

# **Assistance to Firefighters Program: Distribution of Fire Grant Funding**

**Lennard G. Kruger**Specialist in Science and Technology Policy

June 10, 2013

**Congressional Research Service** 

7-5700 www.crs.gov RL32341

## **Summary**

The Assistance to Firefighters Grant (AFG) Program, also known as fire grants or the FIRE Act grant program, was established by Title XVII of the FY2001 National Defense Authorization Act (P.L. 106-398). Currently administered by the Federal Emergency Management Agency (FEMA), Department of Homeland Security (DHS), the program provides federal grants directly to local fire departments and unaffiliated Emergency Medical Services (EMS) organizations to help address a variety of equipment, training, and other firefighter-related and EMS needs. A related program is the Staffing for Adequate Fire and Emergency Response Firefighters (SAFER) program, which provides grants for hiring, recruiting, and retaining firefighters.

The fire grant program is now in its 13<sup>th</sup> year. The Fire Act statute was reauthorized in 2012 (Title XVIII of P.L. 112-239) and provides new guidelines on how fire grant money should be distributed. There is no set geographical formula for the distribution of fire grants—fire departments throughout the nation apply, and award decisions are made by a peer panel based on the merits of the application and the needs of the community. However, the law does require that fire grants be distributed to a diverse mix of fire departments, with respect to type of department (paid, volunteer, or combination), geographic location, and type of community served (e.g., urban, suburban, or rural).

The Consolidated and Further Continuing Appropriations Act, 2013 (P.L. 113-6) funds AFG and SAFER at \$337 million each. Additionally, AFG and SAFER are subject to sequestration. Both programs are part of FEMA's State and Local Programs budget account, which is subject to a 5.0% cut. According to DHS, the post-sequester FY2013 budget level for AFG and SAFER is \$320.92 million for AFG and \$320.92 million for SAFER. However, the amount of grant money available for AFG and SAFER is expected to be virtually unchanged from FY2012, because appropriations language provides that administrative costs are to be derived from the FEMA Salaries and Expense account, rather than (as is typically the case) from a 5% carve-out from the firefighter assistance (AFG and SAFER) appropriations account.

The Administration's FY2014 budget proposed \$670 million for firefighter assistance, including \$335 million for AFG and \$335 million for SAFER. The FY2014 Department of Homeland Security Appropriations Act (H.R. 2217) as passed by the House on June 6, 2013, provides \$680 million for firefighter assistance, including \$340 million for AFG and \$340 million for SAFER.

The 113<sup>th</sup> Congress will likely consider FY2014 and FY2015 budget appropriations for AFG and SAFER. As is the case with many federal programs, concerns over the federal budget deficit could impact budget levels for AFG and SAFER. At the same time, firefighter assistance budgets will likely receive heightened scrutiny from the fire community, given the local budgetary cutbacks that many fire departments are facing.

# **Contents**

Background	1
Assistance to Firefighters Grant Program	1
Fire Grants Reauthorization Act of 2012	1
Appropriations	
FY2012	
FY2013FY2014	
Fire Station Construction Grants in the ARRA	
SAFER Grants	8
Program Evaluation	9
Reports Mandated by Fire Grants Reauthorization Act of 2012	10
Distribution of Fire Grants	11
Issues in the 113 <sup>th</sup> Congress	12
Tables     Table 1. Key Provisions of Fire Grant Reauthorization	2
•	
Table 2. Appropriations for Firefighter Assistance, FY2001-FY2013	
Table 3. Recent and Proposed Appropriations for Firefighter Assistance	
Table 4. State-by-State Distribution of AFG Grants, FY2001-FY2011	
Table 5. State-by-State Distribution of SAFER Grants, FY2005-FY2011	14
Table 6. Requests and Awards for AFG Funding, FY2010	16
Contacts	
Author Contact Information	10

# Background

Firefighting activities are traditionally the responsibility of states and local communities. As such, funding for firefighters is provided mostly by state and local governments. During the 1990s, shortfalls in state and local budgets, coupled with increased responsibilities of local fire departments, led many in the fire community to call for additional financial support from the federal government. Although federally funded training programs existed (and continue to exist) through the National Fire Academy, and although federal money was available to first responders for counterterrorism training and equipment through the Department of Justice, there did not exist a dedicated program, exclusively for firefighters, which provided federal money directly to local fire departments to help address a wide variety of equipment, training, and other firefighter-related needs.

# **Assistance to Firefighters Grant Program**

During the 106<sup>th</sup> Congress, many in the fire community asserted that local fire departments require and deserve greater support from the federal government. The Assistance to Firefighters Grant Program (AFG), also known as fire grants or the FIRE Act grant program, was established by Title XVII of the FY2001 Floyd D. Spence National Defense Authorization Act (P.L. 106-398). Currently administered by the Federal Emergency Management Agency (FEMA) in the Department of Homeland Security (DHS), the program provides federal grants directly to local fire departments and unaffiliated Emergency Medical Services (EMS) organizations to help address a variety of equipment, training, and other firefighter-related and EMS needs.

Since its establishment, the Assistance to Firefighters Grant program has been reauthorized twice. The first reauthorization was Title XXXVI of the FY2005 Ronald W. Reagan National Defense Authorization Act (P.L. 108-375), which authorized the program through FY2009. The second and current reauthorization is Title XVIII, Subtitle A of the FY2013 National Defense Authorization Act (P.L. 112-239), which authorizes the program through FY2017 and modifies program rules for disbursing grant money.

#### Fire Grants Reauthorization Act of 2012

On January 2, 2013, the President signed P.L. 112-239, the FY2013 National Defense Authorization Act. Title XVIII, Subtitle A is the Fire Grants Reauthorization Act of 2012, which authorizes the fire grant program through FY2017. **Table 1** provides a summary of key provisions of the 2012 reauthorization, and provides a comparison with the previous statute.

<sup>&</sup>lt;sup>1</sup> "Firefighter assistance" is codified as §33 of the Federal Fire Prevention and Control Act (15 U.S.C. 2229).

