

2008 University of the District of Columbia Combined Research and Extension Annual Report of Accomplishments and Results

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I. Report Overview

1. Executive Summary

As the only totally urban land-grant institution in the United States, the University of the District of Columbia is both unique and challenged. The institution's uniqueness sets it apart from its other national land-grant counterparts in a few respects: 1) we serve our nation's capital; 2) we are situated in a totally urban area; there are no rural areas nor major agricultural markets such as farming, dairy, and/or livestock; 3) we have 1862 land-grant institution status because of one of our predecessor institutions, Myrtilla Miner Academy; and 4) unlike other 1862's, we are a historically black college/university (HBCU). Like most large cities, our capital city is plagued with a myriad of problems ranging from health, education, crime, and nutrition to homelessness, illiteracy, youth violence and water quality. Thus, AES and CES are challenged to formulate relevant research and extension programs that adequately address critical issues in the District of Columbia.

Through collecting and assessing stakeholder input and considering the city's priorities as well as the strategic goals set by USDA, AES and CES are tapping into an array of critical areas to include human health and nutrition; water quality; sustainable agriculture; urban gardening; specialty crops; ornamental horticulture; food safety; pesticide management; environmental education for students and teachers; community sustainability and vitality; and youth development and leadership. As sibling components of the land-grant system, AES and CES continue to establish integrated activities congruent with our strategic plan.

For FY 2008, the Station sponsored research in the areas of health, nutrition, sustainable agriculture, and youth violence. Specifically, health studies included critical issues such as diabetes, cancer prevention, breast cancer, and asthma. Multi-state research projects included a nutritional study to assess the intake of fruits, vegetables, and whole grains in Older Adults and an obesity study to identify and examine the causes, effects and prevention of pediatric obesity. As youth violence is a major concern to city residents, a study was conducted to investigate the causes and effects of youth violence as well as the efforts employed by the city to deter this destructive, growing behavior.

The Agricultural Experiment Station continues its research in sustainable agriculture. The Station was awarded specialty crop grants to conduct research on the use of intercropping techniques, methods to extend the growing season, and the growth of herbs, spices, and mushrooms as niche crops for the District of Columbia. Also, AES researchers teamed with a local group, Earth and Food Systems, Inc., to establish a project to investigate the use of solar pods for growing vegetables during the cold season.

The Cooperative Extension Service continues to provide innovative educational services to our various ethnic and cultural stakeholders for the enhancement of their quality of life. Continued self assessments of CES programs have enhanced accountability and provided relevant data for external reporting and performance measures.

All CES units have forged strong partnerships with private and public, local and regional agencies, organizations and businesses, enabling us to provide collaborative, creative and pertinent educational opportunities for our stakeholders. These partnerships provide the opportunity to replicate successful programs across all wards and contact residents through workshops, technical demonstrations, and distributing informational materials such as fact sheets. Outcomes and impacts are determined with survey instruments as well as pre- and post-tests.

The CES Community Resource and Economic Development Unit has initiated the implementation of "Market Makers", a direct marketing software through the University of Illinois Extension which will assist in bridging the gap between rural farmers and urban consumers while making healthy fruits and vegetables accessible and affordable to low income DC residents. The interdisciplinary collaboration between the Environment & Natural Resources, Family & Consumer Sciences and Housing and Environment Programs Units continues to provide training and technical services in environmental hazard and asthma prevention to assist with solving the health and environmental issues facing our many at-risk stakeholders. The Environment and Natural Resources Unit through its Urban Pest Management Program continues to develop a model and sustainable program for eliminating urban pests associated with low income residents. Our Master and Junior Master Gardeners Program train and assist residents in urban gardening projects while endeavoring to "Green the City of Washington DC." The Center for Nutrition Diet and Health continues to implement the Food Stamp Nutrition Education Program while researching youth obesity in the District. In an effort to break the chain of illiteracy which is extremely high in the District, our 4-H DC Reads Program successfully offers mentoring to Elementary students by College students from the University of the District of Columbia while the Parenting Education Program enhances the parenting skills of their parents.

We have expanded all of our programs with the hiring of committed professionals and strong resource assistance to support family and community development, consumer and financial knowledge and skills, nutrition and health, youth development, water quality, urban pest management, horticulture, and reading literacy. Both AES and CES are collaborating on integrated, multi-institutional and multi-state projects in an effort to build a closer relationship with the residents of the District of Columbia

Total Actual Amount of professional FTEs/SYs for this State

Year:2008	Extension		Research	
	1862	1890	1862	1890
Plan	24.6	0.0	11.7	0.0
Actual	31.8	0.0	2.5	0.0

II. Merit Review Process

1. The Merit Review Process that was Employed for this year

- Internal University Panel
- External Non-University Panel

2. Brief Explanation

Research proposals are peer reviewed by faculty researchers at the University of the District of Columbia in various disciplines such as biology, environmental science, engineering, computer science, and social sciences, and external reviewers. All Hatch project proposals are submitted to USDA through the CRIS system for review and approval.

The UDC Cooperative Extension has developed various formal and informal, qualitative and quantitative means to evaluate programs which include:

Formal/informal Advisory Member Interviews

Pre-test and post-test

Volunteer recruitment and retention

Agency/individual assessments

Increased participant enrollment

DC/National Certifications received by participants

Partner/Collaborators evaluations

Increased product demand Surveys

Self-administered questionnaires

Surveys

Demonstrated Skills acquired by participants

Proposals Funded

Health Assessments

Health Professionals and Participant Feedback Behavioral/Attitudinal Changes

Written/Oral Evaluations

Behavioral/Attitudinal Changes

Observations

Reading Grade-level Achieved

Staff Performance Appraisals

Staff and Unit Monthly Productivity Assessment Tool

Professional Development/Association Involvement

Proposal Committee

Conference Calls, Telephone and Email contacts were also made.

Feedback from DC Public School Principals and Professional Staff

Flyers are displayed at the site of programs, at libraries and various other public locations.

Capital Area Food bank Advocacy Update Newsletter

III. Stakeholder Input

1. Actions taken to seek stakeholder input that encouraged their participation

- Use of media to announce public meetings and listening sessions
- Targeted invitation to traditional stakeholder groups
- Targeted invitation to non-traditional stakeholder groups
- Targeted invitation to traditional stakeholder individuals
- Targeted invitation to non-traditional stakeholder individuals
- Targeted invitation to selected individuals from general public
- Survey of the general public

Brief Explanation

The Agricultural Experiment Station has surveyed the general public to include University students, participants in community/city programs and forums, and participants in University sponsored programs and activities. This information has been assessed to determine the priorities of our shareholders on issues they deem critical as residents of the District of Columbia. Further, AES and CES have held a community listening session and several more are scheduled throughout the remainder of the year.

The UDC Cooperative Extension Service conducts volunteer training sessions to cultivate and prepare a highly involved stakeholder group. We continue to strive to provide programs and activities that are customer driven, some to a greater degree than others, as our Nutrition on Demand program. Through stakeholders involvement, program colleagues and agency collaborators, we have strengthened and expanded our program efforts and offerings.

2(A). A brief statement of the process that was used by the recipient institution to identify individuals and groups stakeholders and to collect input from them

1. Method to identify individuals and groups

- Use Advisory Committees
- Use Internal Focus Groups
- Use External Focus Groups
- Needs Assessments
- Use Surveys

Brief Explanation

The AES/CES Advisory Board meets quarterly. The Board assists in the assessment of research and extension programs and activities. They review publications, reports, and materials and make recommendations to strengthen our program efforts.

2(B). A brief statement of the process that was used by the recipient institution to identify individuals and groups who are stakeholders and to collect input from them

1. Methods for collecting Stakeholder Input

- Meeting with traditional Stakeholder groups
- Survey of traditional Stakeholder groups
- Meeting with traditional Stakeholder individuals
- Survey of traditional Stakeholder individuals
- Meeting specifically with non-traditional groups
- Survey specifically with non-traditional groups
- Meeting with invited selected individuals from the general public

Brief Explanation

Internal and external surveys, public/private research, outreach publications, and advocacy events were methods utilized for collecting stakeholders' input.

3. A statement of how the input was considered

- To Identify Emerging Issues
- In the Staff Hiring Process
- To Set Priorities

Brief Explanation

The Agricultural Experiment Station and Cooperative Extension Service consider the priorities of city residents in formulating a research and outreach programs that address the critical issues for District of Columbia. We review and assess information received by stakeholders to identify the priorities of the residents of the District of Columbia and to determine if current research and outreach efforts are addressing issues that the citizens deem to be of great importance.

Brief Explanation of what you learned from your Stakeholders

It goes out without an argument, America is in deep trouble. At all levels of life, there is a push to get back to family. Regardless to the makeup of the family the purpose and the ideas of family are on display. Our programs to a great degree reflecting this consensus. Our stakeholders are concerned about their health, youth violence, environmental degradation, and urban food production and marketing to provide accessible, affordable and nutritious fruits and vegetables.

IV. Expenditure Summary

1. Total Actual Formula dollars Allocated (prepopulated from C-REEMS)			
Extension		Research	
Smith-Lever 3b & 3c	1890 Extension	Hatch	Evans-Allen
1056866	0	722124	0

2. Totaled Actual dollars from Planned Programs Inputs				
	Extension		Research	
	Smith-Lever 3b & 3c	1890 Extension	Hatch	Evans-Allen
Actual Formula	979556	0	573017	0
Actual Matching	979556	0	234612	0
Actual All Other	827549	0	15000	0
Total Actual Expended	2786661	0	822629	0

3. Amount of Above Actual Formula Dollars Expended which comes from Carryover funds from previous years				
Carryover				
	492027	0	158711	0

V. Planned Program Table of Content

S. NO.	PROGRAM NAME
1	Finding Diabetes Associated Genes with Fuzzy-Inferenced Decisionmaking
2	Improving Plant Food (Fruit, Vegetable and Whole Grain) Availability and Intake in Older Adults
3	Water Environment Studies in Schools Teacher Training Program
4	Cancer Prevention and Control Strategies for a Healthier DC Community
5	Juvenile Violent Crime Patterns
6	A Model of Macrophage Particulate Matter Air Pollution Interactions
7	Integrated Pest Management in Urban Gardens
8	Sustainable Agricultural Techniques for Growing Vegetables
9	Effect of Pelletized Maure on Vegetable Production and Vadose
10	Youth Environmental Life Sciences
11	4-H and Youth Development
12	D.C. Reads
13	Water Quality Monitoring and Education
14	Agriculture in the Classroom
15	Renewable Resources Extention Act (RREA)
16	Home Lawn and Gardening
17	Washington Metropolitan Area Transit Authority Advanced Landscape Program
18	Master Gardener/Junior Master Gardener
19	Integrated Pest Mgmt for the Sustained Reduction of Pest Population in Low Income Urban Households
20	Pesticide Certification and Training
21	Nutrition on Demand
22	Parenting
23	Teachers Understanding Nutrition and Agriculture (TUNA)
24	Food Stamp Education Nutrition Program
25	Obesity Research Projects
26	Home Maintenance and Repair
27	Asthma Project
28	Center for Cooperatives & C.H. Kirkman, Jr. Resource Library for Cooperatives
29	Promoting Businesses
30	Financial Literacy
31	DC Food Handler Certification Program Model Project
32	DC Drinking Water Blind Taste Testing
33	An Integrated Approach to Prevention of Obesity in High Risk Families

Program #1

V(A). Planned Program (Summary)

1. Name of the Planned Program

Finding Diabetes Associated Genes with Fuzzy-Inferenced Decisionmaking

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
901	Program and Project Design, and Statistics	50%		50%	
903	Communication, Education, and Information Delivery	50%		50%	
	Total	100%		100%	

V(C). Planned Program (Inputs)

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

Year: 2008	Extension		Research	
	1862	1890	1862	1890
Plan	0.0	0.0	0.8	0.0
Actual	0.0	0.0	0.4	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
0	0	121241	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
0	0	39102	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

In this project, we have developed our *X-test* family, a series of fuzzy-set-theory-based methodologies to effectively measure the divergence of diabetes microarray data. *X-test* family has been proved to be able to effectively measure the divergence of two set of data. It has not only identified genes that are confirmed in literature to be associated with diabetes, but also suggested potential diabetic genes for further biological investigation. Research results have been published in international prestigious conferences and journal. We have also confirmed that there is a great need for fuzzy-set-theory-based approaches for handling incomplete and noisy data in diabetes study. A new project has been proposed on developing *X-test* family to apply on categorical and homogeneous data and has recently been approved. We worked across three institutions and two disciplines and have trained six graduate/undergraduate students. Two journal papers, listed following, have been published on this study on BMC bioinformatics, one of the top journals in bioinformatics, which is subscribed by 300,000 researchers.

Lily R. Liang, Vinay Mandal, Yi Lu and Deepak Kumar, "MCM-test: a fuzzy-set-theory-based approach to differential analysis of gene pathway", BMC Bioinformatics 2008, 9 (Suppl 6):S16.Download.

Lily R. Liang, Shiyong Lu, Xuena Wang, Yi Lu, Vinay Mandal, Dorrelyn Patacsil, Deepak Kumar, "FM-test: A Fuzzy-Set-Theory-Based Approach to Differential Gene Expression Data Analysis", international journal of BMC Bioinformatics 2006, 7 (Suppl 4): S7

Four conference papers, listed following, have been published on prestigious international conferences.

Lily R. Liang, Vinay Mandal, Yi Lu and Deepak Kumar, "Multi-dimensional Cluster Misclassification Test for Pathway Differential Analysis of Diabetes", In Proceedings of International Multi-Symposiums on Computer and Computational Sciences 2007, August 12-15, 2007, Iowa City, Iowa.

Xubo Fei, Shiyong Lu, Horia F. Pop, and Lily R. Liang, "GFBA: A Biclustering Algorithm for Discovering Value-Coherent Biclusters", in proceedings of the International 3rd Symposium on Bioinformatics Research and Applications (ISBRA'2007), Lecture Notes in Bioinformatics 4463, pp.1-12, May 7-10, 2007, Georgia State University, Atlanta, Georgia.

quot;CM-test: An Innovative Divergence Measurement and Its Application in Diabetes Gene Expression Data Analysis" by Lily R. Liang, Shiyong Lu, Yi Lu, Puneet Dhawan, and Deepak Kumar, in proceedings of 2006 IEEE International Conference on Granular Computing.

quot;FM-test: A Fuzzy Set Theory Based Approach for the Identification of Diabetes Genes" by Yi Lu, Shiyong Lu, Lily R. Liang, and Deepak Kumar, in proceedings of Symposium of Computations in Bioinformatics and Bioscience (SCBB06).

2. Brief description of the target audience

Computer Scientists; biologist who focus on microarray data analysis and diabetes; health care professionals; and diabetics or suspected diabetic patients.

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	0	0	0	0
2008	0	0	0	0

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

Patent Applications Submitted

Year	Target
Plan:	1
2008 :	0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

	Extension	Research	Total
Plan	0	0	
2008	0	2	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- The methodology FIND for gene microarray data analysis will be developed and tested on both synthetic and real data. The genes identified will be studied to confirm their relevance to diabetes in the literature. Newly identified genes will be recommended to biology researchers for further biological study. Research results will be submitted to various scientific conferences and journals for publication.

Year	Target	Actual
2008	0	2

V(G). State Defined Outcomes**V. State Defined Outcomes Table of Content**

O No.	OUTCOME NAME
1	The short term results will be the identification of the genes to be associated with diabetes and the investigators' knowledge and experience with diabetes and gene analysis. Long term results would be (1) prevention and control of diabete and (2) methods developed that can be applied for prognosis of many other diseases.

Outcome #1**1. Outcome Measures**

The short term results will be the identification of the genes to be associated with diabetes and the investigators' knowledge and experience with diabetes and gene analysis. Long term results would be (1) prevention and control of diabetes and (2) methods developed that can be applied for prognosis of many other diseases.

2. Associated Institution Types

- 1862 Research

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	2	2

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

Our approaches bring a new and exciting start for fuzzy-set-theory, a theory that has been applied more and more in all aspects of sciences, to differential analysis. We are also one of the first to conduct microarray analysis with fuzzy approaches. This project also provides students with great research experiences and trainings which contribute to preparing them for their career.

What has been done

In this project, we have developed several new methodologies in analyzing gene microarray data. All of these methodologies are fuzzy-set-theory based. Most of them are for differential analysis. Traditionally, statistical tools are the only tools used for this. Our approaches brings a new and exciting start for fuzzy-set-theory, a theory that has been applied more and more in all aspects of sciences, to differential analysis.

Results

This project is successful in terms of methodology development, biology findings, publication and student involvement. This project provides an excellent opportunity for both graduate and undergraduate students to work in one of the most promising interdisciplinary fields: bioinformatics. In this project, students have been able to conduct research under the guidance of the PI and other professors and work in a multi-institutional and multi-disciplinary team. With this experience, students were able to establish their careers in this field. One of the previous students successfully found a position as a junior professor at an institution, while another one got a job from a company in this field immediately after complete of his education. Two of the previous undergraduate students continue to graduate programs.

4. Associated Knowledge Areas

KA Code	Knowledge Area
901	Program and Project Design, and Statistics
903	Communication, Education, and Information Delivery

V(H). Planned Program (External Factors)**External factors which affected outcomes**

- Other ()

Brief Explanation**V(I). Planned Program (Evaluation Studies and Data Collection)****1. Evaluation Studies Planned**

- Other (development of new methodologies)

Evaluation Results

In this project, several new methodologies in analyzing gene microarray data were developed. All of these methodologies are fuzzy-set-theory-based.

