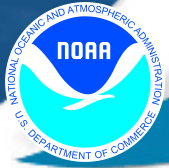


NWS Director Briefing

FY 2011 Implementation Plan for Training and Education

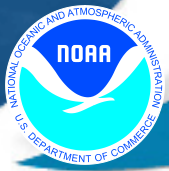
September 28, 2010



Outline



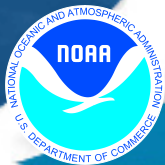
- **Overview/Budget Assumptions**
- **Resource Breakout**
- **Training Highlights by Area**
- **Strategic Training Initiatives**
- **Summary**
- **Background**



Overview



- **Level-funded Base funds support infrastructure but do NOT cover all needed attrition training for field staff.**
- **AA/CFO committed to provide an additional \$2M in FY11:**
 - *\$436K will cover shortfalls in NEXRAD & Dual-Pol funding*
 - *\$764K will fund attrition training for field staff*
 - *\$800K will fund new Human Factors, Societal Impact and Seasonal Readiness Assessment training*
- **AWIPS training based on no slip to current April 2010 schedule.**



IP11 Budget Assumptions



1. OCWWS

- Base non-labor funding level funded from FY10 - \$5,119K.
- Labor funds salaries subject to lapse rates.

2. OST

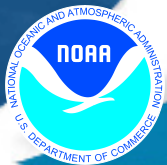
- AWIPS II activities at \$1,904K O&M and \$157K PAC. If AWIPS II deployment schedule changes, funds would be reallocated to teach needed AWIPS I attrition courses.
- Dual-Pol funds only NWSTC Maintenance Training - \$239K. Dual-Pol NOT funding \$136K of WDTB Operations Training.

3. OOS

- NEXRAD non-labor funding is reduced by \$300K from FY10 to \$989K in FY11; Labor funds unchanged.
- ASOS, RRS, and WRIP funds their maintenance courses.

