

Invasive Species Interagency Crosscut Budget

December 5, 2016

Executive Order 13112 established the National Invasive Species Council (NISC) to coordinate and enhance the invasive species programs of federal agencies and to work closely with state and local governments and private organizations on this critical issue. Part of this effort is identifying funding for invasive species activities provided by NISC Member Departments and Agencies, as called for in the National Invasive Species Council Management Plan. NISC Member Departments and Agencies developed syntheses (or crosscuts) of such information for the FY2004 through FY2007 budget cycles. The NISC renewed the effort for FY2011 recognizing increasing interest in federal spending from Congress, the public and the broader array of stakeholders working on invasive species.

For 2016, nine NISC member Departments (and/or their sub-agencies) provided budget data, including:

- Department of Agriculture (USDA),
- Department of Commerce (DOC),
- Department of Homeland Security (DHS),
- Department of the Interior (DOI),
- Department of State (DOS),
- Department of Transportation (DOT),
- Environmental Protection Agency (EPA),
- U.S. Agency for International Development (USAID), and
- U.S. Army Corps of Engineers (USACE).

The purpose of the Federal Invasive Species Interagency Crosscut Budget is to encourage joint federal agency cooperation for activities that benefit from an interagency approach, as well as increased cost-effectiveness. The collection of this information is also critical for identifying broad trends in Federal funding for invasive species activities over time.

Budgets differ across agencies, and therefore, developing the crosscut budget reflects these differences. For example, some invasive species funding varies from year-to-year due to grant funding by the agency and the timing of those awards. Other programs receive dedicated funds to address invasive species. Given the difficulties of achieving a comprehensive interagency analysis, the crosscut presents a conservative estimate of expenditures on invasive species for most federal agencies.

NISC Member Departments and Agencies provide their reports using the following seven general categories:

- prevention,
 - early detection and rapid response,
 - control and management,
 - restoration,
 - research,
 - education and public awareness, and
 - leadership and international cooperation.
- (See Annex I for detailed definitions)

In keeping with the format of past crosscut exercises, this interagency crosscut budget includes:

- agencies' actual expenditures for FY2014 and FY2015,
- agencies' planned expenditures for FY2016, and
- agencies' requests included in the President's proposed budget for FY2017.

FUNDING TABLES

The following tables display funding to address invasive species activities by Department and functional category. In some cases budget figures cannot be calculated until funds are allocated or collected for specific programs, projects, or grant awards. The FY2017 President's proposed budget does not include allocations that are yet to be determined. Figures may be further refined as activities are completed or agency budgeting methods are improved, and in some cases rounding of figures may result in slight discrepancies across agency totals.

Funding utilized by the following Federal entities is excluded due to the absence of discrete allocations for these activities or allocations are not substantial: Department of Defense – excluding the U.S. Army Corps of Engineers, Department of Health and Human Services, Department of the Treasury, and the Office of the U.S. Trade Representative.

FUNDING FOR INVASIVE SPECIES ACTIVITIES (IN THOUSANDS)

FY2014 Actual

Category	DHS	DOC	DOD	DOI ¹	DOS	DOT	EPA ²	USAID	USDA	Total
Prevention	704,521	8	8,448	7,388	1,015	3,926	54,600	-	93,019	872,925
Early Detection & Rapid Response	0	71	9,225	13,553	655	0	-	-	264,965	288,469
Control and Management	0	337	109,705	44,456	12,382	0	-	-	502,772	669,652
Research	0	1,450	4,648	17,976	2,285	235	-	-	230,081	256,675
Restoration	0	1,315	12,244	6,318	0	0	0	-	19,132	39,009
Education and Public Awareness	0	13	2,796	644	145	0	-	-	67,088	70,686
Leadership/ Int'l Cooperation	0	335	1,505	741	1,906	35	0	-	2,414	6,936
Total	704,521	3,528	148,571	91,076	18,388	4,196	54,600	-	1,179,471	\$2,204,352

