

# ***Growing Connections to Achieve Goals: Tree and Shade Plan Resources***



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***UCF Program,  
Arizona State Forestry***

***Trees for People, Mesa, 27 Mar 2013***

# Tree City USA Program



## Highlights:

- National program
- Started in 1980
- Key Partners
  - USDA Forest Service
  - National Association of State Foresters
  - State Forestry Departments
  - Arbor Day Foundation
  - Local communities
- ~3,400 recognized communities nationally
- 135M+ people live in recognized communities



# Tree City USA Program



## Program Standards:

1. Tree Board or Department overseeing urban forestry activities
2. Tree Care ordinance
3. Annual investment of \$2/capita
4. Arbor Day observation and proclamation



# Tree City USA Program



## Program Benefits:

- Establishes a framework for action
- Educational activities and opportunities
- Increased public awareness
- Community pride and engagement
- Fosters partnerships
- Financial assistance

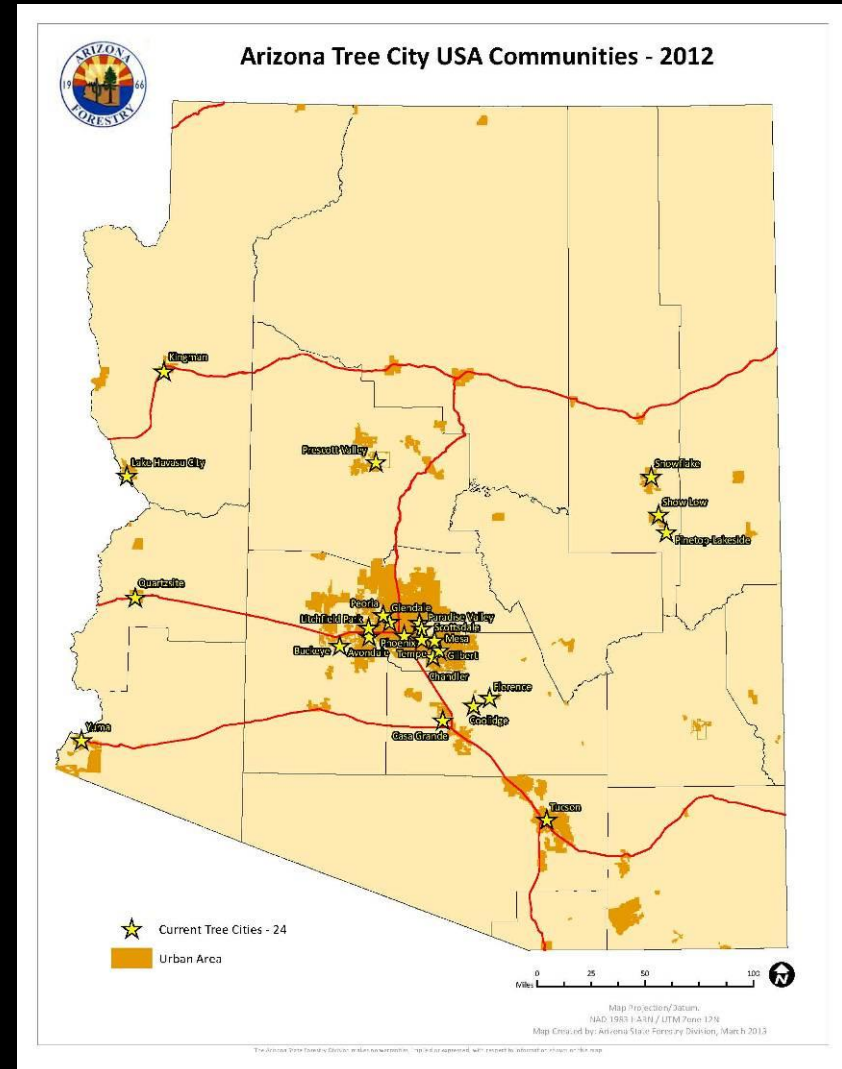


# Tree City USA Program



## Arizona Stats (2012)

- 24 Communities in Program
  - 98% retention rate
  - 64% of AZ residents live in Tree Cities
  - Largest: Phoenix (1.4M)
  - Smallest: Quartzsite (3,600)
  - Total Investment: **\$25,013,489**
  - Average UCF Investment (per TCUSA Com): **\$1,042,229**
  - Annual investment per TCUSA resident: **\$6.21**