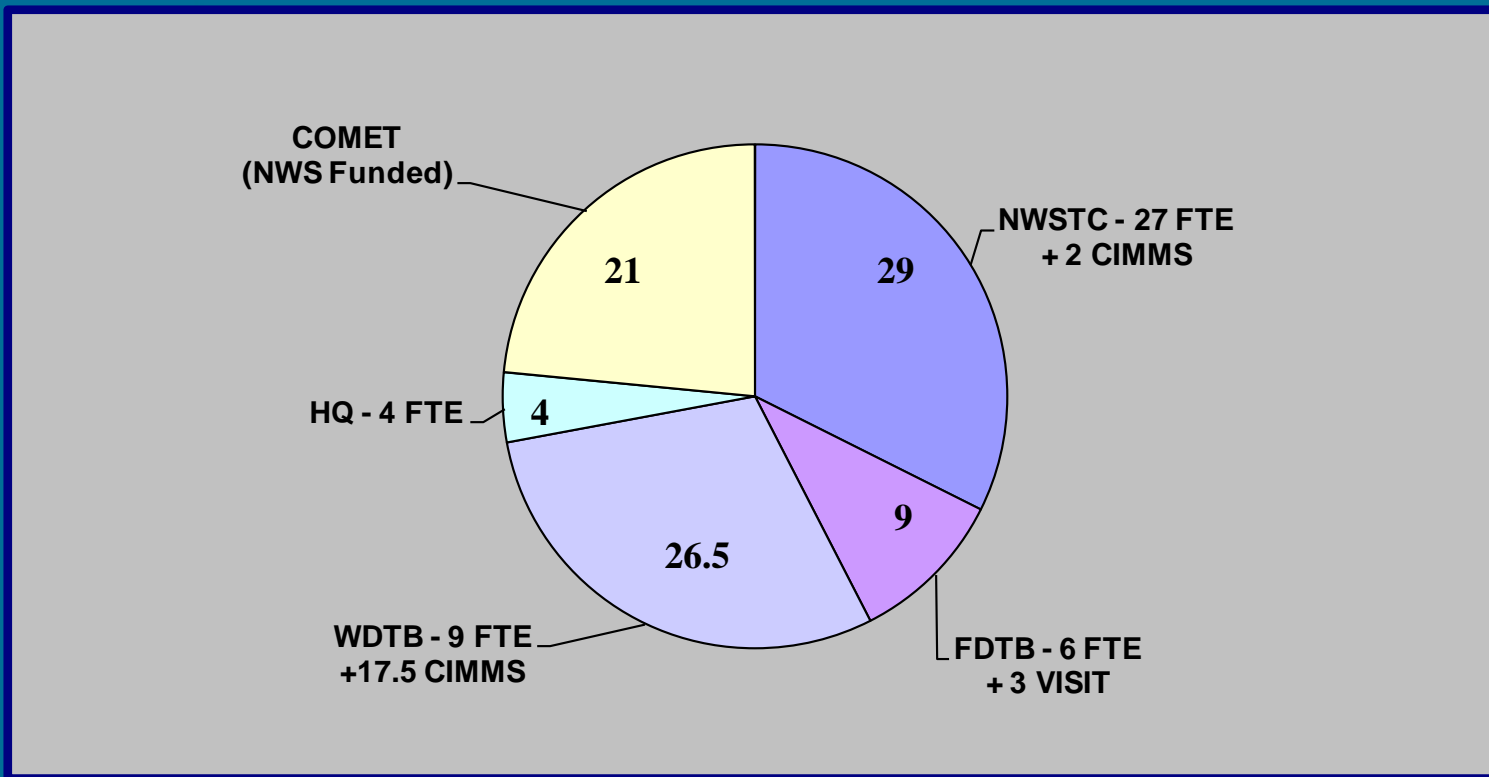
4. AA/CFO

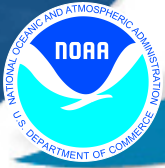
- Provides \$2M total funding and are annotated as "AA" as the funding source in the IP tables.



