

**Michigan State University Extension
1999-2000 Annual Report of
Accomplishments and Results**

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Overview

Michigan State University Extension (MSUE) uses an ecological model in approaching community needs by providing educational programs and information at multiple levels, which results in blending of funding sources, programs crossing over goal areas, integration of research and educational instruction, and multiple delivery approaches (direct and in-direct). For example, manure management in Michigan plays a critical role in agriculture, environment, and community development, which is addressed by multiple resources (federal, state, county, and other) and through multiple Area of Expertise (AoE) teams.

Table 1. shows the overall expenditures for MSUE for the 1999-2000 federal programming year to be over \$74 million with \$8 million being Federal B and C formula dollars. These dollars have been critical in contributing to base programming in the counties as well as enhancing the programs through match for state and county dollars. Due to the fact that Federal 3B and 3C dollars are integrated into virtually every program of MSUE, the following report reflects the whole rather than a part, where it is believed the whole is greater than it's parts. One part that is missing from the following is the in-kind contributions that range from volunteer time (over 25,000 volunteers assisted in MSUE in 1999-2000) to tangible resources, such as building space, materials, and travel.

Goal	Fed 3b&c	Fed 3d	State	Local	Other	Total
1) Agriculture	1,696,686	155,173	7,647,884	4,317,480	1,990,796	15,808,019
2) Food Safety	795,869	615,229	3,769,104	2,158,740	2,379,375	9,718,317
3) Food, Nutrition, and Health	824,917	1,338,473	3,158,922	3,238,110	4,156,022	12,716,444
4) Environmental	1,696,686	128,861	6,611,983	4,317,480	2,288,638	15,043,648
5) Community, Human, and Youth Development	2,999,633	33,601	7,468,945	7,555,590	2,227,229	20,284,999
Total	8,013,791	2,271,337	28,656,838	21,587,402	13,042,060	73,571,428

Table 1.
Overall MSU Extension Expenditures by Source of Funding and Federal Goal

Graph 1. shows 11% of MSUE funds were **Federal 3b and 3c**, 3% **Federal 3d** (mainly EFNEP), 39% **State**, 29% **County**, and 18% **Other** (competitive grants – multiple sources).

Graph 1.

Overall 1999-2000 MSU Extension Expenditures by Source of Funding

Graph 2. shows overall funding for MSUE by Federal Goals: 21% of funding involved programs that addressed **Goal 1)** An agricultural system that is highly competitive in the global economy; 13% for **Goal 2)** A safe and secure food and fiber system; 17% for **Goal 3)** A healthy, well-nourished population; 20% for **Goal 4)** Greater harmony between agriculture and the environment; and 29% for **Goal 5)** Enhanced economic opportunity and quality of life for Americans.

Graph 2.

Overall 1999-2000 MSU Extension Funding by Federal Goal

MSUE is dedicated to educating tomorrow's leaders and scholars. Innovative and hardworking faculty and staff at MSUE create knowledge and extend learning to serve Michigan, the nation and the international community. At MSU, faculty and staff members are expected to be active, learner-focused scholars, exemplifying scholarship across the mission. The essence of this scholarship is the thoughtful discovery, transmission and application of knowledge that is based in the ideas and methods of recognized disciplines, professions and interdisciplinary fields. What qualifies an activity as scholarship is that it be deeply informed by the most recent knowledge in the field, that the knowledge is skillfully interpreted and deployed, and that the activity is carried out with intelligent openness to new information, debate and criticism. The primary mechanism for educational program planning, implementation and evaluation for Michigan State University Extension is the Area of Expertise (AoE) team concept that brings stakeholders, collaborators, faculty, field staff, and communities together for community need assessments, prioritization of MSUE programming goals, program development and implementation, and assessment of impact.

In 1999-2000, through the efforts of thirty-four AoE Teams and volunteers, MSUE reached almost a half million people (499,220) directly through educational programs and over 3 million indirectly through newsletters, media presentations, and internet. Table 2. shows the number of participants reached directly for each of the five Federal Goal areas.

Goal Area	Adult	Youth	Total	%
Agriculture	82,170	14,498	96,668	0.19
Food Safety*	16,730	14,060	30,790	0.06
Food Nutrition and Health*	38,581	38,201	76,782	0.15
Environmental	27,298	20,812	48,110	0.10
Community, Human and Youth Development**	79,270	167,600	246,870	0.49
	244,049	255,171	499,220	

* To avoid duplication, participants who received both food safety and food nutrition were counted only once (30% Food Safety and 70% Food, Nutrition, and Health).

** To avoid duplication, youth who crossed goals were not counted again in youth development.

Table 2.
Total Participants Reached Directly by Federal Goal

Graph 3. shows the ethnic distribution of 499,220 participants. Eighty percent (80%) of the participants were Caucasian, 13% African American, 3% Hispanic, 2% Native American, 1% Asian, and 1% Multi-Cultural, which is representative of Michigan's population: 80.9% Caucasian, 14.3% African American, 2.8% Hispanic, .6% Native American, and 1.7% Asian (Multi-Cultural was not used).

Graph 3.
Percentage of Participants by Ethnic Groups

In 1999-2000 MSU Extension used the 34 Area of Expertise (AoE) Teams as the central vehicle to assess community needs, involve stakeholders and community members in prioritizing programming needs, develop the five-year Plan of Work, integrate research with educational instruction and information dissemination, implement the program, and assess impact. In addition, MSUE utilized local County Extension Councils, advisory groups, informal focus groups, collaborator input, and survey data to identify the critical issues and the underserved/under-represented populations. Some of the critical issues or key themes addressed in 1999-2000 include:

- Agricultural Profitability and Adding Value to New and Old Agriculture Products,
- Emerging Infectious Diseases (Bovine TB),
- Precision Agriculture,
- Ornamentals/Green Agriculture,
- Food Safety,
- HACCP,
- Birth Weight,
- Human Health,
- Human Nutrition,
- Agricultural Waste,
- Forest Crops,
- Forest Resource Management,
- Integrated Pest Management,
- Land Use,
- Natural Resources Management,
- Nutrient Management,
- Pesticide Application,
- Recycling, Riparian Management,
- Sustainable Agriculture,
- Water Quality,
- Yard Waste/Composting,
- Agricultural Financial Management,
- Character Education,
- Child Care,
- At-Risk Youth,
- Community Development,
- Family Resource Management,
- Leadership Training and Development,
- Parenting,
- Promoting Housing Programs,
- Tourism,
- Youth Development.

In addition, MSUE in 1999-2000 implemented a new web-based information system that provides better information, accountability, and more accessibility to all MSUE staff on community needs, stakeholder input, advisory groups, collaborators, teamwork, diversity, civil rights information, integration of research to the field, outputs, and outcomes. The Extension Information System (EIS) also uses the logic model that helps to identify needs, goals, inputs, outputs, and outcomes. It also helps staff learn from each other.

MSUE also provided multicultural training throughout the state to build the skills of MSUE staff in working with diverse populations, which has resulted in more initiatives focusing on reaching diverse and underserved audiences.

Table 3. below shows the grouping of AOE Teams by Federal Goal. The number of participants reached for each of the AOE's is provided (note that some AOE Teams could have fallen in more than one Federal Goal):

	Adults	Youth	Total
Goal 1 - Agriculture			
Consumer Horticulture	688	678	1,366
Equine	26,424	2,638	29,062
Food Safety	5,016	3,159	8,175
Food Crops	302	100	402
Food Crops	25,099	4,997	30,096
Food Crops	2,022	49	2,071
Food Safety/Pastering/Grazing	949	6	955
Food Safety	1,546	1	1,547
Food Safety -Overall	11,550	2,281	13,831
Food Safety/Landscape	3,731	1	3,732
Food Safety -Overall	1,610	12	1,622
Food Safety	17	6	23
Food Safety	102	2	104
Food Safety	661	559	1,220
Food Safety	45	0	45
Food Safety	2,408	9	2,417
	82,170	14,498	96,668
Goal 2 - Food Safety			
Food Safety*	8,365	7,030	15,395
Goal 3 - Food, Nutrition, and Health			
Food, Nutrition & Health*	46,946	45,231	92,177
Goal 4 - Environmental			
Environment	2,886	363	3,249
Environment	6,541	1,971	8,512
Environment	426	1	427
Environment	1,915	3,219	5,134
Environment	5,033	3,730	8,763

er Quality	9,599	11,528	21,127
stmas Trees	898	0	898
	27,298	20,812	48,110
l 5 – Community, Human, & Youth			
munity Development	4,689	238	4,927
conomic Development	2,163	1	2,164
amily Resource Management	6,688	1,541	8,229
l	6,543	207	6,750
nan Development	19,531	11,850	31,381
dNet	1,045	372	1,417
er	14,373	10,008	24,381
e & Local Government	2,035	37	2,072
rism	4,445	6,227	10,672
nteer Development	5,552	15,036	20,588
th Development**	12,206	122,083	134,289
	79,270	167,600	246,870

* To avoid duplication, participants who received both food safety and food nutrition were counted only once.

** To avoid duplication, youth who crossed goals were not counted again in youth development.

Table 3.
Total Participants Reached Directly by AOE by Federal Goals

Table 4. shows that in 1999-2000, MSUE staff consisted of 1094 Full Time Equivalent (FTE) with 49% Professional (538 FTE's), 21% Para-Professional (231 FTE's), and 29.7% (325 FTE's) office and clerical staff. Twenty five percent of the FTE's (279 FTE'S) were county employees supporting MSU Extension educational programs.

	Goal 1	Goal 2	Goal 3	Goal 4	Goal 5	Total
Professional	133	49	57	129	170	538
Para-Professional	16	53	118	17	27	231
Office/Clerical	79	43	33	78	92	325
	228	145	208	224	289	1094

Table 4.
Total FTE by Professional/Para-Professional by Federal Goal

Graph 4. shows the percentage of FTE by Federal Goal for Professional Staff, where the largest group fell in Goal 5 (Community, Human, and Youth Development).

Graph 4.
Percentage of FTE's by Professional

In Graph 5 the chart shows Goal 3 (Food, Nutrition, and Health) with the greatest percentage of Para-Professionals providing programming at 51%.

Graph 5.
Percentage of FTE's by Para-Professional

Overview of Goal 1: An agricultural system that is highly competitive in the global economy

Almost 100,000 participants were directly involved in MSUE educational programs that focused on the agricultural system. Table 5. shows the number of participants and the Federal Key Themes for each of the sixteen AoE Teams that worked in Goal 1. Key themes addressed were animal production efficiency, agricultural profitability, emerging infectious diseases, home lawn and gardening, ornamentals/green agriculture, adding value, precision agriculture, grazing, biotechnology, niche marketing, and small farm viability.

Goal 1	Adults	Youth	Total	
Beef	688	678	1,366	Animal Production Efficiency, Profitability, Emerging Infections
Consumer Horticulture	26,424	2,638	29,062	Home Lawn and Garden, Ornamentals/Green Agriculture
Dairy	5,016	3,159	8,175	Animal Production Efficiency, Profitability, Emerging Infections
Equine	302	100	402	Animal Production Efficiency, Value
Field Crops	25,099	4,997	30,096	Adding Value, Precision Agriculture, Profitability, I

Table 5.
Number of Participants and
Key Themes by AoE for
Federal Goal 1.

	Goal 1 (continued)	Adults	Youth	Total	
	Floriculture	2,022	49	2,071	Adding Value, Agric Profitability, Biotechnol Ornamentals/Gree
Key themes in other goal areas addressed by these AOE Teams were agricultural waste management, IPM, land use, nutrient management, water quality, sustainable agriculture, and financial management.	Forage/Pastering/Grazing	949	6	955	Adding Value, Grazing, Infectious Disease
	Fruit	1,546	1	1,547	Adding Value, Ag Pro Niche Market, IP
	Livestock -Overall	11,550	2,281	13,831	Animal Production Eff Agricultural Profitability, Infectious Disease
	Nursery/Landscape	3,731	1	3,732	Home Lawn and Gard Ornamentals/Gree
	Ornamentals -Overall	1,610	12	1,622	Adding Value, Agric Profitability, Biotechnol Ornamentals/Gree
A sampling of successes in the Goal 1 area were: – Sixty-seven of 72 farmers (93%) attending a training on value-added agriculture indicated they would make some fundamental changes in their production /marketing practices to generate a customer preferred value-added product on their farm.	Poultry	17	6	23	Adding Value, Animal P Efficiency, Manure Man
	Sheep	102	2	104	Animal Production Efficie Farm Viability
	Swine	661	559	1,220	Adding Value, Animal P Efficiency, Manure Man
	Turfgrass	45	0	45	Agricultural Profita Ornamental/Gree
	Vegetables	2,408	9	2,417	Adding Value, Preci Agricultural Profitabili
– Actions planned by 700 farm managers as a result of attending the winter dairy meetings included; systematic mastitis evaluation (54%), standard operating procedures (50%), systematic health evaluations		82,170	14,498	96,668	

(45%), written action plans (40%), initiation of management teams (31%), and 65% said the program made them review their current practices

- Utilizing precision agriculture, the ability to mark, map and relocate weed infestations allowed farmers to return the next spring and spray only the marked patches. This post-emergence spray has led to less total herbicide per acre. In the second year, this was repeated and by the third growing season the weed being treated was eliminated.
- For the area of grazing, 94% of 21 farmers indicated they would use either the Growing Degree Days or a Peaq stick to gauge when to harvest alfalfa for top quality. In addition, there was a 50% increase in the number of producers that indicated they would use the new packing methods discussed in training when they put up silage.
- Organic production interest continued to grow with over 120 participants included on the organic mailing list. Through newsletters and training, participants share research and experiences that have helped them fine-tune their systems. Eighty organic agriculture producers were trained. Evaluation results indicated 71% planned on making changes based on local organic educational events. One farm developed a direct marketing customer base as a result of training.

The AoE Teams in Goal 1 met their 1999 -2000 Plan of Work goals by reaching their targeted population. All teams and members have become more active in recruiting stakeholder input and involving collaborators in setting priorities, designing and implementing programs. In addition, all teams are engaged in identifying underserved populations and developing strategies and programs to address these populations. The following examples from EIS demonstrates this:

Key Theme-Adding Value to New and Old Agriculture
Educational Initiative Title: Value Added Agriculture
George Silva: Saginaw, Barry, and Eaton Counties

Description of Program

MSU Extension has played a critical role in launching a concerted educational outreach and leadership development program in value added agriculture in 3 counties in Michigan. MSUE has helped to identify potential new crops and production practices for traditional farmers that have increased marketing opportunities and farm incomes. Declining grain prices, plant closings, and intense competition for agricultural commodities have created a sudden need to explore alternative marketing strategies. The recent establishment of producer owned, value added processing cooperatives in the Red River Valley region have provided farmers with opportunities to increase sales and maximize profits. Value added is a process of increasing the economic value and consumer appeal of an agriculture commodity. It is a relatively new concept to many traditional producers, and involves significant capital, teamwork, and integration of diverse segments of the food industry. It has required concerted educational outreach and leadership development. The program focused on crop and livestock producers of Eaton, Barry and Saginaw Counties as well as small and big scale producers. Collaborators consisted of field and campus staff, MSU Citizens Elevator, Charlotte, Michigan Corn Marketing Board, Michigan Soybean Promotion Committee, Wheat 2000, Local Farm Bureau, USDA Eaton/Ionia Conservation District, NRCS, Michigan Department of Agriculture, Eaton/Barry Innovative Farmers, Master Gardener Volunteers, and Pioneering Organic Egg Producer.