FY2015 Actual

Category	DHS	DOC	DOD	DOI ¹	DOS	DOT	EPA ²	USAID	USDA	Total
Prevention	745,041	63	30,327	9,342	1,120	1,081	53,000	10	97,812	937,796
Early Detection & Rapid Response	0	189	14,070	15,704	725	0	-	1,005	277,351	309,044
Control and Management	0	261	57,352	45,548	11,654	0	-	1,370	527,291	643,476
Research	0	918	9,611	18,977	2,337	231	-	0	236,319	268,393
Restoration	0	1,454	17,318	4,625	0	0	0	5	23,658	47,060
Education and Public Awareness	0	1,177	6,740	668	187	0	-	20	75,695	84,487
Leadership/ Int'l Cooperation	0	11	2,075	742	2,127	40	0	45	2,963	8,003
Total	745,041	4,073	137,493	95,606	18,150	1,352	53,000	2,455	1,241,089	\$2,298,259

1 Does not include \$1.4 million for administration.

2 EPA does not allocate or monitor funding for the Great Lakes Restoration Initiative (GLRI) according to the functional categories utilized by NISC. Therefore GLRI funding, which also includes allocations to other Departments, is displayed under Prevention even though it contributes to activities in multiple functional categories.

FY2016 Enacted

Category	DHS ¹	DOC ¹	DOD	DOI ²	DOS	DOT	EPA ³	USAID ⁴	USDA	Total
Prevention	776,300	8	31,850	11,184	565	810	57,000	TBD	100,064	977,781
Early Detection & Rapid Response	0	289	15,254	15,604	772	0	-	TBD	277,572	309,491
Control and Management	0	126	61,066	46,643	12,002	0	-	TBD	526,498	646,335
Research	0	925	6,029	19,970	2,194	1,585	110	TBD	237,692	268,505
Restoration	0	54	18,638	4,332	0	0	0	TBD	25,145	48,169
Education and Public Awareness	0	1,102	7,334	613	219	0	-	TBD	78,427	87,695
Leadership/ Int'l Cooperation	0	5	2,377	673	2,021	40	0	TBD	2,926	8,042
Total	776,300	2,509	142,548	99,019	17,773	2,435	57,110	TBD	1,248,324	\$2,346,018

FY2017 President's Proposed Budget

Category	DHS ⁴	DOC ⁴	DOD	DOI ²	DOS	DOT	EPA ³	USAID ⁴	USDA	Total
Prevention	TBD	8	30,427	11,933	1,000	1,810	43,600	TBD	106,151	194,929
Early Detection & Rapid Response	TBD	250	13,961	18,010	775	0	-	TBD	308,798	341,794
Control and Management	TBD	153	56,141	46,634	12,000	0	-	TBD	493,653	608,581
Research	TBD	780	4,915	22,152	2,300	1,585	110	TBD	226,316	258,158
Restoration	TBD	TBD	12,968	4,351	0	0	0	TBD	25,268	42,587
Education and Public Awareness	TBD	1,136	6,632	628	200	0	-	TBD	76,421	85,017
Leadership/ Int'l Cooperation	TBD	6	1,654	699	2,000	40	0	TBD	3,251	7,650
Total	TBD	2,333	126,698	104,407	18,275	3,435	43,710	TBD	1,239,858	\$1,538,716

REPORTING SUB-AGENCIES (WHERE SPECIFIED)

- Department of Homeland Security: Customs and Border Protection, U.S. Coast Guard
- Department of Commerce: National Oceanographic and Atmospheric Administration
- Department of Defense: U.S. Army Corps of Engineers
- Department of the Interior: Bureau of Indian Affairs, Bureau of Land Management, Bureau of Reclamation, National Park Service, Office of Insular Affairs, Office of the Secretary, U.S. Fish and Wildlife Service, U.S. Geological Survey
- Department of Transportation: Federal Highway Administration, Saint Lawrence Seaway Development Corporation, U.S. Maritime Administration
- Environmental Protection Agency: Great Lakes Restoration Initiative, Office of Research and Development
- Department of Agriculture: Agricultural Research Service, Animal and Plant Health Inspection Service, Economic Research Service, National Institute of Food and Agriculture, Natural Resources Conservation Service, U.S. Forest Service

1 Estimate based on anticipated revenue or program and project allocations.

2 Does not include \$1.4 million for administration.

3 EPA does not allocate or monitor funding for GLRI according to the functional categories utilized by NISC. Therefore GLRI funding, which also includes allocations to other Departments, is displayed under Prevention even though it contributes to activities in multiple functional categories.