Table I. Key Provisions of Fire Grant Reauthorization

Previous Statute (15 U.S.C. 2229 and 15 U.S.C. 2229a)	Fire Grant Reauthorization Act of 2012 (Title XVIII of P.L. 112-239)								
Grant money allocation									
volunteer and combination fire departments shall receive	not less than 25% to career fire departments								
a proportion of the total grant funding that is not less than the proportion of the U.S. population that those	not less than 25% to volunteer fire departments								
departments protect	not less than $25\%$ to combination and paid-on-call fire departments								
	not less than 10% for open competition among career, volunteer, combination, and paid-on-call fire departments								
5% (minimum) to fire prevention and safety grants	not less than 10% to fire prevention and safety grants								
	no fire prevention and safety grant may exceed \$1.5 million								
	includes establishment of fire-safety research centers to conduct research to improve firefighter health and safety								
	no fire prevention and safety grant may be provided to the Association of Community Organizations for Reform Now (ACORN)								
3.5% (minimum) to EMS provided by fire departments and nonaffiliated EMS organizations	not less than 3.5% to EMS provided by fire departments and nonaffiliated EMS organizations								
2% (maximum) to nonaffiliated EMS organizations	not more than 2% to nonaffiliated EMS organizations								
	not more than 3% to State training academies, no more than \$1 million per state academy in any fiscal year								
	not more than 25% for purchasing vehicles								
Grant reci	pient limits								
populations over 1 million—lesser of \$2.75 million or	\$9 million—over 2.5m population								
0.5% of total appropriation	\$6 million—Im to 2.5m population								
populations of 500K to 1 million—\$1.75 million	\$3 million—500K to 1m population								
populations under 500K—\$1 million	\$2 million—100K to 500K population								
no single grant can exceed 0.5% of total funds appropriated for a single fiscal year	\$1 million—under 100K population								
DHS can waive the funding limits for populations up to I million in instances of extraordinary need; however the lesser of \$2.75 million or 0.5% limit cannot be waived	FEMA may not award a grant exceeding 1% of all available grant funds, unless FEMA determines extraordinary need								
Nonfederal ma	tch requirements								
20% for populations over 50,000	15% for populations over 1 million								
10% for populations 20,000 to 50,000	10% for populations 20,000 to 1 million								
5% for populations less than 20,000	5% for populations under 20,000								
No match requirement for non-fire department prevention and firefighter safety grants	5% match required for fire prevention and safety grants								
Maintenance	of expenditures								
requires applicants to maintain expenditures at the same level as the average over the preceding two fiscal years	requires applicants to maintain expenditures at or above 80% of the average over the preceding two fiscal years								

Previous Statute (15 U.S.C. 2229 and 15 U.S.C. 2229a)	Fire Grant Reauthorization Act of 2012 (Title XVIII of P.L. 112-239)
Economic ha	rdship waivers
no economic hardship waivers available	waivers available for nonfederal matching and maintenance of expenditures requirements, FEMA will develop economic hardship waiver guidelines considering unemployment rates, percentages of individuals eligible to receive food stamps, and other factors as appropriate.
Authorize	ation levels
FY2005—\$900 million	FY2013—\$750 million
FY2006—\$950 million	for each of FY2014-FY2017, an amount equal to the
FY2007—\$1 billion	amount authorized the previous fiscal year, increased by the percentage by which the Consumer Price Index for
FY2008—\$1 billion	the previous fiscal year exceeds the preceding year.
FY2009—\$1 billion	
Congressionally	Directed Spending
no provision	no funds may be used for any congressionally directed spending item (as defined under the rules of the Senate and the House of Representatives)
Su	nset
none	the authority to award assistance and grants shall expire five years after the date of enactment
SAFEF	R grants
grant period is 4 years, grantees are required to retain for at least 1 year beyond the termination of their grants those firefighter positions hired under the grant	shortens the grant period to three years, with no requirement that fire departments must retain SAFER funded firefighters for an extra year
year 1—10% local match year 2—20% local match year 3—50% local match year 4—70% local match	year 1—25% local match year 2—25% local match year 3—65% local match
total funding over 4 years for hiring a firefighter may not exceed \$100K, adjusted annually for inflation	for the first year, the amount of funding provided for hiring a firefighter may not exceed 75% of the usual annual cost of a first-year firefighter in that department at the time the grant application was submitted
	for the second year, the amount of funding provided for hiring a firefighter may not exceed 75% of the usual annual cost of a first-year firefighter in that department at the time the grant application was submitted
	for the third year, the amount of funding provided for hiring a firefighter may not exceed 35% of the usual annual cost of a first-year firefighter in that department at the time the grant application was submitted
state, local, and Indian tribal governments eligible for recruitment and retention funds	additionally makes national organizations eligible for recruitment and retention funds
	allows FEMA, in the case of economic hardship, to waive cost share requirements, as well as the prohibition on supplanting local funds and maintenance of expenditure requirements (which would allow grants to be used for retention and rehiring laid-off firefighters)

Previous Statute (15 U.S.C. 2229 and 15 U.S.C. 2229a)	Fire Grant Reauthorization Act of 2012 (Title XVIII of P.L. 112-239)
authorized for 7 years starting at \$1 billion in FY2004, ending at \$1.194 billion in FY2010	reauthorizes the SAFER grant program at \$750 million for FY2013; for each of FY2014-FY2017, an amount equal to the amount authorized the previous fiscal year, increased by the percentage by which the Consumer Price Index for the previous fiscal year exceeds the preceding year
	no funds may be used for any congressionally directed spending item (as defined under the rules of the Senate and the House of Representatives)
authority to make grants shall lapse 10 years from November 24, 2003	the authority to award assistance and grants shall expire five years after the date of enactment

**Source:** Fire Grants Reauthorization Act of 2012, Title VIII, Subtitle A of FY2013 National Defense Authorization Act, P.L. 112-239.

## **Appropriations**

From FY2001 through FY2003, the Assistance to Firefighters Grant (AFG) Program (as part of USFA/FEMA) received its primary appropriation through the VA-HUD-Independent Agencies Appropriation Act. In FY2004, the Assistance to Firefighters Program began to receive its annual appropriation through the House and Senate Appropriations Subcommittees on Homeland Security. Within the DHS/FEMA budget, the firefighter assistance account (which includes both AFG and SAFER) is located within State and Local Programs (SLP) as part of the First Responder Assistance Programs (FRAP).

The fire grant program is in its 13<sup>th</sup> year. **Table 2** shows the appropriations history for firefighter assistance, including AFG, SAFER, and the Fire Station Construction Grants (SCG) provided in the American Recovery and Reinvestment Act of 2009 (ARRA). **Table 3** shows recent and proposed appropriated funding for the AFG and SAFER grant programs.