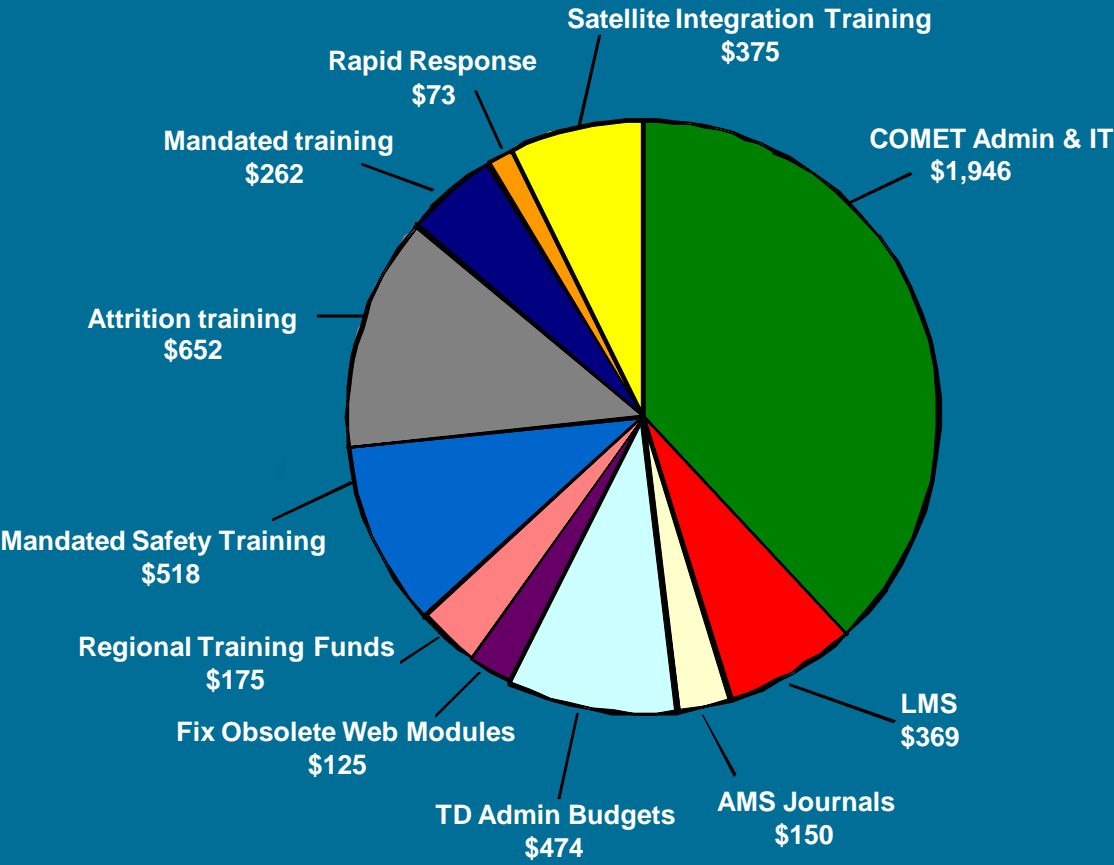
IP11 Staffing Breakout

87.5 Total staff (FTE + University)

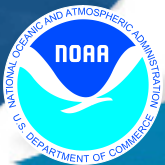




FY11 Base Budget Breakout

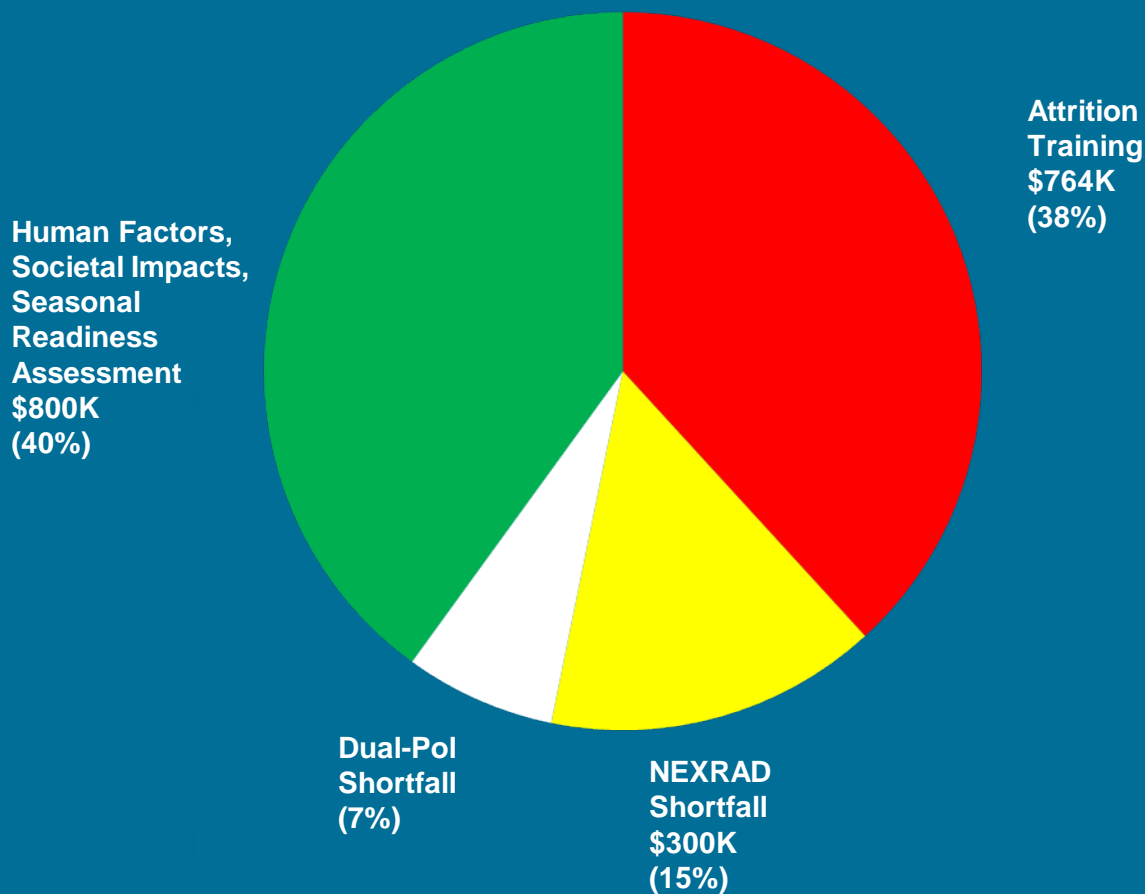


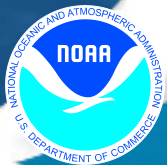
Program	\$K	%
COMET Admin & IT	1,946	38.0
Attrition Training	652	12.7
Mandated Safety Training	518	10.1
TD Admin Budgets	474	9.3
Satellite Integration Training	375	7.3
LMS	369	7.2
Mandated Training	262	5.1
Regional Training Funds	175	3.4
AMS Journals	150	2.9
Fix Obsolete Web Modules	125	2.4
Rapid Response	73	1.4
TOTAL	5,119	100



