

# WV Project CommuniTree

## Spring 2016 Report



*“Building Communities from the Roots Up”*



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# WV Project CommuniTree Spring 2016 Report

## Executive Summary

Spring 2016 was the 9<sup>th</sup> planting season for WV Project CommuniTree since Cacapon Institute initiated the WV UTC Assessment & Enhancement program in 2011. Since spring 2012, CTree Project Leaders have organized 127 tree planting events, planted 3,870 trees, and engaged over 8,500 volunteers in more than 15,500 hours of volunteerism and tree stewardship activities.

Planting Season	Planting Events	Trees Planted	Acres of Trees <sup>1</sup> (300/acre)	Volunteers Engaged	Volunteer Hours	Volunteer Contribution
<b>2008-2011</b>	9	1722	5.7	n/a	n/a	n/a
<b>Spring 2012</b>	10	444	1.5	570	1,286	\$ 22,948.55
<b>Fall 2012</b>	11	282	0.9	759	1,116	\$ 21,618.35
<b>Spring 2013</b>	16	<b>710</b>	<b>2.4</b>	1,319	1,877	\$ 46,706.81
<b>Fall 2013</b>	10	204	0.7	429	848	\$ 19,724.48
<b>Spring 2014</b>	19	528	1.8	<b>1,554</b>	<b>3,141</b>	<b>\$ 57,557.87</b>
<b>Fall 2014</b>	10	370	1.2	504	1,233	\$ 22,440.50
<b>Spring 2015</b>	18	596	2.0	1,408	2,687	\$ 53,119.51
<b>Fall 2015</b>	13	292	1.0	959	1,191	\$ 24,837.17
<b>Spring 2016</b>	<b>20</b>	444	1.5	1,060	2,136	\$ 43,771.08
Total 2012-2016	<b>127</b>	<b>3,870</b>	<b>12.9</b>	<b>8,562</b>	<b>15,515</b>	<b>\$ 312,724.32</b>

*Records for each category are in bold. Certain records are not available for the 2008-2011 plantings.*

CTree groups this spring generated more than their required contribution through volunteerism and material donations. Two applicants, the National Humane Education Society and Moorefield Town Park, more than doubled their volunteer contribution requirement, and another four applicants came very close to doubling theirs. The characteristics that make a good volunteer group include the ability to organize quality tree planting events, engage and educate high levels of volunteers, and maintain healthy trees. Continuing to engage groups with these attributes will be beneficial to successfully marketing the CTree program and providing outreach to new and potential applicants.

Twenty community organizations were awarded CTree Kits this spring 2016, more than any other tree planting season in the history of WV Project CommuniTree.

In this report, volunteerism and material donations are reported as “Volunteer Contribution” (formerly “in-kind match”) and are given a monetary value based off of USDA Farm Bill in-kind rates.

<sup>1</sup> Under the new 2016 Chesapeake Bay Program reporting and verification rules 300 trees is considered equivalent to one acre of land conversion. Prior reports used the outdated 100 trees per acre.

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## **Background**

CTree is a program of the WV-DEP Chesapeake Bay Program that includes WV Division of Forestry, WV Conservation Agency, Cacapon Institute, and the Eastern Panhandle Regional Development & Planning Council (Region 9). WV Project CommuniTree (CTree) promotes tree planting and education on public land through volunteerism in the Potomac Headwaters of West Virginia (Berkeley, Grant, Hampshire, Hardy, Jefferson, Mineral, Morgan, & Pendleton counties). The program also focuses on enhancing and promoting awareness of watershed and riparian area needs such as storm water management, water quality issues, buffer zone planting, and soil erosion. The program is volunteer based and engages stakeholders in the process of making priority decisions within their respective communities and offers a strong educational message along with a physical planting component.

CTree's first planting was in 2008 under the direction of Carla Hardy (Potomac Valley Conservation District) and Jennifer Hammer (WV Division of Forestry). For several years, CTree held one or two plantings each season. In spring 2012, with support from the USDA Forest Service<sup>2</sup>, CTree expanded the number of annual plantings. Under the Forest Service grant, WVDOF provided ~\$20,000 annually for the purchase of trees and Cacapon Institute has been able to dedicate considerable staff time on a year-round basis. Spring 2015 was the final season of USDA Forest Service funding<sup>3</sup> for CTree. However, in 2014 Governor Tomblin signed the U.S. EPA Chesapeake Bay Program Partners' Agreement and West Virginia was awarded additional "Bay funding"<sup>4</sup>. The WVDEP has committed funds to continue CTree into the future. There is sufficient funding in place through the five year work plan (2016-2020) to continue CTree at its current capacity.



*Shepherd Environmental Organization members making a team effort at Shepherd University in Shepherdstown*

The WV Urban & Community Forestry Council recognizes CTree as the largest citizen tree steward program in the state. In 2013, CTree was awarded the ISA Gold Leaf Award for making significant impacts on increasing tree canopy. In 2014, CTree was awarded a [Chesapeake Forest Champion](#) award for "Greatest on the Ground Impact" from the Alliance for the Chesapeake Bay.

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<sup>2</sup> USDA Forest Service Grant #11-DG-11420004-118, July 1, 2011 through June 30, 2015

<sup>3</sup> USDA Forest Service Grant #11-DG-11420004-215, October 2, 2011 through December 31, 2016

<sup>4</sup> WV DEP grant #NPS1557, July 1, 2015 through June 30, 2016

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CTree is unique in that it does not require applicants to purchase trees as most reimbursable grant programs do. In place of traditional reimbursable monetary grants, a process was created for groups to apply for “CTree Kits” (Table 1). Providing tree kits up front, in place of monetary reimbursement upon project completion, allowed many groups to apply that would have been unable to spend the money up front. Successful applicants also received support from partnering agencies. The kits include everything the groups need for organizing and implementing community tree plantings:

- Trees in a variety of species and stock sizes
- Protective materials such as tubes, stakes, cages, arbor strap, and a CTree sign
- Mulch to foster good root growth

New in 2016, since the WVDOF state match for the tree purchase will no longer be available, CTree will be required to secure more volunteer labor and in-kind support than previous years. A non-federal match equal to 100% of the WV Chesapeake Bay funds is required (1:1 match). This match must equal the entire cost of WV Project CommuniTree, including Cacapon Institute staff time, transportation & travel, and the cost of trees and materials. It is important to note that many of the professional CTree liaisons (including but not limited to WVDOF, WVCA, WVDEP, and Region 9 staff) are also working under WV Bay grants and have their own non-federal match requirements.

