flash Flood
Area: 2,841.3756 Miles
Location: Denton Parker Tarrant Wise

Impacted Population:	1,341,104
In Homes:	79.16%
In Multi-Family Units:	14.21%
In Mobile Homes:	6.42%
English Spoken Well:	97.01%
English Not Spoken:	2.99%
Urban:	88.91%
Rural:	11.09%
Not Living in Texas in 1995:	8.78%

Source: 2000 Census

DESCRIPTION
* At 2:05 AM CDT... Law Enforcement Officials Reported Flash Flooding Of Some Service Roads Near Hudson Oaks... And Willow Park... In Parker County. Excessive Runoff From This Storm Will Cause Flash Flooding Of Small Creeks And Streams... Highways And Underpasses. Additionally... Country Roads And Fermlands Along The Banks Of Creeks And Streams And Other Low Lying Areas Are Subject To Flash Flooding. Do Not Drive Your Vehicle Into Areas Where The Water Covers The Roadway. The Water Depth May Be Too Great To Allow Your Car To Cross Safely. Vehicles Caught In Rising Water Should Be Abandoned Quickly. Move To Higher Ground. A Flash Flood Warning Means That Flooding Is Occurring Or Is Imminent. Most Flash Flood Deaths Occur In Automobiles. Do Not Attempt To Cross Bridges... Dips... Or Other Low Spots If Water Covers The Roadway. Never Try To Cross A Flowing Stream... Even A Small One... On Foot. To Escape Rising Water Move Up To Higher Ground.

**Polygon
Eliminates
False Alarm Area**

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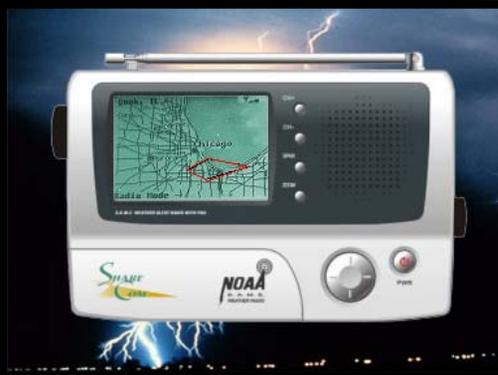


The Future Action for America

Polygon Warnings & Demographic Data

WFO Study:

- Tornado Warnings Covered:
 - 31,990 square miles & 494 towns
- Study Revealed polygon warnings would have **reduced** area warned **by 70%!**
 - Reduction of 22,490 square miles and 242 fewer towns



