

TABLE 81. Federal obligations for basic research to foreign performers, by region, country/economy, and agency: FY 2010
(Dollars in thousands)

Region and country/economy	Total	DOC	DOD	DOE	DOI	EPA ^a	HHS	NASA	NSF	USDA
All areas and organizations	219,218.8	30.0	26,673.8	3,093.1	547.7	188.2	163,554.3	855.0	22,923.0	1,353.6
Africa	34,505.0	0.0	213.1	0.0	0.0	0.0	34,198.6	0.0	0.0	93.3
Botswana	252.9	0.0	0.0	0.0	0.0	0.0	252.9	0.0	0.0	0.0
Ethiopia	10.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ghana	2,383.4	0.0	154.1	0.0	0.0	0.0	2,229.2	0.0	0.0	0.0
Kenya	1,431.7	0.0	10.0	0.0	0.0	0.0	1,346.9	0.0	0.0	74.8
Malawi	269.2	0.0	0.0	0.0	0.0	0.0	269.2	0.0	0.0	0.0
Mali	231.8	0.0	0.0	0.0	0.0	0.0	231.8	0.0	0.0	0.0
Morocco	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
Mozambique	805.7	0.0	0.0	0.0	0.0	0.0	805.7	0.0	0.0	0.0
Nigeria	750.5	0.0	0.0	0.0	0.0	0.0	750.5	0.0	0.0	0.0
South Africa	24,113.2	0.0	34.0	0.0	0.0	0.0	24,062.7	0.0	0.0	16.5
Tanzania	73.7	0.0	0.0	0.0	0.0	0.0	73.7	0.0	0.0	0.0
Tunisia	272.1	0.0	5.0	0.0	0.0	0.0	267.1	0.0	0.0	0.0
Uganda	1,605.2	0.0	0.0	0.0	0.0	0.0	1,605.2	0.0	0.0	0.0
Zambia	933.3	0.0	0.0	0.0	0.0	0.0	933.3	0.0	0.0	0.0
Zimbabwe	1,370.3	0.0	0.0	0.0	0.0	0.0	1,370.3	0.0	0.0	0.0
Asia	16,958.6	0.0	5,584.1	0.0	0.0	24.1	11,192.7	0.0	0.0	157.7
Armenia	14.0	0.0	14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Asian countries, other	155.0	0.0	155.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Azerbaijan	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2
Cambodia	227.3	0.0	0.0	0.0	0.0	0.0	227.3	0.0	0.0	0.0
China	2,754.5	0.0	0.0	0.0	0.0	24.1	2,672.1	0.0	0.0	58.3
Georgia	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
Hong Kong	2.5	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0
India	4,545.4	0.0	421.6	0.0	0.0	0.0	4,103.8	0.0	0.0	20.0
Indonesia	49.9	0.0	49.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Israel	2,824.6	0.0	982.2	0.0	0.0	0.0	1,835.4	0.0	0.0	7.0
Japan	1,612.9	0.0	1,513.9	0.0	0.0	0.0	99.0	0.0	0.0	0.0
Korea, South	832.4	0.0	667.0	0.0	0.0	0.0	135.4	0.0	0.0	30.0
Kyrgyzstan	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7
Malaysia	33.0	0.0	33.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pakistan	153.9	0.0	0.0	0.0	0.0	0.0	153.9	0.0	0.0	0.0
Philippines	32.4	0.0	5.0	0.0	0.0	0.0	27.4	0.0	0.0	0.0
Singapore	1,058.2	0.0	896.2	0.0	0.0	0.0	162.0	0.0	0.0	0.0
Taiwan	813.3	0.0	813.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thailand	996.5	0.0	0.0	0.0	0.0	0.0	996.5	0.0	0.0	0.0
Turkey	42.4	0.0	8.0	0.0	0.0	0.0	27.4	0.0	0.0	7.0
Vietnam	794.5	0.0	25.0	0.0	0.0	0.0	750.0	0.0	0.0	19.5
Europe	93,457.1	0.0	14,595.0	868.7	3.7	41.0	63,985.3	186.4	13,527.8	249.2
Austria	197.3	0.0	191.7	0.0	0.0	0.0	0.0	0.0	5.6	0.0
Belgium	663.1	0.0	368.3	0.0	0.0	0.0	285.9	9.0	0.0	0.0
Bulgaria	106.2	0.0	97.8	0.0	0.0	8.4	0.0	0.0	0.0	0.0
Croatia	81.5	0.0	36.0	0.0	0.0	0.0	45.5	0.0	0.0	0.0
Czech Republic	49.0	0.0	49.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denmark	5,361.6	0.0	254.0	0.0	0.0	0.0	4,087.2	0.0	1,020.4	0.0
Estonia	27.0	0.0	27.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
European countries, other	100.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Finland	2,325.2	0.0	189.0	0.0	0.0	0.0	2,136.2	0.0	0.0	0.0
France	7,176.7	0.0	956.3	0.0	0.0	0.0	2,064.0	14.7	4,098.9	42.8
Germany	7,932.5	0.0	1,257.5	449.8	0.0	0.0	5,282.2	73.8	859.4	9.8
Greece	44.0	0.0	44.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hungary	195.6	0.0	123.0	0.0	0.0	0.0	72.6	0.0	0.0	0.0
Iceland	969.7	0.0	2.0	0.0	0.0	0.0	967.7	0.0	0.0	0.0