Key Items of Evaluation

Program #2

V(A). Planned Program (Summary)

1. Name of the Planned Program

Improving Plant Food (Fruit, Vegetable and Whole Grain) Availability and Intake in Older Adults

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
703	Nutrition Education and Behavior	100%		100%	
	Total	100%		100%	

V(C). Planned Program (Inputs)

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

Year: 2008	Extension		Research	
	1862	1890	1862	1890
Plan	0.0	0.0	1.9	0.0
Actual	0.0	0.0	1.0	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
0	0	130892	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
0	0	39102	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

Upon completion of the survey instrument designed and validated by the research team (to determine the extent to which senior adults ate quantities of fruits, vegetables, and whole grains as recommended by USDA guidelines; the general level of nutritional knowledge and particular knowledge related to health benefits of fruits, vegetables, and whole grains; how nutritional knowledge and diagnosis of illness affect food choices and eating behaviors; and how food choices and eating behaviors are affected by significant life changes other than diagnosis of illness), subjects were invited to participate in discussion sessions related to the content of the survey. Questions were answered and information was disseminated in the form of pamphlets and lists of electronic and hard copy resources. The research team developed, organized and presented nutrition information on behalf of the University of the District of Columbia at the annual city wide District of Columbia NBC4 Health Exposition in January 2008 and 2009. During the life of the project, the research associate provided statistical consultation with the Cooperative Extension Service.

2. Brief description of the target audience

Adult men and women over 65 years of age who live in Metropolitan Washington, D.C.

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	0	0	0	0
2008	0	0	0	0

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

Patent Applications Submitted

Year	Target
Plan:	0
2008 :	0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

	Extension	Research	Total
Plan	0	0	
2008	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Assessment of nutritional risk is measured by a validated survey and a seven day food diary, both of which collect quantitative data; and a cognitive interview protocol that collects qualitative data. Additionally, curriculum will be developed for various workshops, nutrition related activities, cooking demonstrations, train the trainer programs, health fairs, community participation, field trips and seminars. Fact sheets, newsletters and brochures will be developed and disseminated.

Year	Target	Actual
2008	0	1

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O No.	OUTCOME NAME
1	Number of subjects who are exposed to information about good nutrition in the process of their participation.
2	Number of participants who exercise and experience slow weight loss and better glycemic controls.

Outcome #1**1. Outcome Measures**

Number of subjects who are exposed to information about good nutrition in the process of their participation.

2. Associated Institution Types

•1862 Research

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	250	100

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

This study was conducted to determine the extent to which senior adults ate quantities of fruits, vegetables, and whole grains as recommended by USDA guidelines; the general level of nutritional knowledge and particular knowledge related to health benefits of fruits, vegetables, and whole grains; how nutritional knowledge and diagnosis of illness affect food choices and eating behaviors; and how food choices and eating behaviors are affected by significant life changes other than diagnosis of illness.

What has been done

Subjects were invited to participate in discussion sessions related to the content of the survey. Questions were answered and information was disseminated in the form of pamphlets and lists of electronic and hard copy resources. The research team developed, organized and presented nutrition information on behalf of the University of the District of Columbia at the annual city wide District of Columbia NBC4 Health Exposition in January 2008 and 2009. During the project, the research associate provided statistical consultation with CES.

Results

Subjects completed the survey instrument through an extensive interview by a research assistant. Cognitive interview techniques were used to acquire rich input from each subject. Each interview enabled the opportunity for subjects to ask individual questions and to receive individual information. During post interviews subjects reported: changes in nutritional knowledge including but not limited to: nutrient and micronutrient content of foods; portion sizes; the role of supplements; food choices, (especially of fruits, vegetables, and whole grains) related to obesity and illness. Later self reported changes in behavior included: reduction of portion sizes; increased frequency of fruits vegetables, and whole grain products.

4. Associated Knowledge Areas

KA Code	Knowledge Area
703	Nutrition Education and Behavior

Outcome #2**1. Outcome Measures**

Number of participants who exercise and experience slow weight loss and better glycemic controls.

2. Associated Institution Types

•1862 Research

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	95	0

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

Diagnosis of illness together with nutritional knowledge are significantly stronger motivations for change in eating behavior than nutritional knowledge alone. Other significant life changes including death of a spouse, change in level of physical activity, change in living arrangements (moving in with adult children, moving into a nursing home) are significant indicators of changes in eating behaviors. Interventions should be aggressively aimed at preventive health care so that nutritional knowledge will prevent or delay diagnosis of illnesses. Support for older adults who experience specific life changes should include nutritional counseling.

What has been done

Subjects completed the survey instrument through an extensive interview by a research assistant. Cognitive interview techniques were used to acquire rich input from each subject. Each interview enabled the opportunity for subjects to ask individual questions and to receive individual information.

Results

During post interviews subjects reported: changes in nutritional knowledge including but not limited to: nutrient and micronutrient content of foods; portion sizes; the role of supplements; food choices, (especially of fruits, vegetables, and whole grains) related to obesity and illness. Later self reported changes in behavior included: reduction of portion sizes; increased frequency of fruits vegetables, and whole grain products.

4. Associated Knowledge Areas

KA Code	Knowledge Area
703	Nutrition Education and Behavior

V(H). Planned Program (External Factors)**External factors which affected outcomes**

- Other (family & social support)

Brief Explanation

No major changes were reported in physical activity. The lack of family and/or social support may attribute to the lack of action by the participants.

V(I). Planned Program (Evaluation Studies and Data Collection)**1. Evaluation Studies Planned**

- Before-After (before and after program)
- During (during program)
- Case Study

Evaluation Results

During post interviews subjects reported changes in nutritional knowledge. Later self-reported changes in behavior included reduction in portion sizes and increased frequency of fruits, vegetables, and whole grains in diet.

Key Items of Evaluation

Program #3

V(A). Planned Program (Summary)

1. Name of the Planned Program

Water Environment Studies in Schools Teacher Training 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
903	Communication, Education, and Information Delivery	100%		100%	
	Total	100%		100%	

V(C). Planned Program (Inputs)

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

Year: 2008	Extension		Research	
	1862	1890	1862	1890
Plan	0.0	0.0	2.0	0.0
Actual	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
0	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
0	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

Unfortunately, this non Hatch research project did not receive external funding as it had in recent years. Thus, the teacher training program was suspended for 2008.

2. Brief description of the target audience

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	0	0	0	0
2008	0	0	0	0

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

Patent Applications Submitted

Year	Target
Plan:	0
2008 :	0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

	Extension	Research	Total
Plan	0	0	
2008	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- This project will established a comprehensive training program; a follow-up for both in-school as well as public engagement; a city-wide conference; provide seat hours and documentation for inclusion in Portfolio for Local and National Certification; a set of publications that will includes: an Activity Guide consisting of teachers selections and writing; a Trainer's Manual; Fact Sheets, Brochures, Videos, and Pictures; and a Website design. Year two and three are expected to expand the city-wide conference to national and international venues; and launch a significant and excellently designed website. Involvement in In-school and community center programs.

Not reporting on this Output for this Annual Report

V(G). State Defined Outcomes**V. State Defined Outcomes Table of Content**

O No.	OUTCOME NAME
1	Number of teachers the project enables to design and implement a plan and process for restoring the River and promote its popularity to the general public as well as to the students.
2	Number of projects implemented by schools, churches, businesses, and independent citizens that can conserve, maintain, and beautify the environment.

Outcome #1

1. Outcome Measures

Number of teachers the project enables to design and implement a plan and process for restoring the River and promote its popularity to the general public as well as to the students.

Not reporting on this Outcome for this Annual Report

Outcome #2

1. Outcome Measures

Number of projects implemented by schools, churches, businesses, and independent citizens that can conserve, maintain, and beautify the environment.

Not reporting on this Outcome for this Annual Report

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Economy
- Appropriations changes

Brief Explanation

The program was suspended due to lack of funding from external sources.

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

1. Evaluation Studies Planned

- Retrospective (post program)
- During (during program)

Evaluation Results

{No Data Entered}

Key Items of Evaluation

{No Data Entered}

Program #4

V(A). Planned Program (Summary)

1. Name of the Planned Program

Cancer Prevention and Control Strategies for a Healthier DC Community

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
901	Program and Project Design, and Statistics	50%		50%	
903	Communication, Education, and Information Delivery	50%		50%	
	Total	100%		100%	

V(C). Planned Program (Inputs)

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

Year: 2008	Extension		Research	
	1862	1890	1862	1890
Plan	0.0	0.0	0.7	0.0
Actual	0.0	0.0	0.3	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
0	0	68355	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
0	0	39102	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 overall goal of cancer prevention and control in the African American population of the District of Columbia was addressed by 1) conducting a series of focus groups using seniors (individuals from 4 different sites in Washington, D.C. - one in NW, NE, SE, and SW) in order to determine the sources (e.g. mass media, printed publications and programs and lectures on cancer) that are responsible for their views on cancer prevention and control and to examine these retrieved sources to determine if they are culturally sensitive and linguistically appropriate for the African American senior population in the District of Columbia, to understand their content; 2) using qualitative data analysis to analyze transcripts of taped focus group sessions and to use the themes emerging to suggest or design appropriate literature and a series of featured activities on cancer prevention and control that would be the most effective means of promoting cancer prevention and control behavior in the African American population of the District of Columbia; and 3) implementing four appropriate featured activities at each focus group site as an intervention and at each featured activity select at least 30 participants to follow for a period of one year. Each individual will a) agree to complete an advise consent form, a pre-survey and post-survey; b) to make changes in their diets; c) follow an exercise routine, and alter specific health behaviors; and d) to attend support groups for one year following the featured activity.

2. Brief description of the target audience

The stakeholders and consumers of this program are the citizens of the District of Columbia. In the short term, the senior citizens over 55 years of age. In the long-term, all of the residents of the District of Columbia will be impacted.

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	0	0	0	0
2008	0	0	0	0

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

Patent Applications Submitted

Year	Target
Plan:	0
2008 :	0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

	Extension	Research	Total
Plan	0	0	
2008	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Conduct a series of focus groups in order to determine the sources responsible for their views on cancer prevention and control. understand their content. Use qualitative data analysis method to analyze transcripts of taped focus groups sessions and conduct appropriate featured activities as an intervention and selected 20 participants from six of these activities who are willing to complete post surveys at six months and one year following the featured activity to obtain any change in cancer prevention behavior resulting from the cancer education exposure.

Year	Target	Actual
2008	1	2

V(G). State Defined Outcomes**V. State Defined Outcomes Table of Content**

O No.	OUTCOME NAME
1	Number of participants interviewed by professionals to obtain previous cancer information, behavior exploration, health services, etc.
2	Number of participants who adopt cancer prevention and control and decrease or eliminate risk behavior.

Outcome #1**1. Outcome Measures**

Number of participants interviewed by professionals to obtain previous cancer information, behavior exploration, health services, etc.

2. Associated Institution Types

•1862 Research

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	25	42

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

This is an pilot study to determine the current perceptions that African American seniors have on cancer, in order to implement cancer interventions and reduce the disproportionate rate of cancer among the African American populations of the District of Columbia.

What has been done

Four focus groups were conducted during which preliminary data sheets were completed followed by participation in a question and answer session. After analysis of the data from the focus groups, a major emerging theme found was that many people were unaware of how to engage in a cancer prevention life style. They cited the need for constant reminders to participate in cancer prevention routines; to remain abreast of the importance of annual screening dates; and assistance in finding appropriate and affordable screening sites.

Results

Action was taken to implement their suggestions. A buddy-system was put in place to serve as a motivational tool. Calendars were constructed with essential data on cancer. These calendars contained reminders for cancer screenings and procedures for applying cancer prevention lifestyle practices. It was suggested that appropriate 'show-and-tell' featured activities occur at each focus group-site after which individuals would be asked to agree to participate in an intervention for a period of 1 year. This intervention was implement in the manner suggested by the focus groups. During this intervention period, the participants made changes in their diet, followed exercise routines, and alter specific negative-health behaviors.

4. Associated Knowledge Areas

KA Code	Knowledge Area
901	Program and Project Design, and Statistics
903	Communication, Education, and Information Delivery

Outcome #2**1. Outcome Measures**

Number of participants who adopt cancer prevention and control and decrease or eliminate risk behavior.

2. Associated Institution Types

•1862 Research

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	25	42

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

After analysis of the data from the focus groups, a major emerging theme found was that many people were unaware of how to engage in a cancer prevention life style. They cited the need for constant reminders to participate in cancer prevention routines and to remain abreast of the importance of annual screening dates. Additionally, they required assistance in finding appropriate and affordable screening sites.

What has been done

Action was taken to implement their suggestions. A buddy-system was put in place to serve as a motivational tool. Calendars were constructed with essential data on cancer. These calendars contained reminders for cancer screenings and procedures for applying cancer prevention lifestyle practices.

Results

It was suggested that appropriate 'show-and-tell' featured activities occur at each focus group-site after which individuals would be asked to agree to participate in an intervention for a period of 1 year. This intervention was implement in the manner suggested by the focus groups. During this intervention period, the participants made changes in their diet, followed exercise routines, and alter specific negative-health behaviors. During this one year period, the four different groups met monthly for 6 months of support-group meetings. At these meetings, the participants learned how to engage in a healthy lifestyle. Participants were given information on proper nutrition and exercise. Information on screening, clinical trials and other cancer information were given to the participants all of whom had buddies.

4. Associated Knowledge Areas

KA Code	Knowledge Area
901	Program and Project Design, and Statistics
903	Communication, Education, and Information Delivery

V(H). Planned Program (External Factors)**External factors which affected outcomes**

- Economy
- Appropriations changes

Brief Explanation**V(I). Planned Program (Evaluation Studies and Data Collection)****1. Evaluation Studies Planned**

- Before-After (before and after program)
- During (during program)

Evaluation Results

{No Data Entered}

Key Items of Evaluation

{No Data Entered}

Program #5

V(A). Planned Program (Summary)

1. Name of the Planned Program

Juvenile Violent Crime Patterns

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
803	Sociological and Technological Change Affecting Individuals, Families and Communities	50%		50%	
903	Communication, Education, and Information Delivery	50%		50%	
	Total	100%		100%	

V(C). Planned Program (Inputs)

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

Year: 2008	Extension		Research	
	1862	1890	1862	1890
Plan	0.0	0.0	1.1	0.0
Actual	0.0	0.0	0.3	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
0	0	68355	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
0	0	39102	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

Acquiring street crime data from the Metropolitan Police Department data; securing electronic homicide database information; performing spatial regression techniques at the block group and tract level; personal interviews with community and law enforcement representatives; use of the Exploratory Spatial Data Techniques process for the analysis of data; and review of law enforcement initiatives.

2. Brief description of the target audience

The results yielded at the end of the research study are targeted toward policy makers and special programs that are geared toward youth violence prevention and reduction of violent crimes committed by youths.

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	0	0	0	0
2008	0	0	0	0

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

Patent Applications Submitted

Year	Target
Plan:	0
2008 :	0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

	Extension	Research	Total
Plan	0	0	
2008	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Acquiring street crime data from the Metropolitan Police Department data; securing electronic homicide database information; performing spatial regression techniques at the block group and tract level; personal interviews with community and law enforcement representatives; use of the Exploratory Spatial Data Techniques process for the analysis of data; and review of law enforcement initiatives.

Year	Target	Actual
2008	0	0

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O No.	OUTCOME NAME
1	Number of criminal justice majors who obtain exposure to basic research.

Outcome #1**1. Outcome Measures**

Number of criminal justice majors who obtain exposure to basic research.

2. Associated Institution Types

- 1862 Research

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	25	4

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

Two undergraduate and two graduate students participated in the research project, which provided them the opportunity to develop research skills. In addition, the project provided for Geographic Information Systems (GIS) training to some of the students who worked on the project.

What has been done

This training consisted of both a theoretical understanding of concepts associated with GIS as well as a practical application of its uses in social science research. The students' participation in the project provided valuable assistance to reaching the project's goals and it also provided the students with valuable research experience.

Results

The students that have participated in this research process include both graduate and undergraduate students. The project staff also forged working relationships with Commander Jordan of the Juvenile Crime Division of Metropolitan Police Department (MPD), the executive staff of the National Organization of Black Law Enforcement (NOBLE) national office, as well as the local chapter members. The working relationships established with NOBLE and MPD resulted in the attainment of data for the project. In addition, the project staff assisted with data collection and analysis of information generated from a Youth Town Hall meeting in Washington, DC. The information generated from the town hall meeting was included in a paper that was presented at NOBLE's national conference in July 2008.

4. Associated Knowledge Areas

KA Code	Knowledge Area
903	Communication, Education, and Information Delivery
803	Sociological and Technological Change Affecting Individuals, Families and Communities

V(H). Planned Program (External Factors)**External factors which affected outcomes**

- Other (Non availability of data)

Brief Explanation

There were slight modifications to the project. The project originally sought to examine the influence of police activities on the changing patterns of juvenile violent crime. This proved to be difficult, as data on the specific efforts of the police were not readily available for public use. Hence, this aspect of the project was eliminated. Instead the project focused on examining the relationship between two challenges faced by the District of Columbia, juvenile violent crime and drug market activity.

V(I). Planned Program (Evaluation Studies and Data Collection)**1. Evaluation Studies Planned**

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

Evaluation Results

{No Data Entered}

Key Items of Evaluation

{No Data Entered}

Program #6

V(A). Planned Program (Summary)

1. Name of the Planned Program

A Model of Macrophage Particulate Matter Air Pollution Interactions

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
723	Hazards to Human Health and Safety	100%		100%	
	Total	100%		100%	

V(C). Planned Program (Inputs)

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

Year: 2008	Extension		Research	
	1862	1890	1862	1890
Plan	0.0	0.0	0.6	0.0
Actual	0.0	0.0	0.2	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
0	0	68354	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
0	0	39102	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

There is a strong association between asthma and air pollution. Due to the urban nature of the District of Columbia, the city's residents have elevated exposure to air pollutants and this may increase the risk of asthma among District of Columbia residents. This proposal will develop an *in vitro* model to study the biological effects of one form of air pollution, particulate matter. By assessing the cellular effects of particulate matter, this proposal will contribute to the current research on the relationship between asthma and particulate air pollution.

The data generated from this work will be presented at scientific meetings such as the annual joint meeting of the National Institute of Science and the Beta Kappa Chi Scientific Honor Society. The data will also be submitted to appropriate peer-reviewed journals in the form of manuscripts for publication.

2. Brief description of the target audience

There are two target audiences for the results generated by this proposal:

- a) The biomedical research community will be targeted due to the potential of this model to both screen candidate anti-asthma drugs and further investigate the cellular nature of macrophage responses to particulate air pollution; and
-) Public health officials will be targeted due to the potential of this model to identify local areas where high concentrations of toxic particulate air pollution exists.