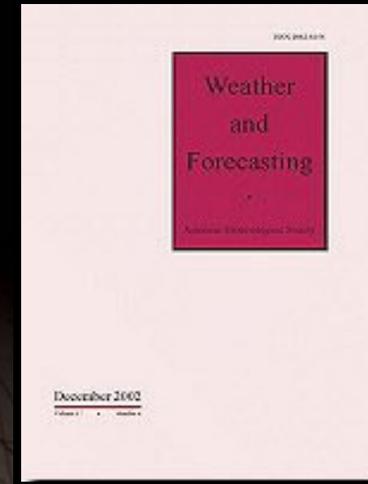
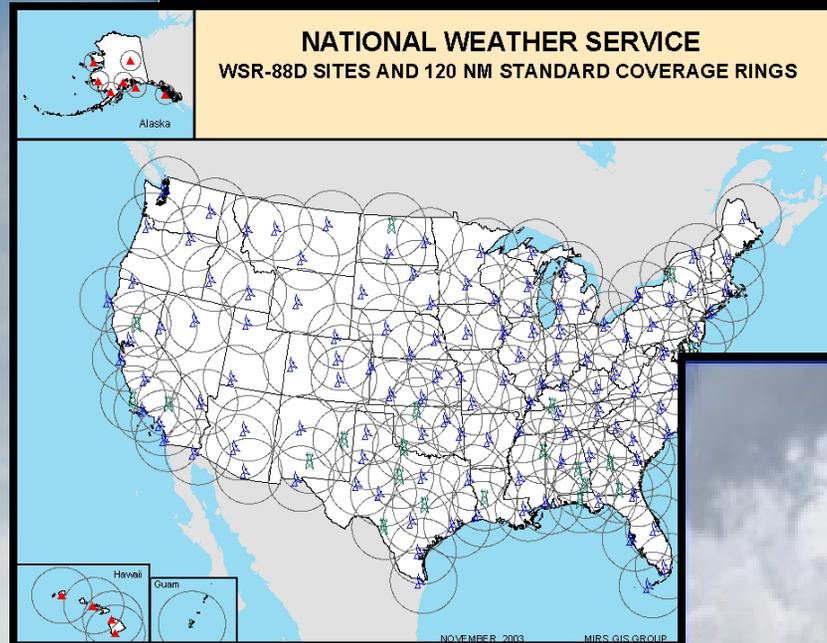
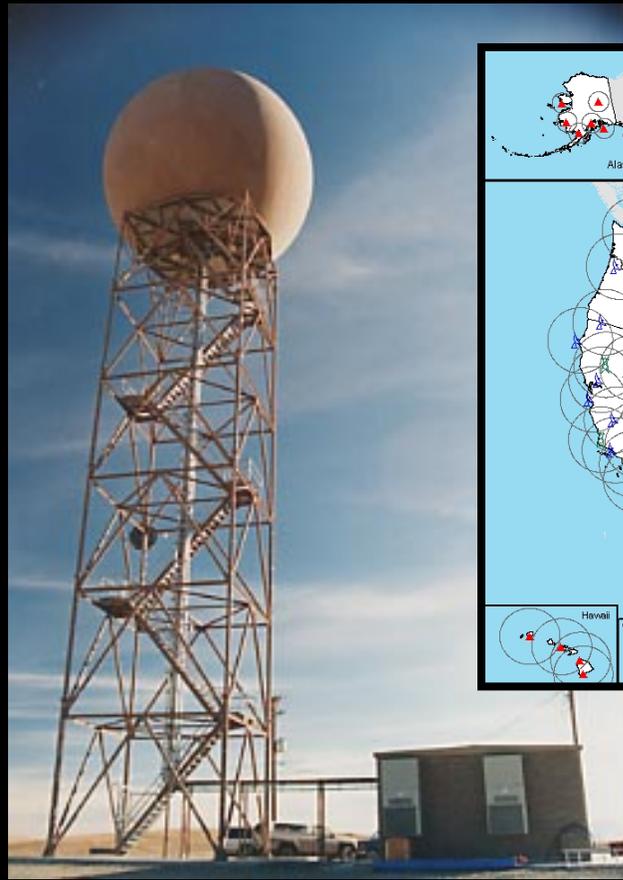
Future graphical displays???

“America’s Weather Enterprise: Protecting Lives, Livelihoods, and Your Way of Life”



The Future Action for America

NEXRAD



“America’s Weather Enterprise: Protecting Lives, Livelihoods, and Your Way of Life”



The Future Action for America

Phased Array Radar



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The Future *Action for America*

Three Strategic Initiatives

- **Develop an organization-wide concept of operations**
- **Consolidate data-level IT management**
- **Secure our role in the provision of Aviation Products and Services**

“America’s Weather Enterprise: Protecting Lives, Livelihoods, and Your Way of Life”