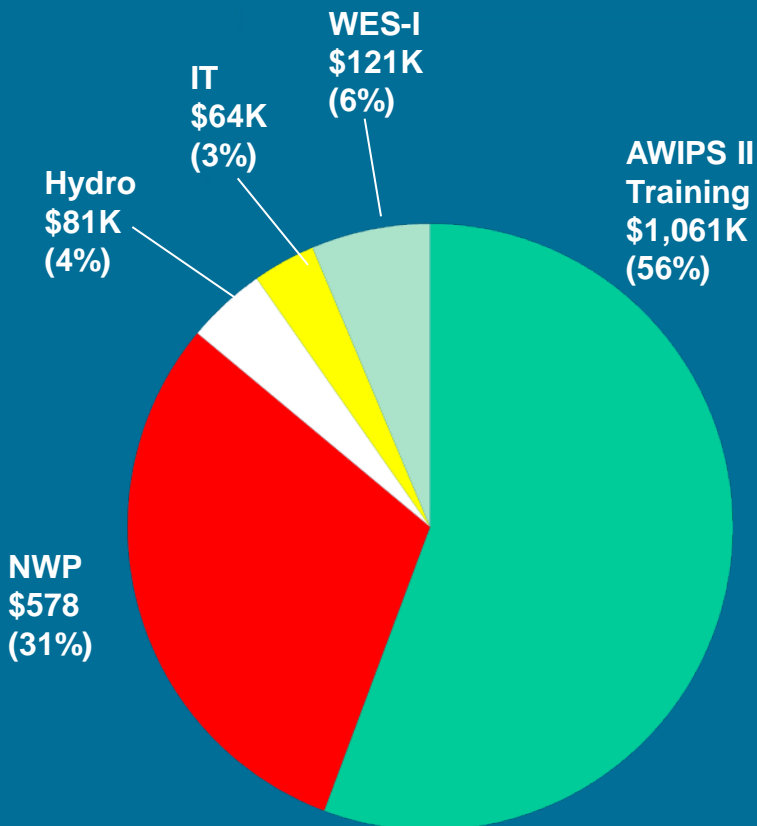
FY11 AA/CFO Budget Breakout

\$2,000K



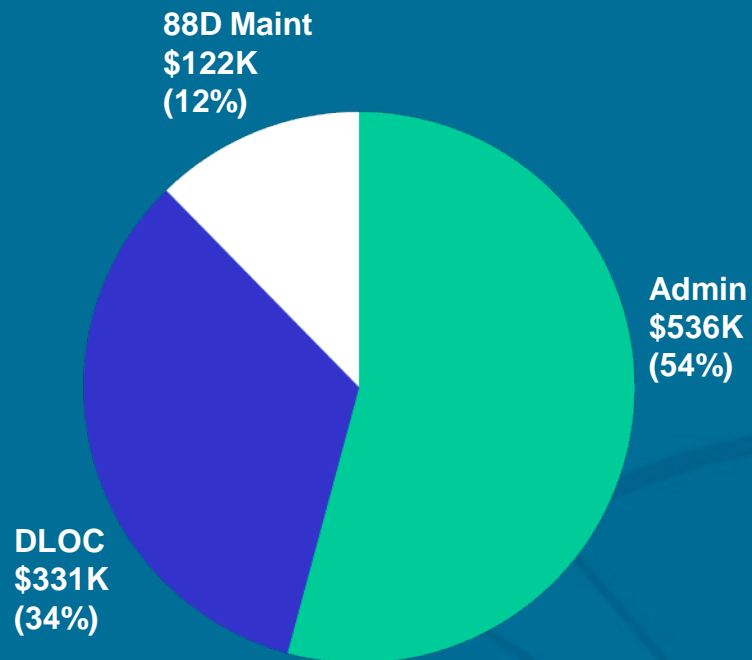


FY11 AWIPS O&M/NEXRAD Budget Breakouts

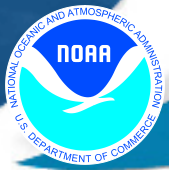


AWIPS O&M Funds - \$1,904K

Note: WES-II Bridge (\$157K) is AWIPS PAC funded in FY11.