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## WV Project CommuniTree in Spring 2016

Twenty groups successfully applied in spring 2016 and were awarded CTree Kits and technical support. A wide range of organizations participated, from elementary school students to seasoned adult volunteers, and a total of 444 trees were planted (Table 1, Pages 10-11).

Each group was asked to provide \$1,500 worth of volunteer contribution in the form of volunteerism and material donations to match the federal contribution of trees and materials for the CTree Kits.

Of the twenty applicants this spring 2016, nineteen exceeded their volunteer contribution requirement. Low volunteer turnout on planting day at Villages of Washington Trail HOA led to their volunteer contribution shortage of \$476. No group may apply for future CTree grants until they have met their match goal from prior plantings. Volunteers can meet their requirement through post-planting maintenance and follow-up.

Overall the groups produced \$43,771.08 worth of volunteer contribution. The contribution was primarily in volunteer labor but some groups provided their own donations of materials.

The total expenses, i.e., “federal contribution”, for CTree this spring 2016 was \$41,922.00 (figure 5). Through hard work and dedication, Project Leaders were able to just barely provide more volunteer contribution than federal contribution.

All the projects were on public land or privately held land that is open to the public. Planting sites included schools (5), subdivisions (7), parks (2), river access points (2), business parks (2), a church (1), and an animal adoption center (1). Projects took place in seven of the eight counties of the Potomac Basin.



*Volunteer prepping the tree planting at Spruce Hill North HOA in Charles Town*

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### School Projects

Four schools participated in WV Project CommuniTree this season – Franklin Elementary School (Franklin), Moorefield Middle School (Moorefield), Pleasant View Elementary School (Hedgesville), and Union Educational Complex (Mt. Storm). Together, 600 students spent 416 contact hours learning about trees and planting a total of 64 trees at the four schools.

Applicant	Planting Site	Trees Planted	Grade Level	In-Class Education <sup>5</sup>		Hands-on Conservation		Total	
				# Students	Education Hours	# Students	Volunteer Hours	# Students	Contact Hours
Franklin Elementary School	Franklin Elementary School	16	Pre-K - 6	0	0	300	100	300	100
Moorefield Middle School	Moorefield Middle School	16	6	0	0	126	126	126	126
Pleasant View Elementary School	Pleasant View Elementary School	16	K - 5	120	60	26	52	146	112
Union Education Complex	Union Education Complex	16	7-12	8	8	20	70	28	78
<b>Totals</b>		64	---	128	68	472	348	600	416

**Franklin Elementary School** was assisted by Ben Heavner with the WV Conservation Agency (WVCA) in submitting their application for planting 16 trees. On April 20<sup>th</sup>, WVCA and Natural Resource Conservation Services (NRCS) staff dug most of the holes, the rest of which were dug on the morning of planting day, April 21<sup>st</sup>. An additional helper from WV Division of Forestry assisted the WVCA and NRCS in leading tree planting demonstrations for the students on planting day. In total, all 300 of the pre-kindergarten through 6<sup>th</sup> grade students at the school participated on planting day for about 30 minutes each.

**Moorefield Middle School** submitted their application to plant 16 trees along the school's walking track. In the morning of planting day on April 14<sup>th</sup>, two of Project Leader Paul Keplinger's 6<sup>th</sup> grade classes came out to plant the trees. That afternoon, his classes watered all of the trees. A total of 126 students volunteered for about an hour each. Carla Hardy with the WV Conservation Agency provided support throughout the project

<sup>5</sup> It is important to note, these are not the only youth, or school-base, activities taking place. We are highlighting school projects to demonstrate CTree's commitment to environmental education. The WV DEP Chesapeake Bay Program and National Fish & Wildlife Foundation support Cacapon Institute's Potomac Headwaters Leaders of Watersheds, a hands-on, watershed conservation & education program that reaches an additional 3,000 to 4,000 students each school year. [www.cacaponinstitute.org/phlow.htm](http://www.cacaponinstitute.org/phlow.htm)

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as the CTree Liaison, most importantly in providing hands-on educational demonstrations on how to properly plant and care for the trees.

**Pleasant View Elementary School** was assisted by Charles Marsh with the Sleepy Creek Watershed Association on submitting their application for 16 trees to plant at their school in Hedgesville. Principal Keri Chilcote-Cunningham worked with Charles and the CTree Liaison Katherine Cooper from Cacapon Institute on organizing the project. On April 20, Katherine and Charles presented tree planting lessons to all 6 classrooms, 120 students (K-5) at Pleasant View Elementary. On Earth Day, April 22, there were 26 students that volunteered to plant trees with their parents for about 2 hours each. A total of 146 students participated in this project.

**Union Educational Complex** submitted their application to plant 16 trees after a site visit from Tanner Haid (Cacapon Institute) and Herb Peddicord (WV Division of Forestry). The Project Leader, Cody Dent, planned for the project by enlisting the help of 8 of his students to inspect the playground, view aerial photography, and ultimately decide where to plant the trees. On May 3<sup>rd</sup>, the CTree Liaison James Leitner with WV Conservation Agency assisted 6 students from Cody's agriculture class, 12 students from a science class, and an additional 2 students in planting the trees.

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## Conclusions

The CTree spring 2016 planting season was the busiest yet, with the highest number of tree planting projects ever for one season. Twelve of the groups were new to the CTree program and eight of the groups have successfully completed CTree projects in the past. Thanks to them, WV's Potomac Headwaters have 444 new urban trees that will provide benefits for local communities. Lessons learned this spring 2016 planting season include:

- **Watering CTree Kits continues to pose unique challenges.** Once the trees are delivered from the nursery, they are sorted into CTree Kits in Inwood and Moorefield. Several challenges have presented themselves over the years in regards to storing the trees before they are picked up by volunteers. The biggest issue, and the one that takes the most time and resources, is watering the trees. Trees dry out very quickly in containers, so they require watering multiple times per week. When not watered, the roots dry out and cause undue harm to the young trees. Additionally, containerized trees that dry out tend to blow over in the wind, causing further damage to the trees. Plans should be created for developing a watering system that saves staff time, reduces watering costs, and keeps the trees healthy and upright while in storage in Inwood & Moorefield. It should be noted that once trees are planted, CTree volunteers have been able to successfully develop innovative watering systems to keep their trees alive. Most recently, we are supporting Alana Hartman's efforts with WVDEP to assist the Potomac Highlands Master Gardeners in creating a partnership with the City of Romney. The city staff has pledged to use their equipment to haul water to the planting site and fill a large cistern. In turn, the Master Gardeners have pledged to water their trees using the cistern water.
- **CTree Project Leaders are continuing to learn skills necessary to become self-sufficient.** One of the long-term goals for the CTree program is to create an educated and engaged population of tree stewards. On that note, the Project Leaders that organize and plan the projects, especially the volunteers that have applied for CTree multiple times, should be able to complete the project autonomously. Specifically, they should gain the skills to independently lead their own tree planting projects and planting demos. CTree Project Leaders are just now beginning to demonstrate proficiency in leading their own tree planting demonstrations and hosting successful tree plantings with minimal oversight. Having an engaged and self-sufficient citizenry leading the projects will alleviate the workload for CTree partners that serve as CTree Liaisons. CTree Project Leaders should continue to be engaged in tree planting education, and when applicable, be presented with opportunities to demonstrate their self-sufficiency (i.e, leading their own tree planting demonstrations).
- **Purchasing trees is a time-sensitive process.** The first critical step at the beginning of each planting season, programmatically speaking, is to purchase trees. This is done through a bidding process that takes at least several weeks, and often up to a month, to complete. The nursery business, especially in the spring, has to meet an increasingly large demand and service a large geographic region. Certain species and stock sizes can sell out in a matter of days. Purchasing trees from a limited supply not only decreases

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diversity but also lessens the overall quality of tree stock that can be provided in CTree Kits<sup>6</sup>. In addition, this situation also creates tough decisions for deciding whether to pay more for a larger stock size, pay less for an inferior and often inappropriately sized small tree, or sacrifice biodiversity and specific tree requests and settle on substituted species. A concerted effort must be made to expedite the tree purchasing process to ensure that our tree stock is of the highest quality and maintain high levels of biodiversity.

- **CTree need to focus on retaining volunteers after tree planting projects.** This season, there were nearly 1,100 volunteers that participated in the WV Project CommuniTree program. Even after subtracting the roughly 600 students that volunteered, that still leaves about 500 adult volunteers that should be continuously engaged in future planting seasons. If properly retained, these volunteers could eventually transition into higher levels of involvement (i.e., become Project Leaders or even possibly CTree Liaisons), as well as form a potential donor base to sustain the program. At the very least, they should be made aware of future tree planting opportunities in their community. A major first step for all CTree Liaisons, starting in Fall 2016, is to collect basic contact information (name, email, phone number) for all volunteers on sign-in sheets at the beginning of each tree planting. Additionally, a concerted effort should be made to drive CTree volunteers to our website and social media pages. This will ensure that they are staying connected, at least passively, which will hopefully assist with keeping them engaged in the future. Friends of Trees (Portland, OR) have demonstrated success using this type of outreach to retain and continually engage volunteers. For example, nearly 400 volunteers participated in their MLK Day of Service project after they posted about the volunteer opportunity on Facebook and on their blog.
- **Additional volunteer contribution & material donations are needed in future planting seasons.** Fortunately, there has not yet been a planting season where the applicants failed to meet the 100% (1:1) non-federal match requirement. To better leverage federal funding, innovative and unique approaches to finding new non-federal match through volunteerism and material donations are required. One of the CTree spring 2016 groups did not reach the \$1,500 volunteer contribution requirement and was short \$476. The nineteen groups this spring 2016 that exceeded their \$1,500 volunteer contribution requirement met the \$476 shortfall and provided an additional \$13,771 for the grant (\$43,771.08 total volunteer contribution). CTree is entirely funded under the WV DEP Chesapeake Bay Program, which requires a 1:1 match. If the twenty groups this spring 2016 only provided the required volunteer contribution (\$1,500 each, \$30,000 total), the CTree program would be short roughly \$12,000 and unable to meet the 1:1 match required under the WV Chesapeake Bay Program grant. Therefore, we may need to reevaluate the \$1,500 requirement, since this minimum level of volunteer contribution would not, in fact, cover the entire required match of \$41,923 for this season. The entire program will be jeopardized if current levels of volunteer contribution falter. CTree Project Leaders and CTree Liaisons should remain vigilant in providing successful planting events that engage many volunteers.

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<sup>6</sup> One of the unique benefits of CTree, that pools the tree purchases into one or two wholesale purchases, is that it prevents individual groups from competing for stock at local nurseries (a major setback inherent in traditional reimbursement grant programs that require grantees to purchase their own supplies).

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*Volunteers having a ball at Briggs Animal Adoption Center*



*Neighborhood volunteers pose for a picture at Deerfield Village subdivision in Shepherdstown*



*Proud tree planters at Pleasant View Elementary School*



*Auguring holes at Union Educational Complex*



*Happy volunteers at Green Meadows HOA in Charles Town*



*Chatting with Warm Springs Watershed Assn. volunteers*

Photos of past projects, a map of suggested planting sites, and the current CTree application are available by clicking the Forestry tab at [www.cacaponinstitute.org](http://www.cacaponinstitute.org). For additional questions and comments, please contact Tanner Haid, Cacapon Institute’s Urban Watershed Forester, at [thaid@cacaponinstitute.org](mailto:thaid@cacaponinstitute.org).

