NOAA National Environmental Satellite, Data, and Information Service



NESDIS Supplemental Funding Facts

Three supplemental funding bills provide NOAA with over \$6.3 billion to support key programs and projects.

Disaster Relief Supplemental Act (DRSA)

2022, **P.L. 117-43**Signed into law on September 30, 2021

Provides nearly \$55 million

to NOAA for research following years of devastating, costly weather and climate disasters.



Research Focus







Extreme Precipitation



Floods



Wildfires

20 Climate Disasters in 2021 with total costs over \$155.3 billion (CPI adjusted).

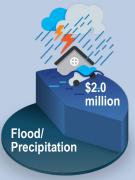
18 Climate Disasters in 2022 with total costs over \$165.1 billion (CPI adjusted).

NESDIS received

\$5.3 million

in FY22 for two major focus areas.





NESDIS activities funded by DRSA will conclude in 2025.

NESDIS project goals:



Boost speed and accuracy of wildfire detection using enhanced satellite data and modeling.



Upgrade forecasts of extreme precipitation by using artificial intelligence (AI).



Support products for disaster managers with streetlevel flood mapping.

Results of some projects will complement and enhance activities to build a Climate Ready Nation

being funded by the Bipartisan Infrastructure Law (BIL).

Bipartisan Infrastructure Law (BIL) / Infrastructure Investment and Jobs Act (IIJA)

P.L. 117-58 Signed into law on November 15, 2021 Provides nearly \$3.0 billion to NOAA over five years.



Under BIL, NESDIS has received \$17.1 million to date in two major focus areas:

Wildfire Projects

The U.S. experienced extraordinary wildfire seasons in recent years.

NESDIS project goals:



\$9.0 million in FY22 for projects concluding in 2026.

There is an urgent need to understand and better predict the extent and intensity of future fires.

Flooding, Precipitation, and Water Quality

The U.S. faces many waterrelated challenges that affect infrastructure.

NESDIS project goals:



\$8.1 million in FY22-FY23 for projects concluding in 2027.

These challenges affect economic and national security, and the impacts are exacerbated by a changing climate.



Predict

rapid changes in fire behavior for first responders, using nearcontinuous satellite observations.



the impact of wildfire

emissions on air quality.



Develop

user-centered web portal for fire weather data



Improve

lightning safety with more timely detection of lightning-ignited fires.



Develop

interactive flood mapping portal for local leaders



Analyze

water quality using satelliteobservations.



Enhance

land-surface data. to improve NOAA weather forecasts.



Optimize

extreme precipitation information for underserved populations.

NESDIS is contributing to NOAA's efforts to:



Upgrade

wildfire detection capabilities.



Improve

preparation for climate disasters.



Deliver

information equitably to communities.



Ensure

highly accurate, user-friendly weather forecasts

NESDIS Bipartisan Infrastructure Law

Projects	FY22	FY23
Floods, Precipitation, Water Models	\$3.5M	\$4.6M
Wildfire	\$9.0M	-
TOTAL	\$12.5M	\$4.6M

Amounts for FY24-FY26 are TBD pending Congressional approval of annual spend plans.

3

Inflation Reduction Act (IRA)

P.L. 117-169

Signed into law on August 16, 2022

Provides nearly \$3.3 billion to NOAA over five years.



Help

Americans prepare for and build resilience to extreme weather and climate changes.



Improve

supercomputing capacity and research on weather, oceans, and climate.



Upgrade NOAA facilities and aircraft.



NESDIS will receive \$80.5 million in two major focus areas

Industry Proving Grounds

Industry sectors need customized climate information to protect lives and livelihoods.

\$74.1 million in FY23-FY26

NESDIS project goals:



Engage with industry

representatives to capture data needs.



Improve

industry access to authoritative climate information.



Develop

climate risk models for key industry sectors.



Innovate

new strategies for industry collaboration.

Data Initiatives

Enriched data can assist state and local leaders with practical solutions to climate problems.

\$6.4 million in FY23-26

NESDIS project goals:



Expand

regional team expertise to provide place-based climate information.



Enhance

satellite-based flood products for Alaska.



Address

gaps in climate data for underserved communities.



Optimize

NOAA data assimilation with artificial intelligence.

NESDIS is contributing to NOAA's efforts to:



Accelerate advances in climate research.



Improve modeling of changes in weather and climate.



critical information with the public.

NESDIS Inflation Reduction Act

Projects	FY23	Total
Industry Proving Grounds	\$15.0M	\$74.1M
Data Initiatives	\$1.2M	\$6.4M
TOTAL	\$16.2M	\$80.5M

Amounts for FY24-FY26 are TBD pending Office of Management and Budget approval.