NEXRAD Funds - \$989K

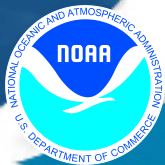


OST AWIPS Training



AWIPS II Training

- System Admin OT&E and Deployment courses – 2 people per site.
- **Applications Focal Point Training - *Lack of full documentation results in Focal Point training NOT completed by start of Field OT&E.***
- Variance Training
- Retool Local Applications Training
- AWIPS program funding 3 dedicated Raytheon staff for documentation and training. However, lack of access to developers is an obstacle.
- Unanticipated funding reduction of \$137K from AWIPS program in FY10 is restored in FY11 AWIPS O&M funding.
- OCWWS Base funds salaries of AWIPS trainers.



Aviation and Marine Training



Aviation

Funded by OCWWS Aviation (\$300K):

- Volcanic Ash training underway
- DLAC-III - *Improving Aviation Weather Services* to begin late in FY11

Funded via OCWWS Base Funds (\$85K):

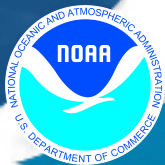
- CWSU: WES simulations for CWSU meteorologists

Funded via CFO (“AA”) Funds (\$50K):

- Upgrade old ARD in CWSUs to WES-II

Marine

- Update obsolete Web modules (\$125K) – Marine is top priority



Climate and Fire Weather Training

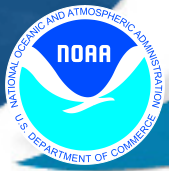


Climate

- Plan funds Climate Variability (Basic and Advanced) & Operational Climate Services course to NWS focal points as part of Mandatory training (\$180K Base funds).
- NOAA Climate Service has committed in principle to fund Climate Change Web modules (\$500K/year) once NOAA Climate Service is established, but this is not reflected in the plan.

Fire Weather

- IMET Workshop funded (\$180K).
- Fire Weather PDS team is finishing work – COMET module development starts late in FY11 (\$155K in Fire Weather Funds).



Maintenance Funded Training

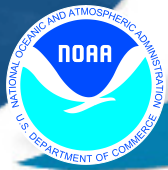


- **Dual-Pol Development Support**
- **WRIP (Maintenance & Focal Point)**
- **RRS Maintenance (Attrition & Deployment)**
- **ASOS Maintenance**
- **NWR Transmitter Maintenance (Armstrong, Armstrong 2010, Crown, Nautel)**
- **Safety training (Environmental Compliance, Safety Training, Fall Protection)**
- **Wind Profiler Deployment Support**



OHD/OCWWS Funded Hydrology training

- **CHPS Training**
- **RFC Workshop – Coordinated by OCWWS HSD**
- **Advanced Hydrologic Applications (NWSTC)**
- **WFO Hydro Program Management (NWSTC)**
- **Advanced Hydrologic Science (COMET)**
- **Flash Flood/QPE Workshop (COMET)**
- **Virtual QPF/Rapid Onset Floods Course**
- **Short/Long Term Ensembles Module**



NWS Workforce Need to Prepare for Strategic Initiatives



- AA/CFO will provide \$800K in IP11 to begin training



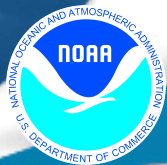
Decision Support Services & Seasonal Readiness Assessment