Table 2. Appropriations for Firefighter Assistance, FY2001-FY2013

	AFG	SAFER	SCG <sup>2</sup>	Total
FY2001	\$100 million			\$100 million
FY2002	\$360 million			\$360 million
FY2003	\$745 million			\$745 million
FY2004	\$746 million			\$746 million
FY2005	\$650 million	\$65 million		\$715 million
FY2006	\$539 million	\$109 million		\$648 million
FY2007	\$547 million	\$115 million		\$662 million
FY2008	\$560 million	\$190 million		\$750 million
FY2009	\$565 million	\$210 million	\$210 million	\$985 million
FY2010	\$390 million	\$420 million		\$810 million
FY2011	\$405 million	\$405 million		\$810 million
FY2012	\$337.5 million	\$337.5 million		\$675 million

	AFG	SAFER	SCG <sup>2</sup>	Total
FY2013	\$321 million	\$321 million		\$642 million
Total	\$6.26 billion	\$2.17 billion	\$210 million	\$8.64 billion

a. Assistance to Firefighters Fire Station Construction Grants (SCG) grants were funded by the American Recovery and Reinvestment Act (P.L. 111-5).

**Table 3. Recent and Proposed Appropriations for Firefighter Assistance** (millions of dollars)

	FY2011 (P.L. 112- 10)	FY2012 (Admin. request)	FY2012 (P.L. 112- 74)	FY2013 (Admin. request)	FY2013 (P.L. 113- 6)	FY2014 (Admin. request)	FY2014 H.R. 2217 (as passed by House)
FIRE Grants (AFG)	405	250	337.5	335	321 <sup>a</sup>	335	340
SAFER Grants	405	420	337.5	335	<b>321</b> <sup>a</sup>	335	340
Total	810	670	675	670	<b>642</b> <sup>a</sup>	670	680

a. Post-sequester level according to U.S. Department of Homeland Security Fiscal Year 2013 Post-Sequestration Operating Plan.

#### FY2012

The Administration's FY2012 budget proposed \$670 million for firefighter assistance, including \$250 million for AFG and \$420 million for SAFER. According to the budget proposal, the request would fund 2,200 firefighter positions and approximately 5,000 AFG grants. The FY2012 budget proposal stated that the firefighter assistance grant process "will give priority to applications that enhance capabilities for terrorism response and other major incidents." <sup>2</sup>

The Department of Homeland Security Appropriations, 2012, bill (H.R. 2017) was reported by the House Appropriations Committee on May 26, 2011. The House Committee bill would have provided \$350 million for firefighter assistance, including \$200 million for AFG and \$150 million for SAFER. The House Appropriations bill report (H.Rept. 112-91) directed FEMA to continue granting funds directly to local fire departments and to include the United States Fire Administration during the grant decision process. FEMA was also directed to maintain an all-hazards focus and was prohibited from limiting beyond current law the list of eligible activities, including those related to wellness.

During the House floor consideration of H.R. 2017, two firefighter assistance amendments were adopted. The first amendment (offered by Representative LaTourette and Representative Pascrell, and agreed to by a recorded vote of 333-87) raised FY2012 funding levels to \$335 million for AFG and \$335 million for SAFER. The total level for firefighter assistance (\$670 million) is equal to the level requested by the Administration.

<sup>&</sup>lt;sup>2</sup> Office of Management and Budget, Appendix: Budget of the United States Government, FY2012, p. 538.

The second amendment (offered by Representative Price of North Carolina and agreed to by a recorded vote of 264-157) prohibited enforcement of various SAFER requirements for grantees. These waivers would allow FY2012 SAFER grants to be used to rehire laid-off firefighters and fill positions eliminated through attrition, remove cost-share requirements, allow grants to extend longer than the current five year duration, and permit the amount of funding per position at levels exceeding the current limit of \$100,000.

The Department of Homeland Security Appropriations, 2012, bill (H.R. 2017) was passed by the House on June 2, 2011.

On September 7, 2011, the Senate Appropriations Committee approved \$750 million for firefighter assistance in FY2012 (S.Rept. 112-74), which is a 12% increase over the House-passed level. The total included \$375 million for AFG and \$375 million for SAFER. As does the House bill, the Senate bill also waived or prohibited SAFER requirements in FY2012.

P.L. 112-74, the Consolidated Appropriations Act, FY2012, provided \$675 million for firefighter assistance, including \$337.5 million for AFG and \$337.5 million for SAFER. The conference report directed FEMA to continue funding applications according to local priorities and those established by the USFA, to maintain an all hazards focus, and to continue the current grant application and review process as specified in the House report.

#### FY2013

The Administration's FY2013 budget proposed \$670 million for firefighter assistance, including \$335 million for AFG and \$335 million for SAFER. This is a decrease of \$5 million from the FY2012 level. The Firefighter Assistance Grants would be categorized under First Responder Assistance Programs (FRAP), one of three activities under FEMA's State and Local Programs (SLP) appropriation.

Historically, DHS has requested that a percentage of AFG funding (up to 5%) be set aside for management and administration of the grant program. Starting in FY2013, grant administration (for AFG and SAFER) would be shifted to the SLP Management and Administration office. According to DHS, this will make an additional \$28.8 million of the Firefighter Assistance appropriation available for grants.

On May 16, 2012, the House Appropriations Committee approved its version of the FY2013 Department of Homeland Security appropriations bill (H.R. 5855). While the committee mark is identical to the Administration requested level—\$335 million for AFG and \$335 million for SAFER—the committee denied the Administration's request to shift AFG and SAFER into the State and Local Programs account. Unlike the Administration request, H.R. 5855 would designate up to 4.7% of the amount appropriated to firefighter assistance for program administration. The committee report (H.Rept. 112-492) directed FEMA to continue granting funds directly to local fire departments and to include the United States Fire Administration during the grant decision process. FEMA was also directed to maintain an all-hazards focus and was prohibited from limiting beyond current law the list of eligible activities, including those related to wellness. The committee continued the requirement for peer review and directed FEMA to provide official notifications to rejected applicants who do not meet the criteria for peer review.

During floor action on June 6, 2012, an amendment was offered by Representative Runyan to increase funding for AFG and SAFER by \$2.5 million each, taking its \$5 million offset from the

Office of the Under Secretary for Management. The amendment passed by voice vote, bringing the firefighter assistance account to \$675 million (\$337.5 million AFG, \$337.5 million SAFER), which is identical to the FY2012 level. H.R. 5855 was passed by the House on June 7, 2012.