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<b>CTree Kits Spring 2016</b>				
<u>Projects</u>	<u>Kit</u>	<u># of Trees</u>	<u>Stock Size</u>	<u>Species</u>
<a href="#">Chapel View HOA</a>	Shade-24	24	(12) 1" caliper, 6-10' height, (12) 4-6' height	(2) American beech, (2) <b>black birch</b> , (2) black cherry, (2) black locust, (2) <b>black oak</b> , (2) black walnut, (2) black willow, (2) hackberry, (2) <b>red maple</b> , (2) <b>river birch</b> , (2) <b>scarlet oak</b> , (2) <b>yellow buckeye</b>
<a href="#">Deerfield Village HOA</a>	Flowering-24	24	(12) 1" caliper, 6-10' height, (12) 4-6' height	(2) Allegheny serviceberry, (2) <b>Allegheny serviceberry</b> , (2) <b>'Natchez' crepe myrtle</b> , (2) eastern redbud, (4) <b>eastern redbud</b> , (2) <b>flowering dogwood</b> , (4) pagoda dogwood, (2) <b>red buckeye</b> , (2) serviceberry, (2) sweet bay magnolia
<a href="#">Franklin Elementary School</a>	Mixed-16	16	(16) 1" caliper, 6-10' height	(2) <b>Allegheny serviceberry</b> , (1) American hornbeam, (1) <b>black birch</b> , (1) <b>'Natchez' crepe myrtle</b> , (1) eastern redbud, (1) <b>flowering dogwood</b> , (2) <b>red buckeye</b> , (2) <b>red maple</b> , (1) <b>river birch</b> , (1) <b>scarlet oak</b> , (1) <b>serviceberry</b> , (2) <b>sycamore</b>
<a href="#">Green Meadows HOA</a>	Mixed-16	16	(16) 1" caliper, 6-10' height	(2) eastern redbud, (5) <b>red maple</b> , (1) <b>sycamore</b> , (8) <b>white pine</b>
<a href="#">Hammonds Mill HOA</a>	Mixed-50	50	(6) 1" caliper, 6-10' height, (44) 4-6' height	(2) <b>Allegheny serviceberry</b> , (2) black willow, (4) burr oak, (4) <b>eastern redbud</b> , (2) red maple, (2) red oak, (4) river birch, (4) swamp white oak, (4) sweet bay magnolia, (10) sycamore, (12) white pine
<a href="#">Moorefield Middle School</a>	Shade-16	16	(16) 1" caliper, 6-10' height	(8) <b>pin oak</b> , (8) <b>red maple</b>
<a href="#">Moorefield Town Park</a>	Mixed-16	16	(16) 1" caliper, 6-10' height	(2) eastern redbud, (2) <b>flowering dogwood</b> , (6) <b>red maple</b> , (4) <b>river birch</b> , (2) <b>scarlet oak</b>
<a href="#">National Humane Education Society</a>	Mixed-24	24	(12) 1" caliper, 6-10' height, (12) 4-6' height	(2) Allegheny serviceberry, (1) <b>pin oak</b> , (2) black cherry, (2) black gum, (2) <b>eastern redbud</b> , (2) hackberry, (5) <b>red maple</b> , (2) <b>river birch</b> , (2) <b>scarlet oak</b> , (2) serviceberry, (2) yellow birch
<a href="#">Olivet Cemetery Board</a>	Flowering-24	24	(12) 1" caliper, 6-10' height, (12) 4-6' height	(2) <b>Allegheny serviceberry</b> , (2) eastern redbud, (4) <b>eastern redbud</b> , (2) <b>flowering dogwood</b> , (2) pagoda dogwood, (2) <b>red buckeye</b> , (2) serviceberry, (2) <b>serviceberry</b> , (6) sweet bay magnolia
<a href="#">Pendleton County Parks Board</a>	Mixed-24	24	(12) 1" caliper, 6-10' height, (12) 4-6' height	(6) American holly, (7) <b>arborvitae</b> , (2) burr oak, (2) eastern redbud, (2) <b>flowering dogwood</b> , (2) serviceberry, (3) <b>sycamore</b>
<a href="#">Pleasant View Elementary School</a>	Shade-16	16	(16) 1" caliper, 6-10' height	(1) American hornbeam, (2) <b>black cherry</b> , (1) eastern hop hornbeam, (4) <b>red maple</b> , (4) <b>river birch</b> , (2) <b>scarlet oak</b> , (2) <b>sycamore</b>

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<a href="#">Potomac Highlands Master Gardeners</a>	Riparian-50	50	<b>(6) 1" caliper, 6-10' height, (44) 4-6' height</b>	(4) Allegheny serviceberry, (5) black walnut, (5) boxelder, <b>(2) red maple</b> , (5) red oak, (5) river birch, (10) sugar maple, (5) swamp white oak, <b>(2) sweet gum, (2) sycamore</b> , (5) sycamore
<a href="#">Quad/Graphics</a>	Mixed-24	24	<b>(12) 1" caliper, 6-10' height, (12) 4-6' height</b>	<b>(2) American hornbeam</b> , (2) American linden, <b>(2) 'Natchez' crepe myrtle, (4) red maple</b> , (2) red oak, <b>(2) river birch, (2) serviceberry</b> , (8) white pine
<a href="#">River Ridge HOA</a>	Mixed-16	16	<b>(16) 1" caliper, 6-10' height</b>	<b>(3) red maple, (7) river birch, (1) scarlet oak, (1) sweet gum, (4) sycamore</b>
<a href="#">River Road Sodbusters 4-H Club</a>	Shade-16	16	<b>(16) 1" caliper, 6-10' height</b>	<b>(4) red maple, (6) river birch, (6) sycamore</b>
<a href="#">Shepherd Environmental Organization</a>	Mixed-16	16	<b>(16) 1" caliper, 6-10' height</b>	<b>(2) Allegheny serviceberry, (2) black oak, (2) 'Natchez' crepe myrtle, (4) eastern redbud, (2) red maple, (2) river birch, (2) willow oak</b>
<a href="#">Spruce Hill North HOA</a>	Mixed-16	16	<b>(16) 1" caliper, 6-10' height</b>	<b>(8) chinkapin oak, (4) 'Natchez' crepe myrtle, (4) 'Winter King' Hawthorn</b>
<a href="#">Union Education Complex</a>	Mixed-16	16	<b>(16) 1" caliper, 6-10' height</b>	<b>(2) American hornbeam, (2) black oak, (2) eastern hop hornbeam, (2) eastern red cedar, (4) flowering dogwood, (2) scarlet oak, (2) sweet bay magnolia</b>
<a href="#">Villages of Washington Trails HOA</a>	Mixed-16	16	<b>(16) 1" caliper, 6-10' height</b>	<b>(4) arborvitae, (4) eastern red cedar, (8) white pine</b>
<a href="#">Warm Springs Watershed Association</a>	Mixed-24	24	<b>(12) 1" caliper, 6-10' height, (12) 4-6' height</b>	(2) Allegheny serviceberry, <b>(2) eastern hop hornbeam</b> , (2) pagoda dogwood, <b>(2) red maple, (4) river birch, (2) scarlet oak, (2) sycamore</b> , (4) Virginia pine, (4) white pine
<b>TOTALS</b>			<b>444 trees = (272) 1" caliper, 6-10' height and (172) 4-6' height</b>	