Societal Impacts



Collaborative Simulations

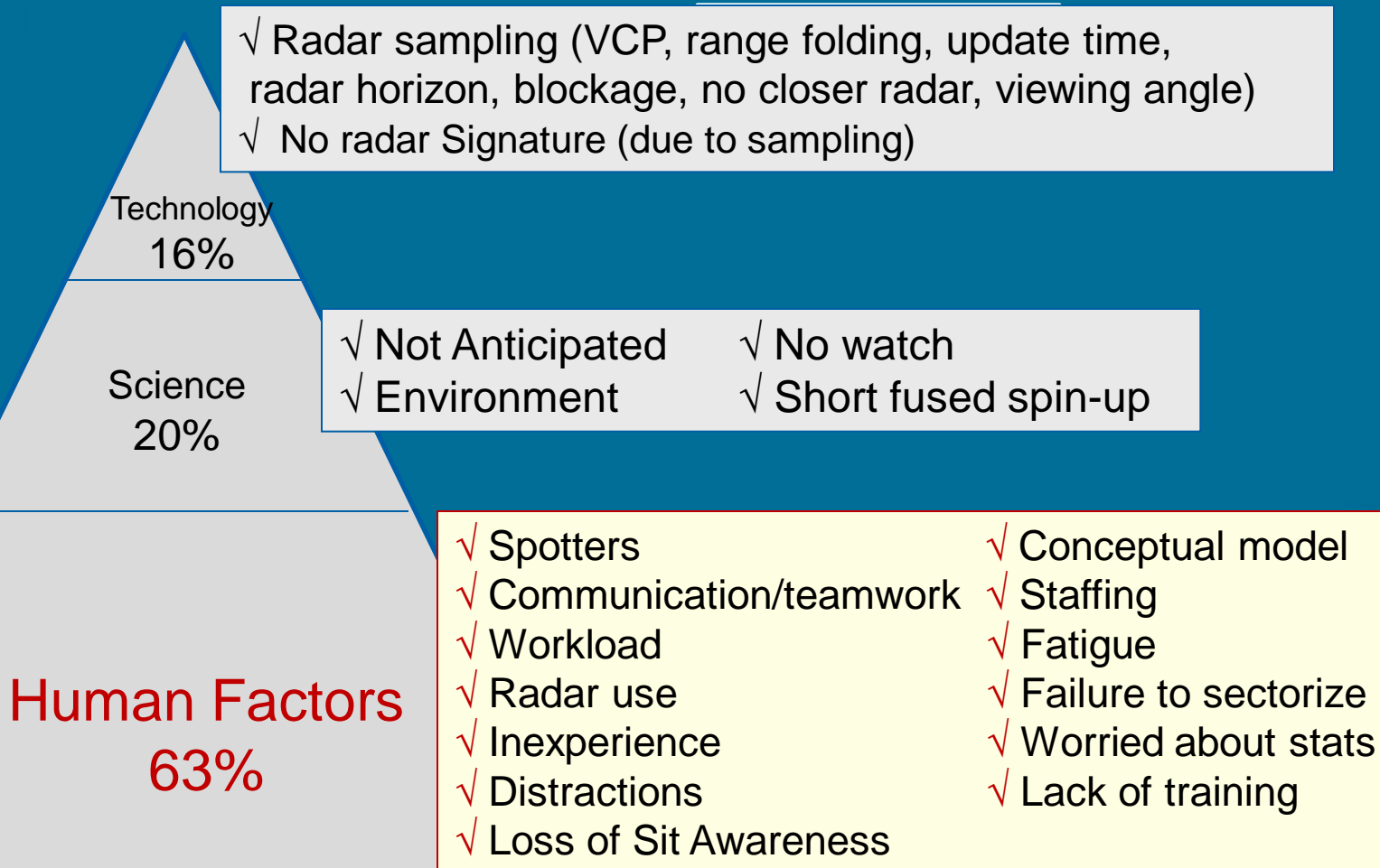


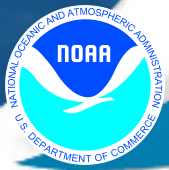


Human Factors from Root Cause Data



127 tornado events

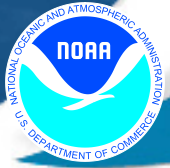




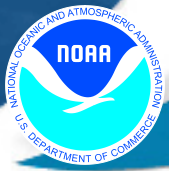
Summary



- **Training funding continues to be eroded by cuts and inflation.**
- **AA/CFO funding of \$2M is critical to meet basic training needs of workforce and address Human Factors, Societal Impacts and Seasonal Readiness training.**