Impact

In collaboration with Michigan Corn Marketing Program, MSUE hosted 2 corn processing plant (Ethanol) promotional meetings in the Eaton, Ingham, Barry and Saginaw counties. This effort was to highlight alternative means of utilizing corn and potentially increase farm incomes. The first meeting was an introductory meeting about the prospects of ethanol production as a profitable enterprise in Michigan, attended by 72 farmers. The second meeting, attended by 55 farmers, discussed specifics about the processing plant ethanol capacity, by-products such as animal feed, capital investment, membership costs and privileges, stock offerings, and financial risks. The tour we conducted enabled producers to witness how value added agriculture enterprises have enabled Thumb area soybean producers to increase net incomes by receiving higher prices for soybeans. Educational programs have given farmers a good understanding of how cooperatives are formed and operated. Innovative farmers have now become eligible to purchase shares in soybean, alfalfa, and navy bean cooperatives. Purchasing shares gives the eligibility to sell soybeans to the cooperative.

Evaluation results indicated: 93% were willing to make some fundamental changes in their production /marketing practices to generate a customer preferred value-added product on the farm; and 84% were inclined to join a value-added cooperative if presented with an attractive business plan based on a reliable feasibility study and a competent management team. Obstacles participants identified were: a. Startup money b. Old mind set c. Lack of market research d. Never done it that way e. Need equipment f. Distance from the plant g. Need room and storage h. No alternate crops i. Too much risk j. Lack of confidence k. Lack of strong leadership l. Government interference. Comments from the evaluation were: "Without MSUE this program would not exist. This has been invaluable in facilitating speakers, tours, and informative meetings;" "They have done a great job;" "This is changing what and how we do some things. It is a paradigm shift;" "It is taking a lot of time and hard work;" "We should do a relatively inexpensive study to determine the possible alternatives and programs in our area."

Source of Funds

Smith-Lever 3b&C, state, county, grants

Scope of Impact

State Specific

Key Theme-Adding Value to New and Old Agriculture Educational Initiative: Expansion of Value Added Marketing Opportunities James P. LeCureux: East Central Region and State

Program Description

Commodity prices are depressed and the farm economy is stressed. Michigan is losing over \$500 million per year because Michigan grown products are shipped out of state for processing and often returned to Michigan for consumption. Therefore, there is a need to explore new marketing opportunities to help farm families increase their income. One initiative is the establishment of the Michigan Edible Bean Cooperative. Currently, there are 260 members of the Innovative Farmers. These members have invested \$700 each into the Cooperative Development Fund for the purpose of exploring new opportunities. There are seven members of the Innovative Farmer Board of Directors, and another 48 farmers have served on the initial start-up committees or are serving on boards of existing cooperatives. The Michigan Edible Bean Cooperative steering committee has been formed

with 17 members from across the dry bean production area. Collaborators include the U.S.D.A. Rural Development Agency, Michigan Dept of Agriculture, MSU Extension, Thumb Oilseed Producers, Innovative Farmers, U.S. Agriculture Producers Alliance, North Dakota State University, Red River Valley Trade Council, 21st Century Alliance, Ag Ventures, Minnesota Marketplace.

Impact

During the fall of 1999, 270 producers contributed \$700 each to the Innovative Farmer "Cooperative Development Fund. Those funds are being used to explore and investigate opportunities for the MI Edible Bean Cooperative (MEBC). An additional \$60,000 was obtained from the USDA Rural Development to add to the Cooperative Development Fund. In August of this 2000, the Innovative Farmers received another \$60,000 from the USDA Rural Development Agency to build the Cooperative Development Fund. The total amount available for exploring new opportunities was \$269,000. This fund supports hiring consultants, investigating new projects and conducting pilot projects. The producers are in charge of the funding and can act quickly when opportunities arise. Over 1999-2000 the funds have been used to pursue the industrial oil project, the soy drink venture and the Michigan Dry Edible Bean Cooperative. As a result, the MEBC is currently working with a large Japanese food company on a product development pilot project. The soy drink project is nearly ready to go to a technology company for further development. The Innovative Farmers are now part of the U.S. Ag Producers Alliance, representing over 3,000 growers from ten states. USAPA seeks opportunities for the membership. As a result of the Innovative Farmers involvement, four Michigan farmers are now members of the very successful Golden Oval Cooperative located in Iowa and Minnesota. While funds are available from a number of sources to explore new ventures, it also takes intensive time. This fund provides flexibility to move on opportunities when they arise. Extension's role has been to help develop the concept and to provide leadership and direction. Farmer Boards are the driving force. Extension has written the grants and created the environment for this to happen. Extensive research and communication with other venture groups around the mid-west has occurred to bring this project forward.

Source of Funds

Smith-Lever 3b&C, USDA Rural Development, state, county, grants, farmers

Scope of Impact

Multi-State: MN, ND, IA

Key Theme – Agricultural Profitability

Educational Initiative Title: Dairy Production Education

G. William Robb: Allegan, Berrien, Cass, Kalamazoo, St. Joseph, and Van Buren

Description of Program

Dairy production is becoming more technical each year. As herd size grows the need to fine tune management of cow nutrition, health, comfort and milking systems is required. One of the goals of this program was to assess all aspects of heard management that impacted profitability.

Impact

The winter educational series titled “Investigating Disease on the Dairy Farm”, was presented to 700 dairy farms and agribusiness in 13 Michigan and Indiana sites.. Evaluations indicated action planned by farm managers as a result of attending the winter dairy meetings included; systematic mastitis evaluation (54%), standard operating procedures (50%), systematic health evaluations (45%), written action plans (40%), initiation of management teams (31%).

Source of Funds

Smith-Lever 3b&C, state, county, grants

Scope of Impact

State Specific

Key Theme - Animal Production Efficiency

Educational Initiative Title: Animal Production Technology

Warren L. Schauer: Delta County

Program Description

The Bovine TB issue has significantly impacted livestock producers of all types inside and beyond the quarantined areas of the state. A session was held where Bay de Noc beef producers formulated plans for marketing their beef feeder cattle in the constrained situation. In addition, sessions were held that were of value to dairy, horse, and poultry producers.

Impact

Over 450 head of beef cattle from 25 producers with a value of almost \$200,000 were marketed via satellite. At the statewide dairy training, 67% of participants rated the session as useful or very useful, 48% intended to implement an SOP on their farm, 74% found the content to be useful, and 65% were prompted to review current practices. Many people indicated that they gained knowledge and gave input about the Bovine TB issue.

Source of Funds

Smith-Lever 3b&C, state, county, grants

Scope of Impact

Multi-State: WI

Key Theme – Grazing

Educational Initiative Title: General Ag Outreach

Bruce MacKellar: Van Buren County

Description of Program

The primary purpose of the program was to enhance forage quality by using harvest prediction models. In addition, the program promotes on-farm research and demonstration work to improve programming and the field of knowledge in this area. Diversity efforts have involved working with minority producers on various topics at the Limited Resource and Minority Farmers Conference. Collaborators included Conservation District, Van Buren County Farm Bureau and Agribusinesses.

Impact

Ninety-four percent (94%) of 21 farmers indicated they would use either the Growing Degree Days or a Peaq stick to gauge when to harvest alfalfa for top quality. In addition, there was a 50% increase in the number of producers that indicated they would use the packing methods discussed in training when they put up silage.

Source of Funds

Smith-Lever 3b&C, state, county, grants

Scope of Impact

State

Key Theme – Organic Agriculture

Educational Initiative: Organic / Sustainable Farming Advancement

Daniel J. Rossman: Gratiot County

Program Description

Alternative farming methods are being considered for the well-being and / or the survival of the family farm and rural community. The goal of the program was to help farmers investigate opportunities in organic farming and if desired, make the transition to organics. The audience consisted of farmers, gardeners, agribusiness reps., lenders, and other interested people. The diversity effort encouraged nontraditional audiences to participate. Collaborators consisted of SARE, MASA, Organic Chapter, Key Farmers. Activities included group discussions, field trials, field tours, conferences, and sharing literature.

Impact

Organic interests continued to grow with over 120 on the organic mailing list. Through newsletters and training, the program has been able to share research and experiences that have helped producers fine tune their system. Eighty participants were trained in organic agriculture. Evaluation results indicated 71% planned on making changes based on local organic educational events. One farm developed a direct marketing customer base as a result of training.

Source of Funds

Smith-Lever 3b&C, SARE, state, county, grants

Scope of Impact

State

Key Theme – Plant Production Efficiency
Educational Initiative Title: Field Crop Production Management
Michael Score, Lenawee and Washtenaw Counties

Program Description

Farmers are trying to improve production efficiency in order to remain economically viable, environmentally responsible, and socially acceptable. One of the goals of this program was to help farmers use science-based information in farm management. In addition, the program's diversity efforts included developing an educational agenda that responds to the needs and interests of Hispanic migrant farm workers and African American farmers. Collaborators include the Washtenaw Extension Ag Advisory Council, Lenawee Extension Ag Advisory Council, Washtenaw and Lenawee County Extension Staff, and Migrant Farm Workers from Smith Camp in Lenawee County. The program completed several on-farm research and demonstration trials as well as provided scientific analysis of trial results. Educational materials and presentations based on trial results were developed. The program assisted farmers in applying research results to their production management plans.

Impact

Three years of on-farm research has resulted in wide-spread improvements in crop production practices within Washtenaw and Lenawee Counties. Farmers were able to use research results to increase farm profitability and improve environmental impacts of agricultural activity. Farmers agreed to serve on an agricultural advisory committee to help the agent develop a plan of work that was responsive to farm community needs. The core of this plan of work was an on-farm research initiative that would help farmers reflect on their crop production practices and identify opportunities for positive change. Farmers serving on the advisory committee were responsible for using their land as research sites, assisting with plot establishment and evaluation, and for working with Extension to share results with the broader farm community.

Thirty on-farm research trials were conducted over three years. Results of the trials were shared directly with 200 farmers who attended annual Farmers' Day programs in Washtenaw County. They were also shared through news articles and radio spots. All results were published in the state-wide on-farm research and demonstration publication of the Field Crops AOE team. Results were also posted on the Washtenaw MSUE Ag Web page. Doing the research was a substantial accomplishment. The most remarkable result, however, was the impact our work has had on Extension clientele. Three farmers increased their use of soil nitrate testing to reduce production costs, improve environmental impacts of farming, and increase farm profitability.

One of several farmers reported increased corn seeding rates. Where farmers have increased corn seeding rates based on research results, improved weed control and yield increases that offset additional seed costs were noted. A look at Bt corn convinced farmers that the technology works however, most farmers did not see enough economic benefit to justify paying premiums for Bt seed. Likewise, farmers noted yield increases where insecticides were used on first-year corn, but concluded that in most cases profit from increased yields were consumed by added production costs. Farmers expected that occasional deep tillage in no-tillage systems would increase yields. The study resulted in a 12 bushel per acre yield loss in the production season following tillage even though soil conditions at the time of tillage were considered to be ideal. We evaluated advantages and disadvantages of improved weed control in alfalfa production. We learned that excellent weed control is possible, however, costs could not be recovered over the two-year period we considered in our research. We do see the possibility that improved weed control could lead to longer lasting stands however, weed control for the sake of weed control will not necessarily result in improved forage yield or quality. Eighty percent (80%) of farmers who attended meetings where research results were presented indicated intentions of changing production practices based on results.

Source of Funds

Smith-Lever 3b&C, SARE, EMPACT, Michigan Corn Growers, state, county, farm cooperators, and agribusinesses

Scope of Impact

State

Key Theme – Precision Agriculture

Educational Initiative Title: Integrated Crop Management and Precision Agriculture

Richard M. Hodupp: Cass, Kalamazoo, St. Joseph Counties and State

Program Description

The goal of the program was to assist farmers in appropriate and effective use of precision agriculture, plus, **to develop programs, research and demonstration projects to meet the needs of producers in this area. The program worked with the Amish community, private industry, other agencies and organizations to insure programming efforts met the needs of producers.** Crop producers continue to evaluate new technology and concepts. MSU Extension provided the resources to educate producers of the new technology available. Collaborators consisted of:

Farm Bureau, NRCS, SCD, Michigan Irrigation Association, Groundwater Stewardship Program, Michigan Potato Commission, Michigan Corn Growers, and Michigan Soybean Programs. The program conducted meetings, workshops, summer field tours as well as produced newsletters and reports of activities accomplished.

Impact

While it is difficult to measure the economic impact of the Farmer's Market held in the Three Rivers business community, it is evident that local Amish families serving the market have prospered. They have been very appreciative of the opportunity to participate in this marketing opportunity. This project was funded in part through a grant to assist Amish in developing alternative crops to enhance their economic viability. Amish vegetable producers found the Great Lakes Growers Conference to be a valuable learning opportunity. This is the second year drawing a large contingency from northern Indiana and southern Michigan.

Twenty-nine Extension colleagues attended a program during fall conference on reaching the Amish community. This provided insight to Extension personnel as to the culture and beliefs of the Amish community. The Amish have traditionally been an underserved group. The vegetable production project has enabled MSU Extension to develop trust and acceptance with the Amish population, which will hopefully lead to additional programming opportunities.

Source of Funds

Smith-Lever 3b&C, FRA, state, county, grants

Scope of Impact

Multi-State: IN

Overview of Goal 2: A safe and secure food and fiber system

Funding and programming for Goal 2. overlaps Goal 3. by approximately 70% through EFNEP (Expanded Food and Nutrition Education Programs) and FNP (Family Nutrition Programs) that provides education in both food safety and food nutrition. For this reason, it is difficult to separate the two goals without duplication. On the other hand, it is clear that the majority of effort in each of these programs is focused on food nutrition (approximately 70% of the effort is spent on food nutrition). Therefore, the estimate of 15,395 participants is low for food safety and does not include the majority of participants who received both food safety and food nutrition in order to avoid duplication and reflect mainly the efforts that were specifically focused on food safety. Table 6. shows the number of participants and Key Themes addressed by the Food Safety AoE Team. Key themes for Food Safety AoE were food handling, food safety, and HACCP.

Goal	Adults	Children	Total	Key Themes
Goal 2 Food Safety*	8,365	7,030	15,395	Food Handling, Food Safety, HACCP
Goal 3 Food, Nutrition & Health*	46,946	45,231	92,177	Birth Weight, Human Health, Human Nutrition

* To avoid duplication, participants who received both food safety and food nutrition were counted only once (30% Food Safety and 70% Food, Nutrition, and Health).