On May 22, 2012, the Senate Appropriations Committee approved \$675 million for firefighter assistance for FY2013 (S. 3216). This level includes \$337.5 million for AFG and \$337.5 million for SAFER. The Senate level is identical to the FY2012 level. Like the House, the committee denied the Administration's request to shift AFG and SAFER into the State and Local Programs account. However, the committee has included program and administration costs separately under the FEMA "Salaries and Expenses" account. The committee report (S.Rept. 112-169) noted that under this scenario, the entire appropriation of \$675 million would be used for grants, while administrative costs (\$33.75 million) would be funded by the Salaries and Expenses account. The committee report also directed DHS to continue the practice of funding applications according to local priorities and those established by the USFA, and to continue direct funding to fire departments and the peer review process.

The Consolidated and Further Continuing Appropriations Act, 2013 (P.L. 113-6) funds AFG and SAFER at \$337.055 million each (equal to the FY2012 level minus a 0.1% across-the-board reduction). Additionally, AFG and SAFER are subject to sequestration. Both programs are part of the State and Local Programs budget account within FEMA, which is subject to a 5.0% cut from the FY2013 level. According to DHS, AFG and SAFER are cut by 5%, which yields FY2013 budget levels of \$320.92 million for AFG and \$320.92 million for SAFER.<sup>3</sup> However, the amount of grant money available for AFG and SAFER is expected to be virtually unchanged from FY2012. This is because P.L. 113-6 provides that administrative costs are to be derived from the FEMA Salaries and Expense account, rather than (as is typically the case) from a 5% carve-out from the firefighter assistance (AFG and SAFER) appropriations account.

#### FY2014

The Administration's FY2014 budget proposed \$670 million for firefighter assistance, including \$335 million for AFG (of which \$20 million supports Fire Prevention and Safety) and \$335 million for SAFER. Funding for management and administration would be drawn from a separate FEMA account (Salaries and Expenses). The Firefighter Assistance Grants would be categorized under First Responder Assistance Programs (FRAP), one of three activities under FEMA's State and Local Programs (SLP) appropriation.

On May 29, 2013, the House Appropriations Committee approved its version of the FY2014 Department of Homeland Security appropriations bill (H.R. 2217). The committee recommended \$675 million for firefighter assistance (\$337.5 million for AFG, \$337.5 million for SAFER). Funding for management and administration would be drawn from the FEMA Salaries and Expenses account. The committee again denied the Administration's request to shift AFG and SAFER into the State and Local Programs account. The committee report (H.Rept. 113-91) directed FEMA to continue granting funds directly to local fire departments and to include the United States Fire Administration during the grant decision process. FEMA was also directed to maintain an all-hazards focus and was prohibited from limiting beyond current law the list of eligible activities, including those related to wellness. The committee continued the requirement

<sup>&</sup>lt;sup>3</sup> Department of Homeland Security, *U.S. Department of Homeland Security Fiscal Year 2013 Post-Sequestration Operating Plan*, April 26, 2013, p. 17.

for peer review and directed FEMA to provide official notifications to rejected applicants who do not meet the criteria for peer review.

During floor action on June 5, 2013, an amendment was offered by Representative Runyan to increase funding for AFG and SAFER by \$2.5 million each, taking its \$5 million offset from the Office of the Under Secretary for Management. The amendment passed by voice vote, bringing the firefighter assistance account to \$680 million (\$340 million AFG, \$340 million SAFER). H.R. 2217 was passed by the House on June 6, 2013.

### Fire Station Construction Grants in the ARRA

Since its inception, the traditional fire grant program has provided money specifically for health and safety related modifications of fire stations, but has not funded major upgrades, renovations, or construction. The American Recovery and Reinvestment Act (ARRA) of 2009 (P.L. 111-5) provided an additional \$210 million in firefighter assistance grants for modifying, upgrading, or constructing state and local non-federal fire stations, provided that 5% be set aside for program administration, and provided that no grant shall exceed \$15 million. The conference report (H.Rept. 111-16) cited DHS estimates that this spending would create 2,000 jobs. The ARRA also included a provision (§603) that waived the matching requirement for SAFER grants funded by appropriations in FY2009 and FY2010.

The application period for ARRA Assistance to Firefighters Fire Station Construction Grants (SCG) opened on June 11 and closed on July 10, 2009. There is no cost share requirement for SCG grants. Eligible applicants are non-federal fire departments that provide fire protection services to local communities. Ineligible applicants include federal fire departments, EMS or rescue organizations, airport fire departments, for-profit fire departments, fire training centers, emergency communications centers, auxiliaries and fire service organizations or associations, and search and rescue teams or similar organizations without fire suppression responsibilities.

DHS/FEMA received 6,025 SCG applications for \$9.9 billion in federal funds. As of October 1, 2010, 119 SCG grants were awarded, totaling \$207.461 million to fire departments within the United States. A complete list of SCG awards is available at http://www.fema.gov/rules-tools/assistance-firefighters-station-construction-grants.

On February 15, 2011, the Firefighting Investment, Renewal, and Employment Act or FIRE Act (H.R. 716) was introduced to authorize \$210 million for each of fiscal years 2012 through 2016 for competitive grants for modifying, upgrading, or constructing nonfederal fire stations.

## **SAFER Grants**

In response to concerns over the adequacy of firefighter staffing, the 108<sup>th</sup> Congress enacted the Staffing for Adequate Fire and Emergency Response (SAFER) Act as Section 1057 of the FY2004 National Defense Authorization Act (P.L. 108-136; signed into law November 24, 2003). The SAFER grant program is codified as Section 34 of the Federal Fire Prevention and Control

<sup>&</sup>lt;sup>4</sup> Detailed SCG application statistics are available at http://www.firegrantsupport.com/docs/2009AFSCGAppStats.pdf.

Act of 1974 (15 U.S.C. 2229a). The SAFER Act authorizes grants to career, volunteer, and combination fire departments for the purpose of increasing the number of firefighters to help communities meet industry minimum standards and attain 24-hour staffing to provide adequate protection from fire and fire-related hazards. Also authorized are grants to volunteer fire departments for activities related to the recruitment and retention of volunteers. For more information on the SAFER program, see CRS Report RL33375, *Staffing for Adequate Fire and Emergency Response: The SAFER Grant Program*, by Lennard G. Kruger.

# **Program Evaluation**

On May 13, 2003, the U.S. Fire Administration (USFA) released the first independent evaluation of the Assistance to Firefighters Program. Conducted by the U.S. Department of Agriculture's Leadership Development Academy Executive Potential Program, the survey study presented a number of recommendations and concluded overall that the program was "highly effective in improving the readiness and capabilities of firefighters across the nation." Another evaluation of the fire grant program was released by the DHS Office of Inspector General in September 2003. The report concluded that the program "succeeded in achieving a balanced distribution of funding through a competitive grant process," and made a number of specific recommendations for improving the program.