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	0	0	0	0
2008	0	0	0	0

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

Patent Applications Submitted

Year	Target
Plan:	0
2008 :	0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

	Extension	Research	Total
Plan	0	0	
2008	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Once a model has been established, it can be used to screen compounds that maybe effective in the treatment of asthma or to identify areas with toxic particulate air pollution. The data generated from this work will be analyzed and the results presented at scientific meetings such as the annual joint meeting of the National Institute of Science and the Beta Kappa Chi Scientific Honor Society. The data will also be submitted to appropriate peer-reviewed journals in the form of manuscripts for publication.

Year	Target	Actual
2008	1	0

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O No.	OUTCOME NAME
1	Development of an in vitro model of the biological effects of particulate air pollution.

Outcome #1**1. Outcome Measures**

Development of an in vitro model of the biological effects of particulate air pollution.

2. Associated Institution Types

- 1862 Research

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	1	0

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

There is a strong association between asthma and air pollution. Due to the urban nature of the District of Columbia, the city's residents have elevated exposure to air pollutants and this may increase the risk of asthma among District of Columbia residents.

What has been done

The PI hired two undergraduate Biology students to assist her in her research. Both students were participants in the University of the District of Columbia's (UDC) National Science Foundation-funded Science Technology Engineering and Mathematics (STEM) Program and the PI determined that working with her would provide the students with valuable hands-on research experience. As the requested research supplies had not yet arrived, the PI directed the students to conduct library-based research in the subject area of the proposal.

Results

This proposal has been used as a foundation for the preparation of larger grants. In two separate grant-writing workshops [Council on Undergraduate Research (CUR) Proposal Writing Institute, Kearney NE, July 2007 and Quality Education for Minorities (QEM) Network Workshop, September 2007]. The underlying premise was considered to be sound, and, with addition of preliminary data, the expanded proposal should be competitive with agencies such as the National Science Foundation of the Environmental Protection Agency.

4. Associated Knowledge Areas

KA Code	Knowledge Area
723	Hazards to Human Health and Safety

V(H). Planned Program (External Factors)**External factors which affected outcomes**

- Other (modification to proposal; non availability of supplies)

Brief Explanation

Another researcher familiar with this area of research gave valuable suggestions to improve the research project such as the inclusion of an inflammatory control, which had been lacking from the original proposal. The PI incorporated the concept into the project. While waiting for laboratory supplies to arrive, the PI took a student with her the Lombardi Comprehensive Cancer Center (LCCC) at Georgetown University where the PI has a collaborative research project with one of the cancer researchers as part of a National Cancer Institute (NCI)-funded UDC-LCCC research partnership. While at the LCCC, the student was able to interact with investigators performing cutting-edge cancer research.

V(I). Planned Program (Evaluation Studies and Data Collection)**1. Evaluation Studies Planned**

- Retrospective (post program)

Evaluation Results

{No Data Entered}

Key Items of Evaluation

{No Data Entered}

Program #7**V(A). Planned Program (Summary)****1. Name of the Planned Program**

Integrated Pest Management in Urban Gardens

V(B). Program Knowledge Area(s)**1. Program Knowledge Areas and Percentage**

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
216	Integrated Pest Management Systems	100%		100%	
	Total	100%		100%	

V(C). Planned Program (Inputs)**1. Actual amount of professional FTE/SYs expended this Program**

Year: 2008	Extension		Research	
	1862	1890	1862	1890
Plan	0.0	0.0	1.2	0.0
Actual	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
0	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
0	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**

At present, AES does not have a formal program in Integrated Pest Management (IMP). Funding previously received for this program has ended. Our lead agronomist has a basic knowledge of IMP, but not enough to develop and lead a program in this area. This program will most likely continue in the future under the auspices of CES.

2. Brief description of the target audience

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	0	0	0	0
2008	0	0	0	0

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

Patent Applications Submitted

Year	Target
Plan:	0
2008 :	0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

	Extension	Research	Total
Plan	0	0	
2008	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Presentation at SARE meeting. Workshops conducted for both vegetable and flower gardeners, providing instructions for monitoring insect and disease infestations and recommendations for control.

Not reporting on this Output for this Annual Report

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O No.	OUTCOME NAME
1	Number of program participants who practice learned techniques in their gardens.
2	Percentage of increase in the number of rooftop, vacant lots, and balcony gardens for food production and beautification.

Outcome #1

1. Outcome Measures

Number of program participants who practice learned techniques in their gardens.

Not reporting on this Outcome for this Annual Report

Outcome #2

1. Outcome Measures

Percentage of increase in the number of rooftop, vacant lots, and balcony gardens for food production and beautification.

Not reporting on this Outcome for this Annual Report

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Appropriations changes
- Other (Funding for program has ended)

Brief Explanation

Funding for this program in AES has ended. Future initiatives will be led by CES.

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

1. Evaluation Studies Planned

- Before-After (before and after program)

Evaluation Results

{No Data Entered}

Key Items of Evaluation

{No Data Entered}

Program #8

V(A). Planned Program (Summary)

1. Name of the Planned Program

Sustainable Agricultural Techniques for Growing Vegetables

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	100%		100%	
Total		100%		100%	

V(C). Planned Program (Inputs)

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

Year: 2008	Extension		Research	
	1862	1890	1862	1890
Plan	0.0	0.0	1.1	0.0
Actual	0.0	0.0	1.1	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
0	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
0	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
0	0	15000	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

In an effort to help DC residents grow vegetables in their limited garden areas and avoid the use of toxic pesticides, we have developed this urban gardening program in which gardeners are taught to use sustainable agricultural techniques such as resistant varieties, rotation and intercropping to control disease and insect infestation instead of inorganic chemicals and composted waste as soil amendments in lieu of inorganic commercial fertilizers. By using these sustainable agricultural techniques we are able to show gardeners that they can increase their productivity of vegetable crops in their small garden areas without harming these areas with toxic chemicals. We try to accomplish this aim by the following:

- (a) Establishing demonstration plots at our University Research Farm
- (b) Have field days in which gardeners are given hands on instruction on how to apply soil amendments, plant seedlings and maintain seed beds during the growing season.
- (c) Developing brochures for communicating technical information on growing vegetables in the Washington Metropolitan area.
- (d) Help new gardeners to establish seed beds and plant seedlings and show them how to maintain seed beds to obtain maximum productivity.

2. Brief description of the target audience

Our target audiences are our urban gardeners, who try to grow vegetables in their backyards, vacant lots and unused federal lands. They are mostly migrants from rural areas who are accustomed to having their fresh fruits and vegetables from local farms, supermarkets, farmers markets or their own farms. These individuals try to grow crops in gardens using the same techniques which they used when they were on their rural farms. Since these techniques are only applicable where land is not a limiting factor they may fail in urban gardens. Thus, through this project we teach them techniques such as inter row cropping, narrow spacing and planting cultivars which are adaptable to intense cropping systems. These gardeners also tend to be in lower income levels of our community and need to produce food in their gardens to help their limited budgets.

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	0	0	0	0
2008	0	0	0	0

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

Patent Applications Submitted

Year	Target
Plan:	0
2008 :	0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

	Extension	Research	Total
Plan	0	0	
2008	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Experiments, training sessions, demonstrations, field activities, and farm tours will be held for participants to teach them/update their knowledge of sustainable agricultural techniques to establish and maintain both vegetable and flower gardens. Also, there will be collaboration with a non-profit group to sponsor field days. Newsletters, brochures, and information documents (fact sheets) will be developed and disseminated in the community as well as educational materials and products.

Year	Target	Actual
2008	1	2

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O No.	OUTCOME NAME
1	Number of participants who have an increased knowledge of horticultural techniques.
2	Number of participants who are assisting community gardeners to establish and maintain gardens.

Outcome #1**1. Outcome Measures**

Number of participants who have an increased knowledge of horticultural techniques.

2. Associated Institution Types

•1862 Research

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	1	161

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

This project gives gardeners hands-on experience in using sustainable agricultural techniques in growing vegetables and at the same time increases the number of active gardeners. Also, this project helps to increase the number of gardeners we were able to involve in the public school system.

What has been done

The sustainable agriculture program jointly presented a workshop with the Teacher Training Institute five day program in which 9 teachers participated. Further, 150 middle school students were involved in mini-lectures, demonstrations, and hands-on activities for sustainable agriculture at the AES/CES Urban Agricultural Fair at the Muirkirk Research Farm facility in Beltsville, MD

Results

One of our teacher gardeners and a group of gardeners has now formed a company by the name of 'Food and Earth Systems International'. The group feels that one way to increase food production in our urban gardens is to develop a system that will extend the growing season. They feel that this can be achieved by taking the concept of cold frames one step further by building a solar shell.

4. Associated Knowledge Areas

KA Code	Knowledge Area
205	Plant Management Systems

Outcome #2**1. Outcome Measures**

Number of participants who are assisting community gardeners to establish and maintain gardens.

Not reporting on this Outcome for this Annual Report

V(H). Planned Program (External Factors)**External factors which affected outcomes**

- Appropriations changes
- Other ()

Brief Explanation**V(I). Planned Program (Evaluation Studies and Data Collection)****1. Evaluation Studies Planned**

- Retrospective (post program)

Evaluation Results

Key Items of Evaluation

Program #9

V(A). Planned Program (Summary)

1. Name of the Planned Program

Effect of Pelletized Maure on Vegetable Production and Vadose

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	100%		100%	
	Total	100%		100%	

V(C). Planned Program (Inputs)

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

Year: 2008	Extension		Research	
	1862	1890	1862	1890
Plan	0.0	0.0	1.1	0.0
Actual	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
0	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
0	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 Poultry Pellet Program which was a collaborative effort between the Agricultural Experiment Station and the Water Resources Institute has been temporarily halted because of some technical difficulties. However, plans are underway to reinstitute the project in FY 2010. We fully intend to continue to research the value of the Poultry Pellets as a valuable soil amendment and to see how it can be used so that water pollution can be avoided.

2. Brief description of the target audience

Our main target audience is the urban gardeners of the District of Columbia, lawn and other landscape operators and park services maintenance groups.

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	0	0	0	0
2008	0	0	0	0

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

Patent Applications Submitted

Year	Target
Plan:	0
2008 :	0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

	Extension	Research	Total
Plan	0	0	
2008	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Vegetable crops response to growth and yield of vegetables, the correct amount of poultry pellets to be applied, measurements of the amount of nutrients the poultry pellets produce for crop growth and amounts to be applied to obtain optimum crop growth and avoid runoff or infiltration into our water ways.

Not reporting on this Output for this Annual Report

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O No.	OUTCOME NAME
1	Number of farmers who have experienced productivity from the use of pelletized manure on vegetable crops.

Outcome #1

1. Outcome Measures

Number of farmers who have experienced productivity from the use of pelletized manure on vegetable crops.

Not reporting on this Outcome for this Annual Report

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Appropriations changes
- Other (Technical difficulties; project temporarily suspended)

Brief Explanation

Plans are underway to reinstitute the project in FY 2010. We fully intend to continue to research the value of the Poultry Pellets as a valuable soil amendment and to see how it can be used so that water pollution can be avoided.

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

1. Evaluation Studies Planned

- Retrospective (post program)

Evaluation Results

{No Data Entered}

Key Items of Evaluation

{No Data Entered}

Program #10

V(A). Planned Program (Summary)

1. Name of the Planned Program

Youth Environmental Life Sciences

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
903	Communication, Education, and Information Delivery	100%		100%	
	Total	100%		100%	

V(C). Planned Program (Inputs)

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

Year: 2008	Extension		Research	
	1862	1890	1862	1890
Plan	1.9	0.0	0.5	0.0
Actual	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
0	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
0	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 Adopt-A-Block program was suspended.

2. Brief description of the target audience

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	0	0	0	0
2008	0	0	0	0

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

Patent Applications Submitted

Year	Target
Plan:	0
2008 :	0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

	Extension	Research	Total
Plan	0	0	
2008	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- We will show the correlation between the Adopt-Block Topical area's and the District of Columbia Public School standards for Life Science; by doing this the course materials provided should be quickly adopted and implemented in the classroom; and Provide staff development sessions and comprehensive training to instructors, administrators and parent tutors. New lessons will be designed by the project instructors based on training, research, collaboration and partner contributions. At the end the students will have a student poster contest session.

Not reporting on this Output for this Annual Report

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O No.	OUTCOME NAME
1	Increase in student attendance in science classes.
2	Number of instructors to receive District recertification and State licensing while preparing for National certification.

Outcome #1

1. Outcome Measures

Increase in student attendance in science classes.

Not reporting on this Outcome for this Annual Report

Outcome #2

1. Outcome Measures

Number of instructors to receive District recertification and State licensing while preparing for National certification.

Not reporting on this Outcome for this Annual Report

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Natural Disasters (drought, weather extremes, etc.)
- Appropriations changes

Brief Explanation

Program was suspended.

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

1. Evaluation Studies Planned

- Retrospective (post program)

Evaluation Results

Key Items of Evaluation

Program #11

V(A). Planned Program (Summary)

1. Name of the Planned Program

4-H and Youth Development

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
806	Youth Development	100%		100%	
	Total	100%		100%	

V(C). Planned Program (Inputs)

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

Year: 2008	Extension		Research	
	1862	1890	1862	1890
Plan	1.2	0.0	0.0	0.0
Actual	3.1	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
52696	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
52696	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 4-H and the Center for Youth Development program offers "learn by doing" experiences to youth allowing them to practice skills in varied subject matter, including teamwork, leadership and citizenship. This year progress was made in the 4-H program with the acquisition of new staff, print materials, and supplies we were able to provide a five week summer camp program, and new 4-H clubs were established in schools and community clubs continued with more support.

2. Brief description of the target audience

Primarily Youth, but also adults and seniors.

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	100	0	5500	11000
2008	3000	12000	23763	47192

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

Patent Applications Submitted

Year	Target
Plan:	0
2008 :	0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

	Extension	Research	Total
Plan	0	0	
2008	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Children improve confidence.

Year	Target	Actual
2008	2500	123763

Output #2

Output Measure

- Children discover new opportunities and learn the essential elements of team work.

Year	Target	Actual
2008	5000	23763

Output #3

Output Measure

- Children learn responsibility to others and success through persistence.

Year	Target	Actual
2008	4000	23763

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O No.	OUTCOME NAME
1	Increase in the number of 4-H clubs throughout the city.
2	Increase in the number of 4-H participants representing Washington, DC at the 4-H National Congress Annual Program.
3	Number of 4-H participants returning to volunteer in the program after high school.

Outcome #1**1. Outcome Measures**

Increase in the number of 4-H clubs throughout the city.

2. Associated Institution Types

- 1862 Extension
- 1862 Research

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	10	23

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

In the District of Columbia we are faced with new policies that are geared toward excluding outside programs that do not lead to enhancing standards for children in District of Columbia Public Schools. Our program enhances standards, we just have to show the school system how we are helpful. They are catching on to our programs value. Studies show that inner city youth need connections with adults in structures programs to help them find their potential and avoid trouble.

What has been done

We are reaching new families through the 4-H Newsletter The Pen Pal, we have updated our 4-H website and continue to make improvements on the site. We have distributed new print materials in the community. New staff has been hired that enabled us to reach more children and adults interested in participating in our program. We implemented our five week summer camp program last year allowing youth to explore their interest and potential. We hosted youth in the Agriculture Experiment Station Cooperative Extension Service Agricultural Fair at the Murkirk Farm. We have started twelve new 4-H clubs in schools and the community.

Results

More youth are involved in the 4-H program and more clubs are forming and maintaining.

4. Associated Knowledge Areas

KA Code	Knowledge Area
806	Youth Development

Outcome #2**1. Outcome Measures**

Increase in the number of 4-H participants representing Washington, DC at the 4-H National Congress Annual Program.

Not reporting on this Outcome for this Annual Report

Outcome #3**1. Outcome Measures**

Number of 4-H participants returning to volunteer in the program after high school.

2. Associated Institution Types

- 1862 Extension
- 1862 Research

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	500	15

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

We currently have volunteer leaders that participated in the 4-H DC Reads program with our youth that were in the 4-H summer camp program as camp counselors. We have a few adults that were former 4-H leaders. However; the youth that were in the 4-H program are going to college after high school and we need a few more years to measure outcomes. They are not keeping in contact with us regarding their interest in volunteering. We are having challenges reaching former 4-H youth.

What has been done

We will put a link on our web page entitled 'Where are they Now' allowing previous 4-Hers to log in and tell us what they are doing today. We will invite them to volunteer to work with our current clubs. Our web page is being updated.

We are conducting a monthly volunteer leaders trainings that allow the public to come into the office for training. We will also be advertising our programs more aggressively.

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
806	Youth Development

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Appropriations changes
- Government Regulations
- Competing Public priorities

Brief Explanation

4-H program has traditionally been operated by one or two staff persons attempting to serve the entire District of Columbia. With the addition of three new staff persons and the marketing specialist working to help us update our information and get our program highlighted in the community we are excited about our new accomplishments and future plans.

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

1. Evaluation Studies Planned

- Before-After (before and after program)

Evaluation Results

Pre and post testing, demonstrations about what they have learned and surveys from adults' leaders are used to evaluate the progress of programs and activities.

In summer camp participants are given the questions the first day of the summer camp program they selected. They will make presentation in a closing event illustrating the things that they have learned during the camp program and they will complete pre and post testing as well.

Key Items of Evaluation

Program #12

V(A). Planned Program (Summary)

1. Name of the Planned Program

D.C. Reads

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
806	Youth Development	100%		100%	
	Total	100%		100%	

V(C). Planned Program (Inputs)

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

Year: 2008	Extension		Research	
	1862	1890	1862	1890
Plan	3.5	0.0	0.0	0.0
Actual	1.8	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
39169	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
39169	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
31533	0	0	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

- DC Reads tutors (primarily college students) are hired and trained to work with youth identified through testing as being in need of assistance to read and comprehend reading material better.
- Youth are tested to determine potential reading problems.
- Tutors travel to assigned schools or after-school programs Monday through Friday to work with assigned students in a variety of interactive and fun activities designed to improve reading skills.
- Structured and repetitive training processes help to ensure individual success no matter at what level the students enter the program.
- Students are retested to determine how much their reading skills have improved.