Table 6.
Number of Participants and Key Themes by AoE for Federal Goal 2. and Goal 3.

Some of the successes in Goal 2 area were:

- Twenty-five Amish farmers learned about food safety, food handling, and Bovine TB issues that they used in their retail businesses.
- Over 600 adults and 700 children received food safety instruction.
- Evaluation of the children found 45% of the children changed their behavior regarding washing hands.
- One hundred twenty one (121) adults and 114 children were trained in food safety. Results of the evaluation found 46% did not know the correct freezer temperature at the beginning of the project, by the end 90% knew their freezers should be 0 degrees.
- A Program targeting Middle School students showed a knowledge gain from the presentation and activities regarding food safety. Youth became more

aware of the dangers of food born illness and ways to combat it. Students benefited from the glow germ activity.

The Food Safety AoE Team in Goal 2. met its 1999-2000 Plan of Work goals by reaching its targeted population of low-income and underserved audiences. The team and members have become more active in recruiting stakeholder input and involving collaborators in setting priorities, designing and implementing programs. In addition, the team is engaged in identifying underserved populations and developing strategies and programs to address these populations. The following examples from EIS demonstrates this:

Key Theme - Food Handling

Educational Initiative: Food Safety Education Outreach–Amish workshop in Mecosta County

Charlotte M. Thompson: Mecosta County

Program Description

One of the goals of this program was to plan, provide & evaluate a food safety workshop for the Amish community applying HACCP principles for food handling in targeted home/farm situations. The program used the HACCP model to address food handling situations in home/family setting related to concerns for: (1) meat and poultry safety, (2) food canning tools and updates, and (3) handling or food processing techniques for specific food products, for example, honey, fresh produce, eggs, milk . The diversity efforts of this program was to engage elders in the Amish community to shape educational programs to best match their lifestyle needs for food safety skills in food handling.

Impacts

Worked with OSU Extension-Holmes County, OH, in using some of their materials specific for this audience. Received Food Safety mini-grant for \$250 to buy Canning Guides for 25 families, temperature guides, meat brochures and educational supplies. The program taught update on food handling in the home using USDA Food Canning guides, Fact Sheet on Handling Produce-HACCP approach and Playing It Safe-meats. In addition, Extension and Health Dept. discussed bovine TB concerns for the local area and presented a Fact Sheet on Pasteurization of Milk-HACCP approach. We closed with a presentation on Eggs and Poultry Meat Safety by an Extension Specialist. Follow-up evaluation revealed the following comments/observations on workshop topics:: ****"The part about canning was**

interesting and informative" **"Food safety is always a good practice. We'll continue doing it." *I feel everything was explained nice." ***"I enjoyed them all, especially tuberculosis." Most useful topics: "canning" and "on poultry and egg handling". Suggestions for future topics: "Fire Safety" and "Care and disease control on berries and other produce related items."

Source of Funds

Smith-Lever 3b&C, state, county, grants

Scope of Impact

Multi-State: OH

Food Safety and Foodborne Illnesses

Sheryl Leonard, Wayne County

Educational Initiative: Reduce the number of foodborne incidences in Wayne County

Program Description

There is disproportionate numbers reported for Wayne County according to Community Health/Communicable Disease Control Epidemiology reports. Currently there is limited amount of training after the 1 hour mandatory Food Handler's Card received from the Wayne County Health Department. The goal of this program was to offer food safety education to low-income adults and children regarding food preservation, food safety and healthy hygiene practices around food. Collaborators included DelRay Community Action Council, Community Planner, Granny's After Care Center, City of Detroit Health Department, Detroit Community Health, Detroit's Working for Environmental Justice, Salvation Army, Gleaner's Metro. Food Bank, Mask/Muslin Center, Starfish Family Services, Headstart, and Community Care.

Impact

Over 600 adults and 700 children received food safety instruction. Evaluation found 45% of the children changed their behavior regarding washing hands. According to the daycare provider, the children were very conscious of food safety practices. One female participant reported sharing the food safety information with her parents on times cooked food can be left out at room temperature.

Source of Funds

Smith-Lever 3b&C, county

Scope of Impact

State

Key Theme - Food Safety

Educational Initiative Title: Food Safety

Jean Nichols: Hillsdale County

Description of Program

Hillsdale MSU Extension received a mini grant from the Food Safety AOE. The purpose of the grant was to raise Hillsdale Co. residents awareness of correct food storage temperatures. Two groups were targeted, high school students and FCE council members (two opposite age groups). Refrigerator thermometers were purchased for the participants to use to check temperatures of refrigerators and freezers. A sheet was prepared to record

findings. The participants were given handouts and materials on food storage times, handling and safety, plus contact information to call for nutrition and food safety questions. Collaborators were WCSR radio station, Hillsdale Daily News, Hillsdale high school, Hillsdale College.

Impact

One hundred twenty one (121) adults and 114 children were trained in food safety. Results of the evaluation for youth group found 46% did not know the correct freezer temperature at the beginning of the project, by the end 90% knew their freezers should be 0 degrees. Sixty seven percent (67%) did not know what the refrigerator temperature should be, at the beginning of the project, but 85% did know the correct temperature at the end of the project. Thirty two percent (32%) of participant's freezers and 25% of their refrigerators were found to be too warm at the beginning. For the FCE Council members - results were: 66 % of the participants did not know the correct freezer temperature, but by the end of the project 88% did know the correct temperature; 47% did not know the correct refrigerator temperature at the beginning but by the end 92% did know; 13% of the freezers were too warm but all the refrigerators in this group were accurate.

Source of Funds

Smith-Lever 3b&C, state

Scope of Impact

State

Key Theme - Food Safety

Educational Initiative: Food, Nutrition and Health

Lisa Myers, Chippewa County

Program Description

The Family Nutrition Program offers quality educational programs to the residents in Chippewa County. The FNP Agent has a strong working relationship with the local WIC program. Food safety and nutrition classes were presented to WIC participants. FNP Agent also offered food safety and nutrition education to the Hulbert Seniors at the Hulbert Community Center. FNP Agent provided an informational booth for the Chippewa County Health Fair. FNP Agent taught classes in food safety that included demonstration and hands on activities for middle school students using Operation Risk materials. FNP Agent presented information on the

programs and services offered by Chippewa County MSUE to the Hiawathaland Behavioral Health Staff. FNP Agent continued to provide services to Chippewa County residents through the home based programs and services. A grant under the Community Food Safety Education Innovative Mini-Grant provided simple easy to read, understand and follow information sheets on the safe handling of breast milk and formula. Information on the dangers of food born illness, was presented based on needs as determined by Middle School Practical Arts teacher. Information was supplied on the method of operation, hideouts, potential victims of different types of bacteria. Used Operation Risk, glow germ and various hands on activities.

Impact

Program was well received by Middle School students. Youth showed knowledge gained from the presentation and activities regarding food safety. Youth became more aware of the dangers of food born illness and ways to combat it. The Practical Arts teacher requested future programs so that all of the Middle School students have an opportunity to participate in the class.

Source of Funds

Smith-Lever 3b&C, state, county, grant

Scope of Impact

State

HACCP

Educational Initiative Title: Marketing Michigan Fish

Businesses/Products and Ensuring Product Quality/Safety

Ronald E. Kinnunen: Upper Peninsula Region

Description of Program

Michigan Great Lakes commercial fishers have sustainably harvested 7 to 11 million pounds of lake whitefish per year for the past 20 years. This fish reaches markets throughout the region with a large percentage reaching the Eastern Seaboard in its raw form where value is added to it by large processors and resold. In its new form it returns to Michigan, where it was originally harvested. Michigan's commercial fishing industry, comprised of

both tribal and state licensed fishers, is confronted with a number of challenges and opportunities that must be addressed in a more coordinated and pro-active manner. The commercial fishery is comprised of nearly 300 tribal and almost 100 state licensed fishers. The industry is facing problems such as conflicts with sport anglers, fears related to contaminants, loss of some traditional markets, foreign competition, and regulations that have limited the marketability and competitiveness of some Michigan fish products. The price of Great Lakes lake whitefish in recent years has dropped to a low of \$.45 to \$.50 per pound. Commercial fishermen are concerned as prices several years ago were over \$1 per pound. The price of fish has not kept pace with increasing operating costs and this hurts both state licensed and tribal commercial fishers. There is a growing recognition that the future viability is dependent on improving product quality, the development of new products, cultivation of new markets, and value added marketing. Two of the goals of the program were to have those involved with commercial fish processing go through HACCP training and planning for their facilities and have tribal reservations adopt HACCP regulations. Collaborators included Great Lakes Indian Fish and Wildlife Commission, U.S. Food and Drug Administration, Michigan Department of Agriculture.

Impact

The program worked with two Great Lakes Indian Fish and Wildlife Commission scientists on developing a protocol for smoking fish to reduce contaminants.

A HACCP process was developed to ensure finished products met FDA guidelines for contaminants. A fish processor with a computer controlled smokehouse helped us with the project. The Michigan's sixth HACCP Training Workshop was held in Williamsburg, where we conducted a three day workshop. Seventeen participants completed the training session including a representative for a large distributor from Ohio that employs 500 employees. The Bay Mills Indian Reservation formulated HACCP plans with two fish processors who process fresh and smoked fish for use at their retail operation. The Great Lakes Indian Fish and Wildlife Commission purchased temperature probes and a salometer for use in smoking operations. A review on use of equipment was held. The tribes have no formal regulation of reservation processors, so this helped move their operations toward safer product development. The program coordinated a HACCP Workshop with the Great Lakes Indian Fish and Wildlife Commission (GLIFWC), which was held on the Red Cliff Indian Reservation. GLIFWC, FDA, the Menominee CED, and sea grant agent. Hands-on demonstrations on how to make and measure the salt concentration of brines used in smoked fish processing was conducted. Plus, demonstrations on calibrating thermometers were provided. Representatives from four different tribes from Minnesota, Wisconsin, and Michigan were in attendance.

A South Carolina tilapia processor requested information on smoking tilapia. The various state and federal regulations on smoking fish and HACCP models and record keeping systems were shared. A fish processor who had been visited by the FDA was in contact regarding a smoked fish HACCP plan. He was supported in making changes to his HACCP plan to help with concerns raised by the FDA. At the request of the Great Lakes Indian Fish and Wildlife Commission, a Fishing Vessel Sanitation Audit Form to be used by tribal commercial fishermen was developed. Although the HACCP/sanitation laws do not apply to fishing vessels, the commission wants to be proactive in this area to insure product quality.

Source of Funds

Smith-Lever 3b&C, Smith-Lever 3d, state, grant

Scope of Impact

Multi-State: WI, MN, SC

Overview of Goal 3: A healthy, well-nourished population

As previously stated, funding and programming for Goal 2 overlaps Goal 3 by approximately 70%. EFNEP (Expanded Food and Nutrition Education Programs) and FNP (Family Nutrition Programs) provide education in both food safety and food nutrition. For this reason, it is difficult to separate the two goals without duplication. It is estimated that 92,177 received nutrition and health information. Table 7 shows the number of participants and Key Themes addressed by the Food, Nutrition, and Health AoE Team. Key themes addressed by Food, Nutrition, and Health AoE Team was birth weight, human health, and human nutrition.

Goal	Adults	Children	Total	Key Themes
Goal 2 Food Safety*	8,365	7,030	15,395	Food Handling, Food Safety, HACCP
Goal 3 Food, Nutrition & Health*	46,946	45,231	92,177	Birth Weight, Human Health, Human Nutrition

* To avoid duplication, participants who received both food safety and food nutrition were counted only once (30% Food Safety and 70% Food, Nutrition, and Health).

Table 7.
Number of Participants and Key Themes by AoE for Federal Goal 2. and Goal 3.

Some of the successes in Goal 3 as indicated by individual county initiatives:

- Worked with the Breastfeeding Alliance of Monroe County to promote World Breastfeeding Week. Approximately 7,000 people visited the Monroe County Fair booth that was a collaborative effort with Mercy Memorial Hospital. The booth provided breastfeeding information and offered mothers a quiet area to nurse their infants.
- The following quotes reflect success in Lenawee County's programs:
 “Without the Breastfeeding Counselor, I would not have been able to continue nursing while returning to my place of employment.” “When I was frustrated and ready to quit, she (Breastfeeding Counselor) gave me the support I needed to go on. I decided before the birth that breastfeeding was the best choice but had no idea how hard it was. I would have given up in a few days after her birth without help. She let me know my frustrations were not uncommon and gave me confidence to go on.”

- Bay County Extension established a comprehensive and coordinated program to provide health care services to families with children 0-6 years old. Extension helped to obtain a 0-3 Grant from the Children's Trust Fund. In total when combined with community cash contributions, in-kind services, and other resources over \$400,000 were available to support this new community program.
- Succeeded in bringing county agencies and programs together to plan ideas for promoting nutrition and health. As a result, inroads were made with Midland County Public Schools for further programming of Team Nutrition.
- EFNEP teamed with Oakland County WIC to distribute 880 coupons books to WIC and EFNEP recipients. There were 547 EFNEP families for the year in Oakland County. Seventy-five percent (75%) graduated from the program, with only 9% terminated from the program. Eighty five percent (85%) of the graduated homemakers made positive food behavior changes based on pre- and post- food recalls.
- Eighty seven percent (87%) of the graduates (Wayne County EFNEP) had a positive change in their eating behaviors. These graduates reported an increase in intake of the following food groups: Breads & cereal (4-5 servings from 19.3% to 23.5%); fruits (2+ servings from 17.6% to 34.5%); vegetables (3+ servings from 32.8% to 37%); and Calcium/Dairy (3+ servings from 5.9% to 10.9%).
- The concept of "Eat Healthy, Your Kids Are Watching" has been well received by representatives of various Southwest Michigan organizations with whom steering committee members have come in contact. Willingness to support the effort is widespread. The number of potential partners grew to more than 250 throughout Capital Area counties.

The Food, Nutrition, and Health AoE Team in Goal 3 met its 1999-2000 Plan of Work goals by reaching its targeted population. The team and members have become more active in recruiting stakeholder input and involving collaborators in setting priorities, designing and implementing programs. In addition, the team is engaged in identifying underserved populations and developing strategies and programs to address these populations. The following examples from EIS demonstrates this:

Key Theme - Birth Weight
Educational Initiative Title: Breastfeeding Initiative
Brenda J. Reau: Monroe County

Description of Program

Two of the goals of this program were to 1) provide breastfeeding education and support to mothers in Monroe County and 2) to increase the collaboration and coordination of breastfeeding resources in Monroe County. The need for this program was identified by the WIC Program, Health Department, and local physicians. Diversity efforts included developing a plan to reach Hispanic mothers. Collaborators included WIC Program, Mercy Memorial Hospital, Monroe County Health Department, LeLeche League, and Physicians Childcare providers.

