



FY25 Appropriations

Carbon180 Recommendations

This document outlines Carbon180's fiscal year (FY) 2025 appropriations requests. If you are interested in speaking with our policy team, contact policy@carbon180.org.

TECHNOLOGY-BASED SOLUTIONS

DOE | *Carbon dioxide removal*

Funding level request: \$353,000,000

Report language request:

The Committee provides not less than \$353,000,000 for research, development, and demonstration of diverse carbon dioxide removal technologies and approaches, to be appropriately coordinated between the Office of Fossil Energy and Carbon Management, the Office of Science, the Office of Energy Efficiency and Renewable Energy and any other relevant program offices or agencies. The Committee supports funding going to the Carbon Dioxide Removal Research, Development, and Demonstration Program authorized in Section 5001, Division Z of P.L. 116-260.

Within the amount provided, the Committee provides \$30,000,000 to support the continuation of the competitive carbon dioxide removal pilot prize that the Secretary was directed to establish in the FY23 Energy and Water joint explanatory statement, consistent with Division D of Public Law 117-328. In carrying out the pilot prize, the Committee recommends that the Secretary prioritize no fewer than four different carbon removal technology pathways, and emphasize methods that minimize removal reversibility and maximize storage duration. The Committee supports the Department's efforts to improve measurement, monitoring, reporting, and verification, including to inform the pilot prize, offtake agreements, and other federal incentives.

DOC | National Oceanic and Atmospheric Administration | *Operations, Research, and Facilities*

Funding level request: \$25,000,000

Report language request:



The Committee provides not less than \$25,000,000 to the National Oceanic and Atmospheric Administration (NOAA) to support research and development of diverse ocean-based carbon dioxide removal (CDR) approaches. The Committee recommends that NOAA continue to coordinate ocean CDR research activities within its office and with other agencies, as appropriate. The Committee supports research on ocean CDR approaches to expand the knowledge base around their efficacy and impacts; adoption of a research code of conduct, based on existing code of conduct efforts, for recipients of federal funding; and transparency and timely data sharing with regard to data collected as part of this research effort, including to the extent possible, data gathered through public-private partnership research efforts.

AGRICULTURE-BASED SOLUTIONS

USDA | Agricultural Research Service | *Salaries and Expenses*

Funding level request: \$1,888,063,000

Report language request:

The recommendation provides funding increases for Long-Term Agroecosystem Research (LTAR) Network and Climate Hubs.

Long-Term Agroecosystem Research (LTAR) Network. — Within available funds, the recommendation provides \$25,000,000 for the LTAR Network to support the establishment of additional long-term soil carbon research projects across its 18 research sites in order to collect, aggregate, and analyze soil carbon data from across the geographic and operational diversity of US agriculture. The Committee also urges ARS to use increased LTAR Network funding to establish a data access and management team to coordinate, manage, and analyze all soil carbon and other agronomic data, providing insights on climate mitigation and adaptation, including through soil carbon sequestration. Available funds should be evenly distributed across LTAR Network sites.

Climate Hubs. — Within available funds, the recommendation provides \$10,000,000 for the Climate Hubs to synthesize and translate soil carbon research and data insights from ARS soil carbon research, including the LTAR Network research projects, to farmers and ranchers on the ground, as well as engaging farmers and ranchers in determining research priorities on soil carbon. Available funds should be evenly distributed across the 10 Climate Hubs.

Agroforestry. — The Committee directs ARS to work cooperatively with the National Agroforestry Center (NAC) to use the research capacities of ARS centers to provide access to research on affordable, regionally-adapted varieties of key agroforestry species. The Committee encourages ARS to consult with NAC to strategically plan research and development of agroforestry germplasm, enhancement of nursery





infrastructure, and propagation of regionally appropriate agroforestry species, in coordination with the needs of agroforestry stakeholders and researchers.

USDA | Office of the Secretary | *Processing, Research, and Marketing*

Report language request:

The Committee recognizes the importance of research on soil carbon sequestration in agricultural lands to address climate change and provide economic, environmental, and resilience benefits to US farmers and ranchers. The Committee also recognizes the need to coordinate existing and new federal efforts around soil carbon sequestration. The Committee directs the establishment of an interagency Soil Carbon Research Committee — led by the White House Office of Science and Technology Policy in coordination with agencies like the Department of Agriculture, the Department of Energy, Department of Interior, National Aeronautics and Space Administration, and National Science Foundation — to develop a cross-agency strategic plan for federal research, development, and deployment for soil carbon research, sampling, and measurement methodologies. Additionally, the Committee recommends the creation of specific working groups to solicit stakeholder input and conduct robust engagement with agricultural producers and communities on soil carbon research priorities including monitoring, reporting, and verification, data collection and management, and fundamental research.