2. Brief description of the target audience

- youth•adults•senior citizens•military personnel•all residents of the District of Columbia

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	30	0	500	0
2008	40	0	226	5000

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

Patent Applications Submitted

Year	Target
Plan:	0
2008 :	0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

	Extension	Research	Total
Plan	0	0	
2008	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- DC Reads tutors (primarily college students) are hired and trained to work with youth identified through testing as being in need of assistance to read and comprehend reading material better. Youth are tested to determine potential reading problems. Tutors travel to assigned schools or after-school programs Monday through Friday to work with assigned students in a variety of interactive and fun activities designed to improve reading skills.

Year	Target	Actual
2008	4000	0

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O No.	OUTCOME NAME
1	Number of participants having greater success in school.
2	Percentage of increase in participation of students in the DC Reads Program.
3	Percentage of students who increased their reading skills.

Outcome #1**1. Outcome Measures**

Number of participants having greater success in school.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	3000	224

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

We were able to work with our regular schools in the DC Reads Program last year. However; the children attending those schools were moved to new locations and the schools were renamed. We are working with three new Principals and some new staff. Our program is moving in a positive direction and reaching District of Columbia youth as we had planned.

What has been done

We had to forge new partnerships with newly assigned after school coordinators. We had to complete a new vetting process to get into any District of Columbia Public school.

Results

We are serving schools in the District of Columbia and will continue our work under the new system.

4. Associated Knowledge Areas

KA Code	Knowledge Area
806	Youth Development

Outcome #2**1. Outcome Measures**

Percentage of increase in participation of students in the DC Reads Program.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	75	3

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

Because of changes in the District of Columbia Public school system we were limited in increasing our programs until the beginning of 2009.

What has been done

the District of Columbia school system and working with our youth. We Fortunately we completed the vetting requirements and continued serving children. We do not tutor adults but the tutors that work with the children are adult college students. Tutor that are majoring in disciplines related to education, social work, family law, history etc. gain practical knowledge about working with children in our public school system.

Results

We will begin the next school year as a program already approved to participate in the school system programs.

4. Associated Knowledge Areas

KA Code	Knowledge Area
806	Youth Development

Outcome #3

1. Outcome Measures

Percentage of students who increased their reading skills.

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	50	80

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Students receiving tutoring in the DC Reads program all showed gains in their reading abilities. 80% of participants in the program reached grade level reading.

What has been done

The children that did not reach grade level reading did not come to the program on a regular basis.

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
806	Youth Development

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Appropriations changes
- Government Regulations

Brief Explanation

The new Chancellor of the District of Columbia public schools, Chancellor Rhee, completed a review of each school and learned that some schools had more than twenty outside programs. Not all of the programs served the children in the way that they wanted them to be served. So this school year, each program had to complete a vetting process and be approved to be a part of the after school program. We were approved.

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

1. Evaluation Studies Planned

- Before-After (before and after program)

Evaluation Results

The Slossan Examination is implemented as a pre and post test for the children in the 4-H DC Reads Program.

This tool allows us to see where the child is before we implement our program activities. The Slossen is also used as a post testing tool. Site coordinators and parents are surveyed to gain their perspective the programs progress. When warranted Program procedures are policies are put in place to improve program delivery.

Key Items of Evaluation

We also used surveys for adult participants. We do not tutor adults but the tutors that work with us completed evaluations as do the teachers and parents. Our tutors are primarily college students.

Program #13

V(A). Planned Program (Summary)

1. Name of the Planned Program

Water Quality Monitoring and Education

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
111	Conservation and Efficient Use of Water	100%		100%	
	Total	100%		100%	

V(C). Planned Program (Inputs)

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

Year: 2008	Extension		Research	
	1862	1890	1862	1890
Plan	1.0	0.0	0.0	0.0
Actual	1.7	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
64169	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
64169	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
13927	0	0	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

The Water Quality Education Program in CES was established to serve as an unbiased monitor of DC water quality and provide educational workshops and activities to prevent or minimize the reoccurrence of these problems. Information and education about water quality issues are critical to maintain and enhance the quality of life of residents in the District of Columbia. In January 2004, the Washington Post revealed that the D.C Water and Sewer Authority (WASA) and U.S Environmental Protection Agency (EPA) did not inform the DC residents of lead level in DC's drinking water for more than a year. Contaminated drinking water is harmful for human health. Exposure to lead contamination for example, causes reading and learning disabilities, attention deficit, liver and kidney problems. Bacteria in water cause typhoid fever, hepatitis, cholera, dysentery diarrhea and many other health problems.

2. Brief description of the target audience

All residents in the District of Columbia.

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	7000	0	0	0
2008	1392	0	290	0

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

Patent Applications Submitted

Year	Target
Plan:	0
2008 :	0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

	Extension	Research	Total
Plan	0	0	
2008	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Collaborate and work with Mid-Atlantic Regional Water Program. Complete research-based fact sheets on water quality.

Not reporting on this Output for this Annual Report

Output #2

Output Measure

- Water Quality workshops/activities; Curriculum development for various workshops; Fact sheets, and newsletters

Not reporting on this Output for this Annual Report

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O No.	OUTCOME NAME
1	Number of participants who gained knowledge on water quality.
2	Number of participants who understand the value of water monitoring.
3	Percentage of the increased number of residents drinking Washington DC tap water.

Outcome #1**1. Outcome Measures**

Number of participants who gained knowledge on water quality.

2. Associated Institution Types

- 1862 Extension
- 1862 Research

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	6000	3183

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

Residents of the District of Columbia as well as local and federal government environmental health policy makers and enforcers are concerned about the rapid degradation of our drinking water sources and harm inflicted on the environmental health of the District.

What has been done

Water quality education workshops are conducted and informational materials distributed throughout the District to increase residents water quality knowledge which will eventually change behavior to improve the environmental conditions.

Results

90 Elementary school students pre-test 5%; post-test 80%
 200 High school students pre-test 15%; post-test 90%
 42 DC residents Ward 2, pre-test 8%; post-test 75%
 35 DC residents Ward 5, pre-test 10%; post test 90%
 8 DC residents ward 6, pre-test 2%; post-test 90%
 50 DC residents ward 7, pre-test 5%; post test 80%

4. Associated Knowledge Areas

KA Code	Knowledge Area
111	Conservation and Efficient Use of Water

Outcome #2**1. Outcome Measures**

Number of participants who understand the value of water monitoring.

2. Associated Institution Types

- 1862 Extension
- 1862 Research

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	6000	1682

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Residents of the District of Columbia as well as local and federal government environmental health policy makers and enforcers are concerned about the rapid degradation of our drinking water sources and harm inflicted on the environmental health of the District.

What has been done

A Water quality testing lab is being established to conduct random sampling and testing of surface, ground, and drinking water quality. Result will be shared with residents to increase water quality knowledge which will eventually change behavior to improve the environmental conditions.

Results

Various pieces of water testing lab equipment have been purchased and initial samplings have begun.

4. Associated Knowledge Areas

KA Code	Knowledge Area
111	Conservation and Efficient Use of Water

Outcome #3

1. Outcome Measures

Percentage of the increased number of residents drinking Washington DC tap water.

Not reporting on this Outcome for this Annual Report

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Appropriations changes
- Public Policy changes
- Government Regulations

Brief Explanation

Finding regular venues for workshops

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

1. Evaluation Studies Planned

- Before-After (before and after program)

Evaluation Results

Pre-test data show that both students and community residents in the District of Columbia do not know basic information regarding their drinking, ground and surface water quality;

Post-test data indicated that basic concepts were acquired after water quality education workshop; and

Allocating more funds to educate the community about their role in monitoring water quality is a critical issue that can lower water pollution and eventually reduce water quality treatment cost.

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Key Items of Evaluation

Increases awareness of risks associated with poor water quality;

- Increases knowledge regarding the functions of water to nutrition, health and the environment;
- Reduces environmental pollution;
- Reduces water treatment cost;
- Reduces public health risks; and
- Change public behavior to adopt managing water resources

Program #14

V(A). Planned Program (Summary)

1. Name of the Planned Program

Agriculture in the Classroom

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
704	Nutrition and Hunger in the Population	100%		100%	
	Total	100%		100%	

V(C). Planned Program (Inputs)

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

Year: 2008	Extension		Research	
	1862	1890	1862	1890
Plan	0.8	0.0	0.0	0.0
Actual	1.8	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
58640	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
58640	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

Eight workshop sessions taught by university and external experts in the field of agriculture is provided to reinforce the District of Columbia Public and Private Schools Standards of Learning and the goals/objectives of the National and Local Agriculture in the Classroom Program. The workshop sessions include an Orientation, Sustainable Agriculture and Careers, Six Hour Internet Course, Field Trip to the Agricultural Research Service (includes hands-on experiences in science and nutrition and tour of the facility), Internet Practicum and Teacher Presentations (teachers sharing individually developed lesson plans and exhibits). Following the workshop sessions, implementation of AITC, Celebrate National Ag Week and Ag Day, Classroom Observation to see "AITC" in action. Ending each year with student evaluations and teacher comments.

2. Brief description of the target audience

- District of Columbia teachers
- Students grades Pre-K-9

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	80	0	2000	0
2008	5000	5000	969	1542

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

Patent Applications Submitted

Year	Target
Plan:	0
2008 :	0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

	Extension	Research	Total
Plan	0	0	
2008	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- 8 workshops for teachers

Year	Target	Actual
2008	80	969

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O No.	OUTCOME NAME
1	Number of students who have increased knowledge as to where and how food is grown.
2	Percentage of students and teachers in grades Pre-K through 12 with increased agriculture literacy.
3	Number of teachers who have increased their awareness, knowledge, and understanding of agriculture, nutrition, and food gardening.

Outcome #1**1. Outcome Measures**

Number of students who have increased knowledge as to where and how food is grown.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	1800	969

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

Our research associate for this program moved to another university. We held her position open for eight months pending her return. The teachers involved with the program continued in her absence.

What has been done

We have hired a new person to replace her who is in the training process for implementing the program.

Results

The program continued with the assistance of our teachers. The new extension agent is receiving training and reconnecting with program participants.

4. Associated Knowledge Areas

KA Code	Knowledge Area
704	Nutrition and Hunger in the Population

Outcome #2**1. Outcome Measures**

Percentage of students and teachers in grades Pre-K through 12 with increased agriculture literacy.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	90	90

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

Teachers report using the curriculum for their classroom assignments.

What has been done**Results**

4. Associated Knowledge Areas

KA Code	Knowledge Area
704	Nutrition and Hunger in the Population

Outcome #3**1. Outcome Measures**

Number of teachers who have increased their awareness, knowledge, and understanding of agriculture, nutrition, and food gardening.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	80	23

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

Teachers continued to use resources from the Ag in the Classroom program to increase their knowledge about agriculture and to make presentations to the youth. We have given the curriculum to our teachers to enhance their programming.

What has been done

Our new extension agent is planning activities for this program year that will further engage the teachers and children. We are featuring the Ag in the Classroom program in our quarterly newsletter this spring. Some of the curriculum will be used in our 4-H summer day camping program as well with our youth.

Results

The program will grow in popularity in the District of Columbia. We have a new agent working with the project that has received training and support from the staff at United States Department of Agriculture in implementing the program.

The teachers previously involved want to continue the program.

4. Associated Knowledge Areas

KA Code	Knowledge Area
704	Nutrition and Hunger in the Population

V(H). Planned Program (External Factors)**External factors which affected outcomes**

- Appropriations changes
- Government Regulations
- Competing Public priorities

Brief Explanation

After hiring a new person to replace the research associate we lost, the new person became very ill and was out of the office for more than one month. She is an excellent educator and communicator. We are confident she will do well when she returns to full health.

V(I). Planned Program (Evaluation Studies and Data Collection)**1. Evaluation Studies Planned**

- Retrospective (post program)
- During (during program)

Evaluation Results

Teachers made a presentation about the elements they used to implement the Ag in the Classroom program with their youth at the end of the training. Follow up visits are made to the schools to document their activities using the Ag in the Classroom curriculum and materials.

Children in the program show a better knowledge of the impacts that agriculture has on our society.

A farming family visited the one local school to describe their daily responsibilities in running a dairy farm. Urban children do not have the same duties before the school day and began to discuss the challenges they might have in getting out of bed so early in the morning.

70% of the teachers using the Ag in the Classroom curriculum continue to use the materials in their sciences classes. We believe the number will increase through the work of the new extension agent. Our Ag in the Classroom agent left our university last year.

Key Items of Evaluation

This is a train the trainer program. Teachers using the curriculum to teach the children Agricultural information is evaluated as a primary goal to evaluate outcomes.

Program #15

V(A). Planned Program (Summary)

1. Name of the Planned Program

Renewable Resources Extension Act (RREA)

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
102	Soil, Plant, Water, Nutrient Relationships	100%		100%	
	Total	100%		100%	

V(C). Planned Program (Inputs)

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

Year: 2008	Extension		Research	
	1862	1890	1862	1890
Plan	0.3	0.0	0.0	0.0
Actual	0.7	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 30883	1890 Extension 0	Hatch 0	Evans-Allen 0
1862 Matching 30883	1890 Matching 0	1862 Matching 0	1890 Matching 0
1862 All Other 0	1890 All Other 0	1862 All Other 0	1890 All Other 0

V(D). Planned Program (Activity)

1. Brief description of the Activity

- Through advanced trainings, Master Gardeners will learn how to monitor, how to notice unusual symptoms, learn how to collect, package and send soil and plant tissue samples, and how to rule out false cases. After the training, Master Gardeners will educate the public through a variety of methods: plant clinics, workshops, speaking engagements, publish and distribute literature i.e. brochures, fact sheets etc. to inform D.C. Residents of Sudden Oak Death.

- Conduct 3 evening trainings on plant pathology and Sudden Oak Death Detector Training by trained Plant Pathologist and Certified Arborist for Master Gardeners. D.C. Residents will be educated in the symptoms of Sudden Oak Death on host plants and Oak trees. After plant material is identified, D.C. Residents are encouraged to send infected samples to the Maryland Department of Agriculture Plant Pathology Lab for testing.

2. Brief description of the target audience

District of Columbia residents

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	100	0	0	0
2008	0	0	0	0

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

Patent Applications Submitted

Year	Target
Plan:	0
2008 :	0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

	Extension	Research	Total
Plan	0	0	
2008	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Through advanced trainings, Master Gardeners will learn how to monitor, how to notice unusual symptoms, learn how to collect, package and send samples, and how to rule out false cases. After the training, Master Gardeners will educate the public through a variety of methods: plant clinics, workshops, speaking engagements, publish and distribute literature i.e. brochures, fact sheets etc. to inform D.C. Residents of Sudden Oak Death. Conduct 3 evening trainings on plant pathology and Sudden Oak Death Detector Training by trained Plant Pathologist and Certified Arborist for Master Gardeners for D.C. Residents to be educated in the symptoms of Sudden Oak Death on host plants and Oak trees. After plant material is identified, D.C. Residents are encouraged to send infected samples to the Maryland Department of Agriculture Plant Pathology Lab for testing.

Not reporting on this Output for this Annual Report

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O No.	OUTCOME NAME
1	Number of master gardeners who gained knowledge on exotic and emerging plant pests.
2	Number of master gardeners who have gained an understanding of how to monitor, collect, package, and send samples.
3	Increase of public knowledge and awareness of plant pests and diseases.

Outcome #1

1. Outcome Measures

Number of master gardeners who gained knowledge on exotic and emerging plant pests.

Not reporting on this Outcome for this Annual Report

Outcome #2

1. Outcome Measures

Number of master gardeners who have gained an understanding of how to monitor, collect, package, and send samples.

Not reporting on this Outcome for this Annual Report

Outcome #3

1. Outcome Measures

Increase of public knowledge and awareness of plant pests and diseases.

Not reporting on this Outcome for this Annual Report

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Appropriations changes
- Government Regulations

Brief Explanation

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

1. Evaluation Studies Planned

- After Only (post program)
- During (during program)

Evaluation Results

Key Items of Evaluation

Program #16

V(A). Planned Program (Summary)

1. Name of the Planned Program

Home Lawn and Gardening

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
102	Soil, Plant, Water, Nutrient Relationships	100%		100%	
	Total	100%		100%	

V(C). Planned Program (Inputs)

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

Year: 2008	Extension		Research	
	1862	1890	1862	1890
Plan	0.3	0.0	0.0	0.0
Actual	1.0	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
40781	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
40781	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

Conduct workshops -80 workshops, including community planting activities
 Commercial and residential site assessments visits -7 sites assessments. Assessments were temporally suspended due to the spike in fuel prices
 Phone consultations- 410 phone consultations
 Horticulture email listserve- 5,073 informational emails (33 Topics sent to 153 members)
 Articles and TV spot-12 articles published on local TV station website (WUSA 9)

Distribute fact sheets and brochures - 13,543 factsheets and brochures were distributed over a range of horticultural topics

2. Brief description of the target audience

D.C. Residents

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	60	0	0	0
2008	12000	50000	7254	0

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

Patent Applications Submitted

Year	Target
Plan:	0
2008 :	0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

	Extension	Research	Total
Plan	0	0	
2008	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Number of workshops conducted.

Year	Target	Actual
2008	30	80

Output #2

Output Measure

- Fact sheets will be developed and distributed to residents 15 workshops will be conducted

Year	Target	Actual
2008	5000	13546

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O No.	OUTCOME NAME
1	Gain knowledge on lawn beautification
2	Number of participants changing their habits of fertilizing their lawns so the excess run off does not go into the Chesapeake Bay.

Outcome #1

1. Outcome Measures

Gain knowledge on lawn beautification

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	400	500

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
102	Soil, Plant, Water, Nutrient Relationships

Outcome #2

1. Outcome Measures

Number of participants changing their habits of fertilizing their lawns so the excess run off does not go into the Chesapeake Bay.
Not reporting on this Outcome for this Annual Report

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Economy
- Appropriations changes
- Government Regulations

Brief Explanation

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

1. Evaluation Studies Planned

- Retrospective (post program)

Evaluation Results

Key Items of Evaluation

Program #17

V(A). Planned Program (Summary)

1. Name of the Planned Program

Washington Metropolitan Area Transit Authority Advanced Landscape 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
102	Soil, Plant, Water, Nutrient Relationships	100%		100%	
	Total	100%		100%	

V(C). Planned Program (Inputs)

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

Year: 2008	Extension		Research	
	1862	1890	1862	1890
Plan	0.3	0.0	0.0	0.0
Actual	1.0	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
40751	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
40751	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

•Facilitate and coordinate a three week educational training •Administrate and negotiate contract between WMATA officials •Provide educational materials and lecturers to WMATA employees

2. Brief description of the target audience

Landscape employees from WMATA.

