

V(A). Planned Program (Summary)

Program # 6

1. Name of the Planned Program

Climate Change: Urban Forestry Program

Reporting on this Program

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
123	Management and Sustainability of Forest Resources	20%			
124	Urban Forestry	80%			
	Total	100%			

V(C). Planned Program (Inputs)

1. Actual amount of FTE/SYs expended this Program

Year: 2013	Extension		Research	
	1862	1890	1862	1890
Plan	1.6	0.0	0.0	0.0
Actual Paid Professional	1.6	0.0	0.0	0.0
Actual Volunteer	0.0	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
52000	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
42000	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
12000	0	0	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

Partnerships will be established and strengthened with public and private agencies, and community leaders and groups to provide education, information, and technical advice to the general population. This will be achieved through the use of publications, seminars, mass media, field days and exhibits as well as personal contacts.

2. Brief description of the target audience

The targeted audience will be public and private landowners and agencies, community leaders and organizations, youth groups, and civic organizations.

3. How was eXtension used?

eXtension was not used in this program

V(E). Planned Program (Outputs)

1. Standard output measures

2013	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Actual	1782	5000	293	500

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

Patent Applications Submitted

Year: 2013
 Actual: 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

2013	Extension	Research	Total
Actual	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Number of educational classes in tree identification

Year Actual

2013 3

Output #2

Output Measure

- Number of workshops/demonstrations on tree care including pruning, planting, selection etc.

Year	Actual
2013	3

Output #3

Output Measure

- Number of outreach opportunities to aid in the restoration of trees after storms.

Year	Actual
2013	2

Output #4

Output Measure

- Number of one-on-one consultation with residents about tree care.

Year	Actual
2013	35

Output #5

Output Measure

- Number of articles/publications on tree care and urban forest management

Year	Actual
2013	0

Output #6

Output Measure

- Number of fairs and exhibits displaying best management practices and other information pertaining to the Urban Forestry

Year	Actual
2013	4

Output #7

Output Measure

- Number of seminars on economic opportunities available through using and/or recycling forest

resource

Year	Actual
2013	2

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O. No.	OUTCOME NAME
1	Increase the number of homeowners, landowners, policy makers who become more aware of the potential economic, social, and environmental contributions of the urban and suburban forest by 10%
2	Increase the number of homeowners, residents and landowners, public and private agencies, and nonprofit organizations who increase their knowledge of the care and management of the urban forest by 10%
3	Increase the number of homeowners, landowners, municipalities who actively reduce, reuse, and recycle yard waste by 5%
4	Increase the number of residents who restore urban trees following hurricanes and tropical storms by 10%
5	Increase the number of landowners and residents who expand entrepreneurial opportunities from the urban and suburban forest resources by 10%

Outcome #1

1. Outcome Measures

Increase the number of homeowners, landowners, policy makers who become more aware of the potential economic, social, and environmental contributions of the urban and suburban forest by 10%

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	1017

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

The reuse and recycling of organic waste is a key strategy in reducing the volume of items entering our landfills. Turning recyclable products into moneymaking opportunities is a way for individuals within our community to earn additional income or become fulltime entrepreneurs. The V.I. Department of Human Services (DHS) has launched the Senior Community Service Employment Program (SCSEP) to provide interested senior citizens with skills that would make them employable or start their own business.

Ensuring that the next generation develops an appreciation for the benefits of trees is important as urban development continues to reduce forested areas of the V.I. CES staff provides information to schools and youth groups through publications, lectures and walking tours.

What has been done

CES sponsored the 7th Annual Virgin Islands Woodworkers Expo at the Tutu Park Mall in St. Thomas and the Market Place in St. John. This was the second time that the Expo was held in St. John.

CES has partnered with DHS to conduct a series of workshops to include in landscaping and gardening.

CES staff conducted a walking tour of trees on a portion of the St. Thomas campus for the 4-H Summer Academy where they learned about the benefit of trees and products that could be made from recycled trees. Extension staff talked to children at the Lindberg Bay Headstart about the benefit of trees. Two groups of young people were provided with an educational coloring book entitled "Trees are Good". Extension staff conducted 2 lectures to two (2) groups of senior citizens on the benefits of trees. The Agriculture and Food Fair of the Virgin Islands gave CES staff a venue to reach a large number of residents with information about native trees.

Results

Ten (10) persons on St. Croix and eight (8) persons on St. Thomas from the SCSEP became more aware of the benefits of trees and ten popular trees that grow best in the urban landscape. Seven (7) individuals representing all three islands participated in demonstrations of their woodworking skills, provided one-on-one exchanges, and sold items that were made from reclaimed trees and tree parts. Forty (40) students and four (4) adults from three schools on St. Thomas became more aware of the opportunities to recycling tree parts. On St. John five (5) woodworkers participated in the Expo. Over the six-day period, approximately nine hundred to one thousand (900-1000) adults attended the expo on St. Thomas and approximately 400 hundred on St. John.

At the Virgin Islands Agriculture and Food Fair, approximately, three hundred (300) persons increased their knowledge of hazardous tree conditions and became more aware of the variety of native trees that are adapted for this environment.

Seventeen (17) youth and three adults (3) from the 4-H summer academy on St. Thomas and twenty-five (25) children and (3) adults became more aware of the role that trees play in their environment. The youth have in their new coloring book, an age appropriate reference for their library.