Impact

A workshop, "Breastfeeding Success for Working Mothers" was designed to meet the needs of mothers returning to work or school after their infant is born. The Breastfeeding Alliance of Monroe County as well as the Alternate Education Advisory Committee collaborated on the development of the Great Expectations Program, which was implemented with pregnant teens in the county. The Breastfeeding Alliance and Extension developed a more effective collaboration between area agencies and Mercy Memorial Hospital. Collaborators promoted World Breastfeeding Week. Approximately 7,000 people visited the Monroe County Fair booth that was a collaborative effort with Mercy Memorial Hospital. The booth provided breastfeeding information and offered mothers a quiet area to nurse their infants. The top 50 employers in the county received a packet on promoting breastfeeding in the workplace. It included research data on the benefits of breastfeeding for mothers, infants and employers. The Esperanza Educational Services curriculum on postpartum and neonatal care assisted us in learning the terminology to communicate with Spanish speaking mothers, strategies for assimilating of the language and understanding culturally sensitive issues regarding breastfeeding.

Source of Funds

Smith-Lever 3b&C, state, county, grant

Scope of Impact

State

Human Nutrition and Birth Weight
Ann L. Hinsdale-Knisel, Lenawee County
Educational Initiative: Nutrition Education

Description of Program

Lenawee Co. integrates the EFNEP and FNP programs with its Breastfeeding Initiative to reach low-income mothers and pregnant teens as well as strengthen collaboration with a variety of agencies in the community. The county has (according to FIA and WIC statistics) 1593 Food Stamp clients and 1976 WIC clients. The program consists of an EFNEP, FNP and a Breastfeeding Instructor. The profile of clients served reflected the ethnic make up of Lenawee Co. Our Breastfeeding Peer Counselor and our FNP Instructor are both bi-lingual and bi-cultural. Collaborators included WIC, FIA, Health Dept., Lenawee PREP, Community Action Agency, and Moms/Happy Babies.

Impact

The breastfeeding counselor presented to Lenawee PREP and the Healthy Moms/Happy Babies programs that resulted in several teen mom referrals. Bi-lingual abilities were vital in working with a migrant population. OB staff at Bixby Hospital really appreciated translation skills as they worked with Spanish speaking mothers who were delivering. The breastfeeding counselor conducted a special Community Party where benefits of breastfeeding were promoted. The lactation consultants at both Bixby and Herrick Hospitals see this as a compliment to their work with moms. We also provided Team Nutrition programs in local schools.

The following statements were quotes: "Without the Breastfeeding Counselor, I would not have been able to continue nursing while returning to my place of employment. Mrs. Ramos sent a letter to my employer asking their help in my decision to breastfeed by allowing me to pump on breaks, which allowed me even longer breaks and more. I thank her for that!" "I found my counselor to be most helpful in the area of supporting me in my decision to breastfeed. I breast fed my little girl until she was 10 months old and weaned herself. The counselor was very helpful in reassuring me that I wasn't being just selfish in breastfeeding for 10 months (friends and family were encouraging me to wean after 3-4 months, and that was a lot of pressure)." "Jennie was always willing to help. When I was frustrated and ready to quit, she gave me the support I needed to go on. I decided before the birth that breastfeeding was the best choice but had no idea how hard it was. I would have given up in a few days after her birth without her help. She let me know my frustrations were not uncommon and gave me confidence to go on." "My twins were premie and had a hard time latching on and staying awake while nursing.

Jennie helped me out a lot when it came to this. I believe the help at the hospital benefited me most but the home visits also helped! And even though it was hard with twins, she helped me find comfortable positions.”

Evaluation results found 10% of Jennie's clients were breastfeeding for 16 wks. or more, 2.5% were breastfeeding 20 wks. or more. Two of the moms who did continue to breastfeeding after they went back to work indicated they never would have continued if it was not for Jennie's encouragement and support plus the education needed to learn how to pump. A Migrant Health Fair was held with 125 families attending. The MSUE FNP Program had a booth and talked with nearly 75% of the families in attendance. At the Summer School for Migrant Youth, 43 children participated in a series of six lessons on food and nutrition. Ten migrant families received Project Fresh Coupons. A program on "Healthy Snacks" for 13 pre-schoolers was held at the Adrian Telamon Office. The parents attended a "Food Guide Pyramid with a Mexican Flavor" video/discussion workshop. As a result of Irene's willingness to offer budget counseling at a local factory, she worked with 20 Males, 34 Females, 22 White, 3 African American, and 29 Hispanic individuals this quarter. Quotes from clients: "Aprendi que tengo que pagar a mi mismo". ("I learned that I have to pay myself.") "Ahora se que si quedo comprar casa y me sale mas menos de que estoy pagando de renta." ("I now know I can afford to buy a house and it is less than the high rent I now pay.") "Yo nunca sabia como sacar credito." ("I never knew how to get credit - now I do.") Alice has made an effort to reach males and to work with homemakers of color particularly in the Hispanic Community. Awilda has made an inroad into the Arab American Community. Alice, Awilda and Irene made presentations to the participants in the African American Leadership Program that resulted in individual participants referring themselves to two of these three programs.

Source of Funds

Smith-Lever 3b&c, Smith-Lever 3d, state, county, grant

Scope of Impact

State

Key Theme - Human Health

Educational Initiative: 0-3 Early Prevention Grant 2000

Howard Wetters, Bay County

Description of Program

Bay County has very high out of wedlock birth rates, and juvenile substance abuse rates. No coordinated system exists to provide services to this population at critical early developmental stages. The community needs process helped to develop a new health care to fill gaps in services. The goals for this new program are higher immunization rates, increased health insurance coverage for at-risk children, lower rates of child and substance abuse, better parenting skills, lower rates of inappropriate use of healthcare facilities. The audience for this grant is Bay County residents who deliver children at Bay Medical Center and other families who have children 0-3 years old. Special outreach will be made to families with special needs. The entire focus of this initiative is on underserved populations. Collaborators included Bay County, Bay County Public Health, Strong Families/Safe Children, LICC, Head Start, Bay Medical Center, Bay County United Way, Bay Arenac Community Mental Health, Bay Arenac Intermediate School District, Bay City Public Schools, all Bay County OB/GYN providers, and other community service groups and providers.

Impact

Bay County Extension joined a group seeking to establish a comprehensive and coordinated program to provide services to families with children 0-6 years old and their families. Extension's additional resources allow the group to write and secure a 0-3 Grant from the Children's Trust Fund. The Extension Director successfully sought and secured the county's participation to act as fiduciary agent for the grant. The grant funded two new positions in the MSU Bay County Extension office and two new positions in the Bay County Public Health Department. Over \$224,000 of grant funding flowed into the county to support this program. In total when combined with community cash contributions, in-kind services, and other resources over \$400,000 were available to support this new community program. In 1999-2000, the new program served over 120 families. In addition, new relationships with the Bay county Chapter of the American Red Cross and Emergency Needs Service for Successful Futures which accesses food, diapers and other needed supplies for families was established.

Source of Funds

Smith-Lever 3b&C, state, county, grant

Scope of Impact

State

Key Theme - Human Nutrition and Human Health
Educational Initiative Title: Food Nutrition and Health
Lisa Treiber: Midland County

Program Description

One of the goals of this program was to provide a trusted resource for consumer questions on food, nutrition and health issues. County residents need to have accurate, researched based information for family and consumer science related issues as well as a referral system between agencies. The program established a Nutrition Network for Midland County programs and agencies. The first meeting was held in August with 18 people in attendance. The goal was to communicate consistent messages, promote nutrition and health in the community and partner when possible. The program also provided an inexpensive yet informative workshop on Saturdays for the community and promoted 5-A-Day at Central Middle School in Midland. We also partnered with Midland Community Cancer Services and Midland Public Schools Food Service to promote trying new vegetables and fruits for the middle school children.

Impact

County agencies and programs were brought together to plan ideas for promoting nutrition and health. As a result, inroads were made with Midland County Public Schools for further programming and a presentation to the Elementary Principals about Team Nutrition. MSUE played an active role in promoting and programming for the Together For Kids Program. As a result of this contact, again requests for individual programming have been made as well as created a partnership with the local Child Care Concepts to provide the Better Kid Satellite series. The Healthy Lifestyle Program is in its infancy stage. There is great potential to provide research-based information to the public on fad diets, weight gain, and general healthy habits.

Source of Funds

Smith-Lever 3b&C, state, county, grant

Scope of Impact

State

Key Theme - Human Nutrition and Human Health

Educational Initiative Title: Education programs for low-income families

Lois M. Thieleke: Oakland County

Program Description

There are approximately 40,000 low-income families that live on or below the poverty level in Oakland County. These families lacked not only nutrition knowledge but also food shopping and preparation skills, food handling and food safety skills. Recruitment of diverse families that were eligible for the WIC program was targeted as well as services were provided in the housing projects. Collaborators included agencies that work with low-income audiences (i.e., Work First, Head Start, Health Department, OLHSA and others), WIC Project Fresh, Breastfeeding Recruitment/referrals, Oakland County Schools, Early Childhood Program, and Focus Hope Commodity Foods. The program used MSUE's curriculum, Eating Right Is Basic, for groups and individuals as well as provided hands-on food experience activities to move these families toward graduation.

Impact

Fifty-four per cent of our families were enrolled from WIC. The FNP low-income program presented 18 programs for about 300 low-income senior citizens in various areas of the county. Worked with Oakland County Health Department to design a new referral system, the public health nurses requested this change. EFNEP teamed with WIC to distribute 880 coupons books to WIC and EFNEP recipients. There were 547 EFNEP families for the year in Oakland County. Seventy-five percent (75%) graduated from the program, with only 9% terminated from the program. Eighty five percent (85%) of the graduated homemakers made positive food behavior changes based on pre- and post- food recalls.

Source of Funds

Smith-Lever 3b&c, Smith-Lever 3d, state, county, grant

Scope of Impact

State

Key Theme - Human Nutrition and Human Health

**Educational Initiative Title: Eat Healthy Your Kids Are Watching
Karen S. Martin: Clinton, Eaton, and Ingham Counties**

Description of Program

A healthy start in life is critical to academic and work success. This program educates parents of young children, especially children from low-income families, on the importance of and how to achieve healthful food and physical activity choices. This knowledge will help to minimize the excess morbidity and mortality of these underserved audiences. This in turn will contribute to academic success and a healthy work force. This program is a marketing campaign that uses food demonstrations, radio, TV, newspaper ads, and newsletters to reach the target audience. Strong interest for this program was expressed by major grocery retailers in the area, i.e., Felpausch, Carter's IGA, Meijer, the Capital Area Health Alliance, The Ingham County Board of Health and others. Diversity efforts included recruiting representatives of Cristo Rey Community Center and the Black Catholic Ministry of the Catholic Diocese of Lansing, among others, to help shape the campaign. Collaborators included WIC, Greater Lansing Food Bank, MSU-E in Clinton, Eaton, and Ingham Counties, Local Health Depts., grocery retailers, the American Red Cross, Food Bank Council of Michigan, school food service directors, local hospitals, FIA, United Dairy Industry of Michigan, Capital Area Health Alliance, media outlets, retail sports equipment outlets and others.

Impacts

Our proposal, "Eat Healthy. ' Your Kids Are Watching'. An Innovative Collaboration to Support the Health and Well-Being of Michigan's Children and Families." was funded for the period 4/1/00 to 9/30/01 in the amount of \$25,000 by the Families and Communities Together (FACT) Coalition. The Ready to Succeed Committee of the Committee for Lansing School Success Resource Fair, held at Eastern High School, served as the venue to recruit additional private sector partners to the "Eat Healthy" effort. The Community Kick-Off meeting for the Eat Healthy Campaign was attended by 102 representatives of both public and private sector organizations, including media, school food service, food retailers, employers, and public serving agencies.

Formative research for the Campaign was completed. Quantitative research consisted of questions added to the Behavioral Risk Factor Survey by the Ingham County Health Department. Qualitative research consisted of nine focus groups and 33 personal interviews conducted during July and August. Based on information gathered from the above research, the Campaign

steering committee met and further refined the scope of the 2001 Campaign to target efforts toward children aged 11-15. This campaign resulted from the partnership between the Michigan Nutrition Support Network (MNSN) and the Capital Area Nutrition Coalition (CANC). Additionally, the Steering Committee decided to pursue a campaign for a second year in 2002 targeted at those aged 16-18. The second year efforts will be led by the Capital Area Nutrition Coalition without direct MNSN involvement. The Capital Area Health Alliance (CAHA) has committed financial resources to the 2001 campaign.

Specific campaign materials (posters, buttons, pencils, "breakfast bags", shelf tags, stickers, bookmarks, newsletter articles, PSAs etc.) were developed in collaboration with media, retail, and graphic arts students at Everett High School.

The concept of "Eat Healthy, Your Kids Are Watching" has been well received by representatives of various organizations with whom steering committee members have come in contact. Willingness to support the effort is widespread; specific activities, messages and materials related thereto are needed and will be identified in the future. The number of potential partners grew to more than 250 throughout Capital Area counties.

Source of Funds

Smith-Lever 3b&C, state, county, grant

Scope of Impact

State

Human Nutrition

Educational Initiative: EFNEP Cost Effectiveness

Marion E. Hubbard, Wayne County

Description of Program

In order to service the most families, efforts must be made to increase the cost effectiveness of the program. Accountability is an important facet of program operations that when monitored carefully will lead to a cost-effective program (increased enrollments/graduation rate). Reaching as many families as possible given staffing constraints, can be accomplished by developing strategies to increase the number of referrals from community agencies and recruiting pre-formed groups. Diversity efforts will include EFNEP

programming for each major ethnic group (i.e., Hispanic, Arabic, African American and Caucasian), in Wayne County.

Impact

Of the homemakers taught, 71 % completed the program, and 29% terminated. Reasons for not completing the program ranged from moving (11%), taking a job (22%), to no longer interested (57%). Eighty seven percent (87%) of the graduates had a positive change in their eating behaviors. These graduates reported an increase in intake of the following food groups: Breads & cereal (4-5 servings from 19.3% to 23.5%); fruits (2+ servings from 17.6% to 34.5%); vegetables (3+ servings from 32.8% to 37%) Calcium/Dairy (3+ servings from 5.9% to 10.9%).

Eighteen agreements were made with various Head Start Agencies. The program received \$2,148 contribution dollars and \$14,111 from County as match dollars and \$1000 in gifts from K-Mart Corp. for EFNEP graduation.

Source of Funds

Smith-Lever 3b&c, Smith-Lever 3d, county, grant

Scope of Impact

State

Overview of Goal 4: Greater harmony between agriculture and the environment

Almost 50,000 participants received direct training on key themes in Goal 4.

Table 8. shows the AoE Teams in this area, the number of participants, and the federal key themes for Goal 4. Key themes addressed by the AoE Teams in this area were forest crops, forest resource management, land use, IPM, natural resources, agricultural waste.

