

V(A). Planned Program (Summary)

Program # 3

1. Name of the Planned Program

Global Food Security and Hunger: Urban Gardening

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
205	Plant Management Systems	95%			
403	Waste Disposal, Recycling, and Reuse	5%			
	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	2.2	0.0	0.0	0.0
Actual Paid Professional	2.2	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
50000	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
50000	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
5000	0	0	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

- Educational classes, workshops, seminars
- Development of publications, resource materials, curriculum guides
- Conducted field days, field demonstrations, exhibits and tours
- One-on-one counseling
- On-site visits
- Use of electronic and social media
- Website development

2. Brief description of the target audience

- Home owners
- Horticultural Organizations
- Public Housing Residents
- Senior citizens homes
- School teachers
- Policy Makers
- Master Gardeners Candidates
- Youth groups

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	482	10000	207	800

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 to help residents to plan and create a garden

Year	Actual
2013	5

Output #2

Output Measure

- Number of workshops/demonstrations using low cost, efficient, technologies, practices and principles in gardening

Year	Actual
2013	5

Output #3

Output Measure

- Number of educational classes in the benefits of proper gardening

Year	Actual
2013	5

Output #4

Output Measure

- Number of consultations with residents about gardening

Year	Actual
2013	134

Output #5

Output Measure

- Number of articles/publications on urban gardening management

Year	Actual
2013	2

Output #6

Output Measure

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

Year	Actual
2013	3

Output #7

Output Measure

- Number of print, electronic, and social media appearances/programs promoting urban gardening

Year	Actual
2013	4

Output #8

Output Measure

- Number of demonstration sites developed using urban gardening principles and practices

Year	Actual
2013	3

Output #9

Output Measure

- Number of public and private entities and individuals establishing gardens

Year	Actual
2013	20

Output #10

Output Measure

- Number of residents, non-profit organizations, and public and private entities establishing composting projects.

Year	Actual
2013	3

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O. No.	OUTCOME NAME
1	Increase the number of residents residents who will become more aware of the benefits of gardening by 10%
2	Increase the number of residents,who increase their knowledge of more efficient low cost technologies, practices, and principles by 10%
3	Increase the number of home gardeners who realize a reduction in their cost of living resulting from urban gardening by 10%
4	Increase the number of residents who will establish gardens by 10%
5	Increase the number of residents who start composting by 10%

Outcome #1

1. Outcome Measures

Increase the number of residents who will become more aware of the benefits of gardening by 10%

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	554

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Gardening is an easy way to get children moving and active during the school day. Gardening also encourages healthy eating habits which aids in the fight against childhood obesity. Exposing youth to the benefits of gardening and giving them opportunities to see cultivated gardens sometimes creates an interest and excitement in the mind of a young person. Providing teachers with the information needed to create and manage a school garden is also an important part of this process. The combination of increasing prices for energy, food, and health care continues to force residents to adjust their spending habits through finding ways to save money and making every dollar stretch as far as possible. A well-managed landscape serves as a source of horticultural therapy and contributes to the overall well-being of VI residents. Health and wellness campaigns help draw attention to issues affecting the quality of life for Virgin Islands residents. These events help to raise awareness of specific subject areas and provide vital information to help residents make informed decisions regarding their personal health or the health of a family member.

What has been done

CES facilitated a seed planting activity with the fathers and children who attended the annual Father/Child Activity Day sponsored by the Department of Human Services Head Start Program. Extension staff read a book on gardening for children at the Lindberg Bay Head Start. CES presented a lecture and answered questions about gardening at a health fair sponsored by the Superior Court of the Virgin Islands. CES completed a series of lectures, displays and live demonstrations at various activities throughout the territory. The annual Agriculture and Food Fair of the Virgin Islands on St. Croix, the annual Bordeaux Rastafari Agriculture and Food Fair, and Afternoon on the Green provided CES with opportunities to present information and respond to a wider audience.

The Department of Human Services, Senior Community Service Employees Program (SCSEP)

partnered with CES to conduct a series gardening workshops for senior citizens. These classes were designed to provide basic hands-on education and instruction for those seniors who want to enter or reenter the work force or become self-employed. Extension staff was interviewed on WGod radio station about gardening in the Virgin Islands.

Results

Approximately thirty-three (33) fathers became more aware of how engaging in gardening projects can help to build strong emotional and social ties between them and their children. Thirteen (13) teachers and ninety-three (93) youth from several St. Croix public private and parochial became more aware of how gardening can enhance the delivery and understanding of certain subjects. Listeners to the WGod radio station learned of the benefits of gardening. Forty two (42) students and one (1) teacher from the St. Thomas/St. John Seventh-Day Adventist School became more aware of the benefits of gardening and the need to grow your own food locally. At the two agriculture fairs, approximately, three hundred seventy (370) residents also increased their knowledge of the benefits of gardening, and the various types of container gardens. Eighteen (18) senior citizens became more aware of the benefits of garden and increased their knowledge of how to start and maintain a vegetable garden.

4. Associated Knowledge Areas

KA Code	Knowledge Area
205	Plant Management Systems

Outcome #2

1. Outcome Measures

Increase the number of residents, who increase their knowledge of more efficient low cost technologies, practices, and principles by 10%

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	610

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Some teachers across the territory are seeing the value of having a school garden as a means of augmenting their curriculum and providing a healthful activity for their students. Providing

teachers with the information needed to create and manage a school garden will enable them achieve both objectives. Studies have shown that when families work together on a project or are involved in a collaborative activity, it usually results in a number of positive family strengthening outcomes. The outcomes are even more dynamic when fathers are actively involved in the project or activity.