4 To be determined pending collection of revenues or allocations to programs and projects.

ANNEX I

GENERAL CATEGORY DEFINITIONS FOR INVASIVE SPECIES INTER-AGENCY CROSSCUT BUDGET ¹

Prevention: actions taken to prevent the entry, establishment, dispersal, and dissemination of invasive species. *Examples:* pathway identification, pathway ranking and prioritization, pathway interdiction, coordination and planning, reviewing relevant legal authorities, quarantine establishment, law enforcement, screening and risk assessment activities, equipment inspection and cleaning, inspecting travelers and cargo, ballast water and hull fouling treatment efforts, site monitoring for new introductions, limiting the interstate movement of invasive species, constructing fences, electronic barriers, and other structures that prevent the introduction of species, development of new regulations, guidelines, and codes of conduct, training personnel, compensation payments, reporting.

Early Detection and Rapid Response: Early detection – actions taken to detect incipient invasions and assess the current and potential impact of invasions. Rapid response – a systematic effort to eradicate, contain, or control a potentially invasive non-native species introduced into an ecosystem while the infestation of that ecosystem is still localized, and to eradicate and/or contain invasive species populations while they are still localized. *Examples:* reviewing relevant legal authorities, NEPA document preparation, coordinated planning, contracting, identification of high priority species and at-risk sites; monitoring high-risk areas for new invasions, containment efforts, surveillance, specimen identification, population verification, detection efforts, data analysis and storage, collecting and storing voucher specimens, travel and rapid deployment of resources, priority setting for response actions; monitoring treated areas and high-risk sites, safety procedures and worker protection, treating and removing populations, training volunteers; conducting training exercises, developing case studies, restricting access to certain areas, reporting.

Control and Management: actions taken to lessen and manage the impact of invasive species within their established ranges and limit their spread. *Examples:* planning, inter-jurisdictional coordination, contracting, water level manipulation, NEPA document preparation, safety procedures and worker protection, directed grazing, hand-removal, mechanical harvesting, trapping, netting, culling, cultivation, pesticide application, controlled burning, mowing, planting cover crops or stabilization plant materials, release of selective biological control agents, using pheromone-baited traps, releasing sterile males, using resistant building materials, fencing and constructing other types of barriers, monitoring and mapping target populations, training workers engaged in control actions, restricting public access to areas during control procedures, reporting.

Restoration: actions taken to assist the recovery and reestablishment of plant and animal communities that have been overwhelmed by invasive species. *Examples:* planning, coordination, seed collection and storage, growing additional restoration materials, contracting, site preparation, replanting, safety procedures and worker protection, care of newly planted materials, restocking, prioritization, NEPA document preparation, monitoring restored areas, restricting access to certain areas.

Research: actions taken to identify, evaluate, control, and understand invasive species and their interactions with the biotic and abiotic elements of the environment. *Examples:* planning, coordination, prioritization, capacity building, facility and equipment maintenance, safety procedures, training, travel, recruiting, conducting field, laboratory and pilot-scale studies, reporting, data analysis, data collection and storage, collaboration, obtaining samples, monitoring, and mapping.

Education and Public Awareness: actions taken to maintain and increase public awareness of invasive species and related programs and to promote public activities that reduce the spread and impact of invasive species. *Examples:* coordination, planning, survey instrument development, survey data collection, public education material graphic design, public education material writing, production costs, public awareness material distribution, broadcasting and printing costs, inventorying outreach materials, updating outreach materials, travel to speaking engagements, conducting public training,

Leadership and International Cooperation: actions taken to provide leadership, oversight and coordination to maintain and enhance the capabilities to prevent, control, manage, and understand invasive species and invasion pathways with relevant state, local and international partners, and provide for public input and participation. *Examples:* coordination, planning, prioritization, reviewing relevant legal authorities and treaties, building invasive species capability in other countries, participation in international forums, staff salary, travel, training, reporting, data analysis, collaboration, facilitation of meetings, collaborations and partnerships, website development and maintenance, document preparation, bringing in foreign experts, maintaining overseas facilities, reporting, conference calls.

¹ Definitions are those developed by NISC member agencies for the 2004–2007 Interagency Performance Budgets.