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	100	0	0	0
2008	0	0	0	0

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

Patent Applications Submitted

Year	Target
Plan:	0
2008 :	0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

	Extension	Research	Total
Plan	0	0	
2008	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Facilitate and coordinate a three week educational training. Administrate and negotiate contract between WMATA officials. Provide educational materials and lecturers to WMATA employees.

Not reporting on this Output for this Annual Report

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O No.	OUTCOME NAME
1	Number of participants gaining knowledge and skills and landscaping.
2	Percentage of participants who apply skills to their jobs.
3	The beautification of acres of land in the Washington Metropolitan Area that WMATA maintains annual promotions for employees who have successfully completed the mandatory training.

Outcome #1

1. Outcome Measures

Number of participants gaining knowledge and skills and landscaping.

Not reporting on this Outcome for this Annual Report

Outcome #2

1. Outcome Measures

Percentage of participants who apply skills to their jobs.

Not reporting on this Outcome for this Annual Report

Outcome #3

1. Outcome Measures

The beautification of acres of land in the Washington Metropolitan Area that WMATA maintains annual promotions for employees who have successfully completed the mandatory training.

Not reporting on this Outcome for this Annual Report

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Appropriations changes
- Government Regulations
- Competing Public priorities

Brief Explanation

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

1. Evaluation Studies Planned

- After Only (post program)

Evaluation Results

Key Items of Evaluation

Program #18

V(A). Planned Program (Summary)

1. Name of the Planned Program

Master Gardener/Junior Master Gardener

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
102	Soil, Plant, Water, Nutrient Relationships	100%		0%	
	Total	100%		0%	

V(C). Planned Program (Inputs)

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

Year: 2008	Extension		Research	
	1862	1890	1862	1890
Plan	0.3	0.0	0.0	0.0
Actual	1.0	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
40751	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
40751	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
3674	0	0	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

The Master Gardener Program and The Junior Master Gardener Program expose adults and youths to principles of horticulture to increase awareness and educational opportunities through the study of agriculture. The Junior Master Gardener Program provided inner-city youth with hands-on horticultural skills training and environmental experiences that instilled a sense of empowerment and accomplishment. The overall objective for the Master Gardener Program is to train Washington, D.C. citizens to be resources in their communities for gardening expertise. UDC trained Master Gardeners in the community to increase the outreach of cooperative extension by providing a level of valuable horticultural education for individuals and a foundation for beautification of the District of Columbia.

- 72 hr Master Gardener training course - 35 students
- 4 Junior Master Gardener clubs 1, at a youth detention center
- 13500 factsheets and brochures distributed

2. Brief description of the target audience

District of Columbia adult residents interested in horticulture
 Youth - Grades 3-8 primarily at elementary schools

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	35	0	500	0
2008	35	0	240	0

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

Patent Applications Submitted

Year	Target
Plan:	0
2008 :	0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

	Extension	Research	Total
Plan	0	0	
2008	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- The preparation of a minimum of 35 Master Gardeners a year in the winter will have an important impact on residents of the District through volunteer service. A minimum of two additional Junior Master Gardener Clubs will be formed each year.

Year	Target	Actual
2008	535	605

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O No.	OUTCOME NAME
1	Number of participants who gain knowledge of gardening techniques.
2	Percentage of increase in the number of resident gardens in the District of Columbia.
3	Percentage of decrease of the negative Impact on the Environment

Outcome #1**1. Outcome Measures**

Number of participants who gain knowledge of gardening techniques.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	500	562

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

Urban children generally don't get exposure to horticulture or agriculture. Without programs like Junior Master Gardener, these kids don't learn to appreciate the role that horticulture plays in their lives. They grow up thinking that lettuce comes from grocery stores. Furthermore, they miss out on appreciation of green spaces in their communities.

What has been done

There are 4 Junior Master Gardener clubs in DC and a garden for them to work in.

Results

Local beautification and increased appreciation of horticulture

4. Associated Knowledge Areas

KA Code	Knowledge Area
102	Soil, Plant, Water, Nutrient Relationships

Outcome #2**1. Outcome Measures**

Percentage of increase in the number of resident gardens in the District of Columbia.

Not reporting on this Outcome for this Annual Report

Outcome #3**1. Outcome Measures**

Percentage of decrease of the negative Impact on the Environment

Not reporting on this Outcome for this Annual Report

V(H). Planned Program (External Factors)**External factors which affected outcomes**

- Appropriations changes
- Government Regulations
- Competing Programmatic Challenges

Brief Explanation

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

1. Evaluation Studies Planned

- After Only (post program)
- During (during program)

Evaluation Results

Key Items of Evaluation

Program #19

V(A). Planned Program (Summary)

1. Name of the Planned Program

Integrated Pest Mgmt for the Sustained Reduction of Pest Population in Low Income Urban Households

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
216	Integrated Pest Management Systems	100%		0%	
	Total	100%		0%	

V(C). Planned Program (Inputs)

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

Year: 2008	Extension		Research	
	1862	1890	1862	1890
Plan	0.5	0.0	0.0	0.0
Actual	0.8	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
36499	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
36499	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
4977	0	0	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

Residents were told how they could reduce the pest levels in their homes. The importance of sanitation, exclusion and clutter reduction were included. Proper use of baits and traps was also discussed

Home visits and intervention

140 homes were visited Bait was used to control roaches. Residents were encouraged to keep their apartments clean and clutter free. Follow-up has been difficult. Many of the residents have not been home for their scheduled appointment. As of 4/2008 we were focusing on the senior building where feel we can get more consistent participation.

2. Brief description of the target audience

Low income residents of Washington DC, primarily those in multi family housing.

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	100	250	0	0
2008	140	55000	0	0

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

Patent Applications Submitted

Year	Target
Plan:	0
2008 :	0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

	Extension	Research	Total
Plan	0	0	
2008	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Workshops for residents, home visits and intervention.

Year	Target	Actual
2008	350	140

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O No.	OUTCOME NAME
1	Number of residents that have learned that they do not have to live with vermin.

Outcome #1**1. Outcome Measures**

Number of residents that have learned that they do not have to live with vermin.

2. Associated Institution Types

- 1862 Extension
- 1862 Research

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	100	140

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

In the Washington DC and other urban areas, pesticide misuse and exposure continues to be an ongoing concern. Many residents do not understand the biology of pests. Nor do they understand that there are simple steps they can take to reduce the pest carrying capacity of the home environment. Unfortunately, pesticides are often the first resort of pest control. Very rarely do residents take steps to reduce pest pressure from the outside or to reduce interior carrying capacity.

What has been done

Visited homes and distributed information Reception was not great. The biggest problem was gaining the trust of the residents. After working in the family housing building, with little success we moved to the senior building. They were more cooperative. They now trust the technician. But the grant has ended

Results

We have received a call from the new manager of the housing complex who tells me that she agrees with my explanation of poor results. We are going back and shoring up the weak areas; resident trust, management response. It has to be a team effort. I hope they will hire my former technician. We learned some hard lessons. I'd like to put them to use.

4. Associated Knowledge Areas

KA Code	Knowledge Area
216	Integrated Pest Management Systems

V(H). Planned Program (External Factors)**External factors which affected outcomes**

- Appropriations changes
- Government Regulations

Brief Explanation

Lack of cooperation from residents and management. The science of IPM is easy until it comes to changing behavior.

V(I). Planned Program (Evaluation Studies and Data Collection)**1. Evaluation Studies Planned**

- Before-After (before and after program)
- During (during program)
- Case Study

Evaluation Results

Key Items of Evaluation

Program #20

V(A). Planned Program (Summary)

1. Name of the Planned Program

Pesticide Certification and Training

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
216	Integrated Pest Management Systems	100%		0%	
	Total	100%		0%	

V(C). Planned Program (Inputs)

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

Year: 2008	Extension		Research	
	1862	1890	1862	1890
Plan	0.5	0.0	0.0	0.0
Actual	0.8	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
36499	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
36499	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
7417	0	0	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

Weekly courses that satisfy the local & state regulatory agencies, so that individuals may qualify to take the applicator exam.

2. Brief description of the target audience

Anyone who desires to become a certified pesticide applicator (for hire).

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	225	0	0	0
2008	220	0	0	0

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

Patent Applications Submitted

Year	Target
Plan:	0
2008 :	0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

	Extension	Research	Total
Plan	0	0	
2008	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Weekly courses that satisfy the local & state regulatory agencies, so that individuals may qualify to take the applicator exam.

Year	Target	Actual
2008	225	220

V(G). State Defined Outcomes**V. State Defined Outcomes Table of Content**

O No.	OUTCOME NAME
1	Number of participants moving from registered employee status to certified applicator status.
2	Number of participants receiving a pesticide applicator's license.
3	Percentage of increase in the number of licensed pesticide applicators in the District of Columbia.
4	Participants Qualify to take the commercial applicators exam

Outcome #1**1. Outcome Measures**

Number of participants moving from registered employee status to certified applicator status.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	225	0

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

Being certified as a commercial pesticide applicator makes an individual more employable.

What has been done

UDC CES offers 12-week courses that each is equivalent to 6 months as a registered employee. They are; Pesticide Use and Safety (Core Manual), Structural Pest Control and Landscape pest management

Results

None of the students who took the course in 08 have taken the certification exams

4. Associated Knowledge Areas

KA Code	Knowledge Area
216	Integrated Pest Management Systems

Outcome #2**1. Outcome Measures**

Number of participants receiving a pesticide applicator's license.

Not reporting on this Outcome for this Annual Report

Outcome #3**1. Outcome Measures**

Percentage of increase in the number of licensed pesticide applicators in the District of Columbia.

Not reporting on this Outcome for this Annual Report

Outcome #4**1. Outcome Measures**

Participants Qualify to take the commercial applicators exam

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	{No Data Entered}	15

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Pesticide certification makes the person more employable

What has been done

3 12 week classes were conducted.

Results

15 individuals are now qualified to take the DC applicator's exam

4. Associated Knowledge Areas

KA Code	Knowledge Area
216	Integrated Pest Management Systems

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Appropriations changes
- Government Regulations

Brief Explanation

Lack of permanent classroom and lab space continues to plague the program.

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

1. Evaluation Studies Planned

- Before-After (before and after program)
- Case Study

Evaluation Results

Key Items of Evaluation

Program #21

V(A). Planned Program (Summary)

1. Name of the Planned Program

Nutrition on Demand

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
702	Requirements and Function of Nutrients and Other Food Components	100%		100%	
Total		100%		100%	

V(C). Planned Program (Inputs)

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

Year: 2008	Extension		Research	
	1862	1890	1862	1890
Plan	0.8	0.0	0.0	0.0
Actual	0.6	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
14632	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
14632	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

In order to provide community-based nutrition education to a widespread audience of district residents, the following activities were implemented:

- Curriculum development for various workshops
- Nutrition related activities
- Cooking demonstrations
- Train the trainer programs
- Health fairs
- Field trips
- Seminars
- Fact sheets, newsletters and brochures developed and disseminated.

2. Brief description of the target audience

- Seniors
- Adults
- Youth and Children residing in the District of Columbia

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	2000	0	0	0
2008	0	0	0	0

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

Patent Applications Submitted

Year	Target
Plan:	0
2008 :	0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

	Extension	Research	Total
Plan	0	0	
2008	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Curriculum developed for various workshops, nutrition related activities, cooking demonstrations, train the trainer programs, health fairs, community participation, field trips and seminars. Fact sheets, newsletters and brochures will be developed and disseminated.

Not reporting on this Output for this Annual Report

V(G). State Defined Outcomes**V. State Defined Outcomes Table of Content**

O No.	OUTCOME NAME
1	Number of participants that improved food choices.
2	Number of participants who included exercise and experienced slow weight loss.
3	Percentage of decrease in the risk factors for chronic disease, better management of chronic conditions, weight maintenance and overall improved health.

Outcome #1

1. Outcome Measures

Number of participants that improved food choices.

Not reporting on this Outcome for this Annual Report

Outcome #2

1. Outcome Measures

Number of participants who included exercise and experienced slow weight loss.

Not reporting on this Outcome for this Annual Report

Outcome #3

1. Outcome Measures

Percentage of decrease in the risk factors for chronic disease, better management of chronic conditions, weight maintenance and overall improved health.

Not reporting on this Outcome for this Annual Report

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Appropriations changes
- Government Regulations

Brief Explanation

Outcomes were affected by the midterm resignation and retirement of both staff members working on the project.

The phase of the project that included implementation involving community contacts was aborted. Attempts will be made to integrate the materials developed into ongoing 2009 programs having similar goals.

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

1. Evaluation Studies Planned

- Before-After (before and after program)
- During (during program)

Evaluation Results

No reportable results.

Key Items of Evaluation

Not applicable.

Program #22

V(A). Planned Program (Summary)

1. Name of the Planned Program

Parenting

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
802	Human Development and Family Well-Being	100%		100%	
	Total	100%		100%	

V(C). Planned Program (Inputs)

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

Year: 2008	Extension		Research	
	1862	1890	1862	1890
Plan	1.0	0.0	0.0	0.0
Actual	1.6	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
57809	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
57809	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
13500	0	0	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

- Curriculum development various workshops, seminars, and support groups •Fact Sheets •Newsletters

Parenting workshops were provided to parents to offer alternative ways of disciplining their children and solutions to managing their parental responsibilities with the hectic schedules that might tend to stress us out today.

Special attention was given to relatives that are raising children through workshops and social events. The goal of these workshops was to assist grandparents and other relatives in exploring the roles and responsibilities of care-providers in today's society and to offer them some tools to help them cope with new challenges. The social interactions was designed to help them network with others coping with the same challenges.

2. Brief description of the target audience

Seniors, adults, youth and children residing in the District of Columbia.

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	700	0	0	0
2008	2723	5000	1093	5000

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

Patent Applications Submitted

Year	Target
Plan:	0
2008 :	0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

	Extension	Research	Total
Plan	0	0	
2008	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Curriculum developed for various workshops, seminars, support groups, fact sheets, and newsletters.

Year	Target	Actual
2008	650	5000

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O No.	OUTCOME NAME
1	Number of participants in workshops.
2	Number of support groups formed.
3	Percentage Increase in the number of parenting support groups.

Outcome #1**1. Outcome Measures**

Number of participants in workshops.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	2000	2723

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

In the District of Columbia, there are 16,723 children that live in grandparent-headed households (14.5% of all children in the District). There are another 5,374 children living in households headed by other relatives (4.7 % of all children in the District). Of the children living in households headed by grandparents or other relatives in the District of Columbia, 10,702 are living there without either parent present. Also there is an increased amount of children in the foster care system in intercity areas of the country versus rural areas. Parenting education classes give parents new ways of parenting their children in a new and highly computerized world with a challenging economy.

What has been done

A special program was implemented that focused on relatives as parents. Participants traveled to Pennsylvania to network with grandparents and relatives.

Special Parenting Guides were designed and distributed to the District of Columbia community to help relatives as parents find services and resources to help their families.

Grandparents participated in the National RAP walk on Washington to bring attention to the needs of extended families raising children.

More Schools were involved in receiving parenting education programs.

Results

The need for the Parenting Guides was so great that new copies of the guide had to be printed. These guides provide information to parents about services offered in the District of Columbia to help find services they might need.

Special grant applications were distributed to programs serving extended families children in the District of Columbia from our parenting program. Grant awardees can use these grants to provide services to grandparents after they complete our training program. The grants are small and are meant to be for small well planned events.

4. Associated Knowledge Areas

KA Code	Knowledge Area
802	Human Development and Family Well-Being

Outcome #2**1. Outcome Measures**

Number of support groups formed.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	25	20

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

Parents need resources to help them cope with the stress of an ever changing world and the needs of their children. Relatives raising children often need additional funds and a network of support from people experiencing the same kind of problems they are facing.

What has been done

We've provided relative caregivers support services that will allow them to develop stable and healthy families. Those services include informative workshops, guide books that share how to access local services they might need, support groups and trips to network with other relatives. Parenting workshops are offered at local schools, recreational centers, shelters and youth serving agencies.

Results

Support groups were developed to allow relatives to discuss the concerns they have about meeting critical needs, such as emotional support, recreational activities for relative caregivers and children, respite care, family/individual counseling, therapeutic activity, finding specific support groups or resources, information and referral for specific, advocacy, nutrition education, Relatives received assistance with group topics such as legal issues, communicating with grandchild, constructive discipline, financial management, caring for self, helping child succeed in school, emotional management, nutrition, finding resources, dealing with adult children and future plans.

4. Associated Knowledge Areas

KA Code	Knowledge Area
802	Human Development and Family Well-Being

Outcome #3**1. Outcome Measures**

Percentage Increase in the number of parenting support groups.

Not reporting on this Outcome for this Annual Report

V(H). Planned Program (External Factors)**External factors which affected outcomes**

- Appropriations changes
- Government Regulations

Brief Explanation**V(I). Planned Program (Evaluation Studies and Data Collection)****1. Evaluation Studies Planned**

- Before-After (before and after program)
- During (during program)

Evaluation Results

Pre and post testing tools were used to measure the progress of the Parenting Education program. participants. Participants complete survey about workshop presented.

During the training children are encouraged to express themselves through writing and art.

All participants report that the program has helped them to find the resources they need to better provide for their children. They appreciate the opportunity to talk with other parents and relatives and enjoyed meeting the parents in other states.

Key Items of Evaluation

Surveys are completed by parent participants and children when they receive services.

Program #23

V(A). Planned Program (Summary)

1. Name of the Planned Program

Teachers Understanding Nutrition and Agriculture (TUNA)

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
702	Requirements and Function of Nutrients and Other Food Components	100%		100%	
Total		100%		100%	

V(C). Planned Program (Inputs)

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

Year: 2008	Extension		Research	
	1862	1890	1862	1890
Plan	0.3	0.0	0.0	0.0
Actual	0.6	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
14632	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
14632	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

- Curriculum developed for various workshops •Fact sheets

Please note that there were no direct contacts made for this program per se due to unexpected staff changes.