4. Associated Knowledge Areas

KA Code	Knowledge Area
123	Management and Sustainability of Forest Resources

Outcome #2

1. Outcome Measures

Increase the number of homeowners, residents and landowners, public and private agencies, and nonprofit organizations who increase their knowledge of the care and management of the urban forest by 10%

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	250

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Sensitizing the next generation of Virgin Islands youth as to the importance of trees in the environment is important for the future of sustainable resource management. Providing age appropriate resources and educational opportunities is key to increasing awareness of the benefits of trees and effectively communicating best management practices.

What has been done

Extension presented a lecture and demonstration to 4-H summer academies on both islands about the care of trees.

Results

Seventy (70) adults and two-hundred eleven (211) youth became more aware of the proper way of taking care of trees around their home and in public places especially as interact with kenep and other local fruit and ornamental trees.

4. Associated Knowledge Areas

KA Code	Knowledge Area
123	Management and Sustainability of Forest Resources
124	Urban Forestry

Outcome #3

1. Outcome Measures

Increase the number of homeowners, landowners, municipalities who actively reduce, reuse, and recycle yard waste by 5%

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	0

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

The reuse and recycling of organic waste is a key strategy in reducing the volume of items entering our landfills. Turning recyclable products into money-making opportunities is a way for individuals within our community to earn additional income or become fulltime entrepreneurs.

What has been done

CES sponsored the 7th Annual Virgin Islands Woodworkers Expo at the Tutu Park Mall in St.

Thomas and the Market Place in St. John. The Expo provided residents an opportunity to observe how trees and tree parts can be recycled for personal use and for profit. CES also participated in the annual Earth Day Celebration sponsored by the Friends of the National Park in St. John with a display of a model compost bin and finished compost.

Results

Seven (7) individuals representing all three islands participated in demonstrations of their woodworking skills used in recycling and reclaiming trees and tree parts. Forty (40) students and four (4) adults from three schools on St. Thomas became more aware of the opportunities to recycling tree parts. On St. John five (5) woodworkers participated in the Expo. Over the six day period, approximately nine hundred to one thousand (900-1000) adults attended the expo on St. Thomas and approximately 400 hundred on St. John. The compost sample and compost bin display at the Earth Day celebration helped the approximately one hundred fifteen (115) youth and sixty (60) adults increased their knowledge of how compost is made and became more aware of the benefits of compost.

4. Associated Knowledge Areas

KA Code	Knowledge Area
123	Management and Sustainability of Forest Resources
124	Urban Forestry

Outcome #4

1. Outcome Measures

Increase the number of residents who restore urban trees following hurricanes and tropical storms by 10%

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	0

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Tropical storms are a fact of life in the territory. Trees in general are negatively affected in some way depending on the severity of the storm. Urban trees in particular are adversely affected by storms because generally they are growing in less than ideal conditions thus, predisposing them to a higher risk of failure. If damaged trees aren't given corrective measures within a short time or

fallen trees aren't erected right away, then chances of survival begin to diminish as time goes on.

What has been done

Appearances on local talk shows were the primary means of disseminating general information to residents whose trees were damaged by storms. Home and site visits by Extension staff were also used to assist residents in recovering and preserving damaged and or fallen trees.

Results

It is hard to determine with any accuracy the amount of individuals that actively were involved in restoring damaged and/or fallen trees. From observation, public and private maintenance crews, and nonprofit organizations were actively involved in tree restoration. Through onsite visits and telephone contacts, technical advice was provided to residents, landscapes crews, and any organization that was involved in forest restoration.

4. Associated Knowledge Areas

KA Code	Knowledge Area
123	Management and Sustainability of Forest Resources
124	Urban Forestry

Outcome #5

1. Outcome Measures

Increase the number of landowners and residents who expand entrepreneurial opportunities from the urban and suburban forest resources by 10%

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	7

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

The reuse and recycling of organic waste is a key strategy in reducing the volume of items entering our landfills. Turning recyclable products into moneymaking opportunities is a way for individuals within our community to earn additional income or become fulltime entrepreneurs.

What has been done

CES sponsored the 7th Annual Virgin Islands Woodworkers Expo at the Tutu Park Mall on St. Thomas and the Market Place on St. John. Seven (7) individuals representing all three islands participated in demonstrations of their woodworking skills, provided one-on-one exchanges, and sold items that were made from reclaimed trees and tree parts. During the expo, demonstrations were given by selected woodworkers showing how tree parts can be turned into valuable works of art.

Results

Over the six-day period, approximately one thousand four hundred and fifty (1450) adults and students attended the expo. Attendees became more aware of the potential for earning additional dollars or making a fulltime living from woodworking.

External factors which affected outcomes

Staff shortages and competing programmatic challenges resulted in less than maximum output which led to lower than expected outcomes.

Evaluation results

One-on-one and small group interviews were administered at the workshops and public events. They provided a good picture of the effectiveness of the lectures, poster presentations and publications.

4. Associated Knowledge Areas

KA Code	Knowledge Area
123	Management and Sustainability of Forest Resources

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Natural Disasters (drought, weather extremes, etc.)
- Economy
- Government Regulations
- Competing Programmatic Challenges
- Populations changes (immigration, new cultural groupings, etc.)

Brief Explanation

Staff shortages and competing programmatic challenges resulted in less than maximum outputs which led to lower than expected outcomes.

V(I). Planned Program (Evaluation Studies)

Evaluation Results

{No Data Entered}

Key Items of Evaluation

{No Data Entered}