What has been done

CES facilitated a seed sowing activity with fathers and their children at the annual Father/Child Activity Day sponsored by the Department of Human Services. CES conducted five (5) hands-on workshops on creating a vegetable garden on St. Thomas and St. Croix with participants in the SCSEP program. Extension staff conducted a series of workshop, for the 7th grade class of the St. Thomas/St. John Seventh-day Adventist School on creating and maintaining a vegetable garden. Extension staff was interviewed on WGOD about creating healthy soils in your garden. Afternoon on the Green provided Extension staff with an opportunity lead a tour of the demonstration garden and distribute publications on gardening to attendees. CES partnered with the Superior Court of the Virgin Islands to be a part of their health fair.

Results

Forty-seven (47) persons from the Superior Court were provided with publications and increased their knowledge of basic garden management. Approximately fifty (50) fathers accompanied by their child(ren) learned how to sow seeds in a cup of soil and were provided with information about the best way to take care of the plant as it is growing. At Afternoon on the Green, approximately twelve (12) persons received handouts on tire and box gardening and toured the demonstration garden. Seventeen (17) students and two (2) teachers from the St. Thomas/St. John Seventh-day Adventist School and ninety-three (93) students and thirteen (13) teachers from public, private, and parochial schools in St. Croix, increased their knowledge of building and maintaining a vegetable garden. Approximately, three hundred seventy (370) residents also increased their knowledge the various types of container garden systems. As a result of the Introduction to Gardening classes, eighteen (18) senior citizens from the SCSEP program increased their knowledge of how to start and maintain a vegetable garden. The listeners of WGOD increased their knowledge of building quality soils in their garden.

4. Associated Knowledge Areas

KA Code	Knowledge Area
205	Plant Management Systems

Outcome #3

1. Outcome Measures

Increase the number of home gardeners who realize a reduction in their cost of living resulting from urban gardening by 10%

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	10

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Ninety-five (95%) to ninety-nine (99%) of food consumed in the Virgin Islands is imported. With the additional cost of shipping and handling, store owners mark up, and utility cost, Virgin Islands residents pay extremely high costs for food. If there was a way to reduce the cost of food, residents could save money and possibly shift financial resources to other aspects of life.

What has been done

Senior citizens in the Introduction to Gardening class for the SCSEP program received instruction and technical advice and were provided with hands-on opportunities for building, maintaining and harvesting crops from their gardens. Seventh grade students at the St. Thomas/St. John Seventh-day Adventist School also received guidance and instruction in constructing individual container gardens of herbs and vegetables.

Results

Approximately fifty percent (50%) of participants in Introduction to Gardening classes have reported a savings in the cost of certain commodities as a result of this project and the students from the Seventh-day Adventist school built a garden and harvested some of the vegetables and herbs from the garden.

4. Associated Knowledge Areas

KA Code	Knowledge Area
205	Plant Management Systems

Outcome #4

1. Outcome Measures

Increase the number of residents who will establish gardens by 10%

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	24

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Virgin Islands residents for the most part have been exposed to gardening either from practical experience in the past or from visiting a neighbors garden. Those who may have had gardens gave up gardening for one reason or another. Obesity among youth and adults is a major concern of healthcare professionals territory wide. Youth need to experience the benefits of gardening as well.

What has been done

CES partnered with the Department of Human Services SCSEP program to conduct, a six (6) week Introduction to Gardening classes on St. Thomas and St. Croix. These classes were designed to provide basic hands-on education and instruction on a creating and maintaining home garden.

Seventeen (17) students from the St. Thomas/St. John Seventh-day Adventist School and one teacher learned how to construct different types of gardening systems. Extension staff also conducted a workshop with fathers and children in the Department of Human Services Head Starts father/child activity program.

CES conducted a school gardening workshop for public private and parochial schools on St. Croix.

Results

As a result, approximately eighty-five percent (85%) of participants from the SCSEP program reported starting some type of vegetable garden. The seventh graders at the Seventh-day Adventist School built several types of container garden systems at their school. Eight of the schools that participated actually created a garden.

4. Associated Knowledge Areas

KA Code	Knowledge Area
205	Plant Management Systems

Outcome #5

1. Outcome Measures

Increase the number of residents who start composting by 10%

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	15

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Virgin Islanders discard tons of materials, particularly yard waste, each year. That material can be recycled into compost and used to improve the health of the soil and grow better and healthier plants. Exposing young people to this type of information at an early age will help them to make sound decisions in the future regarding the management of natural resources.

What has been done

During the annual Earth Day activities on St. John, extension staff displayed a miniature replica of a compost pile and provided handouts for students and staff of various schools on the subject. Extension staff presented a seminar on composting to a biology class at the Ivanna Eudora Kean High School.

Results

Sixteen (16) students increased their knowledge of the science of composting. At the Earth Day Celebration on St. John, approximately one hundred (100) youth and thirty-four (34) adults became more aware of the benefits of recycling yard wastes and food scraps and the contribution that composts makes to improving soil quality.

4. Associated Knowledge Areas

KA Code	Knowledge Area
403	Waste Disposal, Recycling, and Reuse

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Competing Programmatic Challenges
- Other (Staff reductions)

Brief Explanation

V(I). Planned Program (Evaluation Studies)

Evaluation Results

Staff shortages have hampered our ability to fully execute plans for the urban gardening projects. Some data was collected but more long-term follow up behavioral changes is still needed.

Key Items of Evaluation