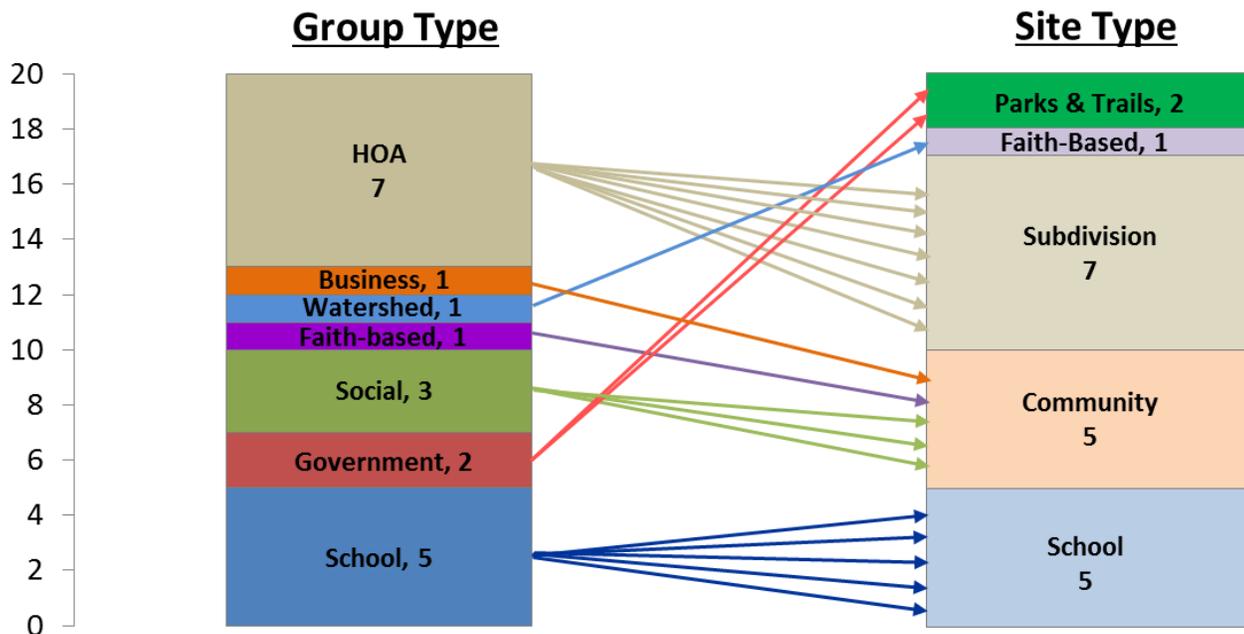
**Table 1:** Description of WV Project CommuniTree Kits that were awarded in spring 2016. Tree substitutions were allowed when they were justified based on site specific needs. \* = kits with substitutions. \*\* = additional trees were purchased by the group or donated from other sources. **Bold** trees were larger stock size, typically 1" caliper and 6-10 ' height. For a full list of CTree kits, visit the Forestry tab at [www.cacaponinstitute.org](http://www.cacaponinstitute.org).

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## Trees Planted by Group and Location

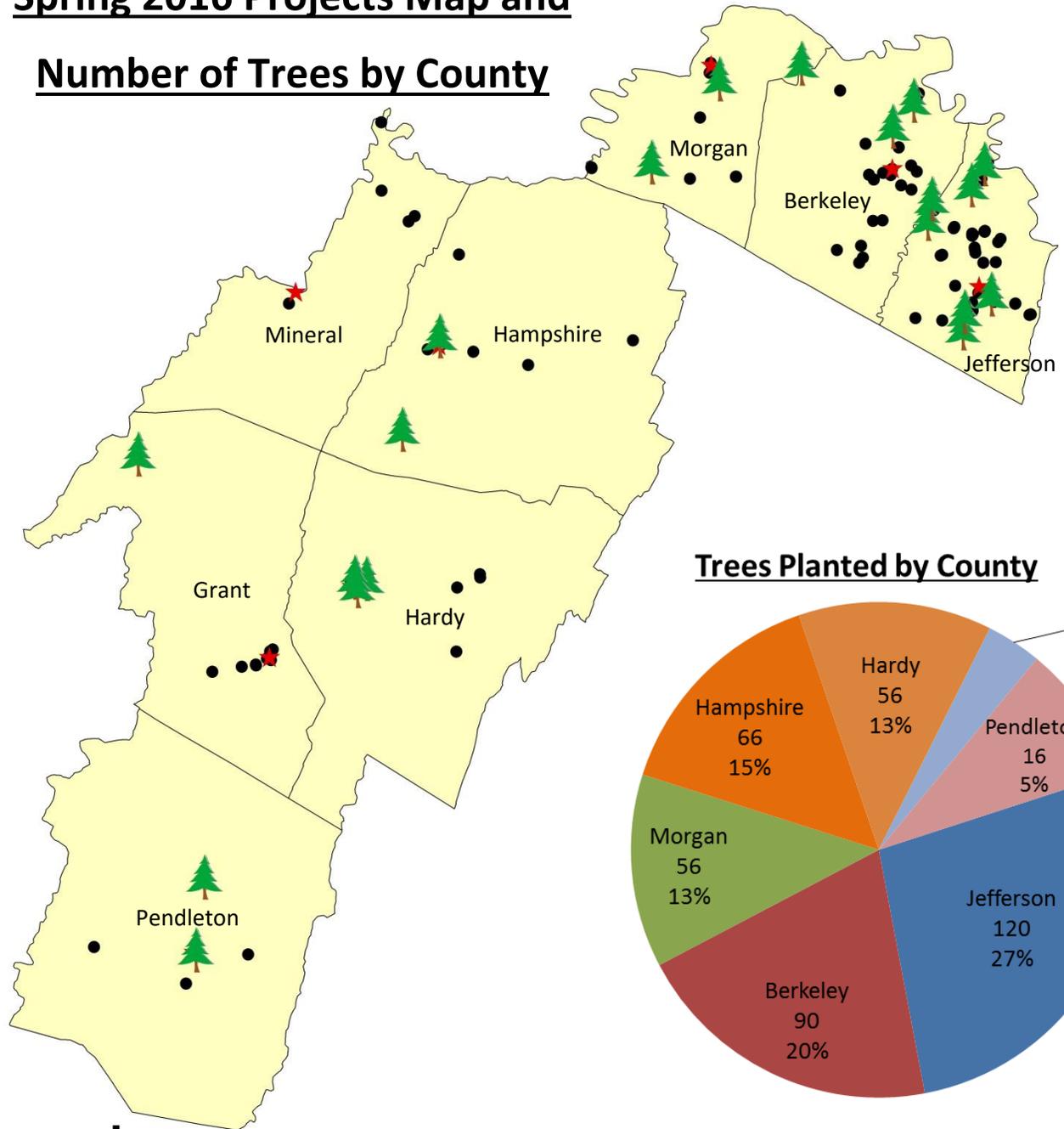
Group	Planting Location	Community	County	# Trees
Chapel View HOA	Chapel View Subdivision	Martinsburg	Jefferson	24
Deerfield Village HOA	Deerfield Village HOA	Shepherdstown	Jefferson	24
Franklin Elementary School	Franklin Elementary School	Franklin	Pendleton	16
Green Meadows HOA	Green Meadows HOA	Charles Town	Jefferson	16
Hammonds Mill HOA	Hammonds Mill HOA	Spring Mills	Berkeley	50
Moorefield Middle School	Moorefield Middle School	Moorefield	Hardy	16
Moorefield Town Park	Moorefield Town Park	Moorefield	Hardy	16
National Humane Edu. Society	Briggs Animal Adoption Center	Charles Town	Jefferson	24
Olivet Cemetery Board	Olivet Cemetery	Moorefield	Hardy	24
Pendleton County Parks Board	Ruddle Park	Upper Tract	Pendleton	24
Pleasant View Elementary School	Pleasant View Elementary School	Hedgesville	Morgan	16
Pot. Highlands Master Gardeners	Romney Business Park	Romney	Hampshire	50
Quad/Graphics	Caperton Boulevard Business Park	Martinsburg	Berkeley	24
River Ridge HOA	River Ridge subdivision	Berkeley Springs	Morgan	16
River Road Sodbusters 4-H Club	Stony Run River Access	Romney	Hampshire	16
Shepherd Environmental Org.	Shepherd University	Shepherdstown	Jefferson	16
Spruce Hill North HOA	Spruce Hill North Subdivision	Charles Town	Jefferson	16
Union Education Complex	Union Education Complex	Mt. Storm	Grant	16
Villages of Washington Trails HOA	Villages of Washington Trails HOA	Martinsburg	Berkeley	16
Warm Springs Watershed Assn.	First United Methodist Church	Berkeley Springs	Morgan	24