Goal 4	Adults	Youth	Total	Key Themes
Forestry	2,886	363	3,249	Forest Crops, Forest Resource Management
Land Use	6,541	1,971	8,512	Land Use, IPM, Natural Resources
Agriculture	426	1	427	Agricultural Waste, Water Quality
Renewable Resources	1,915	3,219	5,134	Recycling, Forest Resource Management
Grant	5,033	3,730	8,763	Water Quality, Natural Resources Management
Water Quality	9,599	11,528	21,127	Water Quality, Riparian Management, Nutrient Management
Christmas Trees	898	0	898	Forest Crops, IPM, Water Quality
	27,298	20,812	48,110	

Table 8.

Number of Participants and Key Themes by AoE for Goal 4.

Some of the successes in Goal 4. were:

- The core committee developed new materials for agents to learn from and for agents to use in teaching manure management to their local producers. Over 40 agents and specialists attended a one and half hour training on manure management. This allowed the agents involved to find out what the Manure AOE was doing to assist them and to encourage them to begin planning winter programs. From this, the FIRM team has requested

assistance in adding manure management into their financial analysis with producers.

- In a pesticide exam review session for Eaton and Ionia Counties, 95% reported the training helped to improve their pesticide knowledge and prepared them for the exam.
- Evaluation results of an IPM training for Christmas Tree growers found: 90% considered changing some weed management goals from eradication to suppression; 95% improved in pest identification and better scouting times and techniques - to diagnose problems in the field; 95% improved in using alternative pest controls; and 85% improved in knowledge in better use of chemicals. Participant comments consisted of: "Program helped me to grow a better quality tree." "This course was very informative and helpful in stimulating thought of how to deal with problems and needs of generating better products and yet preserve the land. "
- The Clean Sweep program was very successful this year for Van Buren County. Over 2500 pounds DDT, 1700 pounds dieldrin and 1500 DDE were processed through Clean Sweep. In addition, two household hazardous waste programs were held, one in July and one in September. Thirty-three residents participated and over 2500 pounds of material was properly disposed.
- In an evaluation of the Great Lakes Education Program, an overwhelming 91% rated the new Handbook as "Excellent". This extremely positive response has strengthened opportunities to expand and replicate GLEP education in new areas of Michigan. One participant stated, "By supporting GLEP in our community, we help support the education of youth who will face environmental issues and start them thinking early, making them guardians of their own back yards. Our company strongly believes in the goals of GLEP and they have our continued support."
- Over 134 participants were involved in the logging programs throughout the year with 85% reporting they will use information gained in the training. MSUE is going to be taking a larger role in the future in offering classes for the logging community that will qualify for certification credits.
- An Extension Land Use Agent developed a 'tool kit' that featured how to use data available to locate resources and interpret their value. The program helped local officials involved in land use planning learn how to evaluate the value of land resources through a classroom workshop and then toured the landscape to see first hand resources that have value for making a secure environment. Evaluations were conducted at two workshops on habitat development with 95% positive response.

- One hundred forty eight participants were trained in the area of water quality. Evaluation of the Managing Shoreline Areas was well received with 47% of participants rating the session “very helpful” and 53% rating it “extremely helpful.” At the conclusion of the program, 32% of participants indicated that they were “comfortable” using the shoreline supplement, 53% “very comfortable” and 11% “extremely comfortable.”

The AoE Teams in Goal 4. met their 1999-2000 Plan of Work goals by reaching their targeted population. All teams and members have become more active in recruiting stakeholder input and involving collaborators in setting priorities, designing and implementing programs. In addition, all teams are engaged in identifying underserved populations and developing strategies and programs to address these populations. The following examples from EIS demonstrates this:

Key Theme – Agricultural Waste Management
Educational Initiative: Manure Education Development
Natalie A. Rector, State

Program Description

Every livestock producer in the area is under tighter scrutiny regarding manure management. Michigan is seeing larger farms expanding, an increase in custom hog finishing, and several new, large (over 600 milk cows) dairy facilities that are contracting with neighbors to raise feed crops and spread manure. There is increasing, widespread concern regarding odor and potential environmental contamination, especially to surface waters from manure nutrients. Diversity efforts regarding manure management information included customizing for the large and small producer's needs as well as addressing the needs of several Amish farmers who were contracting to finish hogs in this area. These producers needed to be reached via one-on-one farm visits with information that is relevant to their manure hauling and handling practices. The program explored existing resources in other states related to manure nutrient management education, bringing this information to Michigan. The Manure AOE team and MAEAP Components Committee outlined educational materials that will be a foundation for farmers pursuing CNMPs and/or MAEAP's three-phase program.

Impact

The core committee developed new materials for agents to learn from and for agents to use in teaching manure management to their local producers. Over 40 agents and specialists attended a one and half hour training on

manure management. This allowed the agents involved to find out what the Manure AOE was doing to assist them and to encourage them to begin planning winter programs. From this, the FIRM team has requested assistance in adding manure management into their financial analysis with producers (if producers have a large fertilizer bill, we can then look at their manure nutrients and encourage them to utilize the manure more wisely and reduce fertilizer purchases-a unique blend of money and agronomy!) On December 18th, over 60 agents and SCD groundwater technicians attended an agent training. Agents were pleased with the information and all the teaching materials were supplied on a CD. Materials developed included: 4 Excel spread sheets to calculate manure/crop needs by Tim Johnson, PowerPoint presentations on: Dairy overview: Rector. Phosphorous in the Environment and for agriculture production: Springborn. Phosphorous management strategies: C. Gould. PSNT: Rector What is a CNMP: Gould. Manure sampling and interpreting results: Gould. Odor control and PR: Kelpinski. All of the above listed was given to agents on CD, discussed during the agent in-service and suggestions for program planning were provided.

Source of Funds

Smith-Lever 3b&c, state, county

Scope of Impact

State

Key Theme – Pesticide Applications
Educational Initiative: Pesticide Education
George Silva: Eaton and Ionia Counties

Program Description

Farmers rely on MSU Extension as an unbiased and reliable source of information on pesticides. Farmers, pesticide users and dealerships need to attend pesticide education sessions approved by MDA to obtain credits for re-certification. They expect the MSU Extension to provide timely sessions. These sessions are also intended to keep up to date on new pesticide regulations. Towards the end of year, many producers are in need of credits to meet their credit requirements. Collaborators include MSU campus specialists, Field Crops Agents, Eaton/Ionia Groundwater Stewardship Team, and Eaton county Farm Bureau.

Impact

As a direct result of five training sessions, 43 producers received up to 4 certification credits. Participants evaluated the sessions and indicated the following: a. Was the timing and duration compatible with your availability to attend this session? 92% Yes 8% No b. Was the information presented valuable to your pesticide use activities on the farm? 92% Yes 8% No c. As a result of this training, would you be inclined to change your pesticide use and handling practices on the farm? 70% Yes 30% No d. For those said yes, approximately how many acres will be affected by this training? 4875 acres.

In another training, a total of 58 crop and livestock producers attended a review session. This session was evaluated by 49 participants. The results of the PESTICIDE EXAM REVIEW SESSION found: a. Did the session meet your objectives? 86 % Yes 2 % No 4% Maybe b. Should the format of the session be changed? 5 % Yes 91 % No c. If yes, what other teaching methods should be used for this review session in the future? 100 % Do not change the format d. Did your pesticide knowledge and preparation for the exam improve as a result of this session? 95 % Yes 5 % No.

Other outreach included 400 newsletters, 4 mass media presentations, 60 uses of the web, 15 farm visits, and 7 public events.

Source of Funds

Smith-Lever 3b&c, state, county, grant

Scope of Impact

State

Key Theme - Integrated Pest Management, Forest Crops, and Water Quality

Educational Initiative Title: Integrated Pest Management - Christmas Trees

Jill L. O'Donnell: State

Description of Program

Yearly, Michigan Christmas tree growers spend in excess of \$3,000,000 on control of insects, diseases and weeds. Growers face several issues; Spray deposition and sprayer technology, shearing Christmas trees produces a dense canopy which is desirable from a consumer stand point but limits the effectiveness of pesticide coverage and pest control. As the industry faces potential loss of pesticides we need to look to alternative products such as horticultural oils in which thorough coverage is essential. We need to look at new and existing technology to use in Christmas tree production. Currently, growers have a very limited base of products to use to manage weeds to begin with. With the threat of loss of chemicals and environmental concerns we need to evaluate new materials, look at effectiveness of products and alternative methods of control. The goals of this program were: (1) stabilize and enhance MI Christmas tree industry; (2) help MI farmers improve nutrient management to maintain and improve quality of ground and surface water; (3) enhance links with other groups and organizations working on water quality issues; and (4) provide pest monitoring, quarantine programs, evaluation of control options and materials, and examination of plant resistance and biological control alternatives, especially in light of the EPA's implementation of FQPA. As the Michigan Christmas tree industry has changed so has its labor force. More and more growers are using seasonal and migrant labor and some growers are turning to H2A foreign workers. This offers opportunities for programs for this culturally diverse labor force. Collaborators included Michigan Christmas Tree Association, Departments of Forestry, Horticulture, Entomology, Botany and Plant Pathology, and Agriculture Engineering Individual Growers. One of the major activities of the program was to evaluate spray droplet coverage and deposition in the Christmas tree canopy using conventional equipment, helicopter, fixed wing aircraft and newer technology (such as magnum fans). This gave us baseline data and helped to improve sprayer efficiencies.

Impact

This year's winter in depth short course was on Pest Management (insects, disease and weeds) and over 120 were trained. Guest resource was Dr. Joe Neal from North Carolina. In addition, we worked with several growers on scouting for balsam twig aphid and mites. Scouting at the right times can make significant strides in a control program. Dr. Fulbright traveled to look at several problems growers were having. This past year several cases with injury from Bravo fungicide on Concolor fir and blue spruce occurred.

Evaluation results found: 90% considered changing some weed management goals from eradication to suppression; 95% improved in pest identification and better scouting times and techniques - to diagnose problems in the field; 95% improved in using alternative pest controls; and 85% improved in knowledge in better use of chemicals. Participant comments consisted of: "Program helped me to grow a better quality tree." "This course was very informative and helpful in stimulating thought of how to deal with problems and needs of generating better products and yet preserve the land. "

Source of Funds

Smith-Lever 3b&c, state, county, grant

Scope of Impact

Multi-State: NC

Hazardous Materials and Recycling

Educational Initiative Title: Resource Recovery Education

Cathy Foune: Van Buren County

Description of Program

The goal of this program was to provide resource recovery information to all Van Buren County residents. Activities included a Public Hearing regarding the Van Buren County Solid Waste Management Plan Update in December, a household hazardous waste collection in October, work with the Technical Advisory Committee for the SW MI Solid Waste Consortium on designing, and distributing two brochures for the region regarding household hazardous waste. Also, presented a 5-minute radio spot on local radio station regarding rechargeable batteries.

Over 14,000 brochures were printed and distributed on safer alternatives in seven counties. The brochure was also translated into Spanish. Education was provided for the Almena Twp Board regarding alternatives to leaf

burning, and provided actions the Township could take to assist residents in disposing of their leaves if a twp ordinance banning leaf burning was enacted. The Board agreed to composting demonstration during their local festival in August. A presentation was also done for the South Haven Garden Club regarding recycling, household hazardous waste and Home*A*Syst. The program was well received by the 28 women present.

Recycling presentations were given to all fourth grade classes at Lawton Elementary (four classes total). Recycling presentations were also made to both kindergarten classes at Trinity Lutheran School. An Earth Day Celebration was held at the Wolf Lake Fish Hatchery Visitors Center. This program was a joint venture between the DNR, Kalamazoo Nature Center, AmeriCorp and Lawrence Library.

Impact

Over 200 hundred people attended the Earth Day Celebration. Resource Recovery information was displayed at the county fair and twp local festivals, over 170 people stopped by the booths. The Clean Sweep program was very successful this year for Van Buren County, with over 2500 pounds DDT, 1700 pounds dildron and 1500 DDE were processed. In addition, two household hazardous waste programs were held. Thirty-three residents participated and over 2500 pounds of material was properly disposed.

Source of Funds

Smith-Lever 3b&c, state, county, grant

Scope of Impact

State

Key Theme - Natural Resources

Educational Initiative Title: Great Lakes Education Program

Stephen R. Stewart

Description of Program

The Great Lakes Education Program, now in its 10th year, has demonstrated the need and desire for opportunities that provide linkages between Great Lakes information/experiences and Michigan classrooms. The GLEP developmental Task Force developed a draft curriculum for use in both the classroom and aboard the schoolship. These materials were revised for use during the 1999 season as a result of Sea Grant research begun in 1995. Through 1999, 643 teachers, 17,650 students, 2,569 parent chaperones, and 242 Cruise Leader volunteers have taken part in the program. In 1996 the first GLEP World Wide Web site went on-line, providing information about the program to participants and interested others world-wide. The second-generation website is now on line. Partial support for class participation and operational support has been received since 1993 from the Detroit Edison Foundation, totaling \$67,975. In 1998, the program was successfully piloted on the Detroit River. The present vision is to implement the program regionally, with market penetration at least as good as that historically seen in Macomb County. The principal audience is 4th grade students. Secondary audiences include teachers, parents who serve as field trip chaperones, volunteer instructors, and program partners. Long term, as described in the Michigan Sea Grant strategic plan, regional expansion is planned that will serve students from Port Huron to Ohio. Collaborators include the Great Lakes Education Program developmental Task Forces in Macomb and Wayne counties, the Detroit Edison Foundation, Clinton River Cruises, Inc., the Downriver Career Technical Consortium, the Michigan Department of Environmental Quality, the Macomb Intermediate School District, Metropolitan Beach Metropark, the Lake Erie Metropark (Huron-Clinton Metropolitan Park Authority), and representatives from other schoolship programs around the Great Lakes.

Impact

The program assessment that preceded the curriculum development conclusively documented that GLEP participation increased knowledge levels of all participants, and improved the behavioral intentions of some participants. These findings have resulted in more stable support from program funders, who look to evaluation results for justification of their contributions. The final curriculum was used first in 1999 by more than 135 teachers, and was a resounding success. Evaluation comments indicated that teachers see the new Handbook as more user friendly and content appropriate. They especially appreciated format revisions that allow for

integrating emerging technologies with individual learning activities, built-in activity assessment tools, additional resource listings, and the explicit referencing of Michigan educational objectives in science and social studies for each learning activity. An overwhelming 91% rated the new Handbook as "Excellent". This extremely positive response has strengthened opportunities to expand and replicate GLEP education in new areas of Michigan. The ultimate audience is two-fold: teachers who directly use the curriculum, and their students who benefit from its use. The resulting set of materials were designed so that diverse audiences can make ready use of them, and apply them to diverse resource bases. This is why I was asked to address the 2000 annual conference of the North American Association for Environmental Education, on the topic of "GLEP: A Model for Addressing Cultural and Ecological Diversity".