2. Brief description of the target audience

Teachers and students in District of Columbia schools and classrooms.

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	250	0	0	0
2008	0	0	0	0

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

Patent Applications Submitted

Year	Target
Plan:	0
2008 :	0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

	Extension	Research	Total
Plan	0	0	
2008	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Curriculum developed for various workshops, fact sheets.

Not reporting on this Output for this Annual Report

V(G). State Defined Outcomes**V. State Defined Outcomes Table of Content**

O No.	OUTCOME NAME
1	Percentage of decline in childhood obesity rates. (Change in schools policies to incorporate nutrition and agriculture in the curriculums in District of Columbia schools)
2	Number of participants who improved eating habits.
3	Number of participants that decrease poor eating habits.

Outcome #1

1. Outcome Measures

Percentage of decline in childhood obesity rates. (Change in schools policies to incorporate nutrition and agriculture in the curriculums in District of Columbia schools)

Not reporting on this Outcome for this Annual Report

Outcome #2

1. Outcome Measures

Number of participants who improved eating habits.

Not reporting on this Outcome for this Annual Report

Outcome #3

1. Outcome Measures

Number of participants that decrease poor eating habits.

Not reporting on this Outcome for this Annual Report

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Appropriations changes
- Government Regulations
- Other (Unexpected change in assigned staffing pattern due to retirement and resignation.)

Brief Explanation

Two staff members assigned to this project chose to leave their positions after developing the curriculum and manual and prior to establishing any contacts. Funding was not sufficient to replace these positions and continue program activities.

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

1. Evaluation Studies Planned

- Other (None)

Evaluation Results

Not Applicable.

Key Items of Evaluation

Future implementation of the curriculum and manual produced may be applied in another nutrition education program having the same or similar goals.

Program #24

V(A). Planned Program (Summary)

1. Name of the Planned Program

Food Stamp Education Nutrition 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
701	Nutrient Composition of Food	20%		20%	
702	Requirements and Function of Nutrients and Other Food Components	20%		20%	
703	Nutrition Education and Behavior	20%		20%	
712	Protect Food from Contamination by Pathogenic Microorganisms, Parasites, and Naturally Occurring Toxins	20%		20%	
724	Healthy Lifestyle	20%		20%	
Total		100%		100%	

V(C). Planned Program (Inputs)

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

Year: 2008	Extension		Research	
	1862	1890	1862	1890
Plan	5.8	0.0	0.0	0.0
Actual	3.6	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
66275	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
66275	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
739183	0	0	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

•Train the Trainer Educational Workshops > 2 hours a week by teacher volunteers •FFNews •Creative Curriculum
 •Color Me Healthy •Tickle Your Appetite •5 A Day •DCPS Nutrition Curriculums •45 -Food Safety & Dietary Quality Lessons Developed The 139 volunteer teachers conducted a total of 12065 nutrition and food safety workshops for head start and child care children. New educational materials were developed to assist the teacher4s with classroom teaching.Pretest and quarterly follow-up post tests were conducted with the children.

2. Brief description of the target audience

•Children 2-5 years old •Pre-School/Headstart and Daycare teacher volunteers Children between 8-10 years of age.

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	83	0	5000	0
2008	84	0	179345	0

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

Patent Applications Submitted

Year	Target
Plan:	0
2008 :	0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

	Extension	Research	Total
Plan	0	0	
2008	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Train the Trainer Educational Workshops > 2 hours a week by teacher volunteers; FFNews; Creative Curriculum; Color Me Healthy; Tickle Your Appetite; 5 A Day, & DCPS Nutrition Curriculums; and Development of Food Safety and Dietary Quality Lessons

Year	Target	Actual
2008	4000	12065

Output #2

Output Measure

- All targets met or exceeded plan.

Year	Target	Actual
2008	{No Data Entered}	179345

Output #3

Output Measure

- Change in Knowledge Outcome Measure
Not reporting on this Output for this Annual Report

V(G). State Defined Outcomes**V. State Defined Outcomes Table of Content**

O No.	OUTCOME NAME
1	Number of participants who are able to make appropriate food choices from the Food Guide Pyramid and Dietary Guidelines for Americans.
2	Number of participants with increased knowledge of various fruits and vegetables.
3	Number of participants (parents) who make better food choices (fruits and vegetables).
4	Change in Condition Outcome Measures

Outcome #1**1. Outcome Measures**

Number of participants who are able to make appropriate food choices from the Food Guide Pyramid and Dietary Guidelines for Americans.

2. Associated Institution Types

- 1862 Extension
- 1862 Research

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	5050	179345

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

The DC Program touches only a small number of the total daycare teacher and toddler population in the District of Columbia. The expansion of a quality education and family-oriented program is important to our capability to improve health starting at the first stages of learning.

What has been done

Our program dramatically increased the number of contacts who received the message and services over the previous three-year period.

Results

The DC Program increased the number of program contacts from 350 in 2005 to 179,681 in 2008. These contacts were among individuals receiving and/or eligible for food stamps and were enabled to adopt healthier lifestyles in accordance with the 'Dietary Guidelines for Americans' and 'MyPyramid-Steps to a Healthier You.' Daycare teachers implemented a 48-lesson curriculum in nutrition and food safety among the contacts, children and their families, improving their ability to select healthy foods, safely handle food, and properly prepare and store foods at home.

4. Associated Knowledge Areas

KA Code	Knowledge Area
703	Nutrition Education and Behavior
712	Protect Food from Contamination by Pathogenic Microorganisms, Parasites, and Naturally Occurring Toxins
724	Healthy Lifestyle

Outcome #2**1. Outcome Measures**

Number of participants with increased knowledge of various fruits and vegetables.

2. Associated Institution Types

- 1862 Extension
- 1862 Research

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	5083	179345

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

It is important to teach nutrition and food safety to children at an early absorbent age to ensure and increase the potential for health and overall quality of health in the DC environment which is considerably challenged with health problems and threats to health safety of all kinds.

What has been done

A 48-lesson curriculum was taught by extension-trained teachers covering the gamut of nutrition and food safety messages. Handouts were taken home to be shared with families in an attempt to spread the message as far as possible.

Results

Numerable messages from the 48-lesson FSNEP curriculum were taught in the classroom to the 179,345 daycare children.

4. Associated Knowledge Areas

KA Code	Knowledge Area
703	Nutrition Education and Behavior
701	Nutrient Composition of Food
712	Protect Food from Contamination by Pathogenic Microorganisms, Parasites, and Naturally Occurring Toxins
724	Healthy Lifestyle

Outcome #3

1. Outcome Measures

Number of participants (parents) who make better food choices (fruits and vegetables).

2. Associated Institution Types

- 1862 Extension
- 1862 Research

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	5083	179345

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Food stamp-eligible families are often uneducated about proper nutrition, food safety and low-cost, tasty, and healthy menu choices, including fruits and vegetables. This population in the District experiences low accessibility to fruits and vegetables. This program was needed to ensure that these messages reach children in daycare and their parents.

What has been done

The UDC Program trained teachers and provided lessons to children in the daycare setting with handouts with the messages to be shared with parents.

Results

These messages were included in 21 of the 48 lessons in the FSNEP curriculum taught to pre-school children in 104 daycare center classrooms.

4. Associated Knowledge Areas

KA Code	Knowledge Area
703	Nutrition Education and Behavior

Outcome #4**1. Outcome Measures**

Change in Condition Outcome Measures

2. Associated Institution Types

- 1862 Extension
- 1862 Research

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	{No Data Entered}	0

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

Although it is critical to start nutrition and food safety education at the earliest stages of life, i.e., infants and toddlers, the DC Program can impact only a small measure of the total daycare population in the District to train teachers, provide nutrition curricula at the pre-school level, and provide outreach to needy families.

What has been done

The DC Program dramatically expanded the number of participant agencies, increased the number of extension-trained teachers, increased program contacts, added a television series (under development), added video teaching, improved data collection, and added a component to measure the program's impact on parents.

Results

Expanded from 40 participant agencies in 2005 to 104 in 2008; increased the number of extension-trained teachers from 46 to 140; increased program contacts from 350 in 2005 to 179,345 in 2008; and implemented at various stages of development, a television series for 2-5 and 8-10 year-olds, video teaching devices, and collection of pretest and posttest data to measure program impacts.

4. Associated Knowledge Areas

KA Code	Knowledge Area
724	Healthy Lifestyle
703	Nutrition Education and Behavior

V(H). Planned Program (External Factors)**External factors which affected outcomes**

- Economy
- Appropriations changes
- Competing Public priorities
- Competing Programmatic Challenges
- Populations changes (immigration, new cultural groupings, etc.)
- Other (Crime within the neighborhoods)

Brief Explanation

Crime within certain neighborhoods. Two staff members were assaulted while walking to a program site during daylight hours. The outcomes were met by scheduling University transportation to transport staff to program sites. Plans are being made to purchase transportation for the program in order to continue to meet program goals in the future.

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

1. Evaluation Studies Planned

- After Only (post program)
- During (during program)

Evaluation Results

Pre- and Post-test measures of knowledge were administered to extension-trained teachers. Evaluations are underway. It is expected that there will be a significant increase in knowledge of nutrition and food safety, particularly among the new set of teachers.

Key Items of Evaluation

Teachers reported on a monthly basis, the number of hours spent teaching from the curriculum as well as the number of children who received classroom education. Specific lessons taught were reported, usually three lessons per week during the school year. Data has been analyzed and posted for each project, teacher, ward of the city, targeted audience, total unduplicated participants, hours, key messages taught, key measures, and status toward completion.

Program #25

V(A). Planned Program (Summary)

1. Name of the Planned Program

Obesity Research Projects

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
701	Nutrient Composition of Food	25%		25%	
702	Requirements and Function of Nutrients and Other Food Components	25%		25%	
703	Nutrition Education and Behavior	25%		25%	
724	Healthy Lifestyle	25%		25%	
Total		100%		100%	

V(C). Planned Program (Inputs)

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

Year: 2008	Extension		Research	
	1862	1890	1862	1890
Plan	1.5	0.0	0.0	0.0
Actual	1.0	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
37699	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
37699	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

- IRB Committee
- Mobilizing community
- Development of Instruments
- Training on Instruments
- Recruitment of project participants
- Selected interventions
- Review of data Data analysis
- Report development

2. Brief description of the target audience

- Over-weight and Obesity individuals
- Non-Overweight and Obesity individuals from the same environment
- Parents of participants

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	400	0	400	0
2008	3	0	440	0

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

Patent Applications Submitted

Year	Target
Plan:	0
2008 :	0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

	Extension	Research	Total
Plan	0	0	
2008	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- IRB Committee Mobilizing community Development of Instruments Training on Instruments Recruitment of project participants Selected interventions Review of data Data analysis Report development 250 – Over- weight and Obesity individuals 150-Non- Overweight and Obesity individuals from the same environment Parents of participants

Not reporting on this Output for this Annual Report

V(G). State Defined Outcomes**V. State Defined Outcomes Table of Content**

O No.	OUTCOME NAME
1	Percentage of decrease in the incidences of obesity in the District of Columbia.
2	Number of participants from targeted group.
3	Number of participants gaining awareness, knowledge and skills.

Outcome #1**1. Outcome Measures**

Percentage of decrease in the incidences of obesity in the District of Columbia.

Not reporting on this Outcome for this Annual Report

Outcome #2**1. Outcome Measures**

Number of participants from targeted group.

Not reporting on this Outcome for this Annual Report

Outcome #3**1. Outcome Measures**

Number of participants gaining awareness, knowledge and skills.

2. Associated Institution Types

- 1862 Extension
- 1862 Research

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	400	420

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

Reduction in obesity has public value. Obesity is a major public health problem in the District of Columbia where 20.7% of the of the population is considered obese and 32% of the population is overweight.

What has been done

The District of Columbia Government is in the process of developing an Early Childhood Obesity Collaborative to address the problem. The seed grant projects gathered preliminary data and answered basic questions to complex problems.

Results

The project: Childhood Obesity: The effect of a nutrition intervention program, Color Your Pyramid on nutrition knowledge, eating behavior, physical activity and nutrition status on Washington, DC schools developed and evaluated a culturally relative nutrition intervention educational program framed by the revised USDA Food Guide Pyramid. The intervention showed improvements in nutrition knowledge, changes in dietary behavior, physical activity and nutrition status. A manuscript was prepared for publication.

4. Associated Knowledge Areas

KA Code	Knowledge Area
703	Nutrition Education and Behavior
724	Healthy Lifestyle

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Economy
- Appropriations changes
- Government Regulations
- Other (Difficulty in getting space within the schools for the project.)

Brief Explanation

It was difficult to schedule project sessions due to competing for time with other school activities.
Students engaged in many after-school activities.
Lack of funding to increase the number of sessions of the intervention.

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

1. Evaluation Studies Planned

- Comparisons between program participants (individuals, group, organizations) and non-participants
- Comparisons between different groups of individuals or program participants experiencing different levels of program intensity.
- Comparison between locales where the program operates and sites without program intervention

Evaluation Results

Projects/interventions have been completed. Results are under analysis.

Key Items of Evaluation

Intervention to Reduce Overweight in Elementary Children
Risk Markers for Obesity in African American Adolescents
Effect of Color Your Pyramid on Nutrition Knowledge, Eating Behavior, Physical Activity, and Nutrition status
Factors in Overweight and obesity Among Low-Income Latino and African-American Children and Families

Program #26

V(A). Planned Program (Summary)

1. Name of the Planned Program

Home Maintenance and Repair

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
804	Human Environmental Issues Concerning Apparel, Textiles, and Residential and Commercial Structures	100%		100%	
Total		100%		100%	

V(C). Planned Program (Inputs)

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

Year: 2008	Extension		Research	
	1862	1890	1862	1890
Plan	1.5	0.0	0.0	0.0
Actual	2.7	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 56798	1890 Extension 0	Hatch 0	Evans-Allen 0
1862 Matching 56798	1890 Matching 0	1862 Matching 0	1890 Matching 0
1862 All Other 0	1890 All Other 0	1862 All Other 0	1890 All Other 0

V(D). Planned Program (Activity)

1. Brief description of the Activity

•Newsletters •Fact sheets •Hands-on workshops to District residents so they can perform basic/advance repairs in and around their home

2. Brief description of the target audience

The targeted audience includes all residents of the District of Columbia, First-time homeowners, retired and non-retired homeowners, senior citizens and low-income homeowners. Special efforts will be placed on the undeserved population in the District.

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	500	0	0	0
2008	1019	2438	0	0

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

Patent Applications Submitted

Year	Target
Plan:	0
2008 :	0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

	Extension	Research	Total
Plan	0	0	
2008	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Newsletters, fact sheets, and hands-on workshops to District residents so they can perform basic/advance repairs in and around their home.

Year	Target	Actual
2008	350	2438

V(G). State Defined Outcomes**V. State Defined Outcomes Table of Content**

O No.	OUTCOME NAME
1	Number of participants able to make repairs as well as communicate with contractors in a professional manner.
2	Number of District residents made aware of the programs offered by the Housing and Environment Program.
3	Number of District residents participating in workshops offered by the HEP who start to reduce the cost of repairs to their home.

Outcome #1**1. Outcome Measures**

Number of participants able to make repairs as well as communicate with contractors in a professional manner.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	250	1019

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

The energy crisis fueled the desire for information on this subject.

What has been done

In addition to increasing the number of workshops, adding a certificate series, a series of mini information sessions, CRED also added a energy hotline and referral program to assist District residents address their energy related needs.

Results

The program was designed to assist DC residents save \$120.00 to 150.00 per month on energy cost. 1019 persons completed one mini session and one basic class in Home Repair and Energy saving techniques, 300 completed three of the four certificate program and 80 completed the full program. While surveys at the conclusion of each session showed the class was favorably received, a follow up survey is planned.

4. Associated Knowledge Areas

KA Code	Knowledge Area
804	Human Environmental Issues Concerning Apparel, Textiles, and Residential and Commercial Structures

Outcome #2**1. Outcome Measures**

Number of District residents made aware of the programs offered by the Housing and Environment Program.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	500	1019

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

The average District resident is spending over 50% of their income for household and energy cost. Many disadvantaged individuals regularly have to choose between food and heat and gas.

What has been done

CRED held 148 sessions for 1277 persons, put out 5579 pieces of information on home repair and energy tips, referred 300 persons for energy assistance and Christmas in april and joined the DC Peoples Council in hosting 10,000 persons at an energy fair

Results

While the initial surveys given at the conclusion of each session were very favorable and that over 80 completed the 4 subject certificate series indicated how they reduced energy use and cost. A follow up survey of actual savings has not been conducted.

4. Associated Knowledge Areas

KA Code	Knowledge Area
804	Human Environmental Issues Concerning Apparel, Textiles, and Residential and Commercial Structures

Outcome #3

1. Outcome Measures

Number of District residents participating in workshops offered by the HEP who start to reduce the cost of repairs to their home.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	500	380

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

The energy crisis/globe warming has set the stage for the energy revolution.

What has been done

While CRED has done no formal follow up evaluation of the 1019 individuals trained, 10,000 supported during the People's Council Discount Days, the 380 persons completing the training also received an 8 pack of energy efficient light bulbs and a brochure on energy reduction techniques from Home Depot.

Results

Each individual during the 4 part training was asked to evaluate their energy bill to determine wheather the usage went down. Each stated during the series that the usage went down some, but the bill was still high. 380 recieved energy efficient light bulbs/energy info packet as well as the 10,000 attending the discount day fair.

4. Associated Knowledge Areas

KA Code	Knowledge Area
804	Human Environmental Issues Concerning Apparel, Textiles, and Residential and Commercial Structures

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Natural Disasters (drought,weather extremes,etc.)
- Appropriations changes
- Government Regulations
- Competing Programmatic Challenges

Brief Explanation

Competing programatic Challenges and Natural Disasters greatly affect our ability to consistent offer classes in public community facilities. Unfortunately public schools, libraries and recreation in the District are being closed, renovated and have a new change of use condition. Many community groups are struggling to stay afloat and have cut back on programs and services. Travel cost programs is increasing becoming a problem as well.