**Table 2:** spring 2016 groups, planting location, community, county, and number of trees planted.

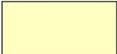


**Figure 1:** CTree Group Types (left) and Planting Site Types (right) in spring 2016. The connections show the Site Type for where each group planted their CTree Kit.

**Spring 2016 Projects Map and**  
**Number of Trees by County**



**Legend**

-  Spring 2016 (20)
-  Past Projects (107)
-  County Seats
-  Potomac Headwaters



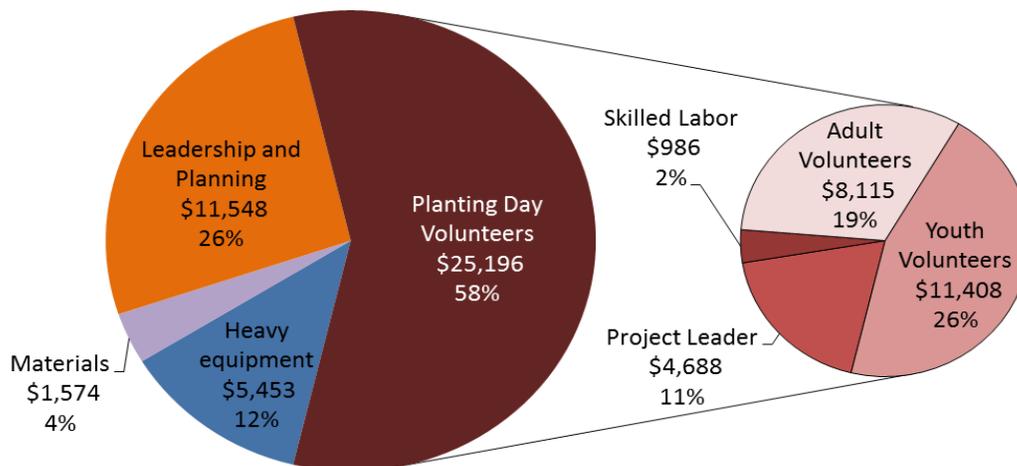
# WV Project CommuniTree Spring 2016 Report

## Volunteer Contribution by Group

Group	# Volunteers				Volunteers Hours				Volunteer Contribution	Overmatch	
	PL	SL	AV	YV	PL	SL	AV	YV			
Chapel View HOA	2	0	8	8	15	0	25	24	\$ 1,766.16	\$ 266.16	
Deerfield Village HOA	2	1	11	1	15	7	19	2	\$ 1,505.30	\$ 5.30	
Franklin Elementary School	2	5	0	300	8	20	0	150	\$ 2,940.00	\$ 1,440.00	
Green Meadows HOA	2	0	9	5	17	0	39	13	\$ 1,506.00	\$ 6.00	
Hammonds Mill HOA	7	0	7	3	42	0	18	8	\$ 2,348.07	\$ 848.07	
Moorefield Middle School	9	5	0	126	29	14	0	126	\$ 2,969.42	\$ 1,469.42	
Moorefield Town Park	7	4	15	30	29	8	45	90	\$ 3,373.50	\$ 1,873.50	
National Humane Edu. Society	4	3	40	1	47	98	82	2	\$ 4,454.00	\$ 2,954.00	
Olivet Cemetery Board	14	3	0	10	46	6	0	40	\$ 1,985.55	\$ 485.55	
Pendleton County Parks Board	2	3	8	17	16	12	32	68	\$ 2,659.30	\$ 1,159.30	
Pleasant View Elementary School	2	2	19	26	7	5	38	52	\$ 1,910.00	\$ 410.00	
Pot. Highlands Master Gardeners	2	3	19	7	17	6	28	28	\$ 1,515.47	\$ 15.47	
Quad/Graphics	6	1	15	0	48	6	30	0	\$ 2,162.80	\$ 662.80	
River Ridge HOA	4	4	17	0	14	10	34	0	\$ 1,581.84	\$ 81.84	
River Road Sodbusters 4-H Club	2	1	38	45	11	2	27	33	\$ 1,516.08	\$ 16.08	
Shepherd Environmental Org.	2	0	28	5	11	0	83	15	\$ 1,845.00	\$ 345.00	
Spruce Hill North HOA	2	0	30	13	23	0	100	13	\$ 2,612.47	\$ 1,112.47	
Union Education Complex	2	0	1	29	7	0	2	85	\$ 1,609.22	\$ 109.22	
Villages of Washington Trails HOA	2	2	8	2	16	12	16	4	\$ 1,023.90	\$ (476.10)	
Warm Springs Watershed Assn.	2	3	27	15	14	6	99	30	\$ 2,487.00	\$ 987.00	
<b>SUB-TOTAL</b>	<b>77</b>	<b>40</b>	<b>300</b>	<b>643</b>	<b>428</b>	<b>211</b>	<b>716</b>	<b>782</b>	<b>\$ 43,771.08</b>	<b>\$ 13,771.08</b>	
<b>TOTAL</b>	<b>1060</b>				<b>2136</b>						

**Table 3:** YV = Youth Volunteer, AV = Adult Volunteer, SL = Skilled Labor, and PL = Project Leader. Each group was asked to provide \$1,500 in volunteer contribution to offset the cost of the CTree Kits and the value of the professional technical assistance. A complete breakdown of volunteer contribution can be found on Page 15.