At the request of DHS, the National Academy of Public Administration conducted a study to help identify potential new strategic directions for the Assistance to Firefighters Grant program and to provide advice on how to effectively plan, manage, and measure program accomplishments. Released in April 2007, the report recommended consideration of new strategic directions related to national preparedness, prevention vs. response, social equity, regional cooperation, and emergency medical response. According to the report, the "challenge for the AFG program will be to support a gradual shift in direction without losing major strengths of its current management approach—including industry driven priority setting and its well-respected peer review process."<sup>7</sup>

The Consolidated Appropriations Act of 2008 (P.L. 110-161), in the accompanying Joint Explanatory Statement, directed the Government Accountability Office (GAO) to review the application and award process for fire and SAFER grants. Additionally, FEMA was directed to peer review grant applications that best address the program's priorities and criteria as established by FEMA and the fire service. Those criteria necessary for peer-review must be included in the grant application package. Applicants whose grant applications are not reviewed must receive an official notification detailing why the application did not meet the criteria for review. Applications must be rank-ordered, and funded following the rank order.

In October 2009, GAO sent a report to Congress finding that FEMA has met most statutory requirements for awarding fire grants. 8 GAO recommended that FEMA establish a procedure to

-

<sup>&</sup>lt;sup>5</sup> For full report see http://www.usfa.fema.gov/downloads/pdf/affgp-fy01-usda-report.pdf.

<sup>&</sup>lt;sup>6</sup> Department of Homeland Security, Office of Inspections, Evaluations, and Special Reviews, "A Review of the Assistance to Firefighters Grant Program," OIG-ISP-01-03, September 2003, p. 3. Available at http://www.dhs.gov/xoig/assets/mgmtrpts/OIG Review Fire Assist.pdf.

<sup>&</sup>lt;sup>7</sup> National Academy of Public Administration, *Assistance to Firefighters Grant Program: Assessing Performance*, April 2007, p. xvii. Available at http://www.napawash.org/pc\_management\_studies/ Fire Grants Report April2007.pdf.

<sup>&</sup>lt;sup>8</sup> U.S. Government Accountability Office, Fire Grants: FEMA Has Met Most Requirements for Awarding Fire Grants, (continued...)

track EMS awards, ensure that grant priorities are better aligned with application questions and scoring values, and provide specific feedback to rejected applicants.

In June 2011, the National Fire Protection Association (NFPA) released its *Third Needs Assessment of the U.S. Fire Service*, which seeks to identify gaps and needs in the fire service, and measures the impact that fire grants have had on filling those gaps and needs. According to the study:

Needs have declined to a considerable degree in a number of areas, particularly personal protective and firefighting equipment, two types of resource that received the largest shares of funding from the Assistance to Firefighters grants (AFG). Declines in needs have been more modest in some other important areas, such as training, which have received much smaller shares of AFG grant funds.<sup>9</sup>

## Reports Mandated by Fire Grants Reauthorization Act of 2012

P.L. 112-239 mandates reports and studies on the AFG and SAFER programs, as well as on the state of the fire service.

- FEMA is directed to develop a performance assessment system to evaluate AFG
  and SAFER grants. FEMA shall submit annual reports to Congress providing
  information on its performance assessment system, an evaluation of AFG and
  SAFER grant effectiveness, and recommendations for legislative changes to
  improve grant effectiveness.
- The Comptroller General is directed to submit a report to Congress assessing the effect of the amendments to the AFG and SAFER statute made by the Fire Grants Reauthorization of 2012.
- The United States Fire Administration (USFA) is directed to conduct a study on the level of compliance with national voluntary consensus standards for staffing, training, safe operations, personal protective equipment, and fitness among the fire services of the United States.
- The Secretary of Homeland Security is directed to establish a Task Force to Enhance Firefighter Safety, which will review the USFA study on fire service standards and develop a plan to enhance firefighter safety by increasing fire service standards compliance. The Task Force will report its findings to Congress and DHS.
- USFA is directed to conduct a study and report on the needs of the fire service.

-

<sup>(...</sup>continued)

but Additional Actions Would Improve Its Grant Process, GAO-10-64, October 2009, http://www.gao.gov/new.items/d1064.pdf.

<sup>&</sup>lt;sup>9</sup> National Fire Protection Association, *Third Needs Assessment of the U.S. Fire Service*, June 2011, abstract. Available at http://www.nfpa.org/assets/files//2011NeedsAssessment.pdf.

## **Distribution of Fire Grants**

The AFG statute prescribes different purposes for which fire grant money may be used. These are training firefighting personnel; creating rapid intervention teams; certifying fire inspectors and building inspectors whose responsibilities include fire safety inspections and who are associated with a fire department; establishing wellness and fitness programs, including mental health programs; funding emergency medical services (EMS) provided by fire departments and nonaffiliated EMS organizations; acquiring firefighting vehicles; acquiring firefighting equipment; acquiring personal protective equipment; modifying fire stations, fire training facilities, and other facilities for health and safety; educating the public about arson prevention and detection; providing incentives for the recruitment and retention of volunteer firefighters; and supporting other activities as FEMA determines appropriate. FEMA has the discretion to decide which of those purposes will be funded for a given grant year. Since the program commenced in FY2001, the majority of fire grant funding has been used by fire departments to purchase firefighting equipment, personal protective equipment, and firefighting vehicles.

Eligible applicants are limited primarily to fire departments (defined as an agency or organization that has a formally recognized arrangement with a state, local, or tribal authority to provide fire suppression, fire prevention, and rescue services to a population within a fixed geographical area). Emergency Medical Services (EMS) activities are eligible for fire grants, including a limited number to EMS organizations not affiliated with hospitals.

Additionally, a separate competition is held for fire prevention and firefighter safety research and development grants, which are available to fire departments; national, state, local, tribal, or nonprofit organizations recognized for their fire safety or prevention expertise; and to institutions of higher education, national fire service organizations, or national fire safety organizations to establish and operate fire safety research centers. For official program and application guidelines, frequently-asked-questions, the latest awards announcements, and other information, see the Assistance to Firefighters Grant program web page at http://www.fema.gov/welcome-assistance-firefighters-grant-program.