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Ireland	147.3	0.0	39.0	0.0	0.0	0.0	108.3	0.0	0.0	0.0
Italy	2,065.3	0.0	1,296.3	0.0	0.0	0.0	673.1	0.0	0.0	96.0
Lithuania	122.1	0.0	53.0	0.0	0.0	0.0	69.1	0.0	0.0	0.0
Netherlands	28,438.2	0.0	1,280.1	60.0	0.0	0.0	27,097.0	1.2	0.0	0.0
Norway	394.2	0.0	0.0	0.0	0.0	0.0	391.3	2.8	0.0	0.0
Poland	149.0	0.0	149.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Portugal	184.2	0.0	184.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Romania	34.0	0.0	34.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Russia	335.8	0.0	126.0	0.0	0.0	0.0	209.8	0.0	0.0	0.0
Slovakia	20.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Slovenia	3.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Spain	1,001.6	0.0	342.6	0.0	0.0	0.0	639.5	0.0	0.0	19.5
Sweden	9,506.6	0.0	494.0	0.0	0.0	0.0	2,273.9	1.5	6,732.1	5.0
Switzerland	5,426.6	0.0	242.7	0.0	3.7	32.6	4,807.4	0.0	340.2	0.0
Ukraine	126.0	0.0	126.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
United Kingdom	20,273.6	0.0	6,509.6	358.9	0.0	0.0	12,774.6	83.2	471.2	76.1
North America	51,308.7	25.0	3,562.3	1,596.6	544.0	93.5	38,668.4	293.8	6,278.4	246.8
Bermuda	4,017.9	0.0	0.0	0.0	0.0	0.0	0.0	225.1	3,792.9	0.0
Canada	41,597.5	25.0	3,177.3	1,596.6	544.0	93.5	33,514.8	68.7	2,485.5	92.2
Costa Rica	2,804.9	0.0	0.0	0.0	0.0	0.0	2,763.4	0.0	0.0	41.5
Dominican Republic	236.2	0.0	0.0	0.0	0.0	0.0	236.2	0.0	0.0	0.0
Haiti	1,445.7	0.0	0.0	0.0	0.0	0.0	1,445.7	0.0	0.0	0.0
Honduras	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5
Jamaica	82.6	0.0	0.0	0.0	0.0	0.0	82.6	0.0	0.0	0.0
Mexico	857.1	0.0	385.0	0.0	0.0	0.0	382.5	0.0	0.0	89.6
North American countries, other	243.3	0.0	0.0	0.0	0.0	0.0	243.3	0.0	0.0	0.0
Trinidad and Tobago	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0
Oceania	11,196.4	5.0	2,719.3	627.8	0.0	0.0	7,320.1	32.5	111.8	379.8
Australia	10,548.7	5.0	2,636.2	627.8	0.0	0.0	6,867.3	32.5	0.0	379.8
New Zealand	647.7	0.0	83.1	0.0	0.0	0.0	452.9	0.0	111.8	0.0
South America	11,793.1	0.0	0.0	0.0	0.0	29.6	8,189.1	342.4	3,005.1	226.9
Argentina	1,110.9	0.0	0.0	0.0	0.0	0.0	1,110.9	0.0	0.0	0.0
Brazil	6,211.7	0.0	0.0	0.0	0.0	29.6	2,872.2	317.3	2,945.1	47.6
Chile	289.4	0.0	0.0	0.0	0.0	0.0	289.4	0.0	0.0	0.0
Colombia	1,086.0	0.0	0.0	0.0	0.0	0.0	1,081.0	0.0	0.0	5.0
Ecuador	23.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.5
Paraguay	90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90.0
Peru	2,870.6	0.0	0.0	0.0	0.0	0.0	2,784.7	25.1	0.0	60.8
Uruguay	51.0	0.0	0.0	0.0	0.0	0.0	51.0	0.0	0.0	0.0
Venezuela	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.0	0.0

DOC = Department of Commerce; DOD = Department of Defense; DOE = Department of Energy; DOI = Department of the Interior; EPA = Environmental Protection Agency; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NSF = National Science Foundation; USDA = U.S. Department of Agriculture.

^a EPA was unable to report R&D by performer for FYs 2010–12 or by location for FY 2010. Percentage distributions calculated from EPA's data submission for FYs 2009–11 were used to estimate its FY 2010–12 R&D by performer and its FY 2010 R&D by location.

NOTES: Because of rounding, detail may not add to total. Only those countries that had obligations in variables represented by this table appear in table.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development: FYs 2010–12.