

Performance Objectives and Measures

(Dollars reflects obligations in Millions)

NOAA contributes to the Department's strategic goal to "Promote environmental stewardship." NOAA has developed performance measures for each of its four performance objectives and one mission support objective as shown in the following table. These measures indicate the outcomes of NOAA's programs, and are used by NOAA to track progress. A more detailed description of these objectives and measures is in the NOAA section of the Department of Commerce budget.

	2009 Actual	2010 Enacted / Targets	2011 Estimate / Targets
Objective 1: Protect, restore and manage the use of coastal and ocean resources	\$1,603.1	\$1,516.0	\$1,417.9
Fish Stock Sustainability Index (FSSI)	565.5	580	586
Percentage of Living Marine Resources (LMR) with adequate population assessments and forecasts	43.9%	34.3%	35.3%
Number of protected species designated as threatened, endangered or depleted with stable or increasing population levels	25	25	25
Number of habitat acres restored (annual / cumulative)	9,232/58,974	8,875	10,888
Annual number of coastal, marine, and Great Lakes ecological characterizations that meet management needs	50	50	50
Cumulative number of coastal, marine, and Great Lakes issue-based forecasting capabilities developed and used for management	41	42	45
Percentage of tools, technologies, and information services that are used by NOAA partners/customers to improve ecosystem-based management	86%	86%	87%
Annual number of coastal, marine, and Great Lakes habitat acres acquired or designated for long-term protection	2,246.5	2,000	21,000

	2009 Actual	2010 Enacted / Targets	2011 Estimate / Targets
Objective 2: Advance understanding of climate variability and change¹	\$370.0	\$317.3	\$315.9
U.S. temperature forecasts (cumulative skill score computed over the regions where predictions are made)	27.5	24	21
Reduce uncertainty of the North American (NA) carbon sink to better understand the contribution of human activities toward increasing atmospheric CO2 and methane	0.40 GtC/yr	400 Million tons Carbon/Yr	380 Million tons Carbon/Yr
Reduce the Uncertainty in model simulations of the influence of aerosols on climate	20% Improvement	15% improvement	Discontinued
Determine the National Explained Variance (%) for Temperature and Precipitation for the Contiguous United States Using U.S. Climate Network (USCRN) Stations	Temp – 98.3% Precip – 95.1%	Discontinued	Discontinued
Reduce the Error in global measurement of sea surface temperature	0.50C	0.53C	0.50C
Number of regionally focused climate impacts and adaptation studies communicated to decision makers"	37	41	41
Objective 3: Provide accurate and timely weather and water information	\$1,010.8	\$928.3	\$908.7
Percentage of U.S. coastal states and territories demonstrating 20% or more annual improvement in resilience capacity to weather and climate hazards (%/yr.)		Pilot	36%
Lead time (minutes), accuracy (%) and False Alarm Rate (FAR) (%) for tornado warnings (storm based) (NOAA changed the methodology in FY 2008 from being county based to being storm based.)	12/66%/77%	12/70%/72%	12/70%/72%
Lead time (minutes) and accuracy (%) for flash flood Warnings (NOAA changed the methodology in FY 2008 from being county based to being storm based.)	73/91%	38/72%	38/72%
Hurricane forecast track error (48 hour) (nautical miles)	86	107	106
Hurricane forecast Intensity error (48 hour) (difference in knots)	14	13	13
Accuracy (%) (threat score) of Day 1 precipitation forecasts	30%	30%	30%
Lead time (hours) and accuracy (%) for winter storm Warnings	18/90%	15/90%	15/90%

1. NOAA spending in support of the U.S. Global Change Research Program (USGCRP) is \$592 million in 2009, \$358 million in 2010 (enacted), and \$435 million in 2011 (estimate). Some of these USGCRP funds are within the Mission Support objective.

	2009 Actual	2010 Enacted / Targets	2011 Estimate / Targets
Objective 4: Support safe, efficient, and environmentally sound commercial navigation	\$240.2	\$197.4	\$196.6
Reduce the hydrographic survey backlog within navigationally significant areas (sq. nautical miles surveyed per year)	3,219	5,160	3,200
Percentage of U.S. counties rated as fully enabled or substantially enabled with accurate positioning capacity	72%	74%	83%
Accuracy (%) of forecast for marine wind speed and wave height	73/77	69/74	69/74
Accuracy (%) and False Alarm Rate (%) of forecasts of ceiling and visibility (3 miles / 1000 feet) (aviation forecasts)	63%/38%	65%/42%	66%/41%
Mission Support Objective: Provide critical support for NOAA's mission²	\$1,933.9	\$2,451.8	\$2,888.0
Total³	\$5,158.1	\$5,380.9	\$5,727.2

2. Additional spending on Objectives 1 through 4 is captured by this Mission Support Objective.

3. NOAA does not break out reimbursable obligations by objective. Amounts reflect Direct Obligations only.