

V(A). Planned Program (Summary)

Program # 22

1. Name of the Planned Program

5.3 Science, Engineering and Technology 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
806	Youth Development				
	Total				

V(C). Planned Program (Inputs)

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

Year: 2010	Extension		Research	
	1862	1890	1862	1890
Plan	35.0	0.0	0.0	0.0
Actual	{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}

2. Institution Name: Cornell University

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

Extension		Research	
Smith-Lever 3b & 3c	1890 Extension	Hatch	Evans-Allen
{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}
1862 Matching	1890 Matching	1862 Matching	1890 Matching
{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}
1862 All Other	1890 All Other	1862 All Other	1890 All Other
{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}

2. Institution Name: NY State Agricultural Experiment Station

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

Extension		Research	
Smith-Lever 3b & 3c	1890 Extension	Hatch	Evans-Allen
{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}
1862 Matching	1890 Matching	1862 Matching	1890 Matching
{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}
1862 All Other	1890 All Other	1862 All Other	1890 All Other
{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}

V(D). Planned Program (Activity)

1. Brief description of the Activity

NO LONGER REPORTING ON THIS PLANNED PROGRAM

This is a comprehensive, statewide educational program entailing a wide variety of applied research and multiple education methods depending on local context and need. Campus-based faculty and extension associates, the science and technology program work team, the NYSACCE4-HE professional development committee and county-based educators all are involved in designing, implementing, and evaluating tailored educational efforts depending on the focus and scope of their role.

Activities will include:

- Connecting kids to science and technology at Cornell University through programs at local Cornell Cooperative Extension associations, educational events at Cornell and by building relationships with Cornell Departments, faculty, staff and students.
- Enhancing and maintaining accessibility to hands-on science and technology curriculum that has a youth development basis and a connection to land grant universities through the NYS 4-H Resource Directory.

2. Brief description of the target audience

The target audiences for 4-H Science and Technology programming and curricula are youth in grades K-12 and adults who work with youth. These include, but are not exclusive of 4-H Leaders, 4-H Junior Leaders, and 4-H youth members, parents of 4-H members, adult leaders and the youth involved in after school and out-of-school-time programs, summer camp staff and youth campers, classroom teachers and their students in grades K-12, and leaders and youth in other youth serving organizations such as Scouts. Training one adult leader will result in a significant multiplier of youth who will participate in the activity from which their adult leader received training. This audience is reached directly through educational classes and workshops, individual consultations, group consultations and hands-on-curricula. These may be provided to youth or to their adult leaders. Additional contacts are made through newsletter articles highlighting curricula and curriculum reviews. The New York State 4-H Curriculum Resource Directory website provides an opportunity for any person to search for approved curricula in any Science and Technology topic, read a description of the curricula and then purchase it.

V(E). Planned Program (Outputs)

1. Standard output measures

2010	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Plan	15000	240000	85000	300000
Actual	0	0	0	0

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

Patent Applications Submitted

Year: 2010
 Plan: 0
 Actual: {No Data}

Patents listed

{No Data Entered}

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

2010	Extension	Research	Total
Plan	0	0	
Actual	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- # non-credit instructional activities directed to this program.
 Not reporting on this Output for this Annual Report

Output #2

Output Measure

- # non-credit instructional activity contact hours directed to this program.
 Not reporting on this Output for this Annual Report

Output #3

Output Measure

- # of 4-H members enrolled in Science and Technology project areas (as reported on ES-237).
 (5.3.1a)

Not reporting on this Output for this Annual Report

Output #4

Output Measure

- # of youth reached through school enrichment, special interest programs, 4-H camp, and after school programs coded as science and technology related (as reported on ES-237). (5.3.1b)
- Not reporting on this Output for this Annual Report

Output #5

Output Measure

- # of 4-H and other youth program educators and adult volunteers participating in programs on SET for youth (5.3.1c)
- 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	increased number and more diverse pool of youth pursuing education and careers in SET related fields (5.3.1j)
2	# participants demonstrating increased awareness of SET, improved SET skills including scientific methods, knowledge of specific sciences, and/or increased awareness of opportunities to contribute to society using SET skills. (5.3.1d)
3	# of participants that report improved success in school science and/or increased interest in science and technology. (5.3.1e)
4	# youth applying SET learning to contexts outside 4-H programs, e.g., school classes, science fairs, invention contests, etc. (5.3.1f)
5	# of youth documented to become contributing participants in sci/tech related issues in their communities and/or choose sci/tech related professions and who attribute same at least in part to involvement with the program. (5.3.1i)
6	# youth expressing interest/demonstrating aspirations towards SET careers, e.g., career fairs, job shadowing, volunteer work or internships (5.3.1g)
7	# youth adopting and using new methods or improved technology (5.3.1h)
8	increased and more diverse pool of trained teachers, educators, scientists (5.3.1k)
9	increased science literacy in general population(5.3.1l)

Outcome #1

1. Outcome Measures

increased number and more diverse pool of youth pursuing education and careers in SET related fields (5.3.1j)

Not Reporting on this Outcome Measure

Outcome #2

1. Outcome Measures

participants demonstrating increased awareness of SET, improved SET skills including scientific methods, knowledge of specific sciences, and/or increased awareness of opportunities to contribute to society using SET skills. (5.3.1d)

Not Reporting on this Outcome Measure

Outcome #3

1. Outcome Measures

of participants that report improved success in school science and/or increased interest in science and technology. (5.3.1e)

Not Reporting on this Outcome Measure

Outcome #4

1. Outcome Measures

youth applying SET learning to contexts outside 4-H programs, e.g., school classes, science fairs, invention contests, etc. (5.3.1f)

Not Reporting on this Outcome Measure

Outcome #5

1. Outcome Measures

of youth documented to become contributing participants in sci/tech related issues in their communities and/or choose sci/tech related professions and who attribute same at least in part to involvement with the program. (5.3.1i)

Not Reporting on this Outcome Measure

Outcome #6

1. Outcome Measures

youth expressing interest/demonstrating aspirations towards SET careers, e.g., career fairs, job shadowing, volunteer work or internships (5.3.1g)

Not Reporting on this Outcome Measure

Outcome #7

1. Outcome Measures

youth adopting and using new methods or improved technology (5.3.1h)

Not Reporting on this Outcome Measure

Outcome #8

1. Outcome Measures

increased and more diverse pool of trained teachers, educators, scientists (5.3.1k)

Not Reporting on this Outcome Measure

Outcome #9

1. Outcome Measures

increased science literacy in general population(5.3.1l)

Not Reporting on this Outcome Measure

V(H). Planned Program (External Factors)

External factors which affected outcomes

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

Brief Explanation

{No Data Entered}

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

1. Evaluation Studies Planned

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

{No Data Entered}

Key Items of Evaluation

{No Data Entered}