The FIRE Act statute provides overall guidelines on how fire grant money will be distributed. Previously, the law directed that volunteer and combination departments receive a proportion of the total grant funding that is not less than the proportion of the U.S. population that those departments protect (34% for combination, 21% for all-volunteer). Reflecting concerns that career fire departments (which are primarily in urban and suburban areas) were not receiving adequate levels of funding, the Fire Grants Authorization Act of 2012 alters the distribution formula, directing that not less than 25% of annual AFG funding go to career fire departments, not less than 25% to volunteer fire departments, not less than 25% to combination and paid-on-call fire departments, and not less than 10% for open competition among career, volunteer, combination, and paid-on-call fire departments. Additionally, P.L. 112-239 raises award caps (up to \$9 million) and lowers matching requirements for fire departments serving higher population areas.

There is no set geographical formula for the distribution of fire grants—fire departments throughout the nation apply, and award decisions are made by a peer panel based on the merits of the application and the needs of the community. However, the law does require that fire grants should be distributed to a diverse mix of fire departments, with respect to type of department

(paid, volunteer, or combination), geographic location, and type of community served (e.g., urban, suburban, or rural). <sup>10</sup> The Fire Act's implementing regulation provides that

In a few cases, to fulfill our obligations under the law to make grants to a variety of departments, we may also make funding decisions using rank order as the preliminary basis, and then analyze the type of fire department (paid, volunteer, or combination fire departments), the size and character of the community it serves (urban, suburban, or rural), and/or the geographic location of the fire department. In these instances where we are making decisions based on geographic location, we will use States as the basic geographic unit.<sup>11</sup>

Additionally, each fire department that applies is classified as either urban, suburban, or rural. In FY2010, 75.1% of applications were received from rural fire departments, 17.7% from suburban, and 7.2% from urban. This translated into rural departments requesting 66.7% of federal funds, suburban departments requesting 21.5%, and urban departments requesting 11.8%. <sup>12</sup>

Finally, in an effort to maximize the diversity of awardees, the geographic location of an applicant (using states as the basic geographic unit) is used as a deciding factor in cases where applicants have similar qualifications. **Table 4** shows a state-by-state breakdown of fire grant funding for FY2001 through FY2011, while **Table 5** shows a state-by-state breakdown of SAFER grant funding for FY2005 through FY2011. **Table 6** provides an in-depth look at the FY2010 fire grants, showing, for each state, the number of fire grant applications, the total amount requested, the total amount awarded, and the amount of funds awarded as a percentage of funds requested. As **Table 6** shows, the entire pool of fire department applicants received about 13% of the funds they requested in FY2010. This compares to 16% in FY2009, 15% in FY2008, 16% in FY2007, 21% in FY2006, 22% in FY2005, 28% in FY2004, and 34% in FY2003. The downward trend reflects the fact that the number of applications and the amount of federal funds requested have trended upward over the years, while appropriations for the fire grant program have typically declined over the same period.

# Issues in the 113<sup>th</sup> Congress

The 113<sup>th</sup> Congress will likely consider FY2014 and FY2015 budget appropriations for AFG and SAFER. As is the case with many federal programs, concerns over the federal budget deficit could impact budget levels for AFG and SAFER. At the same time, firefighter assistance budgets will likely receive heightened scrutiny from the fire community, given the local budgetary cutbacks that many fire departments are now facing.

The 113<sup>th</sup> Congress will also likely examine the impact of new grant distribution guidelines mandated by P.L. 112-239, the Fire Grant Authorization Act of 2012. The continuing issue is how effectively grants are being distributed and used to protect the health and safety of the public and firefighting personnel against fire and fire-related hazards.

<sup>&</sup>lt;sup>10</sup> 15 U.S.C. 2229(b)(9).

<sup>&</sup>lt;sup>11</sup> 44 CFR Part 152.6(c).

<sup>12</sup> Ibid.

Table 4. State-by-State Distribution of AFG Grants, FY2001-FY2011

(millions of dollars)

					`		,					
-	FY01	FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FYI0	FYII	Total
AL	3.085	12.503	23.329	25.097	20.836	22.027	19.903	23.332	19.966	14.591	18.591	203.26
AK	1.303	2.641	5.242	2.522	3.111	0.754	2.454	0.990	0.935	0.568	0.568	21.088
ΑZ	1.37	3.6	7.490	9.808	7.905	4.041	4.932	5.440	4.716	2.873	4.952	57.127
AR	1.337	4.635	10.675	13.680	10.402	7.699	7.799	7.107	8.174	5.111	4.253	80.872
CA	5.905	18.978	30.060	29.793	25.631	17.856	18.730	26.198	23.644	21.764	35.334	253.893
CO	1.003	3.968	6.168	5.585	6.073	3.213	4.742	2.490	6.11	3.369	5.213	47.934
CT	1.828	4.675	10.841	9.991	7.287	5.479	6.630	6.925	5.231	3.166	3.67	65.723
DE	0.132	0.372	1.096	1.755	1.161	1.107	0.518	0.231	1.251	0.282	0.366	8.271
DC	0	0.22	0	0	0.453	0	0.376	1.171	0	0.368	1.38	3.968
FL	2.865	10.16	16.344	15.969	17.922	6.787	8.288	6. 738	12.581	12.557	16.2	126.411
GA	2.375	6.079	13.791	11.857	10.168	8.887	9.068	7.959	8.981	6.192	5.174	90.531
HI	0	1.182	0.947	0.864	1.205	0.264	0.436	0.772	0.609	0.261	1.534	8.074
ID	0.916	2.744	6.001	4.828	4.684	2.712	4.297	2.687	2.883	2.361	0.439	34.552
IL	2.417	13.398	28.810	27.238	25.433	21.120	21.923	21.325	25.24	14.809	12.753	214.466
IN	2.703	8.739	20.456	18.646	15.779	14.447	13.831	13.092	15.179	10.759	7.728	141.359
IA	1.301	7.284	16.087	16.430	13.119	10.064	9.298	9.877	9.695	5.818	6.629	105.602
KS	1.153	5.118	10.850	10.211	7.165	4.984	5.502	3.928	6.682	3.055	3.072	61.72
KY	2.215	7.896	19.832	16.150	14.215	13.308	13.081	17.153	13.108	8.081	5.426	130.465
LA	3.344	10.084	12.248	11.101	11.630	6.935	5.473	7.033	8.073	4.414	6.337	86.672
ME	1.296	4.319	10.323	10.031	6.124	6.702	5.486	4.904	3.462	1.348	2.118	56.113
MD	0.739	4.08	8.153	10.227	8.771	10.368	7.712	5.525	5.221	4.545	4.524	69.865
MA	2.301	8.386	15.715	13.958	13.529	8.957	11.644	9.532	11.957	8.083	10.679	114.741
MI	2.815	8.948	17.247	20.005	15.088	15.798	15.399	15.482	18.045	9.502	16.904	155.233
MN	2.133	8.149	17.510	18.609	14.894	14.718	16.600	13.082	17.253	18.923	10.638	152.509
MS	1.763	6.755	15.679	11.329	9.856	7.885	8.052	7.761	8.436	5.66	3.694	86.87
MO	3.079	10.291	19.573	17.757	14.246	13.202	10.611	11.589	12.973	9.21	7.594	130.125
MT	1.164	3.726	8.361	7.271	6.656	5.839	7.330	4.670	5.179	3.204	0.725	54.125
NE	1.034	2.392	7.820	6.577	5.116	4.399	4.443	4.324	4.341	0.441	1.378	42.265
NV	0.282	1.446	3.312	1.405	1.946	0.857	1.530	0.687	0.855	1.437	0.564	14.321
NH	0.594	1.887	4.584	5.694	4.563	3.307	3.219	2.723	2.834	1.496	1.69	32.591
NJ	2.596	6.339	19.982	16.488	14.691	12.386	13.266	13.201	15.502	9.687	10.402	134.54
NM	1.455	3.463	5.048	3.653	2.259	1.461	1.367	1.101	1.605	1.632	2.122	25.166
NY	3.978	14.728	34.320	35.030	36.009	33.804	22.664	30.204	23.235	13.367	10.253	257.592
NC	1.949	10.239	22.864	22.360	19.315	18.309	20.031	18.460	20.881	13.137	13.864	181.409
ND	0.546	2.613	5.105	3.391	2.673	2.459	3.100	3.297	2.527	1.594	0.71	28.015
ОН	2.731	13.742	26.997	29.107	27.344	25.380	26.433	26.938	33.164	20.168	23.281	255.285
ОК	1.864	4.939	10.540	10.393	8.757	10.852	7.220	6.875	7.239	3.527	3.187	75.393
OR	1.596	4.892	9.896	10.122	10.014	9.288	5.943	8.438	5.986	6.332	5.59	78.097