Some of the participants' evaluation comments were: "Teachers have a unique opportunity to bring the real world into their classrooms with the Great Lakes Education Program. I cannot imagine teaching without GLEP. It has become a most valuable part of my curriculum." (Bill Stark, teacher, Sugarbush Elementary)

"By supporting GLEP in our community, we help support the education of youth who will face environmental issues and start them thinking early, making them guardians of their own back yards. Our company strongly believes in the goals of GLEP and they have our continued support." (Margaret Fallone; Pecar Electronics, Inc; annual school sponsor)

"Overall, it is the most enjoyable and rewarding volunteer activity I've ever participated in, and I've done a lot of different volunteer activities." (Linda Walton, GLEP Cruise Leader Volunteer)

Source of Funds

Smith-Lever 3b&c, Sea Grant, state, county, grant

Scope of Impact

State

Key Theme - Forest Resource Management

Educational Initiative Title: Continuing Education for the Forest Industry

Ralph G. Duffek: Upper Peninsula Region

Description of Program

The Upper Peninsula of Michigan is 85% forested and this resource is extremely important to the UP economy. There is a real need to keep loggers and sawmillers abreast of rapidly changing technology and harvesting methods to keep them financially more competitive. The program provided log scaling and grading workshops. Collaborators included Michigan Technological University, forest industry, and the US Forest Service.

Impact

Log scaling and grading programs were conducted at the Ford Forestry Center in the Spring. An understanding of the log grading rules was taught that will give these loggers better skills in making decisions on where to cut up a hardwood tree into logs to maximize the dollar return.

These programs have been conducted for a number of years at the request of forest industry and continue to be well attended. Our hardwood resource in Michigan is very high value and the competition for this raw material resource is keen. Another training consisted of a one week log lumber grading short-course which was held at the Ford Forestry Center to refresh existing lumber graders on rule changes or provide other mill employees the basics of hardwood lumber grading. With the high demand for private landowner stumpage, the marketing and management workshop can save landowners potentially thousands of dollars as well as encouraging wise forest management. Over 134 participants were involved in the logging programs throughout the year, with 85% reporting they will use information gained in the training. MSUE will take a larger role in the future in offering classes for the logging community that will qualify for certification credits for SFI. A timber marking class is planned for the fall. Reaching non-industrial forest landowners with sound forest management information is important locally and to the forestry AOE. We continue to get requests to offer these programs downstate and Wisconsin and will try to meet more of these requests in the future.

Source of Funds

Smith-Lever 3b&c, state, county, grant

Scope of Impact

Multi-State: WI

Key Theme – Land Use

Educational Initiative: NATURAL RESOURCES & LAND USE

George H. Byelich: Alcona County

Program Description

Local planning officials are struggling with decisions on land use developments. Alcona County has tremendous land based resources that attracts new owners and retains existing owner interest in the land. Over 2000 parcels are wooded and larger than 20 acres. Over 230 lakes and ponds attract high priced shoreline buyers. Lake Huron's 30 miles of shoreline has quadrupled in value in the past 10 years. Development is encroaching upon the landscape in a dispersed and scattered fashion that will interfere with land based economic enterprises that require land and uninterrupted space to operate. The cash value today far exceeds one billion dollars for all lands in the county and still no planning for future growth, development and services has been taken on by the county. A survey of 800+ local (130 from Alcona County) planning officials in NE Michigan was conducted during 1999-2000 to obtain stake-holder input.

The goals of the program were to: (1) improve land owner understanding of land management options; (2) help land use decision makers increase their understanding of land and water resources; and (3) enable citizens and/or staff to participate in land use workshops and training programs. Collaborators included MSUE county, regional and state staff, MI DNR, DEQ in the region plus USFS, county departments, conservation districts and NRCS.

Impact

The Extension Land Use Agent developed a 'tool kit' that featured how to use data available to locate resources and interprets their value. The program helped local officials involved in land use planning learn how to evaluate the value of land resources through a classroom workshop and then toured the landscape to see first hand resources that have value for making a secure environment. Evaluations were conducted at two workshops on habitat development with 95% positive response.

Source of Funds

Smith-Lever 3b&c, state, county

Scope of Impact

State

Key Theme – Water Quality and Riparian Management
Educational Initiative Title: Water Quality Education
Dean R. Solomon: Southwest Region

Program Description

Surface water quality concerns continued at high levels in Southwest Michigan. Economic growth and changing land use patterns present additional challenges to protection of water resources in the region. This trend is leading to additional multi-agency water quality and funding opportunities. Of special concern are riparian areas and lake watershed management. The program conducted periodic training programs on the use of the shoreline management supplement for GSP technicians, AmeriCorp volunteers and Extension agents. In addition, the program developed and implemented locally-based inland lake training programs for lake residents and leaders and developed a shoreline management demonstration area at the Kellogg Biological Station. These programs led to assisting in the development of additional shoreline and lake management educational materials and presentations for use by GSP technicians and Extension agents.

Impact

One hundred forty eight participants were trained in the area of water quality. Evaluation of the Managing Shoreline Areas was well received with 47% of participants rating the session “very helpful” and 53% rating it “extremely helpful.” At the conclusion of the program, 32% of participants indicated that they were “comfortable” using the shoreline supplement, 53% “very comfortable” and 11% “extremely comfortable.”

Source of Funds

Smith-Lever 3b&c, state, county

Scope of Impact

State

Overview of Goal 5: Enhanced economic opportunity and quality of life for Americans

Table 9 shows the AoE Teams, number of program participants, and federal key themes address by the AoE Teams for Goal 5. It is important to note that youth were distributed by the content area and were not duplicated, whereby, an additional 87,571 youth from Goals 1 through 5 could be added to make the total number of youth to be 255,171. Key themes addressed by the AoE Teams in Goal 5. were community development, family resource management, parenting, child care, leadership training, tourism, youth development, character education, and children, youth and families at risk.

Goal 5	Adults	Youth	Total	Key Themes
Community Development	4,689	238	4,927	Community Development
Economic Development	2,163	1	2,164	Community Development
Family Resource Management	6,688	1,541	8,229	Family Resource Management, Children, Youth and Families at Risk
Financial	6,543	207	6,750	Agricultural Financial Management
Human Development	19,531	11,850	31,381	Parenting, Child Care
JobNet	1,045	372	1,417	Leadership Training
Other	14,373	10,008	24,381	Miscellaneous
State & Local Government	2,035	37	2,072	Community Development, Leadership Training
Tourism	4,445	6,227	10,672	Tourism
Youth Development	5,552	15,036	20,588	Youth Development, Leadership Training
Youth Development**	12,206	122,083	134,289	Youth Development/4-H, Character Education, Children, Youth and Families at Risk
	79,270	167,600	246,870	

** To avoid duplication, youth who crossed goals were not counted again in youth development.

Table 9.
Total Participants Reached Directly by AOE For Federal Goal 5.

Some of the successes reported in EIS by for Goal 5 were:

- The Community Assessment has touched the lives of all of the citizens of Schoolcraft County. The spirit of cooperation and improved communications that have resulted from the assessment findings will continue to strengthen the sense of community in Schoolcraft County.
- The Manton Four Corner Project on land use and community/economic development is something no one government would have done alone, nor could have afforded, but by splitting the cost between two townships, the city and Wexford County made it possible. The facilitation of meetings by MSUE made this cooperation and working together possible. The initial collaboration resulted in joint funding of an important project for the area, and set the stage for further collaborations.
- A subjective assessment was that viewing platforms have helped Tawas State Park become a more friendly place. MSUE's Michigan Sea Grant and the Iosco Audubon Club also received very good PR with the project. Since birding is very important to our local economy, this project, while small, has contributed positively to Iosco County's economic stability.
- Average savings by the tax estimator software was \$7,395 per farm for the 109 farms in the region. The Dairy Lines newsletter was mailed to 700 farms and agribusinesses in Dec and Feb. This newsletter was later judged as a national winning entry to the NACAA Communications awards.
- The response to Better Kid Care was overwhelmingly positive. Evaluation indicated 99% rated the Better Kid Care workshops as valuable with 98% reporting at least one of the best practices in place would be applied. The continued growth in participation in the BKC indicates the great need for continued educational programs for child care providers.
- One hundred and seventy three parents received parent education during 1999-2000. Some of the topics of training included dealing with discipline and anger, building trust and responsibility, and building self esteem in children. Evaluation after the training indicated: 95% increase in knowledge on child development and 82 % indicated progress on personal goals they had set during the course. A six month follow-up found 68% were less angry with their children; 68% responded more quickly to their children; and 53% of the parents talked more to their children.
- The family resource management program conducted a poverty simulation to help those who work with limited resource families and individuals understand and empathize with their challenges and frustrations.

- Participants in the simulation commented that the experience gave them a good idea of the roadblocks and frustrations poor families encounter on a daily basis. They remarked that they would be less judgmental and have greater patience after the experience. They felt that one way they can help is to become more familiar with resources available to limited resource families in the county.
- Written post-workshop surveys of a leadership training program indicated all participants reported increased self-awareness, 83% increased conflict resolution skills, 80% increased effective communication skills, and 57% stated they would share lessons learned with others.
 - Evaluation of pre and post testing of the youth in the character education program found a 33% increase in children who said they treat people the way they want to be treated and 66% increase in children who said when they help other people they feel good about themselves. Comments from AmeriCorps members and the children indicated progress: "I notice that they have become more aware of their own behavior." "After 4-H, they have an example of good character and learn from that." "I see children helping out by picking up, cleaning and giving positive comments." "I learned the 6 pillars are....". and "I will be respectful and I will stop talking when the teacher is talking and I will help people when they fall."
 - Youth and volunteers increased their awareness of different styles of living throughout the US and the world. Youth and volunteers learned more about the dynamics involved in sharing living space and life events with someone beyond immediate family members. Youth and volunteers learned more about educational opportunities, entertainment, transportation, and housing that is available in different parts of the world. Youth and volunteers learned more about the view that others have about their project as well as how to improve their project. Youth practiced and learned more about communication, self confidence and presentation skills through an interview and performance process.

The AoE Teams in Goal 5 met their 1999-2000 Plan of Work goals by reaching their targeted population. All teams and members have become more active in recruiting stakeholder input and involving collaborators in setting priorities, designing and implementing programs. In addition, all teams are engaged in identifying underserved populations and developing strategies and programs to address these populations. The following examples from EIS demonstrates this:

Key Theme – Community Development
Educational Initiative Title: Maton Four Corner Group
Kurt Schindler, Wexford County

Program Description

The area around the City of Manton, and the city is economically depressed. The community has a history of past disagreements concerning issues such as annexation and cost sharing for various public services. A new freeway will re-route U.S.-131 around Manton (to be completed in 2004) creating a perceived threat to the existing central business district. MSU Extension initiated a meeting with the leaders of the Cadillac Area Chamber of Commerce. and the Manton Chamber. This resulted in proposing a joint meeting between City of Manton, Cedar Creek Township, Greenwood Township, and Liberty Township.

MSU Extension sponsored and set up the first meeting. The purpose of the meeting was to discuss planning for the area and to start to prepare for the economic and land use impacts of the new freeway.

Impact

The effort was a success, with monthly meetings now scheduled. It is the first time ever these officials from the four units of government have ever all met together, let alone established regular meetings. The group, co-sponsored with Extension, met with professional planners to receive proposals for market analysis and highway beautification work. This was a very effective way to address issues of the freeway impact, economic development, land use planning, and fostering better working relationships between the four units of government. One of the major indicators of success is that four governments, and the Manton Chamber of Commerce agreed to spend money to hire a consultant to do a market study of their area, to determine the best route to take for land use, and community and economic development. This is something no one government would have done alone, nor could have afforded, but by splitting the cost between two townships, the city and Wexford County made it possible. The facilitation of meetings by MSUE made this cooperation and working together possible. The initial collaboration resulted in joint funding of an important project for the area, and set the stage for further collaborations.

Source of Funds

Smith-Lever 3b&c, state, county

Scope of Impact

State

Key Theme – Community Development
Educational Initiative Title: Community Development
David Andersen: Schoolcraft County

Program Description

Schoolcraft County had not held an issues identification review for 7 years. Many of the issues identified in previous assessments had already been addressed with quite a few new issues emerging in the County. One of the goals of the program was to facilitate visioning, revisiting, strategic planning and implementation primarily for this rural community by implementing a Community Assessment Team (CAT) program. Stakeholder input resulted in a list of issues they wanted to have reviewed by an independent assessment team. Diversity efforts involved inviting the leadership of the Sault Ste. Marie Tribe of Chippewa Indians to be a part of the planning process. Collaborators included The Schoolcraft Alliance, The Chamber of Commerce, Economic Development Corporation, Manistique Merchants, Ministerial Association, Manistique Area Schools, Big Bay de Noc Schools, and local units of government. This program helped get the citizens of Schoolcraft County to work together for the common good of the County.

Impact

The Community Assessment Team(CAT) spent 3 1/2 days visiting with over 130 citizens in Schoolcraft County. The team interviewed these citizens with the intent of finding out how they felt about the issues that had been identified over the previous summer and fall. As a follow up to the Community Assessment a final report was delivered to the general public, plus a community summit meeting was conducted. Invited citizens from all over the county prioritized projects identified in the Community Assessment. This list provided direction for the development of action plans. This process has had a significant impact on the citizens of the County. Organizations identified projects and concerns that they can implement. They discussed investments in human capital and economic development that will have far reaching implications for the county in years to come. Some of the politically charged issues were discussed and citizens felt they had both a moral and ethical responsibility to address them. In one way or another the Community Assessment has touched the lives of all of the citizens of Schoolcraft County. The spirit of cooperation and improved communications that have resulted from the assessment findings can only strengthen the sense of community in Schoolcraft County.

Source of Funds

Smith-Lever 3b&c, state, county

Scope of Impact

State

Key Theme-Tourism

Educational Initiative Title: Tourism-Environmental Education-Wetlands

Walter J. Hoagman, North Region

Program Description

Nature based tourism, or entertainment, has been on the upswing nationally and locally. This has prompted many communities to begin featuring these aspects in their promotional literature and providing enhanced facilities and/or materials to serve the need. In Northeast Michigan, there is a need to provide more opportunity for utilization of the coastal zone and for concise materials that detail the features to be found there. The goals of this program were to expand the tourism draw to Northeast Michigan by enhancing the infrastructure of local areas used by the public for nature based education and entertainment. The audiences for this program were visitors and residents that utilized the coastal zone of Northeast Michigan for activities such as beachcombing, birdwatching, flower identification, and in general nature based education relating to the shore. Diversity efforts focused on developing infrastructure and materials for many ages, various physical abilities, and other attributes as identified; including making access handicapped accessible. Collaborators include Michigan Department of Natural Resources, Division of Parks, U. S. Forest Service, Chamber of Commerce, Michigan Sea Grant, Michigan Department of Environmental Quality, and Office of the Great Lakes.