# Tree City USA Program



## Valley of the Sun (2012)

➤ Avondale	\$15.84
➤ Buckeye	\$2.01
➤ Chandler	\$5.20
➤ Gilbert	\$30.18
➤ Glendale	\$2.16
➤ Litchfield Park	\$97.85
➤ Mesa	\$3.34
➤ Paradise Valley	\$2.00
➤ Peoria	\$2.17
➤ Phoenix	\$3.64
➤ Scottsdale	\$4.18
➤ Tempe	\$3.15

## Comparisons (2012)

➤ Tucson	\$5.37
➤ Albuquerque NM	\$4.89
➤ Las Vegas NV	\$2.74



# Tree City USA Program



## Why it's Important:

- Increase property values (8-20%)
- Increase commercial rental rates (3-7%)
- Shoppers willing to pay more for goods in areas with trees (10-12%)
- Storm water storage savings of \$4.7B nationally
- Annual air quality savings of \$49.8M nationally

*All of this could mean increased budgets (taxes and savings).*



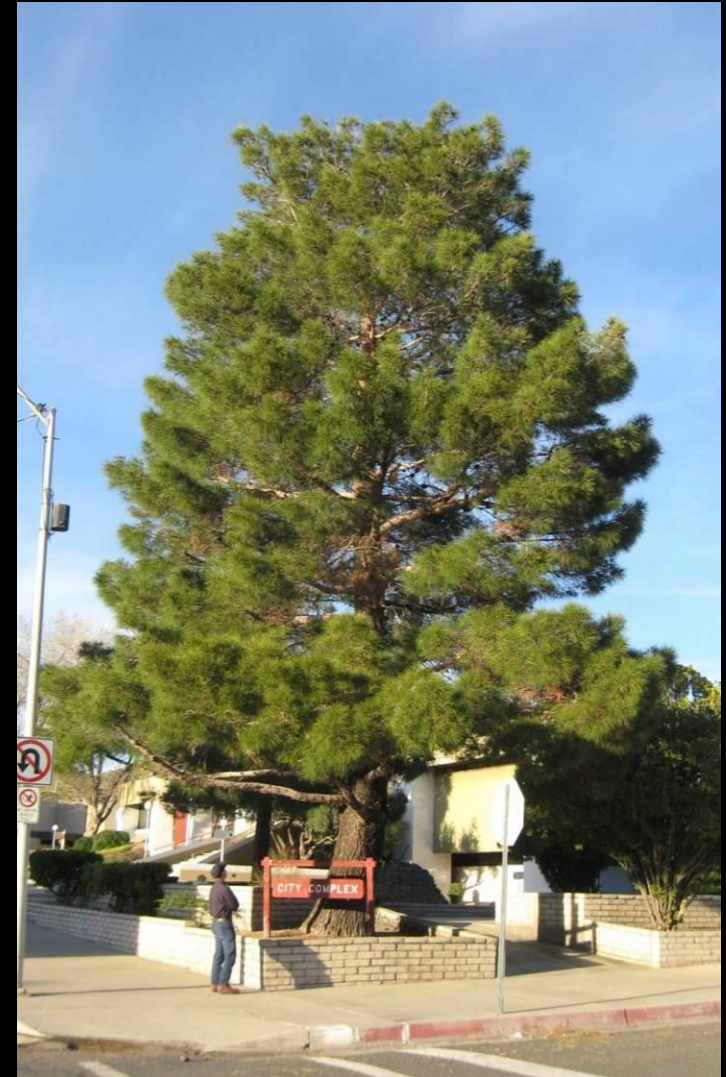
# Tree City USA Program



## Why it's Important:

- Per tree annual net benefit:
  - Small tree → \$1 – \$8
  - Medium tree → \$19 – \$25
  - Large tree → \$48 – \$53
- Example Benefits:
  - One tree over 16 years
  - Small for 3 years = ~\$9
  - Medium for 5 years = ~\$105
  - Large for 8 years = ~\$408
  - Total for 16 years = ~\$522 (~\$32.60/yr)