	FY01	FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FYII	Total
PA	2.89	16.97	45.179	47.898	39.233	41.259	43.610	41.041	37.231	19.623	26.227	361.161
RI	0.407	1.507	2.327	1.917	2.129	2.025	0.855	1.395	2.46	1.533	2.314	18.869
SC	1.554	5.257	11.832	14.150	10.544	8.028	10.470	11.040	11.227	8.684	4.948	97.734
SD	0.904	3.142	5.602	4.693	3.570	2.989	2.474	2.069	2.527	0.753	1.135	29.858
TN	2.46	11.509	19.306	18.686	15.047	11.209	12.955	16.074	13.311	11.259	6.268	138.084
TX	3.697	15.644	29.264	30.118	23.480	18.035	17.691	20.458	19.469	9.941	11.031	198.828
UT	0.9	2.754	4.628	3.880	2.188	2.213	3.378	0.934	2.295	2.985	0.883	27.038
VT	0.451	1.971	5.163	4.747	2.071	1.456	1.820	1.046	1.974	0.689	0.498	21.886
VA	2.066	8.79	15.816	16.668	14.357	8.317	10.403	8.370	6.405	5.991	3.5	100.683
WA	1.535	7.544	18.808	19.565	15.763	16.150	12.951	13.050	10.064	7.961	7.341	130.732
WV	1.067	3.966	9.942	9.133	10.143	5.838	7.164	7.238	5.331	5.074	2.173	67.069
WI	2.077	7.518	18.234	19.668	17.685	13.994	19.439	15.216	15.17	9.569	8.635	147.205
WY	1.09	1.612	3.507	1.811	2.032	1.197	1.645	1.023	1.427	0.086	0.488	15.918
PR	0.657	0.382	1.643	1.140	1.104	0.528	0.019	0.074	1.154	0	0.876	7.577
MP	0.145	0.225	0	0	0.220	0.172	0	0	0	0	0	0
GU	0	0.016	0	0	0	0.287	0	0	0	0	0	0
AS	0.164	0	0	0.284	0	0	0	0	0	0	0	0
VI	0.741	0	0.544	0	0	0	0	0.233	0	0	0	0
	91.97	334.41	695.09	679.29	585.59	491.35	494.20	492.50	503.79	337.84	345.85	5051.9

**Source:** Department of Homeland Security.

Table 5. State-by-State Distribution of SAFER Grants, FY2005-FY2011

(millions of dollars)

	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	Total
Alabama	1.611	6.215	4.236	7.314	4.288	8.531	1.293	33.488
Alaska	1.051	0.205	0.418	1.438	0.328	6.072	0.074	9.586
Arizona	1.560	3.559	4.428	6.613	6.768	10.357	2.809	36.094
Arkansas	0.394	1.820	0.377	3.834	0.976	2.206	1.136	10.743
California	5.221	5.212	4.259	4.212	31.501	63.13	56.356	169.891
Colorado	1.584	3.479	1.730	2.02	0.955	3.384	5.432	18.584
Connecticut	0.130	0.191	0.856	3.92	2.214	1.312	5.099	13.722
Delaware	0	0.135	0	0.398	0	1.723	0	2.256
District of Columbia	0	0	0	0	0	0	0	0
Florida	6.576	9.329	6.217	17.185	24.105	17.721	30.494	111.627
Georgia	5.354	2.085	2.842	17.438	4.844	10.384	1.273	44.22
Hawaii	0	0	0	1.626	0	0.1	0	1.726
Idaho	0.063	0.621	0.626	0.774	1.336	2.897	4.068	10.385