## Volunteer Contribution and Material Donations



**Figure 3:** Total volunteer contribution and material donations for spring 2016 (left pie) and volunteer contribution on planting day (right pie).

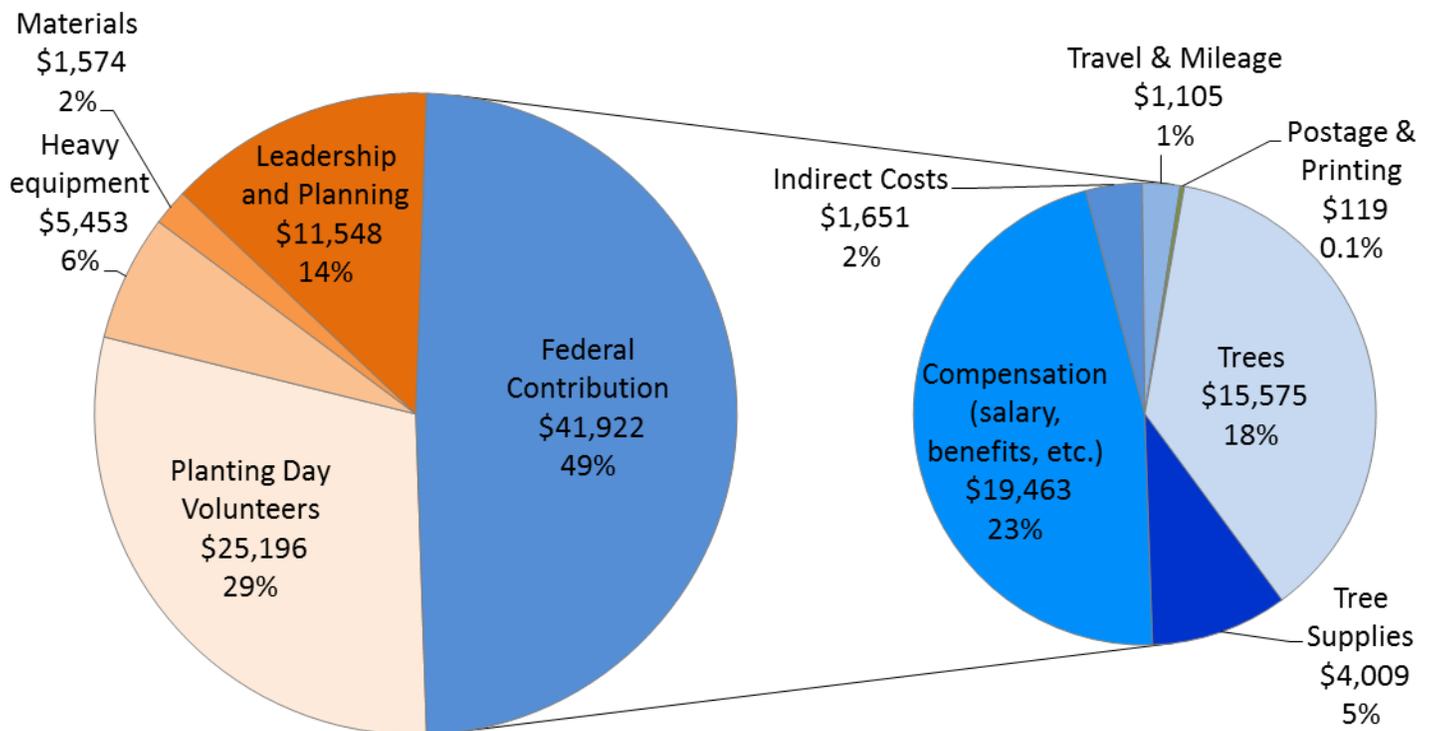
# WV Project CommuniTree Spring 2016 Report

## Trees & Supplies Costs

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Price</u>
Trees	Clear Ridge Nursery orders for Moorefield & Inwood	427	\$ 15,574.71
Mulch Bags	Potomac Farms & Grant County Mulch	135	\$ 993.70
Stakes	Burch Wood Products, multiple sizes	566	\$ 789.86
Tubes	Plantra & Conservation Services	170	\$ 453.66
Cages	Home Depot, welded Woven Wire, 50' rolls	6	\$ 238.74
Arbor Strap	Forestry Supplier, 250' rolls	7	\$ 301.42
Sign Posts, Hardware, etc.	Home Depot, Lowes, & Walmart	n/a	\$ 223.84
Tools	Home Depot	n/a	\$ 402.16
<b>TOTAL</b>			<b>\$ 18,978.09</b>