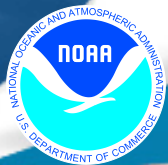
Background



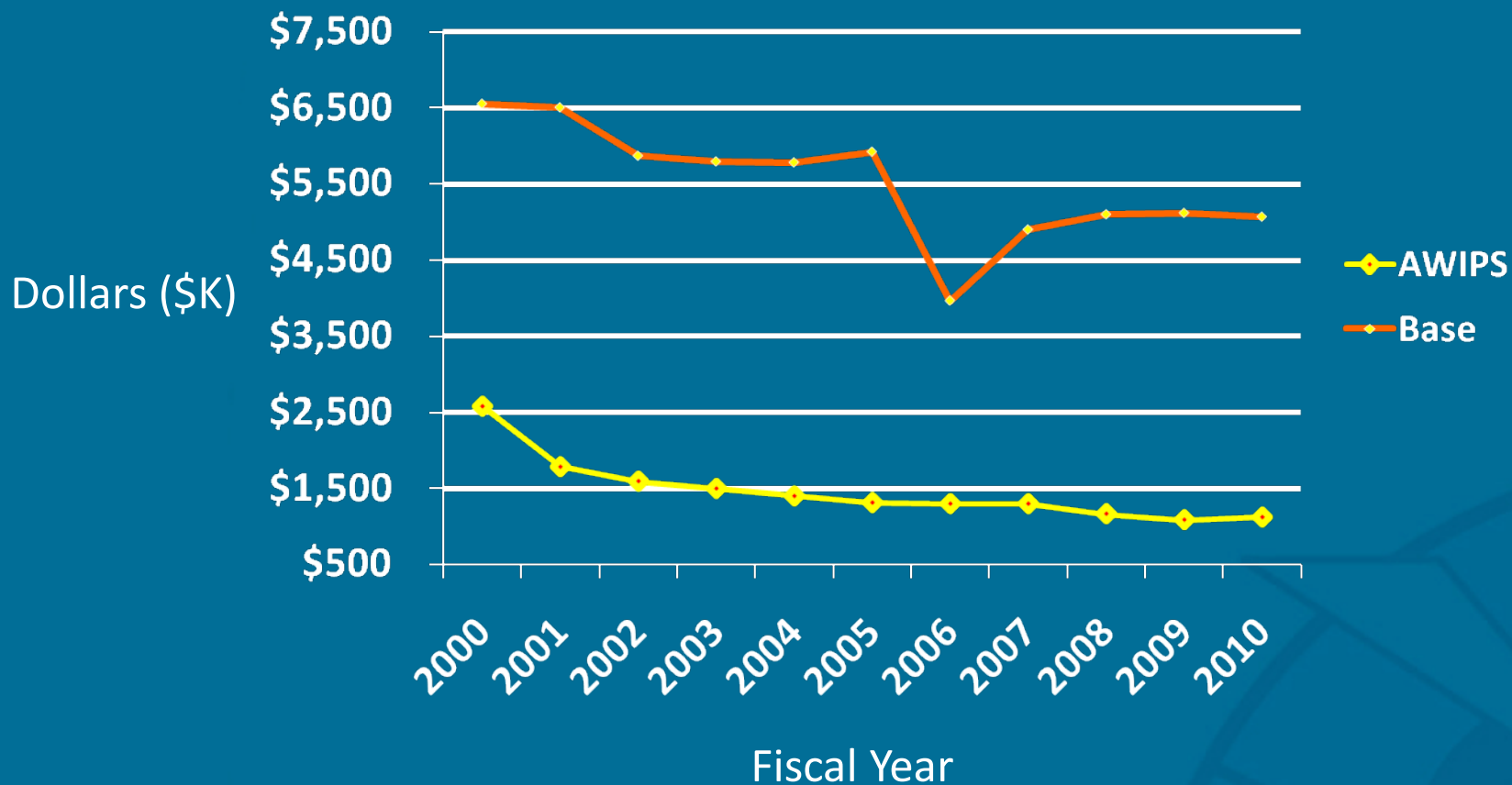
IP11 Requirements

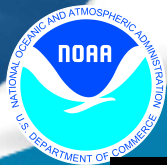


- **158 national training requirements were gathered as Performance Needs Statements (PNS).**
- **85 requirements (54%) received resources. In FY10, 58% received resources.**



AWIPS and Base Funding of NWS Training



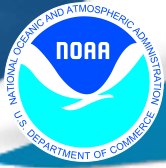


Vision: Distributed and Collaborative Simulations Focused on Human Factors and Decision-Support



- Collaborative simulations and interagency exercises: partnerships, teamwork and decision support
- Intraoffice and interoffice simulations (like FEMA, NASA/SMG, DoD)





Funding Options & Impacts

(from 1/12/10 brief to AA/CFO)

1 No change

- 40% of submitted requirements unfunded
- No new investment for GPRA, No seasonal readiness, No web module O&M, No Rapid Response

\$0

2 Increase funding (yearly)

A

Partial Restoration – FY10

- Web Module O&M
- Rapid Response
- Addresses backlog of requirements (climate change)

\$1.5M

B

Full Restoration - FY10

- Human Factors Leadership Development
- Seasonal Readiness Training
- Begins Simulation expansion (WES II bridge)

\$3M

C

Advanced Simulation – Need FY12

- Full Simulation capability for DSS
- Reduces Human Factors in Warning Operations

\$5M