	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	Total
Illinois	1.340	4.463	9.933	5.85	2.496	10.848	2.456	37.386
Indiana	0	0.099	2.687	4.577	8.295	9.931	4.587	30.176
Iowa	0.169	0.144	0.980	1.288	1.045	0.081	1.604	5.311
Kansas	0.667	0.045	1.029	1.872	2.806	2.285	0.381	9.085
Kentucky	0.152	2.890	0.429	2.466	0.338	0.893	0.155	7.323
Louisiana	3.430	3.078	4.728	8.62	10.515	0.182	1.672	32.225
Maine	0.081	0	0.316	0.951	0.739	1.047	0.518	3.652
Maryland	0.096	1.862	1.526	3.171	4.429	2.145	4.299	17.528
Massachusetts	1.300	2.079	4.372	2.690	18.385	34.422	23.127	86.375
Michigan	1.759	0.592	0	0.628	13.286	22.493	47.646	86.404
Minnesota	0.300	1.089	0.375	3.246	1.256	0.789	4.463	11.518
Mississippi	0.756	0.594	0.115	1.608	0	1.209	0.488	4.77
Missouri	1.467	3.547	4.551	2.381	1.474	5.618	10.619	29.657
Montana	0.034	0.255	2.635	2.955	0.458	0.973	1.252	8.562
Nebraska	0	0.873	0.632	1.951	0.802	0.493	0	4.751
Nevada	1.500	1.714	0.632	0.086	0.577	2.459	13.438	20.406
New Hampshire	0.400	1.035	1.528	0.225	0	0.353	1.479	5.02
New Jersey	6.374	3.971	2.953	4.389	0.556	56.648	18.073	92.964
New Mexico	0	3.123	1.309	0.108	0.499	1.854	0	6.893
New York	1.540	2.991	2.845	4.412	8.227	18.239	6.142	44.396
North Carolina	2.155	5.533	5.371	18.183	2.256	6.375	5.833	45.706
North Dakota	0	0.609	0	1.518	1.517	2.139	0.048	5.831
Ohio	1.319	1.881	2.255	3.737	29.606	21.04	18.654	78.492
Oklahoma	0.147	0.699	0.531	2.782	0	9.127	1.435	14.721
Oregon	1.710	2.141	2.649	2.071	0.677	6.814	8.354	23.768
Pennsylvania	1.244	1.475	2.633	3.515	1.176	7.926	13.831	31.8
Rhode Island	0.400	0	0.105	0	1.561	4.249	3.108	9.423
South Carolina	0.456	0.863	3.218	8.158	2.41	2.064	2.147	19.316
South Dakota	0.063	0.311	0.211	0.552	0	0.648	0.255	2.04
Tennessee	2.700	2.719	3.683	1.856	1.148	7.374	0.993	20.473
Texas	0.951	10.961	8.779	19.06	3.158	12.65	2.881	58.44
Utah	0.900	3.312	2.098	3.955	1.824	4.583	0.208	16.88
Vermont	0	0.621	0.632	0	0.119	0	0	1.372
Virginia	2.091	3.554	0.782	1.849	4.891	8.995	4.978	27.14
Washington	2.298	2.897	7.340	9.476	2.847	13.779	16.139	54.776
West Virginia	0	0.187	0.681	0.16	0.287	0.398	0	1.713
Wisconsin	0	0.072	1.223	4.502	0	0.12	3.101	9.018

	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	Total
Wyoming	0	0	0.316	2.329	0.263	0.997	1.148	5.053
Puerto Rico	0	0	0	0	0	0	0	0
Northern Mariana Islands	0	0	0	0	0	1.404	0	1.404
Marshall Islands	0	0	0	0	0	0	0	0
Guam	0	0	0	0	0	0	0	0
American Samoa	0	0	0	0	0	0	0.474	0.474
Virgin Islands	0	0	0	0	0	0	0	0
Republic of Palau	0	0	0	0	0	0	0	0
Total	61.356	105.142	113.665	203.964	207.258	410.833	334.03	1434.564

**Source:** Department of Homeland Security.

Table 6. Requests and Awards for AFG Funding, FY2010

State	Number of applications	Federal funds requested (\$millions)	Federal funds awarded (\$millions)	Funds awarded a a % of funds requested
Alabama	674	96.316	14.591	15.15%
Alaska	45	9.954	0.568	5.71%
Arizona	126	27.556	2.873	10.43%
Arkansas	300	44.642	5.111	11.45%
California	455	105.692	21.764	20.59%
Colorado	162	30.098	3.369	11.19%
Connecticut	201	37.739	3.166	8.39%
Delaware	21	3.569	0.282	7.90%
District of Columbia	2	0.447	0.368	82.33%
Florida	253	55.369	12.557	22.68%
Georgia	298	49.05	6.192	12.62%
Hawaii	2	0.534	0.261	48.88%
Idaho	94	14.085	2.361	16.76%
Illinois	679	116.024	14.809	12.76%
Indiana	386	58.256	10.759	18.47%
Iowa	369	45.45	5.818	12.80%
Kansas	203	27.591	3.055	11.07%
Kentucky	451	72.725	8.081	11.11%
Louisiana	197	33.435	4.414	13.20%
Maine	192	24.753	1.348	5.45%
Maryland	162	28.625	4.545	15.88%
Massachusetts	301	57.184	8.083	14.14%

State	Number of applications	Federal funds requested (\$millions)	Federal funds awarded (\$millions)	Funds awarded as a % of funds requested
Michigan	551	84.256	9.502	11.28%
Minnesota	419	69.131	18.923	27.37%
Mississippi	335	44.81	5.66	12.63%
Missouri	428	53.502	9.21	17.21%
Montana	141	21.442	3.204	14.94%
Nebraska	133	17.792	0.441	2.48%
Nevada	25	5.142	1.437	27.95%
New Hampshire	110	16.886	1.496	8.86%
New Jersey	484	87.821	9.687	11.03%
New Mexico	63	11.924	1.632	13.69%
New York	975	136.33	13.367	9.80%
North Carolina	645	102.416	13.137	12.83%
North Dakota	91	13.401	1.594	11.89%
Ohio	950	156.989	20.168	12.85%
Oklahoma	241	31.97	3.527	11.03%
Oregon	171	30.766	6.332	20.58%
Pennsylvania	1641	229.005	19.623	8.57%
Rhode Island	57	14.264	1.533	10.75%
South Carolina	378	50.393	8.684	17.23%
South Dakota	117	16.182	0.753	4.65%
Tennessee	517	78.254	11.259	14.39%
Texas	593	94.696	9.941	10.50%
Utah	93	16.076	2.985	18.57%
Vermont	84	11.737	0.689	5.87%
Virginia	237	43.841	5.991	13.67%
Washington	275	46.474	7.961	17.13%
West Virginia	273	44.61	5.074	11.37%
Wisconsin	584	80.314	9.569	11.91%
Wyoming	35	3.623	0.086	2.37%
Puerto Rico	8	1.499	0	0.00%
Northern Marianas	1	0.56	0	0.00%
Virgin Islands	2	0.355	0	0.00%
Guam	1	0.224	0	0.00%
Total	16,231	2555.779	337.840	13.22%

**Source:** Department of Homeland Security.

## **Author Contact Information**

Lennard G. Kruger Specialist in Science and Technology Policy lkruger@crs.loc.gov, 7-7070