*Just 5,000 trees in your community may be worth ~\$165K annually!*







# GI: Funding Resources



## Funding Options

- Stormwater fees
- Loan programs

## Private

- Foundations
- Local philanthropists
- Donors

## Public

- Federal
- State

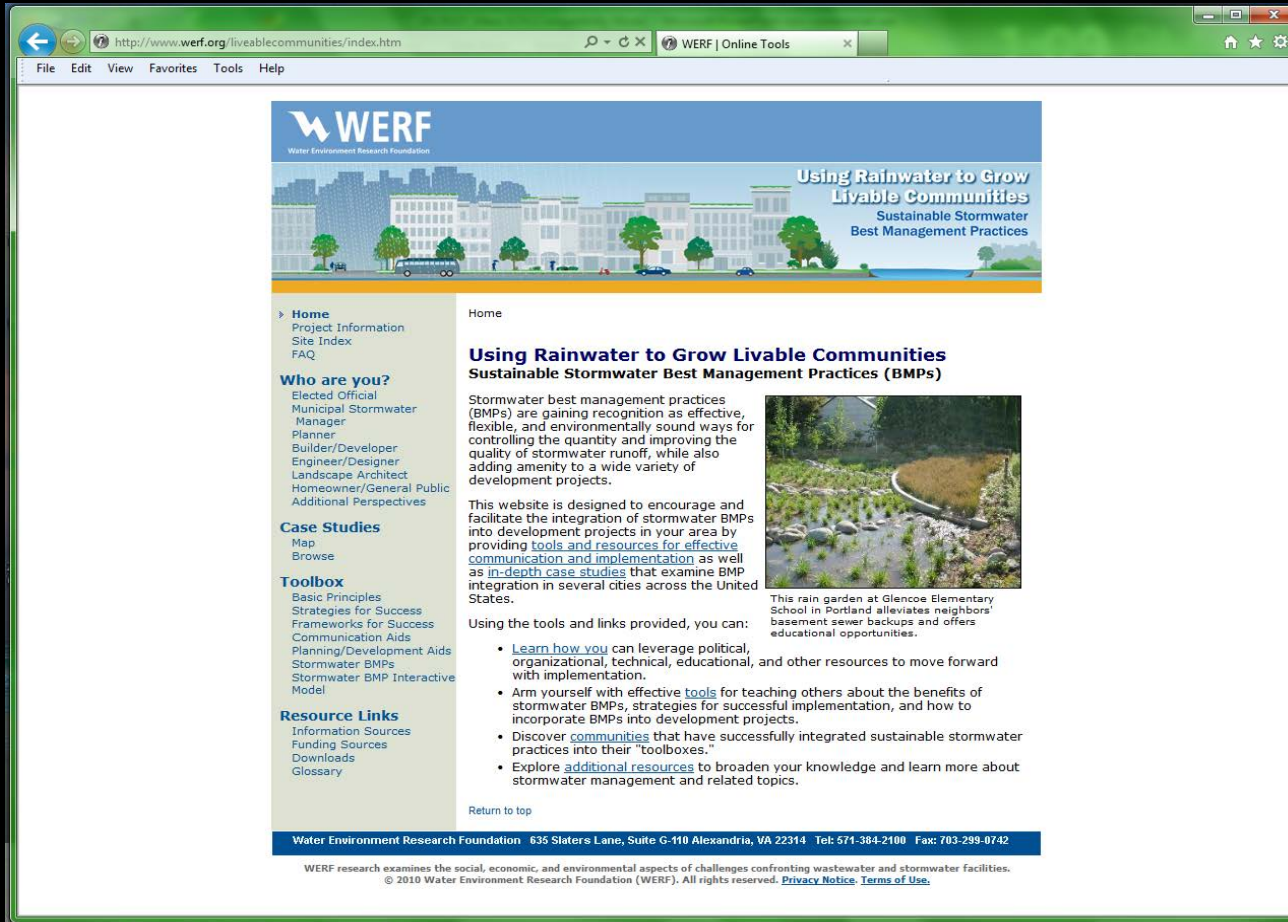
# GI: Funding Resources



## Funding Options

- Stormwater fees
  - Generates a revenue stream to pay for building and maintenance
  - Stormwater utility to collect fees (managed separate from general funds)
  - Can develop discount programs that encourage GI
- Loan programs
  - EPA's Clean Water State Revolving Fund (CWSRF)
  - Used where stormwater fees are impractical
  - Variety of state and federal loan programs to finance GI projects
  - Loan interest may be as low as 0%
  - No matching requirement
  - Usually paid off over 20 years or useful life of project