The Future Action for America

Strategic Initiatives

Develop an Organization-Wide
Concept of Operations



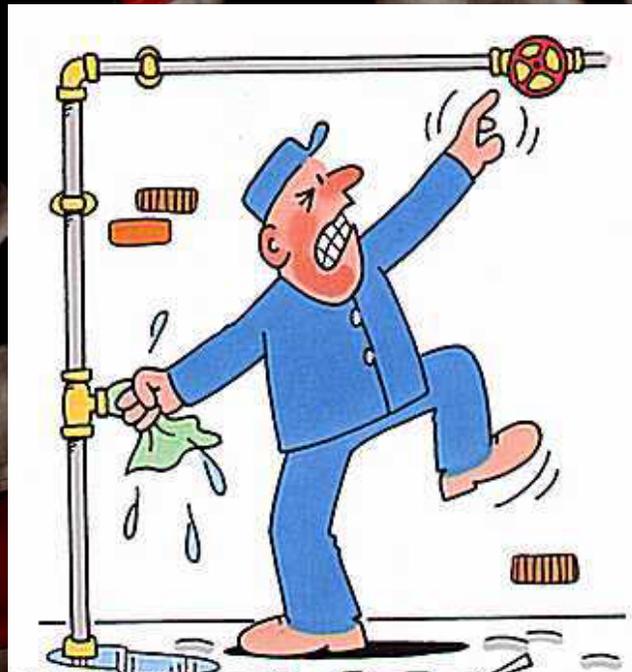
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The Future Action for America

Strategic Initiatives

Consolidate Data-Level IT Management



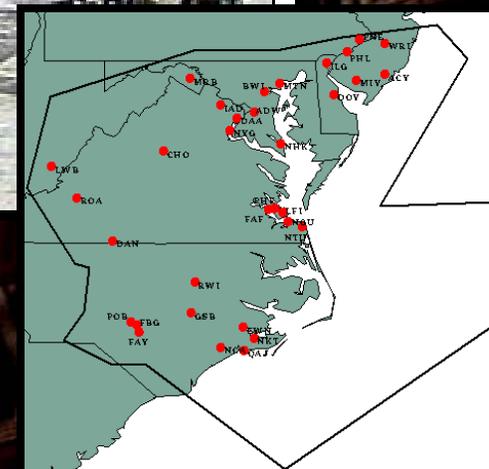
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The Future Action for America

Strategic Initiatives

Secure our role in the provision of
Aviation Products and Services



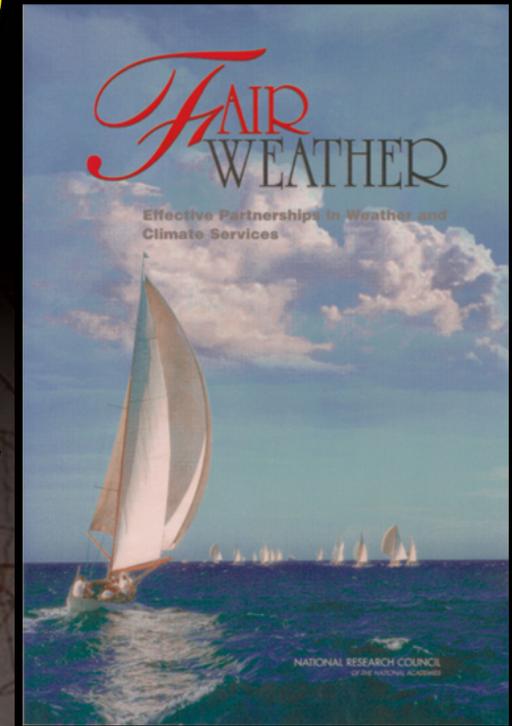
“America’s Weather Enterprise: Protecting Lives, Livelihoods, and Your Way of Life”



The Future Action for America

NOAA Partnership Policy Revision

- **New NOAA Partnership Policy commits NOAA to:**
 - *actively seek and give due consideration to all views when we make decisions to create, modify, or discontinue **products and services**;*
 - *develop our decisions with the goal of optimizing the environmental information enterprise as a whole; and*
 - *serve the public interest in the decisions we make about NOAA's environmental information services.*



“America’s Weather Enterprise: Protecting Lives, Livelihoods, and Your Way of Life”



The Future Action for America

NOAA Partnership Policy Revision

“NOAA recognizes cooperation, not competition, with private sector and academic and research entities best serves the public interest and best meets the varied needs of specific individuals, organizations, and economic entities. NOAA will take advantage of existing capabilities and services of commercial and academic sectors to support efficient performance of NOAA’s mission and avoid duplication and competition in areas not related to the NOAA mission.”

