

V(A). Planned Program (Summary)

Program # 21

1. Name of the Planned Program

Why Trees Matter: Next STEP (Extension)

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
104	Protect Soil from Harmful Effects of Natural Elements	5%		0%	
112	Watershed Protection and Management	20%		0%	
124	Urban Forestry	20%		0%	
141	Air Resource Protection and Management	20%		0%	
605	Natural Resource and Environmental Economics	15%		0%	
608	Community Resource Planning and Development	20%		0%	
	Total	100%		0%	

V(C). Planned Program (Inputs)

1. Actual amount of professional FTE/SYs expended this Program

Year: 2010	Extension		Research	
	1862	1890	1862	1890
Plan	10.0	0.0	0.0	0.0
Actual	2.0	0.0	0.0	0.0

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

Extension		Research	
Smith-Lever 3b & 3c	1890 Extension	Hatch	Evans-Allen
102490	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
102490	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
0	0	0	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

The Ohio Street Tree Evaluation Program (OSTEP), with 130 statewide research sites, aims to secure long-term data on how specific tree types look, last, and serve the environment.

The Community Tree Research Evaluation and Extension (TREE) Plot in the Ohio Agricultural Research and Development Center's Secrest Arboretum supports replicated plantings of key street-tree types, demonstration plots of trees' environmental benefits, and evaluation plots of new varieties.

The "Ohio Trees" Master Gardener Specialization Program trains volunteers for community street-tree projects.

2. Brief description of the target audience

Ohio citizens

Community Leaders/Officials

Master Volunteers

V(E). Planned Program (Outputs)

1. Standard output measures

2010	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Plan	2000	0	200	0
Actual	27138	200	250	0

2. Number of Patent Applications Submitted (Standard Research Output)

Patent Applications Submitted

Year: 2010

Plan: 0

Actual: 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

2010	Extension	Research	Total
Plan	2	0	
Actual	5	0	5

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Number of programs presented.

Year	Target	Actual
2010	0	60

Output #2

Output Measure

- Number of volunteers participating in WTM educational programs.

Year	Target	Actual
2010	0	425

Output #3

Output Measure

- Number of volunteer hours committed to WTM programs.

Year	Target	Actual
2010	0	1550

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O. No.	OUTCOME NAME
1	Number of participants that appreciate the value of community forests.
2	Number of participants that have improved knowledge of tree identification.
3	Number of local communities demonstrating improved tree selection skills.
4	Dollar value of energy savings to Ohioans documented from WTM studies in local communities.
5	Dollar value of storm water remediation savings documented from WTM studies in local communities.
6	Dollar value of air quality benefits documented from WTM studies in local communities.

Outcome #1

1. Outcome Measures

Number of participants that appreciate the value of community forests.

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2010	0	1275

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

The need to raise the awareness of the importance of trees and forests to our communities exists.

What has been done

Tree-Mendous Day Youth Programming. Developed a pilot program for Harold Schnell Elementary School in West Carrolton and Cox Arboretum in Dayton for over 450 elementary-school students, utilizing 4-H volunteers, Master Gardener and Ohio Certified Volunteer Naturalists, teachers, Arboretum and school volunteers. Also provided input to the TreEAB program for youth environmental education. Part of overall youth education programs which exceeded programming for 1000 students in 2010.

Results

Participants were more aware of the benefits of trees and the importance of planting diverse species. 95% indicated an increased awareness of the importance of diversity in tree plantings.

4. Associated Knowledge Areas

KA Code	Knowledge Area
104	Protect Soil from Harmful Effects of Natural Elements
112	Watershed Protection and Management
124	Urban Forestry
141	Air Resource Protection and Management
605	Natural Resource and Environmental Economics

608 Community Resource Planning and Development

Outcome #2

1. Outcome Measures

Number of participants that have improved knowledge of tree identification.

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2010	0	2500

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Communities need assistance in gathering information on the trees within the community. Data needed: Tree ID, location, and value."

What has been done

Tree Inventories for 6 cities and 5 villages, plus the OARDC Secrest Arboretum. Information is then entered into the iTREE software program and results provided to community leadership, and insurance claims adjusters in the Secrest Arboretum survey.

Results

Participants, community leaders and insurance companies became more aware of differences in structure of trees and leaf, importance, benefits and value of trees.

4. Associated Knowledge Areas

KA Code	Knowledge Area
124	Urban Forestry

Outcome #3

1. Outcome Measures

Number of local communities demonstrating improved tree selection skills.

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2010	0	10

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Improved tree selection skills are needed for community leaders and city planners, landowners, homeowners, etc. to select tree varieties more suitable to their environment, disease and pest resistance, etc.

What has been done

One example is the Greene County Master Gardeners developed a program that has educated the county and city officials within Greene County on the aspects of dealing with the Emerald Ash Borer infestation that was detected in Greene County this year by a Master Gardener. The methods used have been shared via WEB X to Master Gardeners in 24 Counties across the state.

Results

Results from just the Greene County program is that county and govt. officials are making informed decisions on how to handle the EAB problem and where to find information on tree replacement for the doomed Ash Trees. The residents can make informed decisions on whether to treat or remove their trees and they are aware that Extension can help them make good choices for tree replacement.

4. Associated Knowledge Areas

KA Code	Knowledge Area
104	Protect Soil from Harmful Effects of Natural Elements
112	Watershed Protection and Management

124	Urban Forestry
141	Air Resource Protection and Management
605	Natural Resource and Environmental Economics
608	Community Resource Planning and Development

Outcome #4

1. Outcome Measures

Dollar value of energy savings to Ohioans documented from WTM studies in local communities.

Not Reporting on this Outcome Measure

Outcome #5

1. Outcome Measures

Dollar value of storm water remediation savings documented from WTM studies in local communities.

Not Reporting on this Outcome Measure

Outcome #6

1. Outcome Measures

Dollar value of air quality benefits documented from WTM studies in local communities.

Not Reporting on this Outcome Measure

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Natural Disasters (drought, weather extremes, etc.)
- Economy
- Appropriations changes
- Public Policy changes
- Government Regulations
- Competing Public priorities

Brief Explanation

Inventories of Trees, small to large, from \$11,000 - \$15.1 mil. Also includes \$1.4 million lost trees from tornado at OARDC Secrest Arboretum.

V(I). Planned Program (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

- After Only (post program)
- Before-After (before and after program)

Evaluation Results

Evaluation results include: "\$8,913: the average estimated amount of money that will be saved by each participant who specified (48%) that new knowledge gained from the Symposium will save them money. \$587,307: the total estimated amount of money that will be saved by all participants who specified that new knowledge gained from the Symposium will save them money. The Landscape Architects earned a total of 60 CEU's that were approved by the Landscape Architecture Continuing Education System (LA CES)."

Key Items of Evaluation

Some key items of evaluation include: The handbook, manual, and our other inputs were cited by the Director of the MSD and representative of the County Commission as being key factors in obtaining a contract with the MSD for funding for our office in the amount of over \$350,000/yr for 2008 through mid 2011. 99 individuals joined CAPGIN. Green Township in Hamilton County issued a letter attributing the adoption of landscape storm water management best management practices in the township to our programming. Storm water management programs were attended by 789 governmental officials, storm water management professionals, landscape installation professionals, plant growers, building contractors, real estate developers, soil and water conservation specialists, and homeowners. The Grand Marquee exhibit was awarded a silver medal and the "Hamilton County Storm Water District Award".