# GI: Funding Resources



The screenshot shows a web browser window displaying the WERF website. The browser's address bar shows the URL <http://www.werf.org/liveablecommunities/index.htm>. The website header features the WERF logo and the title "Using Rainwater to Grow Livable Communities: Sustainable Stormwater Best Management Practices". A navigation menu on the left includes sections for "Home", "Who are you?", "Case Studies", "Toolbox", and "Resource Links". The main content area is titled "Using Rainwater to Grow Livable Communities: Sustainable Stormwater Best Management Practices (BMPs)" and includes an introductory paragraph, a photograph of a rain garden, and a list of resources. The footer contains contact information for WERF and a copyright notice.

**WERF**  
Water Environment Research Foundation

## Using Rainwater to Grow Livable Communities

Sustainable Stormwater Best Management Practices

Home  
Project Information  
Site Index  
FAQ

**Who are you?**  
Elected Official  
Municipal Stormwater Manager  
Planner  
Builder/Developer  
Engineer/Designer  
Landscape Architect  
Homeowner/General Public  
Additional Perspectives

**Case Studies**  
Map  
Browse

**Toolbox**  
Basic Principles  
Strategies for Success  
Frameworks for Success  
Communication Aids  
Planning/Development Aids  
Stormwater BMPs  
Stormwater BMP Interactive Model

**Resource Links**  
Information Sources  
Funding Sources  
Downloads  
Glossary


Home

### Using Rainwater to Grow Livable Communities

Sustainable Stormwater Best Management Practices (BMPs)

Stormwater best management practices (BMPs) are gaining recognition as effective, flexible, and environmentally sound ways for controlling the quantity and improving the quality of stormwater runoff, while also adding amenity to a wide variety of development projects.

This website is designed to encourage and facilitate the integration of stormwater BMPs into development projects in your area by providing [tools and resources for effective communication and implementation](#) as well as [in-depth case studies](#) that examine BMP integration in several cities across the United States.



This rain garden at Glencoe Elementary School in Portland alleviates neighbors' basement sewer backups and offers educational opportunities.

Using the tools and links provided, you can:

- [Learn how you](#) can leverage political, organizational, technical, educational, and other resources to move forward with implementation.
- [Arm yourself with effective tools](#) for teaching others about the benefits of stormwater BMPs, strategies for successful implementation, and how to incorporate BMPs into development projects.
- Discover [communities](#) that have successfully integrated sustainable stormwater practices into their "toolboxes."
- Explore [additional resources](#) to broaden your knowledge and learn more about stormwater management and related topics.

[Return to top](#)

Water Environment Research Foundation 635 Slaters Lane, Suite G-110 Alexandria, VA 22314 Tel: 571-384-2100 Fax: 703-299-0742

WERF research examines the social, economic, and environmental aspects of challenges confronting wastewater and stormwater facilities.  
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Water Environment Research Foundation (WERF)  
<http://www.werf.org/liveablecommunities/index.htm>

# GI: Funding Resources



## Grant Programs

- Variety of sources – federal and state
- Available in limited amounts
- Support GI projects
- Generally fund small, local projects
- Not sufficient to fund large, multi-year programs

➤ *Not a reliable, long-term source for funding sustainable GI programs or policies*

# GI: Funding Resources

The screenshot shows a web browser window displaying the EPA website. The address bar shows the URL <http://water.epa.gov/polwaste/nps/cwact.cfm>. The page title is "Clean Water Act Section 319 Grants". The EPA logo is at the top left, and the navigation menu includes "LEARN THE ISSUES", "SCIENCE & TECHNOLOGY", "LAWS & REGULATIONS", and "ABOUT EPA". The main content area is titled "Water: Polluted Runoff" and "Clean Water Act Section 319". It features a sidebar with a navigation menu, a main text area with a paragraph about the 1987 amendments to the CWA, and a right-hand sidebar with a list of links under "Explore Polluted Runoff (Nonpoint Source Pollution)".