“America’s Weather Enterprise: Protecting Lives, Livelihoods, and Your Way of Life”



National Weather Service Partnerships for America

Saving Lives Through Partnerships

NOAA TEAM

PARTNERS

END USERS



"America's Weather Enterprise: Protecting Lives, Livelihoods, and Your Way of Life"





- Backup slides



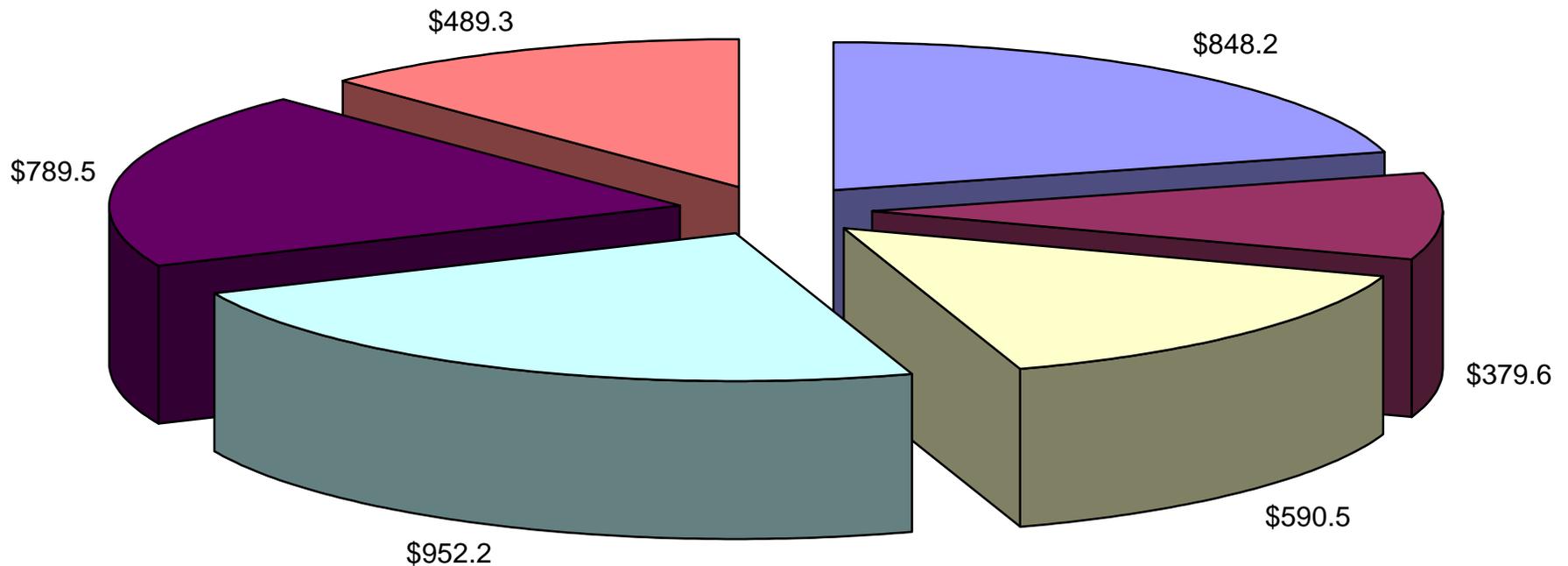
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The Future Action for America