We met our goals in part due to the number program centers with captive audiences.

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

1. Evaluation Studies Planned

- Before-After (before and after program)
- During (during program)

Evaluation Results

In addition to the surveys, each participant receives a kits of information for each home repair taskthey must complete the hands on task before moving to the next element or subject area. At mimimum, each participant demonstrated mastery of basis technigues.

Key Items of Evaluation

None

Program #27

V(A). Planned Program (Summary)

1. Name of the Planned Program

Asthma Project

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
721	Insects and Other Pests Affecting Humans	100%		100%	
	Total	100%		100%	

V(C). Planned Program (Inputs)

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

Year: 2008	Extension		Research	
	1862	1890	1862	1890
Plan	1.0	0.0	0.0	0.0
Actual	1.2	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
38007	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
38007	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

•Educate District residents on how to improve the quality of indoor air •Newsletters •Fact sheets •Home audits
(Districts residents)

2. Brief description of the target audience

The target population for the CES Asthma Project is children ages 3 thru 12 and their families who reside in area of the District where asthma percentage is high.

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	250	0	0	0
2008	1019	2438	0	0

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

Patent Applications Submitted

Year	Target
Plan:	0
2008 :	0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

	Extension	Research	Total
Plan	0	0	
2008	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Educate District residents on how to improve the quality of indoor air; Newsletters; Fact Sheets, and home audits will be provided to Districts residents.

Year	Target	Actual
2008	100	1019

V(G). State Defined Outcomes**V. State Defined Outcomes Table of Content**

O No.	OUTCOME NAME
1	Number of residents who are aware of the CES Asthma Project.
2	Number of residents participating in CES Asthma Project activities in their homes.
3	Number of residents who are able to identify issues in their home related to asthma as a result of the CES Asthma Project.

Outcome #1**1. Outcome Measures**

Number of residents who are aware of the CES Asthma Project.

2. Associated Institution Types

- 1862 Extension
- 1862 Research

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	250	1019

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

The DC Department Health cites the District as having one of the highest rate of Asthma in the United States. Thousand of hours of school job time is lost annually and has put great stress on the medical and insurance systems.

What has been done

The Housing Environment Program held 148 sessions for 1019 persons and put out 5579 pieces of information on this subject.

Results

380 persons took steps to improve their environment by locating the source of insects and other pest and purchasing cleaning and with safer household products.

4. Associated Knowledge Areas

KA Code	Knowledge Area
721	Insects and Other Pests Affecting Humans

Outcome #2**1. Outcome Measures**

Number of residents participating in CES Asthma Project activities in their homes.

2. Associated Institution Types

- 1862 Extension
- 1862 Research

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	100	380

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

The DC Department Health cites the District as having one of the highest rate of Asthma in the United States. thousand of hours of school and job time are lost annually and has put great stress on the medical and insurance systems.

What has been done

the Housing Environment Program held 148 sessions for 1019 persons and put out 5579 pieces of information on this subject.

Results

380 persons took steps to improve their environment by locating the source of insects and other pest and purchasing cleaning and with safer household products.

4. Associated Knowledge Areas

KA Code	Knowledge Area
721	Insects and Other Pests Affecting Humans

Outcome #3

1. Outcome Measures

Number of residents who are able to identify issues in their home related to asthma as a result of the CES Asthma Project.

2. Associated Institution Types

- 1862 Extension
- 1862 Research

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	225	380

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

The DC Department Health cites the District as having one of the highest rate of Asthma in the United States. thousand of hours of school job time is lost annually and has put great stress on the medical and insurance systems.

What has been done

The Housing Environment Program held 148 sessions for 1019 persons and put out 5579 pieces of information on this subject.

Results

380 persons took steps to improve their environment: locating the source of insects and other pest and purchasing cleaning and with safer household products; this groups generally agreed that the actions they took improved their household condition, air quality and the condition of their family members with Asthma.

4. Associated Knowledge Areas

KA Code	Knowledge Area
721	Insects and Other Pests Affecting Humans

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Appropriations changes
- Government Regulations
- Competing Programmatic Challenges

Brief Explanation

The Asthma Project was successful for the control group,lack of funding did not allow for the project to be expanded.

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

1. Evaluation Studies Planned

- Before-After (before and after program)

Evaluation Results

380 persons improved their environments, lessened the risk for their family members with Asthmas as well as 1019 persons became more knowledgeable about this subject.

Key Items of Evaluation

one

Program #28

V(A). Planned Program (Summary)

1. Name of the Planned Program

Center for Cooperatives & C.H. Kirkman, Jr. Resource Library for Cooperatives

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
608	Community Resource Planning and Development	100%		100%	
	Total	100%		100%	

V(C). Planned Program (Inputs)

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

Year: 2008	Extension		Research	
	1862	1890	1862	1890
Plan	1.0	0.0	0.0	0.0
Actual	1.8	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
71734	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
71734	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
1623	0	0	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

- Collaborate with 10 key coop agencies (through memberships) and key individuals to expand the training and services to 20,000co-op residents, 25 neighborhood based credit Unions and other coops. •Purchase, lease, borrow 18 coop training tapes from the National Association Housing Cooperatives and the National Cooperative Business Association and convert their formats for airing on Channel 19, publish to the 200 coops viewing dates and times. •Make available resource material from the C.H. Kirkman, Jr. Library to 300 Coop groups. •Train coop members. •Hold/participate in a minimum of 20 coop training sessions for 1,000 coop members and individuals in subsidized housing and maintain a resource library service to aid them. •Develop, maintain and update mailing list, fax list and e-mail list of the coops in the District of Columbia and resource groups serving coops. •Develop and maintain an advisory committee, that meets a minimum of twice a year, to gain stakeholders/customer input, ideas, and programs to meet their needs. •Support advocacy groups who promote legislation to protect coops from predatory practices and conversions. •Implement an awards program to recognize two DC Coops and two key individuals promoting co-ops in the District of Columbia.

2. Brief description of the target audience

Low to moderate income individuals in the District of Columbia, with emphasis on those in coop housing, low income and subsidized housing and first time home buyers.

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	20000	0	0	0
2008	4214	10000	0	0

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

Patent Applications Submitted

Year	Target
Plan:	0
2008 :	0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

	Extension	Research	Total
Plan	0	0	
2008	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Collaborate with 10 key coop agencies (through memberships) and key individuals to expand the training and services to 20,000 co-op residents, 25 neighborhood based credit Unions and other coops; Purchase, lease, borrow 18 coop training tapes from the National Association Housing Cooperatives and the National Cooperative Business Association and convert their formats for airing on Channel 19, publish to the 200 coops viewing dates and times; Make available resource material from the C.H. Kirkman, Jr. Library to 300 Coop groups; Train a minimum of 1,000 coop members; Develop a video tape series, webpage and links to provide continuous scheduled training and information on coop housing issues of Governance, Predatory Lending/Investments, Coop Principles, Roles, Rights and Responsibilities of Coop Directors, Managers and Members; Hold/participate in a minimum of 20 coop training sessions for 1,000 coop members and individuals in subsidized housing and maintain a resource library service to aid them; Develop, maintain and update mailing list, fax list and e-mail list of the coops in the District of Columbia and resource groups serving coops; Develop and maintain an advisory committee, that meets a minimum of twice a year, to gain stakeholders/customer input, ideas, and programs to meet their needs; Support advocacy groups who promote legislation to protect coops from predatory practices, conversions; and Implement a Bi-annual awards program to recognize two DC Coops and two key individuals promoting co-ops in the District of Columbia.

Not reporting on this Output for this Annual Report

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O No.	OUTCOME NAME
1	The number of individuals in coops and subsidized housing trained on the roles, rights, and responsibilities of coop members, managers, and directors.
2	Number of participates who have changed their attitudes about coop housing ownership in the District of Columbia.
3	Percentage of increase in the endowment for C. H. Kirkman, Jr. Library for Cooperatives.

Outcome #1**1. Outcome Measures**

The number of individuals in coops and subsidized housing trained on the roles, rights, and responsibilities of coop members, managers, and directors.

2. Associated Institution Types

- 1862 Extension
- 1862 Research

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	5000	1500

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

Gentrification has changed the face of Washington DC. More than 100,000 low to moderate income, minority and disadvantage residents have been forced out of Washington, DC. The public outcry brought on public/private actions to promote positive change for co-ops, other subsidized and low income housing development.

What has been done

In conjunction with the National Coop Bank, The National Cooperative Business Association, The Coalition for Housing and Community Development, The National Association of Housing Cooperatives and EMPOWER DC, CRED Participated as a presenter and resource person for 15 training sessions on coop issues. After a series of focus meetings, the National Cooperative Business Association developed and distributed a survey to over 25,000 coop members on issues affecting their co-ops. In addition CRED met 6 coop management companies to discuss the resources available to their member coops through the resource library.

Results

More than 1500 persons received training in the areas of Rules, Rights and Responsibilities of coop members, directors and managers. More than 10,000 were assisted through the National Coop Bank and the DC Housing Finance Agency restructure their mortgage loans and seek renewal of their subsidy programs.

4. Associated Knowledge Areas

KA Code	Knowledge Area
608	Community Resource Planning and Development

Outcome #2**1. Outcome Measures**

Number of participants who have changed their attitudes about coop housing ownership in the District of Columbia.

2. Associated Institution Types

- 1862 Extension
- 1862 Research

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	4000	4214

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Due to the issues of gentrification, the loss of 100,000 District residents and the threat to over 100,000 more, coops have become a means of addressing income and racial diversity.

What has been done

Emergency legislation to stop massive foreclosures, displacement through legal misuse of the law, the elimination of the Rental Accommodation Commission, and to restore funds to support the development of affordable housing came as an outgrowth of public outcry and public/private action. CRED hosted four quarterly affordable housing meetings and participated in the development of key pieces of information needed for the request for emergency legislation.

Results

The results were \$100 million dollars more was added to the Housing Production Trust funds to build affordable housing units, coops and subsidized units. 30,000 subsidized housing units were saved and an affordability percent was included in all future housing developments in the District.

4. Associated Knowledge Areas

KA Code	Knowledge Area
608	Community Resource Planning and Development

Outcome #3

1. Outcome Measures

Percentage of increase in the endowment for C. H. Kirkman, Jr. Library for Cooperatives.

2. Associated Institution Types

- 1862 Extension
- 1862 Research

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	50	25

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

The resource library is the third in the country and first on the east coast and is linked to the University of Wisconsin-Madison and the University of Southern California, the largest coop collections in the world. Once again coops are increasing becoming a way to address the issues of income, age and racial diversity. Federal and state support have been employed to build and maintain the viability of coops and subsidized housing programs.

What has been done

With the assistance of UDC Learning Resource Division and in conjunction with the national coop agencies, CRED has added 50 new resource books to the library, improved the facility by recognizing the libraries initial founders and developing a structure to receive electronic media. From the Founder's family, the resource library has received an additional \$25,000 to support the endowment.

Results

In-addition to developing and distributing resource guides to over 4000 persons on gentification and coop development, the resource library purchased and initiated the development of a data based program called Market Maker. This data base collects farmers to the end consumer information and is an attempt to bring fresh organically grown food products to disadvantaged communities in the District to address the issues of Obesity, Diabeties, and Hypertension. More than 400 Mid-Atlantic will be entered into this information system.

4. Associated Knowledge Areas

KA Code	Knowledge Area
608	Community Resource Planning and Development

V(H). Planned Program (External Factors)**External factors which affected outcomes**

- Appropriations changes
- Government Regulations

Brief Explanation

District government financial system vs the financial system at the university; inability to access interest from acquired endowment to build program capacity.

V(I). Planned Program (Evaluation Studies and Data Collection)**1. Evaluation Studies Planned**

- During (during program)
- Time series (multiple points before and after program)

Evaluation Results

From an action research propective, 1500 co-op members in the District received training paid for by national associates on the critical issuescooperatives, another 10,000 coop members were able to have their loan modified,and 2,000 were able to have their subsidies renewed and 6 pieces of emergency legislation were passed by the DC City Council to support affordable housing.

Key Items of Evaluation

Through a series of focus sessions, the The National Cooperative Business Association and the National Co-op Bank is distribruting a survey on issues related to the business of co-ops.Once released, CRED will share this information with the University and CREES

Program #29

V(A). Planned Program (Summary)

1. Name of the Planned Program

Promoting Businesses

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
602	Business Management, Finance, and Taxation	100%		100%	
	Total	100%		100%	

V(C). Planned Program (Inputs)

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

Year: 2008	Extension		Research	
	1862	1890	1862	1890
Plan	0.5	0.0	0.0	0.0
Actual	1.1	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
45014	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
45014	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

- Work with Re-Store DC, the Great Streets/Main Streets, the DC Office of SBA, the UDC/SBPA SBC and 15 CDCs to provide support for the development of 1,000 new businesses by offering a minimum of 24 community business entry-level training series and a direct service incubator system. •Participate in 30 marketing/development based activities for UDC/COES/CES throughout the city, which includes a community cooperative economic model to bring fresh organically grown and sold produce and consumer/producer coops for the expanding building industry. •Develop and maintain an advisory committee, that meets a minimum of twice a year, to gain stakeholders/customer input, ideas, and programs to meet their needs. •Expose the youth population to the ideas of business. •Develop and provide a resource center in conjunction with the UDC SBPA and a low interest/ high guaranteed loan program for loans from a special program of the SBA.

2. Brief description of the target audience

Small, new start and home based DC businesses.

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	1000	0	0	0
2008	178	100000	150	500

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

Patent Applications Submitted

Year	Target
Plan:	0
2008 :	0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

	Extension	Research	Total
Plan	0	0	
2008	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Work with restore DC, the Great Streets/Main Streets, the DC Office of SBA, the UDC/SBPA SBC and 15 CDCs to provide support for the development of 1,000 new businesses by offering a minimum of 24 community business entry-level training series and a direct service incubator system; Participate in 30 marketing/development based activities for UDC/COES/CES throughout the city, which includes a community cooperative economic model to bring fresh organically grown and sold produce and consumer/producer coops for the expanding building industry; Develop and maintain an advisory committee, that meets a minimum of twice a year, to gain stakeholders/customer input, ideas, and programs to meet their needs; Expose the youth population to the ideas of business (80,000 school age youth); and Develop and provide a resource center in conjunction with the UDC SBPA and a low interest/ high guaranteed loan program for \$500.00 to \$25,000 loans from a special program of the SBA.

Year	Target	Actual
2008	750	500

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O No.	OUTCOME NAME
1	Number of DC residents participating in CRED program activities.
2	Number of small business participants who changed their minds about developing and maintaining a successful business in the District of Columbia.
3	Percentage of businesses participating in the program that experienced a position change.

Outcome #1**1. Outcome Measures**

Number of DC residents participating in CRED program activities.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	1000	2500

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

While business is listed as the backbone of the American Economy, domestic small businesses have very limited success. Annually the District fails to meet its stated minimum of 35% to domestic contractors and 51% employment of District residents on District funded or matched federal contracts. This has been specifically troubling in light of the unemployment and underemployment rate.

What has been done

CRED has collaborated with the local SBA Office, the local Small and Disadvantaged Business Enterprise Office, the DC Taxicab Commission, and BES(T) Educational Services to provide training and financial assistance to 1000 persons interested in doing business in the District. CRED served as a presenter and resource person for 15 training events, 8 taxicab hearings, 6 coop food market sessions, attended 12 business development sessions, help coordinate two coop farmers markets and served as a presenter for the introduction for DC streetcars

Results

Through the use of the DC government outreach system, CRED was featured in print, on cable and email to more than 100,000 home monthly. CRED convened one session in each ward of the District on Zone v. meters for 8,000 cabdrivers and the riding public (The commission voted for meters), convened sessions on streetcabs in DC (26 community meetings), participated in 15 start up business training sessions and 12 developer sessions for over 2,000 persons attempting to do business with the city, held 4 sessions in small business taxes, 14 business incubator sessions, 2500 persons were effectively directly served through this program.

4. Associated Knowledge Areas

KA Code	Knowledge Area
602	Business Management, Finance, and Taxation

Outcome #2**1. Outcome Measures**

Number of small business participants who changed their minds about developing and maintaining a successful business in the District of Columbia.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	300	2436

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

The District has failed to meet its mandated 35% domestic contracts and 51% District employees on DC Funded and Federally matched contracts

What has been done

While the SBA, the DC Local Office of Small and Disadvantaged Businesses have streamlined their application processes, built a strategic partnership program, funded training and counseling session for small businesses the financial climate does not support small businesses.

Results

Applications for new small businesses were equaled by those discontinuing, filing bankruptcies and or never getting off the ground. Over 1,000 persons taking the taxicab training course were unable to get a license and Major contractor performed over 90% of construction contracts in the District and brought their own pool of subs. Of the 2500 that we directly reached only 10 decided not to develop a business in the District.

4. Associated Knowledge Areas

KA Code	Knowledge Area
602	Business Management, Finance, and Taxation

Outcome #3

1. Outcome Measures

Percentage of businesses participating in the program that experienced a position change.

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	50	50

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Annually the District failed to meet its stated goal of 35% domestic contracts and 51% employment.

What has been done

The District relaxed its standards to include the Metropolitan Statistical Area that allowed surrounding counties to be considered in Washington for business purposes.

Results

Registered agent offices and shared offices spaces grew rapidly to accommodate businesses operating in more than one jurisdiction. 50 of our business individuals move physical business locations to MD or VA and operated from there in the District. They only paid taxes and fees on that business they did in the district.

4. Associated Knowledge Areas

KA Code	Knowledge Area
602	Business Management, Finance, and Taxation

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Economy
- Appropriations changes
- Government Regulations

Brief Explanation

The downturn in the economy is the biggest factor in the loss of support for small and disadvantaged businesses.

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

1. Evaluation Studies Planned

- During (during program)

Evaluation Results

The lack of funds, credit, and contracts all but stop the development of small and minority domestic businesses in the District. Very little actual data has been gathered on this subject.