**EPA** United States Environmental Protection Agency

Advanced Search A-Z Index

Water: Polluted Runoff

You are here: Water » Pollution Prevention & Control » Polluted Runoff » Clean Water Act Section 319

## Clean Water Act Section 319

Background | Applying for & Administering Grants | Current Guidance | Past Guidance | Reports & Project Summaries | Contacts & Websites

EPA is issuing draft Nonpoint Source Program and Grants Guidelines for States and Territories (PDF) (59 pp., 1.4MB, About PDF). These guidelines are available for review and comment by states and territories, as well as other interested stakeholders. Please submit comments to EPA at [319grants@epa.gov](mailto:319grants@epa.gov) by COB Dec. 21, 2012 (extended from Dec. 7).

The 1987 amendments to the Clean Water Act (CWA) established the Section 319 Nonpoint Source Management Program. Section 319 addresses the need for greater federal leadership to help focus state and local nonpoint source efforts. Under Section 319, states, territories and tribes receive grant money that supports a wide variety of activities including technical assistance, financial assistance, education, training, technology transfer, demonstration projects and monitoring to assess the success of specific nonpoint source implementation projects.

EPA has released guidance on the key components of an effective state nonpoint source (NPS) management program (PDF) (7 pp., 73K, About PDF). This guidance is an update to guidance issued by EPA in 1997. EPA intends to publish this guidance as an appendix to the forthcoming Nonpoint Source Program and Grants Guidelines for States and Territories in early 2013. EPA has released this guidance in November 2012 to assist states and territories in their efforts to update their programs as expeditiously as possible. This guidance is a companion to, but distinct from, the forthcoming 319 grant guidelines. The state's written NPS management program is the roadmap for all state NPS program activities, including activities supported by resources and programs other than CWA Section 319 funds. Updates to these state nonpoint source programs are vital for EPA and the states to ensure that section 319 funding, technical support and other resources are directed in an effective and efficient manner to support state efforts to address water quality issues.

### Explore Polluted Runoff (Nonpoint Source Pollution)

- Polluted Runoff Home
- Basic Information
- Where You Live
- NPS Categories
- Publications & Info Resources
- Education Resources
- Funding
- Outreach
- CWA Section 319
- Success Stories
- Events Calendar
- Guidance for Controlling NPS
- Kids Page

### Background Information

- Section 319 of the Clean Water Act

EPA – Clean Water Act Section 319 Grants  
<http://water.epa.gov/polwaste/nps/cwact.cfm>

# GI: Funding Resources

The screenshot shows a web browser window displaying the FHWA website. The address bar shows the URL: [http://www.fhwa.dot.gov/environment/transportation\\_enhancements/](http://www.fhwa.dot.gov/environment/transportation_enhancements/). The page header includes the FHWA logo and navigation links. The main content area is titled "Transportation Enhancement Activities" and features a sidebar with navigation options: Legislation, Guidance, Funding, Resources, Program Brief, and Presentation. The main text discusses the transition from TE to TAP funding, provides contact information for Christopher Douwes, and lists 12 eligible activities. A sidebar on the right contains sections for Authorization, RTP and TE Update, and Related Resources.

U.S. Department of Transportation  
Federal Highway Administration

Office of Planning, Environment, & Realty (HEP)  
Planning • Environment • Real Estate

## Transportation Enhancement Activities

**Legislation**  
**Guidance**  
**Funding**  
**Resources**  
**Program Brief**  
**Presentation**

**FHWA TE Contact**  
**Christopher Douwes**  
Trails and Enhancements Program Manager  
Federal Highway Administration  
FHWA HEPH-10 Rm E74-474  
1200 New Jersey Ave SE  
Washington DC 20590-0001  
Phone: 202-366-5013  
Fax: 202-366-3409

**State TE Contacts**  
Contact your [State TE Manager](#) to ask about policies and funding in your State.

FHWA → Environment

### Transportation Enhancement Activities

The Moving Ahead for Progress in the 21st Century Act (MAP-21) extended the Federal-aid highway program through September 30, 2012, and authorized new provisions effective October 1, 2012, for Federal fiscal years 2013 and 2014. The Transportation Enhancement (TE) Activities will be replaced by the **Transportation Alternatives Program (TAP)**. The Federal Highway Administration (FHWA) posts MAP-21 information at <http://www.fhwa.dot.gov/MAP21/>. Transportation Alternatives information will be added as it becomes available.