Budget

\$4,049.3M



■ NWS ■ OAR ■ NOS ■ NESDIS ■ NMFS ■ PS

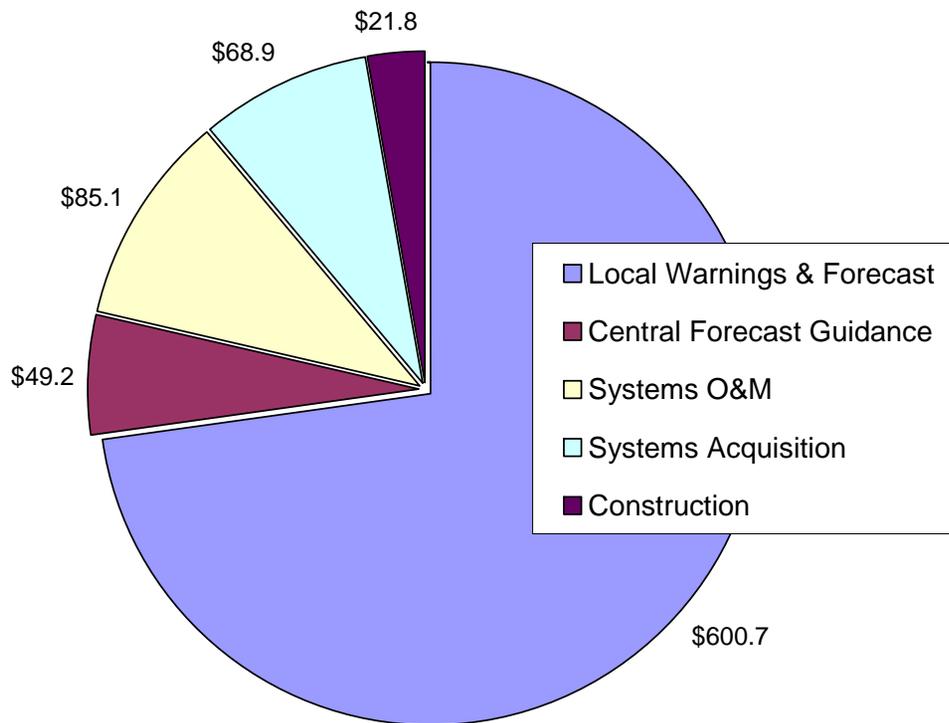
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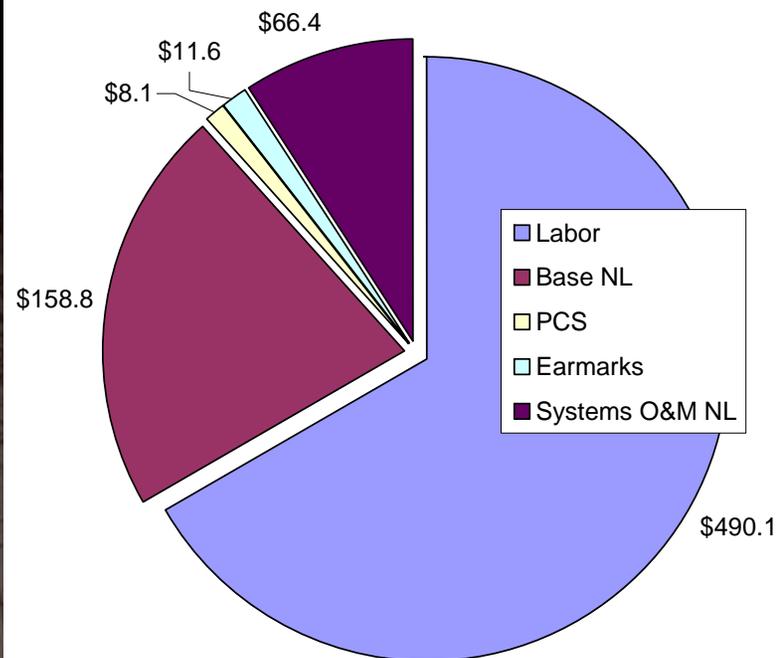
The Future Action for America