Key Items of Evaluation

None

Program #30

V(A). Planned Program (Summary)

1. Name of the Planned Program

Financial Literacy

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
801	Individual and Family Resource Management	100%		100%	
	Total	100%		100%	

V(C). Planned Program (Inputs)

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

Year: 2008	Extension		Research	
	1862	1890	1862	1890
Plan	1.0	0.0	0.0	0.0
Actual	1.7	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
58796	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
58796	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

- Conduct a minimum of 48 sessions for 1,000 individuals in the area of financial literacy; sessions to include but not be limited to debt management, home buyers, improving credit scores, income tax tips, education savings plans retirement planning, and budgeting.

- Purchase/borrow/develop and financial information to be delivered via website, video, cable and or through public venues, i.e. credit unions, libraries, schools, churches and community recreation centers to 125,000 persons annually in financial literacy.

Collaborate/Participate in the implementation of a train the trainer program for 80 trainers and 600 volunteers annually and to assist in preparing 7,000 sets of tax returns for disadvantaged DC residents. Participate in 30 community/marketing events with established organizations and groups that will share our goals with 10,000 plus DC residents directly and as many as a 100,000 indirectly seeking relief related to financial concerns. Establish a High School Financial Planning Program for junior and senior high school Students; this program will work through the train the trainer resource development model, with teachers being trained to include financial literacy into their existing curriculums; 10 session per school of approximately 30 students per class (60 per school) for 50 schools in 5 years and 3,000 students per year. CRED in conjunction with USDA will provide the training and monitor the progress and results of the program.

2. Brief description of the target audience

Basic Financial Literacy Program targets 10,000 participants a year. The participants will be freshman college students, youth, ex-offenders, and other financially vulnerable individuals, i.e. the elderly, low to moderate income and disabled and disadvantaged persons.

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	11600	0	0	0
2008	1019	100000	150	1000

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

Patent Applications Submitted

Year	Target
Plan:	0
2008 :	0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

	Extension	Research	Total
Plan	0	0	
2008	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- - Conduct a minimum of 48 sessions for 1,000 individuals in the area of financial literacy; sessions to include but not be limited to debt management, home buyers, improving credit scores, income tax tips, education savings plans retirement planning, and budgeting.
 - Collaborate/Participate in the implementation of a train the trainer program for 80 training and 600 volunteers annually and to assist in placing in 50 community agencies to prepare 7,000 sets of tax returns for disadvantaged DC residents.
 - Purchase/borrow/develop information to be delivered via website, video, cable and through public venues, i.e. credit unions, libraries, schools, churches and community groups to 125,000 persons annually; which contains information in financial literacy.
 - Participate in 30 community/marketing events with established organizations and groups that will put our message before 10,000 plus DC residents directly and as many as a 100,000 indirectly seeking relief related to financial concerns.
 - Establish a High School Financial Planning Program for JSH and SHS Students; this program will work through the train the trainer resource development model, with teachers being trained to include financial literacy into their existing curriculums; 10 session per school of approximately 30 students per class (60 per school) for 50 schools in 5 years and 3,000 students per year.

Year	Target	Actual
2008	9000	0

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O No.	OUTCOME NAME
1	Number of participants enrolled in the CAAB Individual Savings Plan.
2	Number of participants increasing their income tax refunds through tax planning.
3	Number of DC residents purchasing homes with some form of financial assistance.

Outcome #1**1. Outcome Measures**

Number of participants enrolled in the CAAB Individual Savings Plan.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	250	150

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

The serious economic downturn forced the federal and District government to expand financial assistance to District residents in financial distress and expand information and services around financial issues for the American population generally

What has been done

In response to the economic downturn and crisis, CRED expanded its financial literacy to in debt and crisis management strategies, collaborated with Capital Area asset builder, Inc. (CAAB, Inc.) The DC Department banking, securities and Insurance to promote the Individual Development Accounts program. This program matches the savings of its participants up to \$3,000 for the purpose of purchasing a home through HPAP, paying for Post-Secondary Education, starting a Business and improving their credit scores.

Results

Of the 1790 persons trained in basic financial literacy, 135 complete the 6 hour certificate course and along with 15 others were referred to the CAAB, Inc. program. Here, all 150 took advantage of the free credit report review with Consumer Counselors of America, which also provides credit repair techniques. Ten (10) applied to purchase homes through the DC HPAP program.

4. Associated Knowledge Areas

KA Code	Knowledge Area
801	Individual and Family Resource Management

Outcome #2**1. Outcome Measures**

Number of participants increasing their income tax refunds through tax planning.

2. Associated Institution Types

•1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	500	1500

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

IRS funds a number of programs to assist all levels of incomes with their tax returns. The payment of taxes funds government programs and services. More people go to jail for tax related matters than any crime.

What has been done

The Community Resource and Economic Development Unit (CRED) annually trains in conjunction with Community Tax Aid, the DC Tax and Revenue Division and IRS-DC 250 volunteers. In 2008, due to a lack of space and facilities, CRED assisted in training 50 individuals for the EITC and Child Tax Credit program.

Results

The 50 volunteers were placed in DC community locations, which included 10 libraries, 8 recreation centers 2 churches and sites in the UDC school of Business and the Law School. They prepared 1500 sets of federal and state tax returns. The EITC and Child tax Credit program returned an average of \$648.00 additional funds for an overall return of \$972,000. In-addition, CRED prepared 30 sets of taxes directly, maintained a hotline to answer tax questions through April 15, 2008, and held 15 community tax tips sessions for 300 persons.

4. Associated Knowledge Areas

KA Code	Knowledge Area
801	Individual and Family Resource Management

Outcome #3

1. Outcome Measures

Number of DC residents purchasing homes with some form of financial assistance.

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	100	10

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

The District through the Department of Housing and Community Development and the DC Housing Finance Agency promotes and supports affordable housing and housing for all.

What has been done

The Community Resource and Development Unit (CRED) assisted in promoting 4 quarterly home buying seminars with Home Free, the DC Department of Housing and the DC finance Agency for 200 persons

Results

Due to the economic downturn, only 10 of the 200 persons seeking assistance from HPAP received help during this period.

4. Associated Knowledge Areas

KA Code	Knowledge Area
801	Individual and Family Resource Management

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Economy
- Appropriations changes
- Government Regulations
- Competing Public priorities

Brief Explanation

The downturn in the US economy.

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

1. Evaluation Studies Planned

- Before-After (before and after program)
- During (during program)

Evaluation Results

135 individuals completed the certificate series, 150 had their credit report reviewed and then established a bank or credit union account.

Key Items of Evaluation

None

Program #31

V(A). Planned Program (Summary)

1. Name of the Planned Program

DC Food Handler Certification Program Model Project

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
712	Protect Food from Contamination by Pathogenic Microorganisms, Parasites, and Naturally Occurring Toxins	100%		100%	
Total		100%		100%	

V(C). Planned Program (Inputs)

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

Year: 2008	Extension		Research	
	1862	1890	1862	1890
Plan	0.5	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
50645	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
50645	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
11715	0	0	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

- 20 clock hour classroom instruction on food handler certification regulations
- DC Code Examination
- National Exporior Examination or Serve Safe National Examination
- CNDH Course Outline
- Restaurant Association Videos
- Practice Examinations

2. Brief description of the target audience

- Non-commercial agency staff members including: Day care centers, churches, recreation centers, meals programs for elderly, group homes, non-profits
- Ongoing participation food handlers

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	400	0	0	0
2008	788	0	0	0

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

Patent Applications Submitted

Year	Target
Plan:	0
2008 :	0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

	Extension	Research	Total
Plan	0	0	
2008	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- - 20 clock hour classroom instruction on food handler certification regulations
 - DC Code Examination
 - National Examination or Serve Safe National Examination
 - CNDH Course Outline
 - Restaurant Association Videos
 - Practice Examinations

Year	Target	Actual
2008	300	788

V(G). State Defined Outcomes**V. State Defined Outcomes Table of Content**

O No.	OUTCOME NAME
1	Percentage of decrease in the risk factors for food borne illness.
2	Number of Participants gaining awareness, knowledge and skills in Food Handling techniques.
3	Number of participants scoring 70% or higher on post test and national examination.

Outcome #1**1. Outcome Measures**

Percentage of decrease in the risk factors for food borne illness.

2. Associated Institution Types

- 1862 Extension
- 1862 Research

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	100	100

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

Foodborne illness results in a cost of \$7.7 to \$23 billion per year to consumers, the food industry, and the national economy.

What has been done

The value of food safety education training is essential to the sustainability of food safety practices in the District of Columbia. Mandatory certification of food handlers is required in the District of Columbia.

Results

Of the 788 individuals participating in the DC food handler training course, 98% passed the national certification examination on the first attempt.

4. Associated Knowledge Areas

KA Code	Knowledge Area
712	Protect Food from Contamination by Pathogenic Microorganisms, Parasites, and Naturally Occurring Toxins

Outcome #2**1. Outcome Measures**

Number of Participants gaining awareness, knowledge and skills in Food Handling techniques.

2. Associated Institution Types

- 1862 Extension
- 1862 Research

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	400	788

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

Food safety is a public issue. An outbreak of food borne illness will negatively impact the economy of the District of Columbia.

What has been done

The District requires mandatory training and successful passing of the national examination in order to handle food for the public.

Results

As a result of the training sessions and the work of our program, 90% of food handlers in day care centers for young children are now certified based upon DC standards.

4. Associated Knowledge Areas

KA Code	Knowledge Area
712	Protect Food from Contamination by Pathogenic Microorganisms, Parasites, and Naturally Occurring Toxins

Outcome #3

1. Outcome Measures

Number of participants scoring 70% or higher on post test and national examination.

2. Associated Institution Types

- 1862 Extension
- 1862 Research

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	375	788

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Safe and sanitary handling of food in public facilities is a major health concern for all residents and visitors in the District of Columbia.

What has been done

Classroom instruction was provided for low-literate hard-to-reach food handlers in DC. Use of various types of educational resources for adults proved to be an essential tool for providing participants with more than one method of receiving classroom instruction. Ensuring that food handlers are knowledgeable of public regulations and the practice of sanitary handling of help reduce food borne illnesses.

Results

The results of the program showed an increase in knowledge, and the concomitant change in associated behavior among program participants.

4. Associated Knowledge Areas

KA Code	Knowledge Area
712	Protect Food from Contamination by Pathogenic Microorganisms, Parasites, and Naturally Occurring Toxins

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Economy
- Appropriations changes
- Public Policy changes
- Government Regulations
- Competing Programmatic Challenges
- Populations changes (immigration,new cultural groupings,etc.)

Brief Explanation

All of the goals were met.

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

1. Evaluation Studies Planned

- During (during program)

Evaluation Results

Key Items of Evaluation

Program #32

V(A). Planned Program (Summary)

1. Name of the Planned Program

DC Drinking Water Blind Taste Testing

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
111	Conservation and Efficient Use of Water	100%		100%	
	Total	100%		100%	

V(C). Planned Program (Inputs)

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

Year: 2008	Extension		Research	
	1862	1890	1862	1890
Plan	0.5	0.0	0.0	0.0
Actual	0.9	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 26677	1890 Extension 0	Hatch 0	Evans-Allen 0
1862 Matching 26677	1890 Matching 0	1862 Matching 0	1890 Matching 0
1862 All Other 0	1890 All Other 0	1862 All Other 0	1890 All Other 0

V(D). Planned Program (Activity)

1. Brief description of the Activity

To gather information on consumers' preferences and consumption of drinking water, specifically, in relation to the district of Columbia tap water, the following activities were implemented:

- IRB Committee
- Instruments development
- Taste testing of samples
- One-on one taste testing
- Data collection
- Development of fact sheets

2. Brief description of the target audience

- Individuals who live and work in DC
- Community based organizations and agencies

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	500	0	0	0
2008	539	0	0	0

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

Patent Applications Submitted

Year	Target
Plan:	0
2008 :	0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

	Extension	Research	Total
Plan	0	0	
2008	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- - IRB Committee
 - Instruments development
 - Taste testing of samples
 - One-on-one taste testing
 - Data Collection
 - Development of Fact Sheets

Not reporting on this Output for this Annual Report

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O No.	OUTCOME NAME
1	Participants who have an increased knowledge on DC tap water.
2	Number of participants changing their attitudes/belief about DC tap water.
3	Number of participants who drink DC tap water.

Outcome #1**1. Outcome Measures**

Participants who have an increased knowledge on DC tap water.

2. Associated Institution Types

- 1862 Extension
- 1862 Research

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	500	539

3c. Qualitative Outcome or Impact Statement**Issue (Who cares and Why)**

It has been reported that one in eight Americans is exposed to potentially harmful microbes, lead, pesticides, or radioactive radon whenever they drink tap water or take a shower. The increase risk of waterborne infectious diseases increases when filtration and other standard water treatment measures fails. Consumers use many different filtering processes to affect water taste and make the water safer for use. However, taste is most often used as a determinant of drinking water preferences, where DC tap water is assumed to be the least favorable.

What has been done

Distribution of educational materials, conducting of focus groups, and data collection took place over the year. Blind taste testing to a cross-sectional sample of the population of individuals who live and work in the District of Columbia in order to determine factors related to the selection of drinking water by consumers.

Results

Result of the study showed participants preferred source of drinking water is spring water. However, tap water was second with 30% when compared to spring water with 34%. The findings of the study also indicate that at least half of the participants meet the dietary recommendations for water consumption. Factors related to the selection of drinking water may include the influence of the media and the participant's perception of the quality and safety of the water they will consume.

4. Associated Knowledge Areas

KA Code	Knowledge Area
111	Conservation and Efficient Use of Water

Outcome #2**1. Outcome Measures**

Number of participants changing their attitudes/belief about DC tap water.

2. Associated Institution Types

- 1862 Extension
- 1862 Research

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	400	539

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

The DC tap water supply is a public health and public policy issue. The safety of the water supply is a major concern of consumers and the general public. national elected officials who work and/or live in DC must use the tap water supply.

What has been done

Closer monitoring by government officials has been implemented. Consumers are more aware and alert to news bulletins about the DC water supply.

Results

The findings showed in a blind taste testing project, consumers were unable to identify tap water from the other choices.

4. Associated Knowledge Areas

KA Code	Knowledge Area
111	Conservation and Efficient Use of Water

Outcome #3

1. Outcome Measures

Number of participants who drink DC tap water.

2. Associated Institution Types

- 1862 Extension
- 1862 Research

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2008	250	539

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Those who live and/or work in the District of Columbia.

What has been done

Increased awareness among the general public.

Results

Closer monitoring of the DC water supply.

4. Associated Knowledge Areas

KA Code	Knowledge Area
111	Conservation and Efficient Use of Water

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Appropriations changes
- Public Policy changes
- Government Regulations
- Competing Public priorities
- Populations changes (immigration,new cultural groupings,etc.)

Brief Explanation

The time of the year data were collected.

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

1. Evaluation Studies Planned

- Before-After (before and after program)
- During (during program)

Evaluation Results

Questionnaire instrument was administered to project participants. Each participant was asked to taste four samples of water and complete all evaluation documents. Each sample was ranked according to preference order, with 1 being the most favorable and 4 being the least favorable. A double blind number identified each sample of water the participant tasted. After participant completed the taste test, he completed a survey which involved ranking each cup of water in order of preference. Participant was unaware of what type of water he was choosing.

Key Items of Evaluation

Participants reported on the amount of water consumed daily and the frequency of sugary drinks used. Data has been analyzed and posted for each type of water. The preferred source of drinking water is spring water followed by tap water. Factors related to the selection of drinking water may include the influence of the media and the participant's perception of the quality and safety of the water one is willing to consume.

Program #33

V(A). Planned Program (Summary)

1. Name of the Planned Program

An Integrated Approach to Prevention of Obesity in High Risk Families

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
703	Nutrition Education and Behavior	100%		100%	
	Total	100%		100%	

V(C). Planned Program (Inputs)

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

Year: 2008	Extension		Research	
	1862	1890	1862	1890
Plan	0.0	0.0	0.1	0.0
Actual	0.0	0.0	0.3	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
0	0	115820	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
0	0	39102	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

In this multi-state project, my part is to conduct data analysis of obesity data. I proposed a fuzzy membership function model to define obesity resilience. I have been waiting for Objective 2 group to select a list of variables from the NHANES data, which can be used to define the obesity resilience model. Meanwhile, I have been working with Prof. Yi Lu at Prairie View A&M University on a new methodology of variable association analysis to help the selection of variables from the overwhelming amount of variables in the NHANES data. This new approach proposes hierarchical clustering for feature reduction and was tested on Diabetes and heart disease data. It will be tested on the NHANES data once that data is preprocessed by Group two. The publications Dr. Yi Lu and I made are listed in the publication section of this report. One conference publication and one journal publication have been made. Dr. Yi Lu presented the results at the international conference which the paper was submitted to and accepted.

2. Brief description of the target audience

Target audience will consist of resilient and non resilient families with children ages 4 - 10 years.

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	0	0	0	0
2008	0	0	0	0

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

Patent Applications Submitted

Year	Target
Plan:	0
2008 :	0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

	Extension	Research	Total
Plan	0	1	
2008	0	1	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Development of new or improvement of existing tools for measuring the effectiveness of the interventions targeted to childhood overweight in low income families.

Year	Target	Actual
2008	0	0

Output #2

Output Measure

- Identification of objective, physiological-based measures that correspond to target behaviors (bio-behavioral markers) for use later as measures of intervention progress and success or means for tailoring interventions in ways that will be most effective for specific groups and subgroups.

Year	Target	Actual
2008	0	0

V(G). State Defined Outcomes**V. State Defined Outcomes Table of Content**

O No.	OUTCOME NAME
1	More effective programs and student experiences with extension and research.
2	Advances in the study of obesity, particularly an understanding of various inputs and interactions of family and child, SES, nutrition, physiology and behavior, will result from this work, opening doors of opportunity for development of effective solutions to reverse trends in childhood obesity.

Outcome #1

1. Outcome Measures

More effective programs and student experiences with extension and research.

Not reporting on this Outcome for this Annual Report

Outcome #2

1. Outcome Measures

Advances in the study of obesity, particularly an understanding of various inputs and interactions of family and child, SES, nutrition, physiology and behavior, will result from this work, opening doors of opportunity for development of effective solutions to reverse trends in childhood obesity.

Not reporting on this Outcome for this Annual Report

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Other ()

Brief Explanation

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

1. Evaluation Studies Planned

- Before-After (before and after program)

Evaluation Results

Key Items of Evaluation