Current TE activities remain eligible for TE funds that were previously apportioned until the TE funds are obligated, rescinded, or lapsed. If you have specific questions about the transition from TE to the TAP in your State, please contact your State TE Program Manager. Contact information is available at <http://www.ta-clearinghouse.info/stateprofile>.

Transportation Enhancement (TE) activities offer funding opportunities to help expand transportation choices and enhance the transportation experience through [12 eligible TE activities](#) related to surface transportation, including pedestrian and bicycle infrastructure and safety programs, scenic and historic highway programs, landscaping and scenic beautification, historic preservation, and environmental mitigation. TE projects must [relate to surface transportation](#) and must qualify under one or more of the 12 eligible categories. See [Program Brief](#) and [Presentation](#).

On this site you will find program [guidance](#), [legislation](#), [funding data](#), and links to further [resources](#).

#### Eligible Activities

Transportation enhancement activity.--The term "transportation enhancement activity" means, with respect to any project or the area to be served by the project, any of the following activities as the activities relate to surface transportation:

1. Provision of facilities for pedestrians and bicycles.
2. Provision of safety and educational activities for pedestrians and bicyclists.
3. Acquisition of scenic easements and scenic or historic sites (including historic battlefields).
4. Scenic or historic highway programs (including the provision of tourist and welcome center facilities).
5. Landscaping and other scenic beautification.
6. Historic preservation.
7. Rehabilitation and operation of historic transportation buildings, structures, or facilities (including historic railroad facilities and

**Authorization**  
[Resources and Comments](#) for Trails and Transportation Enhancements

**RTP and TE Update**  
[Regular updates](#), which are sent to FHWA Division contacts and State Trail Administrators, are available online.

**Related Resources**  
The [National Transportation Alternatives Clearinghouse \(NTAC\)](#) is where to go to for State program information, project examples, a database of TA projects, to see how States use TA funds, and to order TA related documents.

## Transportation Enhancement Activities

[http://www.fhwa.dot.gov/environment/transportation\\_enhancements/](http://www.fhwa.dot.gov/environment/transportation_enhancements/)

# GI: Funding Resources

The screenshot shows a web browser window displaying the HUD.gov website. The page title is "Community Development Block Grant Program - CDBG". The header includes the HUD logo, the text "HUD.GOV U.S. Department of Housing and Urban Development Secretary Shaun Donovan", and navigation links such as "HOME", "PRESS ROOM", "HOMEOWNER HELP", "STATE INFO", "PROGRAM OFFICES", "TOPIC AREAS", "ABOUT HUD", "RESOURCES", and "CONTACT US". The main content area features a breadcrumb trail: "HUD > Program Offices > Community Planning and Development > Community Development > Community Development Block Grant Program - CDBG". Below this, there is a "What's New" section with several news items, including "IDIS Resources for the CDBG Program", "HUD FY 2013 Income Limits", "IDIS Online Training Announced for CDBG Grantees", and "Section 3 Requirements Webinar". The page also includes a search bar, social media links, and a "Print Friendly Version" button.

## HUD Community Development Block Grant Program (CDBG)

[http://portal.hud.gov/hudportal/HUD?src=/program\\_offices/comm\\_planning/communitydevelopment/programs](http://portal.hud.gov/hudportal/HUD?src=/program_offices/comm_planning/communitydevelopment/programs)