**Table 4:** WV Project CommuniTree spring 2016 expenses to purchase trees and materials

## Project Investment by Volunteer & Federal Contribution

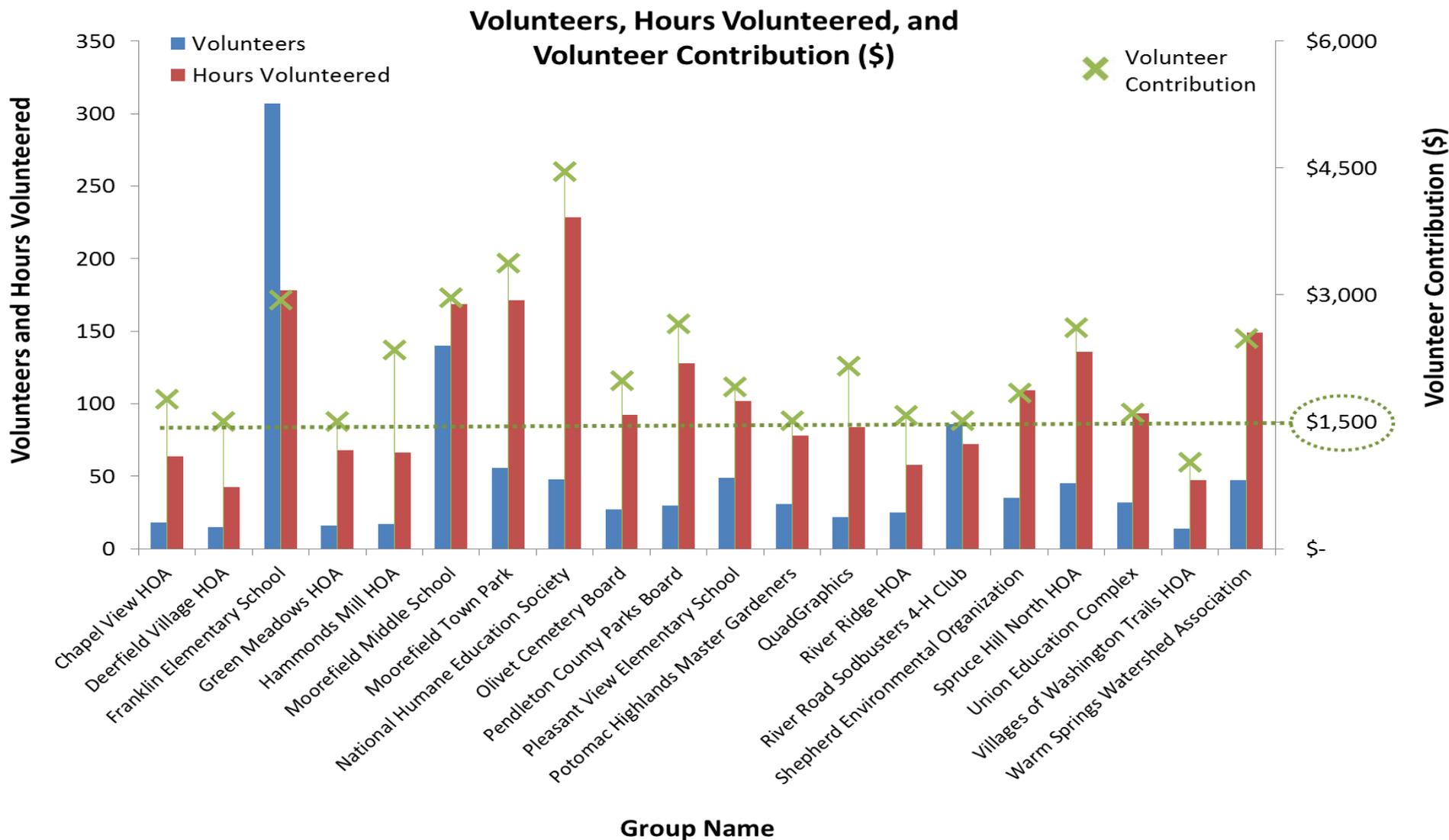


**Figure 5:** Project investment by volunteer and federal contribution. The pie on the left shows project investment, both in terms of volunteer contribution and materials donations as well as by federal contributions. The pie chart on the right shows a breakdown of the federal contribution by material. Federal contribution includes all expenses between December 1<sup>st</sup>, 2015 and May 31<sup>st</sup>, 2016.

## WV Project CommuniTree Spring 2016 Report

<b>Volunteer Contribution and Material Donations</b>						
Organization	Leadership & Planning	Planting Day Volunteers	Heavy equipment	Materials	Volunteer Contribution	Overmatch
Chapel View HOA	\$ 377.50	\$ 720.00	\$ 382.66	\$ 286.00	\$ 1,766.16	\$ 266.16
Deerfield Village HOA	\$ 257.50	\$ 539.00	\$ 164.80	\$ 544.00	\$ 1,505.30	\$ 5.30
Franklin Elementary School	\$ 118.00	\$ 2,672.00	\$ 150.00	\$ -	\$ 2,940.00	\$ 1,440.00
Green Meadows HOA	\$ 690.00	\$ 500.00	\$ 300.00	\$ 16.00	\$ 1,506.00	\$ 6.00
Hammonds Mill HOA	\$ 712.50	\$ 700.00	\$ 770.52	\$ 165.05	\$ 2,348.07	\$ 848.07
Moorefield Middle School	\$ 214.50	\$ 2,626.00	\$ 128.92	\$ -	\$ 2,969.42	\$ 1,469.42
Moorefield Town Park	\$ 373.50	\$ 2,500.00	\$ 500.00	\$ -	\$ 3,373.50	\$ 1,873.50
National Humane Education Society	\$ 2,296.00	\$ 1,797.50	\$ 39.96	\$ 320.54	\$ 4,454.00	\$ 2,954.00
Olivet Cemetery Board	\$ 258.25	\$ 1,600.00	\$ 127.30	\$ -	\$ 1,985.55	\$ 485.55
Pendleton County Parks Board	\$ 436.00	\$ 1,668.00	\$ 555.30	\$ -	\$ 2,659.30	\$ 1,159.30
Pleasant View Elementary School	\$ 134.00	\$ 1,476.00	\$ 250.00	\$ 50.00	\$ 1,910.00	\$ 410.00
Potomac Highlands Master Gardeners	\$ 529.75	\$ 820.00	\$ 165.72	\$ -	\$ 1,515.47	\$ 15.47
Quad/Graphics Inc.	\$ 750.00	\$ 1,002.00	\$ 410.80	\$ -	\$ 2,162.80	\$ 662.80
River Ridge HOA	\$ 352.00	\$ 678.00	\$ 401.84	\$ 150.00	\$ 1,581.84	\$ 81.84
River Road Sodbusters 4-H Club	\$ 382.50	\$ 810.00	\$ 323.58	\$ -	\$ 1,516.08	\$ 16.08
Shepherd Environmental Org.	\$ 230.00	\$ 1,515.00	\$ 100.00	\$ -	\$ 1,845.00	\$ 345.00
Spruce Hill North HOA	\$ 1,157.50	\$ 1,100.00	\$ 337.48	\$ 17.49	\$ 2,612.47	\$ 1,112.47
Union Education Complex	\$ 297.50	\$ 1,175.00	\$ 111.72	\$ 25.00	\$ 1,609.22	\$ 109.22
Villages of Washington Trails HOA	\$ 504.00	\$ 387.50	\$ 132.40	\$ -	\$ 1,023.90	\$ (476.10)
Warm Springs Watershed Association	\$ 1,477.00	\$ 910.00	\$ 100.00	\$ -	\$ 2,487.00	\$ 987.00
<b>TOTALS</b>	<b>\$ 11,548.00</b>	<b>\$ 25,196.00</b>	<b>\$ 5,453.00</b>	<b>\$ 1,574.08</b>	<b>\$ 43,771.08</b>	<b>\$ 13,771.08</b>

Table 5: Complete breakdown of volunteer contribution by group



**Figure 5:** Volunteer hours and total number of volunteers that worked on the project are displayed on the primary vertical axis (left). The cash value of the volunteer contribution and material donations provided per group is displayed on the secondary vertical axis (right). The green perforated line connected to the green perforated circle represents the \$1,500 volunteer contribution requirement. Nineteen groups exceeded the \$1,500 volunteer contribution requirement. The total volunteer contribution for CTree spring 2016 was \$43,771.08.