Impact

The program identified existing areas and resources therein that attracted visitors as described above. Planning sessions were held with managers of such areas/facilities, including invited educators, to determine specific needs. The projects included such things as trail maps, elevated towers for viewing, wetlands appreciation stations, wildflower signage, Great Lakes information packets, assembling lists of common features (plants, animals, coastal features, etc) to look for, establishing a distribution system through the State Parks and elsewhere, and bringing the key information to internet pages for that County or official entity. MSUE brought to Tawas State Park and the Iosco County Audubon Society, an idea to construct six (6) nature viewing/wetland blinds at the State Park. All the players began a series of meetings and evaluations that led to approved designs, environmental permits, handicapped approvals, materials planning, estimated pricing, and grant seeking. We also held several ground inspection meetings with various personnel needed. Then through a grant, submitted to WIN (Saginaw Bay Watershed Initiative Network) for the Audubon Society, six wetland/bird viewing platforms were built at Tawas State Park that mainly overlook wetlands. All were available for use in time for the large spring migration of birds and people that come to watch them. This small project will be

repeated, if possible, in the years ahead, at other locations. In addition, the program has written and published web pages for birds where 10 pages are now up and running. A subjective assessment was that these viewing platforms have helped Tawas State Park become a more friendly place. The program has shown it supports and appreciation of the outdoors in all its aspects. MSUE's Michigan Sea Grant and the Iosco Audubon Club also received very good PR with the project. Since birding is very important to our local economy, this project, while small, has contributed positively to Iosco County's economic stability.

Source of Funds

Smith-Lever 3b&c, Sea Grant, state, county

Scope of Impact

State

Key Theme – Agricultural Financial Management Educational Initiative: Dairy Production Education Profile Report for G. William Robb

Program Description

Dairy production is becoming more technical each year. As herd size grows the need to fine tune management of cow nutrition, health, cow comfort and milking systems is required. In addition, management of the cropping program, labor and finances can determine the difference in a profitable farm. This educational program utilized multiple approaches to effect production practice changes and improve profitability as well as help dairy producers plan for business growth in the 21st Century. Annual financial analysis and FINANs were used to indicate levels of profitability for Telfarm dairy farms in SW Michigan.

Impact

Average savings by the tax estimator software was \$7,395 per farm for the 109 farms in the region. The Dairy Lines newsletter was mailed to 700 farms and agribusinesses in Dec and Feb. This newsletter was later judged as a national winning entry to the NACAA Communications awards.

Source of Funds

Smith-Lever 3b&c, state, county

Scope of Impact

Multi-State: IN

Key Theme – Child Care

Educational Initiative Title: Better Kid Care

Kelley A. Hiemstra, Kalamazoo

Program Description

Caregivers in Kalamazoo County are at a deficit in finding quality educational opportunities that address their needs in the child care business. The Michigan Family Independence Agency funded the costs to downlink the Penn State University Satellite in 40 counties and host the educational program. The audience consisted of child care providers and center directors in the Kalamazoo County area.

Impact

Three satellite trainings were broadcasted. Over 100 child care providers were reached. Current research based ideas and best practices were presented to improve the management and care provided in child care centers. Information was provided on child development, parent-child interactions through play, discipline and decision making. The response was overwhelmingly positive. Evaluation indicated 99% rated the Better Kid Care workshops as valuable with 98% reporting they would put at least one of the best practices in place. The continued growth in participation in the BKC indicates the great need for continued educational programs for child care providers. Additional needs reported by the participants were they want to know more about how to handle explosive behavior and ADD children, which was passed on to Penn State University.

Source of Funds

Smith-Lever 3b&c, state, county, grant

Scope of Impact

Multi-State: PA

Key Theme – Parenting

Educational Initiative Title: Parenting Education

Joanne E. Pihlaja: Upper Peninsula Region

Program Description

The program provided a series of at least six in-home parenting lessons to parents of young children. Diversity efforts included providing educational services to parents of young children, especially limited income and at-risk families. The program also worked with parents of young children at Lac Vieux Desert Tribal community as well. Collaborators included Gogebic County Human Services, Coordinating Board, Gogebic County FIA, Gogebic/Ontonagon Child Protection Council, Gogebic County Community Schools, Even Start Program, and DOVE 4Cs.

Impact

One hundred and seventy three parents received parent education during 1999-2000. Some of the topics of training included dealing with discipline and anger, building trust and responsibility, and building self esteem in children. Evaluation after the training found: 95% increase their knowledge on child development and 82 % indicated they had made progress on personal goals they had set during the course. A six month follow-up found 68% were less angry with their children; 68% responded more quickly to their children; and 53% of the parents talked more to their children. Comments from parents indicated the following behaviors increased in frequency: encouraged children to do things with hands, made up games for children to play, helped child to feel comfortable around children, praised children, encouraged child to make sounds or talk to parents, gave child time to calm down when upset, and helped the child to feel secure and safe.

Source of Funds

Smith-Lever 3b&c, state, county, grant

Scope of Impact

State

Key Theme – Family Resource Management

Educational Initiative Title: Family Resource Management

Cathy J. Newkirk: Shiawasee County

Program Description

The CED/EHE is the only staff person in Shiawasee County able to provide educational programming in the area of Family Resource Management, including financial management, for the general public, as well as limited

resource families. Moreover, no other agency is able to work with families on budgeting at no cost to the family. Additionally, there are no other agencies in the county that provide MSHDA Homeowner Counseling. The goals of this program were: to increase savings and reduce consumer debt; to improve the organization and management of personal/family financial affairs; and to develop home buying and decision making and action skills for limited resource families. Collaborators included Capital Area Community Services and Michigan Family Independence Agency.

Impact

Forty-six people received family resource management training during 1999-2000. Comments from post-session budget class evaluations: "How I was raised around money would be related to how I am now with money." "This class was interesting and helpful. I will use the budgeting worksheets." The family resource management program conducted a poverty simulation that was an effort to help those who work with limited resource families and individuals understand and empathize with their challenges and frustrations. Participants in the poverty simulation commented that the simulation gave them a very good idea of the roadblocks and frustrations poor families encounter on a daily basis. They remarked that they would be less judgmental and have greater patience after the experience. They felt that one way they can help is to become more familiar with resources available to limited resource families in the county.

Source of Funds

Smith-Lever 3b&c, state, county, grant

Scope of Impact

State

Key Theme – Leadership Training and Development
Educational Initiative Title: Leadership Development
Tammy Freeberg: Washtenaw County

Program Description

This program started in 1999-2000 with the goal of facilitating the development of leadership skills, including communication, conflict resolution, and diversity among special audiences. The audience consisted of both adults and youth, where the youth were primarily low-income, youth of color who had not completed high school. Stakeholder input came from Youthbuild Partners

Advisory Committee, a consortium of county government and faith-based community development youth-serving organizations as well as the participating youth. The program focused on increased self-awareness and plans to use skills in decision making, communication, and problem solving.

Impact

The program started by adding a leadership development component to the Youthbuild program, that involved participants in the design of the program. The program worked with a core group of participants to build their capacity to serve as the policy committee for the program. The workshop curricula was further developed to include stand-alone sessions on communication, conflict resolution, diversity and group process. Through outreach, the program expanded the audience for the skill workshops to include individuals in substance abuse treatment and youth workers. The program reached twenty-six people through nine leadership development sessions. Over eighty percent of participants reported plans to use the ideas and skills in their lives. Examples of what participants plan to use included communication skills like "stop advice-giving" and "make more eye contact" and conflict management skills like "understanding different styles". Written post-workshop surveys of the leadership training indicated all participants reported increased self-awareness, 83% increased conflict resolution skills, 80% increased effective communication skills, and 57% stated they would share lessons learned with others.

Source of Funds

Smith-Lever 3b&c, state, county

Scope of Impact

State

Key Theme-Character Education

**Educational Initiative: Pontiac Youth Violence Prevention Partnership
with Americorps**

Thomas F. Schneider: Oakland County

Program Description

One of the goals of the violence prevention program was to provide after-school and summer educationally based enrichment programs that improved knowledge, attitudes and/or behaviors in topics such as character education,

conflict resolution, and self esteem. The character education focused on children gaining a better understanding of good character and demonstrate the six pillars of character in their lives. In addition, the program focused on reading literacy. Partnerships were developed with Pontiac Schools Project Synergy Works(21st Century Schools Grant), Pontiac Neighborhood Youth Initiative, and AmeriCorps. AmeriCorps members assisted with the programs which provided enhanced opportunities for program resources and development of the AmeriCorps members' skills.

Impact

Participation by youth in Pontiac increased as a result of the AmeriCorps partnership and the work of the members. Evaluation of 270 pre and post testing of the youth in the character education program found a 33% increase in children who said they treat people the way they want to be treated and 66% increase in children who said when they help other people they feel good about themselves. Comments from AmeriCorps members and the children indicated progress: "I notice that they have become more aware of their own behavior." "After 4-H, they have an example of good character and learn from that." "I see children helping out by picking up, cleaning and giving positive comments." "I learned the 6 pillars are....". and "I will be respectful and I will stop talking when the teacher is talking and I will help people when they fall."

Source of Funds

Smith-Lever 3b&c, AmeriCorps, state, county

Scope of Impact

State

Key Theme-Youth Development

Educational Initiative: Youth Educational Programs and Member Management

Diane L. Ayriss, Midland County

Program Description

The goals of the program were to provide developmentally appropriate asset building/life skill development skills through methods such as clubs and groups, in- and out-of-school and summer programs and offer educational programs for adults and youth focusing on agriculture and environmental

education, that explore issues of science literacy, public policy development, stewardship, food production and workforce preparation. In addition, the program provided opportunities, through community services and service learning for youth, volunteers and their families to engage in pro-social behavior critical to promoting positive development. In addition, the program recognized youth and volunteers for their involvement and achievements in the 4-H Youth Program. Collaborators included schools and volunteers.

Impact

One of the major activities of the year was a youth and volunteer exchange group that participated in hosting youth and volunteers from Montana over the summer. The exchange involved experiencing the local airport when they met and returned their exchange person, hosting the exchange person in their homes, touring the area of Mackinaw City and tourist spots just above the bridge, and socializing with the exchange person at a final gathering of all people involved. In addition, youth and volunteers participated in a trip to Toronto that exposed them to people living in Toronto, the city itself, the Blue Jay stadium, the Lion King play, Medieval Times restaurant and equestrian theatre, the subway system, Canada's Wonderland, a Canadian Mall, the CN Tower and the Hard Rock Cafe. Youth and volunteers increased their awareness of different styles of living throughout the US and the world. Youth and volunteers learned more about the dynamics involved in sharing living space and life events with someone beyond immediate family members. Youth and volunteers learned more about educational opportunities, entertainment, transportation, and housing that is available in different parts of the world. Youth and volunteers learned more about the view that others have about their project as well as how to improve their project. Youth practiced and learned more about communication, self confidence and presentation skills through an interview and performance process.

Source of Funds

Smith-Lever 3b&c, state, county

Scope of Impact

Multi-State: MT

Management Goals

Key Theme-Information Technologies

Educational Initiative Title: Extension Information System (EIS)

Bruce Haas: State

Program Description

During the 1999-2000 year Michigan State University Extension developed and implemented a web-based information system that allows all 83 counties to remotely enter and access information regarding plans, progress, outcomes, and impacts of local and state initiatives. EIS has changed the reporting process (used mainly by campus for reports) to an information system that is used by all MSUE staff for networking, disseminating, and learning.

Impact

In twelve months, over 2,000 initiatives were documented. The information has been used: locally for reporting to commissioners; by the AoE teams for assessing accomplishments and learning from each other, by grant writers documenting needs and/or capabilities of MSUE, by individuals for documenting professional development, growth, and accomplishments annually and for their continuing employment review, and by campus for federal reports, civil rights reviews, university reports, and marketing. The largest impact has been the visibility and accessibility of information to the organization to be used for multiple purposes in a timely manner. MSUE has collaborated with Wisconsin while developing the system and has demonstrated it and made available to several states that includes Colorado, Georgia, and Maine.

Source of Funds

Smith-Lever 3b&c, state, county

Scope of Impact

Multi-State: WI, CO, GA, ME

Key Theme-Multicultural and Diversity Issues
Educational Initiative Title: Multicultural and Diversity Training
Sandy Clarkson: State

Program Description

Michigan State University Extension's (MSUE) multicultural initiative is to institute and sustain organizational change that integrates multicultural concepts and principles into its environment, educational programming and employment.

MULTICULTURAL SELF-AWARENESS WORKSHOP

More than 180 staff participated in the two-day Multicultural Self-Awareness Workshop. Workshop goals are to help staff learn more about their own cultures, to develop a common language and set of multicultural concepts and to enable participants to understand their belief systems regarding people "different from me" (i.e. abilities, class, gender, race and sexual orientation). Since 1997, 38 staff and partners from the MSU Gay, Lesbian, Bisexual and Transgendered Faculty and Staff Association have been trained by VISIONS, Inc. to facilitate this workshop for more than 1,130 staff.

Workshop evaluation results indicated that:

- **94% of the respondents strongly agree or agreed that they gained new insights and experiences about multiculturalism and diversity;
- **95% of the respondents strongly agreed or agreed that they will apply these new insights and experiences in their work;
- **92% of the respondents strongly agreed or agreed that they would recommend this workshop to a colleague.

SATELLITE CONFERENCE ON MULTICULTURALISM

A "Satellite Conference on Multiculturalism for All MSUE Staff" was held to review key learnings from the workshop and to develop multicultural action plans. Dr. Eric Jolly, Education Development Center, Inc., presented "Moving Towards Diversity: A Model for Community Change" which offers a path to move from exclusion to representation, empowerment and shared responsibility within communities.

Staff shared their experiences with multiculturalism before and during the conference. Several counties made changes (i.e. equipment and mail boxes for each staff member, listing staff names alphabetically rather than by roles) to deal with classism issues raised. Other units worked to make the office environment more welcoming to all people (i.e. receptionist enrolling in Spanish course, art work reflecting persons of color and persons with

disabilities). Staff initiated a partnership in one county with businesses and MSU researchers to determine the economic contributions of Hispanic migrant and resident populations. Several counties worked with Amish farm families to assess needs and design educational programs (i.e. vegetable production, formation of a marketing cooperative, buggy safety, food preservation and safety). One county secured grants for a leadership development program for "Persons Experienced in Poverty"; participants became the core facilitators to use the Rowel Poverty Simulation to sensitize agencies and the public about challenges of living in poverty. Another county provided training and materials about issues of gay, lesbian, bisexual and transgendered persons to staff and community leaders.

CONTINUED LEARNING OPPORTUNITIES

Ninety-two staff members participated in three workshops, "Learn about Anishinabe Michi Gami: People of the Great Lakes". Participants rated the usefulness of what they learned about American Indian culture at 3.8 on a 4 point scale. Several who attended are developing relationships with staff of the 12 federally recognized tribes in Michigan as a foundation for future initiatives. Staff in one county partnered with resource people to design a family event celebrating Native American Heritage Month and National Family Week. One region is planning a workshop with the Pokagon Band of Potawatomi which serves members in 13 Michigan and Indiana counties.