# GI: Funding Resources

The screenshot shows the EPA's 'Catalog of Federal Funding Sources for Watershed Protection' website. The browser address bar displays the URL: <https://ofmpub.epa.gov/apex/watershedfunding/?tp=feedfund:1>. The page features the EPA logo and navigation tabs for 'LEARN THE ISSUES', 'SCIENCE & TECHNOLOGY', 'LAWS & REGULATIONS', and 'ABOUT EPA'. A search bar is located in the top right corner. The main content area is titled 'Water: Catalog of Federal Funding' and includes a breadcrumb trail: 'You are here: Water » Grants & Funding » Catalog of Federal Funding'. A sidebar on the left lists various water-related topics, with 'Grants & Funding' selected. The main text describes the catalog as a searchable database of financial assistance sources (grants, loans, cost-sharing) for watershed protection projects. It provides instructions on how to use subject matter criteria based searches or general word based searches. Below the text, there are search filters for 'Type of Assistance' (with 'Grants' selected), 'Eligible Organization' (with 'Community/Watershed Group' selected), and 'Match Required' (with 'Yes' selected). A 'Keywords' dropdown menu is also visible, listing various categories such as Agriculture, Air Quality/Deposition, Best Management Practices, Biodiversity, Carbon Sequestration, Climate Change, Coastal Waters, Community, Competitive Grant, Drinking Water, Economic Development, Enforcement/Compliance, Fisheries, Floodplains/Riparian Zones, and Forests. An 'Additional Information' box on the right contains links for 'Help Page', 'FedFund Brochure', 'User Guide', 'More Funding Sources', 'Other Funding Information', and 'Administration (requires login) Login'.

Catalog of Federal Funding Sources for Watershed Protection  
<https://ofmpub.epa.gov/apex/watershedfunding>

# GI: Funding Resources

The screenshot shows the Arizona State Forestry Division website. The main heading is "Grant Opportunities". A table lists several grant programs. The "2012 Community Challenge Grant Program" is circled in red. The table contains the following information:

Grant Program	Deadline	Forms
<b><a href="#">2013 Wildland Fire Hazardous Fuels Grant Program</a></b> The Wildland Fire Hazardous Fuels (WFHF) grants focus on hazard fuel reduction and community protection. Priority projects are adjacent to National Forest and Bureau of Land Management lands in Arizona and emphasize protection of identified communities at risk of wildland fire. Fire departments, local governments, educational institutions, and non-profit organizations qualify.	<b>Deadline:</b> April 26, 2013	<b>Forms:</b> <a href="#">Instructions</a> <a href="#">2013 WFHF Grant Application</a>
<b><a href="#">2012 Community Challenge Grant Program</a></b> The Community Challenge Grant Program focuses on activities to encourage and promote citizen involvement in supporting long-term and sustainable urban and community forestry programs at the local level. Local and tribal governments, non-profit organizations, and public educational institutions qualify.	<b>Deadline:</b> Closed <small>Note: When funds are available for this program, applications are typically due in late fall of each year.</small>	<b>Forms:</b> <a href="#">Instructions</a> <a href="#">2012 CCG Grant Application</a>
<b><a href="#">2013 Western Wildland Urban Interface Grant Program</a></b> The Western Wildland Urban Interface Grant Program focuses on hazard fuels reduction, information and education, and community and homeowner action. Fire departments, local governments, educational institutions, and non-profit organizations qualify.	<b>Deadline:</b> Closed <small>Note: When funds are available for this program, applications are typically due in mid-summer of each year.</small>	<b>Forms:</b> <a href="#">Instructions</a> <a href="#">AZ Project Submittal Form</a> <a href="#">2013 WUII Grant Application</a>
<b><a href="#">2012 Volunteer Fire Assistance Grant Program</a></b> The Volunteer Fire Assistance (VFA) Program focuses on fire management and prevention activities such as training, equipping, and organizing rural fire departments. Rural communities with a population of 10,000 or less qualify.	<b>Deadline:</b> Closed	<b>Forms:</b> <a href="#">2012 Instructions</a> <a href="#">Grant Guidelines (part a)</a> <a href="#">Grant Questionnaire (part b)</a> <a href="#">Grant Budget (part c)</a>

Arizona State Forestry – Community Challenge Grants

[http://www.azsf.az.gov/grant\\_information/](http://www.azsf.az.gov/grant_information/)

# GI: Funding Resources



## CCG Project Categories

- Information and Education
- Planning
- Community and Natural Resources Mgmt
- Maintenance
- Demonstration Projects
- UCF Research



# GI: Funding Resources



## Example of ASF-Funded GI Project

- Watershed Management Group
- Partners
  - City of Phoenix
  - Local communities where programs and workshops are hosted
- Project Objectives
  - Conduct public workshops and education
  - Create demonstration sites
  - Establish green infrastructure designs
  - Develop green infrastructure policy to facilitate development of community-based, water sensitive urban forestry practices



*Thank You*



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Urban & Community Forestry Program,  
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