USDA | Natural Resources Conservation Service | *Conservation Operations*

Report language request:

While the Committee is pleased by USDA's commitment to establish a Soil Carbon Monitoring Network, additional details on program structure and plans - such as standardized methodologies, data sets to be used, plans to harmonize data sets, and more - are necessary and currently lacking. The Committee directs NRCS, in close collaboration with experts, to conduct a systematic review of existing USDA and federal government soil carbon monitoring methodologies (ex. Methodologies developed by the Long-Term Agroecosystem Research Network, Long-Term Ecological Research Network, the National Ecological Observatory Network, and other networks) in order to develop a standardized soil carbon monitoring methodology that is reflective of current best practices and ensures the scientific rigor necessary to accurately measure and monitor soil carbon stocks and fluctuations over time and across regions, soil types, and various production systems. The Committee encourages USDA to utilize the standardized methodology developed from this review to ensure that the Soil Carbon Monitoring Network is grounded in shared data measurements and standards to enable large-scale data analysis and insights. Improved measurements and best practices should then be incorporated into NRCS technical assistance to producers to the maximum extent practicable.

Furthermore, the agreement provides no less than \$70 million of available funding for cooperative agreements with third-parties conducting projects that expand the delivery of conservation technical assistance to producers who are new to farming, are low-income, identify as one or more marginalized races or ethnicities, and/or are military veterans.



FORESTRY-BASED SOLUTIONS

USDA | Forest Service | *Forest and Rangeland Research*

Funding level request — Forest and Rangeland Research: \$315,624,000

Report language request:

The Committee provides \$315,624,000 for Forest and Rangeland Research, including salaries and expenses.

National Agroforestry Center. — Within salaries and expenses, the Committee provides not less than \$3,000,000 to the National Agroforestry Center to increase the Center’s staffing on technology transfer and technical assistance delivery to meet increasing producer demand for agroforestry technical assistance and scale implementation of agroforestry practices, thus advancing the health, diversity, climate mitigation and adaptation, and productivity of working lands, waters, and communities.

Research and Development. — The Committee provides \$65,000,000 for research and development programs, of which \$2,000,000 is directed to large-scale field demonstration projects in collaboration with local universities, nonprofits, and landowners that evaluate enhanced agroforestry and forest management techniques to optimize their carbon removal potential; \$4,000,000 for social science research to understand the barriers to adopting agroforestry and forest carbon management practices, especially in rural and underserved communities; and \$8,000,000 to USDA Climate Hubs to evaluate and communicate carbon and overall ecosystem health outcomes of diverse forest management techniques, including agroforestry, across US geographies.

Carbon Uptake in Trees Research. — The Committee continues to support research optimizing and improving the understanding of carbon uptake in trees in a manner consistent with advancing traditional food and fiber mission objectives.

Forest Inventory and Analysis. — The Committee provides \$33,000,000 to Forest Inventory and Analysis (FIA) to expand the FIA plot network for greater data resolution and to increase frequency of data collection at all sites. Of these funds, not less than \$3,000,000 should be allocated for continued development, demonstration, and deployment of advanced forest carbon monitoring, reporting, and verification (MRV) technologies in collaboration with Research and Development programs, including LiDAR, hyperspectral monitoring, unmanned aircraft systems, and others that could address “leakage” of timber harvesting.



Report language request:

Nurseries. — The Committee provides an additional \$2,000,000 for the Reforestation, Nurseries, and Genetic Resources (RNCR) program to hire dedicated full-time staff and expand its capacity to provide critical technical assistance, provide workforce training, and conduct and disseminate research to nurseries and land managers as they increase production to address the national seedling shortage. Additional funding for RNCR does not pull from funds that support the core mission area and activities of the Forest Stewardship Program. Expanded activities at RNCR should all integrate the latest climate science, economic research, and regional considerations.

USDA | Forest Service | *Urban and Community Forestry Program*

Report language request:

Tree Canopy Equity. — The Committee directs Urban and Community Forestry funding to expand technical assistance, equipment, and grants for projects that prioritize tree-planting in socially disadvantaged and historically underserved communities with low canopy coverage, including Tribal communities. To determine projects eligible for match waiver, the Forest Service should consider factors such as existing canopy coverage, population density, race, and colocation of trees in agricultural settings, and the Climate and Environmental Justice Screening Tool managed by CEQ. Grants should also be made available to support demonstration projects that combine food and tree cultivation to improve carbon storage, public health, and local food access.

Urban Agroforestry. — The Urban and Community Forestry Program, in collaboration with the NRCS Office of Urban Agriculture, shall provide a report within 180 days which outlines a strategy for capitalizing on Forest Services authorities to use agroforestry to develop green infrastructure, resilient local food sheds, and workforce development.