The MSUE Multicultural Newsletter is published and distributed monthly. The newsletter features four sections (1) awareness: resources for staff and community partners, (2) application: practical ideas to use when working with diverse audiences and individuals (3) action: programming efforts and (4) a quote of the month. Members of target groups (i.e. person of color, person with disabilities, females in non-traditional roles and program associate) have been invited to reflect about what it's like to be a target group member in MSUE. Feedback indicates:

**The newsletter is being read regularly and is full of useful information

**Staff who are members of non-target groups are talking with staff who are target group members to discuss what it's like to be a person of difference within MSUE

**The quote of the month is causing readers to think about racism, sexism, heterosexism, classism and ableism

"Questions of Multiculturalism: A Guide to Applying New Learnings" was developed and distributed to help individuals and teams continue their learning. Sections include User's Guide, Office Environment, Employment, Current and Future Clientele, Educational Programming, Community

Partners/Collaborators, Staff Development, Organizational Affiliation/Membership, Council and Committee Membership, Marketing and Publications, Resource List and Multicultural Action Plan Format and Examples. Staff are using this tool to address issues of inclusiveness in workplaces and communities and to take action on personal and organizational commitments to multiculturalism.

The "Leadership in Dealing with Difficult Multicultural Discussions Workshop" was designed to provide a framework and practical experiences for participants to speak up respectfully and firmly when confronted with inappropriate behavior, remarks or jokes. Workshops will be held during the 2000-2001 year.

PARTNERSHIPS DEVELOPED WITH ORGANIZATIONS REPRESENTING TARGET GROUPS

Staff developed partnerships with local organizations representing target group members to gain respect, talk about issues of mutual interest and develop plans to work together in the future. Examples include:

- **Food and Nutrition Program staff are working with the Grand Traverse Band of Chippewa Indians. This relationship led to a 4-H connection and resulted in summer youth programming with Native youth.
- **The Master Gardener project formed a new partnership with the Black Child and Family Institute. Staff also partnered with the National "Plant a Row Project" to assist families with limited resources access food.
- **A partnership was developed with the county commissioner to reach Hispanics and Native Americans. The county commissioner agreed to share a staff member who is Native American with MSUE.
- **MSUE staff are working with the Women's Resource Center on violence prevention efforts.

INCREASED INVOLVEMENT OF TARGET GROUPS IN EXTENSION COUNCILS AND OTHER EXTENSION ADVISORY GROUPS, BOARDS AND COMMITTEES

Increasing the involvement of members of target groups on Extension advisory bodies has been a goal of staff. Examples include:

- **Five of the 15 members of our county Extension council are persons of color; one member has a physical disability. We strive for balanced participation of males and females. Persons of color are in council leadership roles.
- **Our county council membership includes four African Americans, three

Hispanics, two youth, seven men and 10 women. We have increased the number of youth and individuals with limited resources.

- **Our county council includes three persons of color, one African American, one Hispanic and one Native American.
- **The staff who provide leadership for the MSU Extension and Experiment Station Council were intentional in their efforts to recruit members who better represent the diversity of Michigan. Two members who are African American were invited to join the council. Current members include two Native Americans and two Hispanics, one of whom was elected as president.

RESOURCES GAINED TO WORK WITH PROGRAMS TO REACH TARGET GROUP MEMBERS

- **Staff made progress in seeking human and financial resources to expand outreach to members of target groups. Examples include
- **One staff asked the county to install an automatic door to the building to make the office more accessible.
- **Staff recruited volunteers and asked for seed donations to initiate a Native American garden project.
- **Two agent positions in non-traditional programming with local financial support were added. Both positions focus on community development issues that are of concern to persons of color and families with limited resources.
- **MSUE in one county received \$10,000 for After School 4-H Programs for Youth at Risk; \$3,000 for Bloom Where You're Planted, a gardening program with youth who have disabilities; \$6,500 from the Adrian Dominicans and \$1,000 from LeadNet to expand programming for youth and adults of color, youth with mental and physical disabilities and children from limited resources families in one school district.

INCREASED DIVERSITY IN THE WORKPLACE

Staff focused on recruiting and retaining a more diverse workforce. Examples include:

- **County staff includes 29 full-time staff; 10 are persons of color (African American, Asian American, Hispanic). One individual works directly with residents who are learning disabled and want to develop independent living skills.
- **When a county had two program associate openings, they reviewed agencies with whom they worked and from whom they received referrals. Copies of the position posting were faxed to these organization with a request to refer

candidates for the openings. Five applicants all of whom are persons of color were referred; one African American and one Hispanic were employed.

**The EFNEP staff interviews and selects candidates as a team. Previously only agents were involved in the employment process. EFNEP instructors now feel more valued and gain satisfaction from this responsibility.

EDUCATIONAL PROGRAMS DEVELOPED AND IMPLEMENTED WITH MEMBERS OF TARGET GROUPS AND/OR ORGANIZATIONS THAT REPRESENT TARGET GROUP MEMBERS

Staff made progress on the goal of working with clientele who are more representative of the county's and state's diversity. Examples include

**Staff increased programming efforts with audiences who have limited resources and with Native American groups. Family Nutrition Program staff and Sea Grant agent are working with youth housed in the detention center.

**Agent did program in Spanish for farm workers employed by Christmas tree growers and provided basic Spanish language instruction for Christmas tree growers so they can better communicate with farm workers.

**Agent offered Spanish language classes for MSUE staff and Human Service Agency partners.

**County horticulturist hosted six-week class for area greenhouse growers to help them learn conversational Spanish. Class was in response to concerns from greenhouse growers that they lacked the ability to converse, even on a basic level, with these important workers.

RECOGNITION

MSUE was pleased that the MSU Gay, Lesbian, Bisexual and Transgendered Faculty and Staff Association nominated the organization's multicultural work for the 1999 MSU Diversity Award.

MSUE was honored to be selected to receive the 1999 CSREES Diversity Award for its outstanding efforts and accomplishments in achieving and sustaining diversity and pluralism in Extension.

"Vision Quest for the 21st Century", the planning and development program of the Grand Traverse Band of Ottawa and Chippewa Indians, was honored by the Harvard University School of Government. MSUE staff in Grand Traverse assisted in designing and implementing the comprehensive planning process that the tribal government used.

Four MSUE Diversity Awards were presented to staff for their exemplary accomplishments.

RECRUITMENT AND EMPLOYMENT

MSUE participated in the following to promote career opportunities and internships:

- **College of Human Ecology Career Fair,
- **MSU Minority Career Fair,
- **Department of Family and Child Ecology Community Service classes,
- **MSU Minorities in Agriculture and Natural Resources Association meeting and
- **Minorities in Agriculture, Natural Resources and Related Sciences National Annual Conference

The MSUE Director's Office funded 10 internships, eight in Urban and Regional Planning and two in Family and Child Ecology. MSU students including persons of color learned about career opportunities and contributed their ideas and energy to educational programs at the local level. An MSU graduate, an intern in the summer of 1999, was employed in the Children, Youth and Family Program to work with the immunization project.

Two individuals, one who is American Indian and one who is Hispanic, employed in the Agent Development Program for two years are continuing with MSUE. Resources from local government, community partners and MSUE are being used to maintain their positions with MSUE.

1999 employment statistics show that

- **7.9% of agents are persons of color (28 of 355)
- **54.1% of agents are female (192 of 355)
- **35.8% of county Extension directors are female (29 of 81)
- **24.4 of program associates are persons of color (70 of 238)

SUCCESS STORIES

Taking Education to Communities

Skidway Lake in Mills Township is the most populated area of Ogemaw County.

Township residents, many of whom are senior citizens and families with limited incomes, consider themselves different from the rest of the county. Many cannot or prefer not to travel to West Branch, the county seat, to access government agencies and educational programs. Extension staff discussed how to better serve residents and create an MSUE presence in the township. The county commissioners approached MSUE and other organizations to discuss using space in the county-owned Chamber of Commerce Building in Skidway Lake. MSUE staff assessed citizens' interests and issues. They piloted horticulture workshops and youth programs for five to eight year olds. Programs will focus on business retention counseling, home ownership training, a youth reading program, foods and nutrition education, and after school activities for five to eight year olds. The "Extension Annex" will be staffed one day per week.

Spanish Classes for Greenhouse Grower

The Extension Agent offered an opportunity for greenhouse owner/operators in West Michigan to learn Spanish in order to better communicate with Latino employees. Thirty people participated in the first five-week 10-hour series.

A local resource person developed the materials and taught the class.

Participants identified some of the phrases they most needed to know. In addition to the materials provided by the resource person, each participant received a Spanish/English - English/Spanish dictionary with terms specific to floriculture. Evaluations indicated that 100 percent of the participants would recommend the class to co-workers. They particularly appreciated the diversity of teaching methods used by the instructor.

Programming with Migrant Families in Oceana County

The FNP Nutrition Instructor in Oceana County has developed a very effective program for migrant families using her bilingual/bicultural skills. Two days each month, she provides one-to-one nutrition education for young mothers at WIC Migrant Clinics in Shelby, Hart and at Chase Farms. To accommodate the mothers' work schedules, classes begin early in the morning on one day and go into the evening on the other. Participants are asked whether they prefer the lesson be taught in Spanish or English. Most request Spanish. Approximately 40 adults each month participate in the program. The FNP Nutrition Instructor teaches classes for pre-school age children in collaboration with Migrant Head Start. Eighty youngsters each week learn lessons about healthy food choices.

Greenhouse Grower Career Development Certificate Program in Spanish.

When members of MSUE's Floriculture Area of Expertise Team began to market the Greenhouse Grower Career Development Certificate Program to the greenhouse industry, they found that owner/operators were eager to enroll employees, many of whom were Spanish-speaking. The industry identified a critical need to have the materials and the program available in Spanish to provide Spanish-speaking employees with the technical skills needed to successfully grow greenhouse crops. Presenters were recruited from the Michigan Department of Agriculture, The Ohio State University, Texas and MSU Extension. The units are formatted with PowerPoint slides and speaker's notes in English side-by-side with the slides and notes in Spanish. Participants receive a specialized floriculture Spanish/English dictionary and a notebook with handouts in Spanish and English. The first four units were offered in January 2000 with 22 individuals from 11 greenhouse firms. Participants received a final exam in June. One hundred percent had completed and returned the exam by August 1. The second four units are scheduled in January 2001. Greenhouse owners have indicated that they want additional employees to attend the workshops because of the knowledge and skills that participants gained. When asked about changes they have observed in their operations as a result of the program, greenhouse owners indicated that participants are demonstrating a greater knowledge on the job and asking more technical questions. Communication has improved. This program has developed new partnerships between Latino/Latina audiences and MSU Extension staff.

VISTA Programs Celebrate Multiculturalism in Lenawee County

A 4-H VISTA volunteer in Lenawee County has found a number of ways to integrate multiculturalism into after school programming. Among her efforts are "Celebrations around the World" and "Books without Boundaries". After doing research on the Internet to learn about various multicultural celebrations, she selected a number of holidays and cultural celebrations to highlight. Students have learned about the Harvest Moon celebration (Chinese), Native American culture, Kwanzaa and Hanukkah. During each monthly program, students study the culture or celebration through prepared readings and participate in a related craft or food project. Students made Asian lanterns for the Harvest Moon celebration and medicine bags for the Native American culture celebration. This coming semester, the "Books without Boundaries" program will be introduced. Students will create, write and illustrate 25-page picture books for other children in Central and South America. With the assistance of adult volunteers, students will also learn about book binding and layout as they prepare their published works. The 4-H VISTA volunteer is a member of a team of 4-H staff who are working with the Adrian public schools state and federal programs, "Celebrando La Familia," to teach the Character Counts curriculum to Latino/a children and

parents.

Master Gardener Program: A Bit of Freedom Within the Wires

The Horticulture Organic Gardeners (HOGS) and the Master Gardener (MG) program of Kincheloe aren't typical gardening groups. Members share an interest in gardening and in virtually all other aspects of their daily lives. These men are residents of Kinross Correctional facility. Because the Master Gardener program was brought within the walls, some men will leave the facility with marketable skills. One individual who was released is now employed in a gardening position and uses the notebook he received during the MG program. Another who is the overall tutor for the flower, vegetable and rose gardens believes he's learned skills that will help him find employment when he's released soon. The MGs donated 9,450 pounds of food they grew to local organizations, contributed 1,050 pounds to the facility's food program and grew plants for local facilities including heritage plants for Fort Mackinac. Participants pay the full course fee and must meet behavioral expectations before and during their work as a MG. After completing the 11 week course and passing the exam for certification, volunteers work on beautification projects take care of on the tree farm and vegetable garden.

Developing Parenting and Living Skills While in Prison

More than 300 males including African Americans, Asian Americans, Native Americans and persons with low literacy rates who live in county and state correctional facilities have developed parenting and living skills. Criteria for participation is being a parent, going to be a parent or being a grandparent expecting to raise kids upon release. "Dads" attend a nine to 12 week series focusing on human development from birth through adolescence, skills for successful parenting, self-esteem issues, communication skills, child safety, discipline versus punishment, stress and anger management. Participants indicate they interact more with their children' caregivers, communicate more with their children after completing the series and sent materials home to family members. They also report that they increased their knowledge of child development, nutrition, brain development, discipline, cooperative play and anger management.

Source of Funds

Smith-Lever 3b&c, state, county

Scope of Impact

State

Program Review Process

MSU Extension continues to use the AoE Team structure for the Program Review Process as stated in the Plan of Work with no changes.

Evaluation of the Success of Multi-State and Joint Activities

MSU Extension reported in the Plan of Work that due to no auditable accounting systems were in place for multi-state or joint activities for the baseline year or 1999-2000 that it proposed zero. As demonstrated in the previous pages that both have occurred during these years, but has been impossible to put a value on them that could stand an audit. Changes have been made to the financial system and EIS to accommodate this for the 2000-2001 year and thereafter.

For further information contact Bruce E. Haas, Ph.D. at haasb@msue.msu.edu or (517) 432-3491.

Appendix C

U.S. Department of Agriculture
 Cooperative State Research, Education, and Extension Service
 Supplement to the Annual Report of Accomplishments and Results
 Multistate Extension Activities and Integrated Activities
 (Attach Brief Summaries)

Institution Michigan State University
 State Michigan

Check one: Multistate Extension Activities

Integrated Activities (Hatch Act Funds)

Integrated Activities (Smith -Lever Act Funds)

Title of Planned Program/Activity	Actual Expenditures				
	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004
	0				
Total	0				

Form CSREES-REPT (2/00)

Director: Margaret Bethel

Date: 3/1/01

Appendix C

U.S. Department of Agriculture
 Cooperative State Research, Education, and Extension Service
 Supplement to the Annual Report of Accomplishments and Results
 Multistate Extension Activities and Integrated Activities
 (Attach Brief Summaries)

Institution Michigan State University
 State Michigan

Check one: Multistate Extension Activities
 Integrated Activities (Hatch Act Funds)
 Integrated Activities (Smith -Lever Act Funds)

Title of Planned Program/Activity	Actual Expenditures				
	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004
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Total	0	<hr/>	<hr/>	<hr/>	<hr/>

Director: Margaret Bethel

Date: 3/1/01