Budget

NWS FY06 Budget Composition By Account \$825.7M



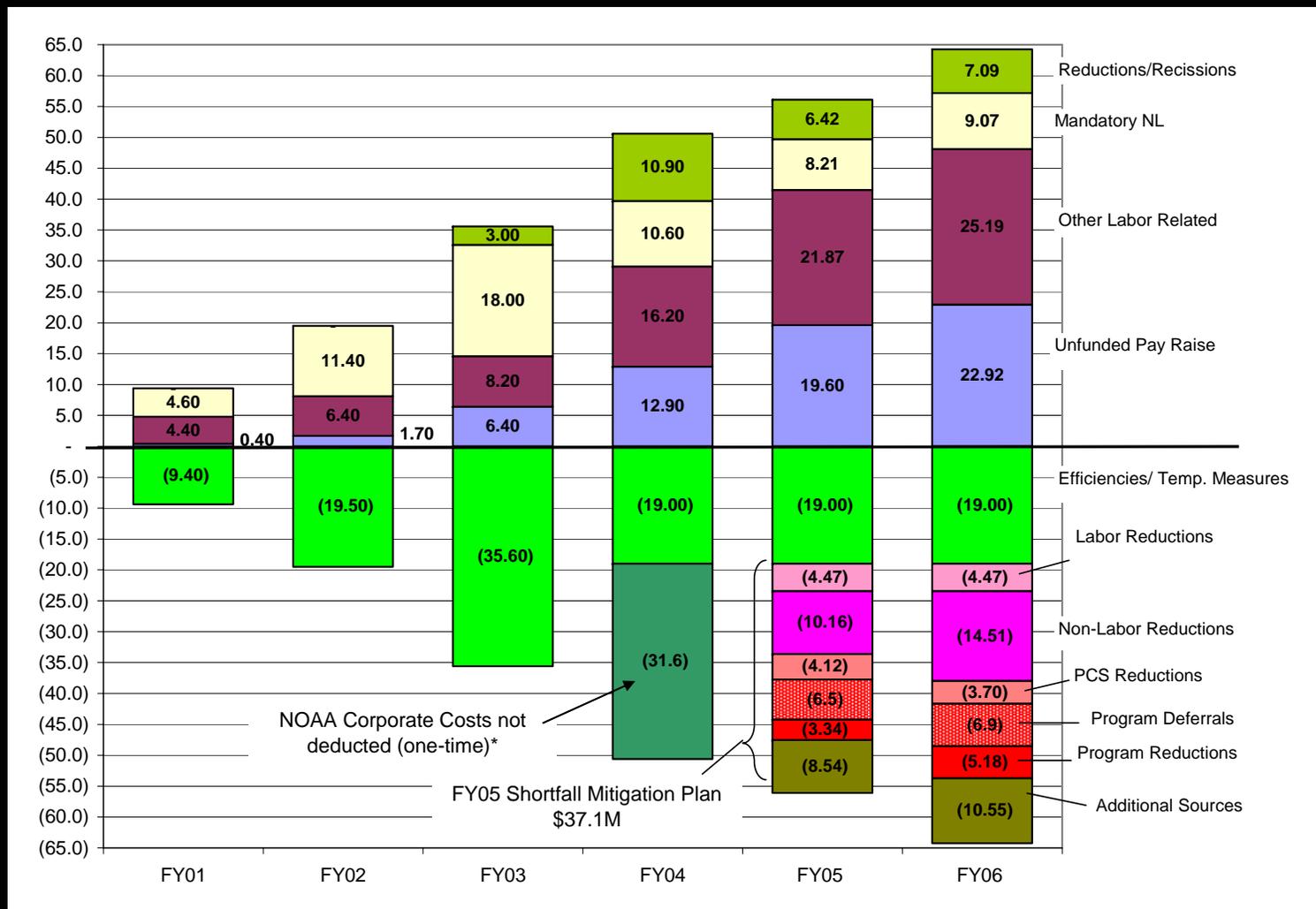
NWS FY06 ORF Composition (\$M)



“America’s Weather Enterprise: Protecting Lives, Livelihoods, and Your Way of Life”



The Future Action for America Budget Challenges



“America’s Weather Enterprise: Protecting Lives, Livelihoods, and Your Way of Life”