

University of Alaska Fairbanks
Annual Unit Plan

A. General Information: (generic information common to most reports)

Unit Name: UAF Cooperative Extension Service

Unit Mission Statement:

UAF Cooperative Extension Service interprets and extends relevant research-based knowledge in an understandable and usable form; encourages the application of this knowledge to solve the problems and meet the challenges that face the people of Alaska; and, brings the concerns of the community back to the university.

Core Services:

UAF's Extension is part of the largest informal education system in the world, connecting Extension programs at land-grant colleges and universities in every U.S. territory and state. Extension offers hundreds of publications, written and produced by university specialists, which contain practical information of interest to Alaska residents. Many publications are free and available online. Major program areas include agriculture and horticulture; health, home and family development; natural resources and community development; and 4-H and youth development.

B. Reporting period: (please check the appropriate box)

Annual Report (due date July 27)

Plan of Work approved by USDA CSREES up to September 2006

GOAL 1. AN AGRICULTURAL SYSTEM THAT IS HIGHLY COMPETITIVE IN THE GLOBAL ECONOMY.

1.1 The 2005 field trials evaluated young and older leaves of Brassica greens for total yield and mineral levels. Cabbage sales can be extended into the winter season by choosing varieties and cultural practices that lead to storage quality and marketable size. As white mold disease can devastate vegetable yields in Alaska and worldwide, our research has two components: scientific study of population ecology and, for practical horticulture, determination of whether various fungal populations exhibit different characteristics that may lead to different crop management strategies for different species of *Sclerotinia* in Alaska. The 2005 outbreak showed a failure in prevention.

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Bruce Godfrey, Utah State University dairy management economist, worked with UAF Extension Livestock Specialist Milan Shipka to visit dairy farms throughout Alaska. As a result of Godfrey's analysis, the Alaska Board of Agriculture and Conservation chairperson formed the Dairy Industry Ad Hoc Committee, as part of the Division of Agriculture, Alaska Department of Natural Resources. Extension's expertise was sought to help develop long-term solutions to problems faced by the Alaska dairy industry.

- 1.2 The Reindeer industry and consumer use of Reindeer meat through collaboration with the Kawerak Reindeer Herder's Association, UAF Northwest Campus (NWC), and UAF School of Natural Resources & Agriculture Sciences' Reindeer Research Program (SNRAS/RRP) demonstrated evidence that participants from Nome and the surrounding rural communities benefited by gaining practical information and consideration of new options for future employment. Also, Extension incorporated these workshops into sections of a DVD on Food Safety and Preservation. Results of extension livestock activities demonstrate the market value of the offspring (~\$5000/muskox calf; \$1500/reindeer calf, \$1500/yak calf, \$500 beef calf) is a significant portion of the income generated by the Alaskan diversified livestock industry.

GOAL 2: A SAFE AND SECURE FOOD AND FIBER SYSTEM.

- 2.1 Commitment to annual on-going training of 500+ families enhances the usability of thousands of dollars worth of food a year. For example, 500 families receiving enough food for one week a month worth \$100, is more than \$50,000 worth of food that has been efficiently and nutritionally utilized. This training also enhances the benefits of the TEFAP food program.
- 2.2 Food Safety and Preservation continues to be a central component of the home economics program in Alaska. All of the new and revised publications are now distributed statewide and on the CES web site. Extension tested 221 gauges with 11% reading inaccurate and needing replaced.

GOAL 3: A HEALTHY, WELL-NOURISHED POPULATION.

- 3.1 Preventing obesity through increased fitness and promoting nutritional choices is important in the community. Post-tests showed participants were able to name steps to reaching a goal and name nutrition information they could not name in the pre-test. In the Strong Woman Program, all participants increased the amount of weight they lifted from the first class to the last. With the growing number of overweight and obese children and adults in Alaska, in the program middle school students learned to identify reliable research-based nutrition information resources online. Extension Food Product Development Program researchers tested eight Alaska potato varieties for glucose content and acceptability as a refrigerated french fry product. The

initial tests indicate that the high glucose content of the potatoes is a barrier for their use as a french fry because of the intense browning of the fries.

GOAL 4: GREATER HARMONY BETWEEN AGRICULTURE AND THE ENVIRONMENT.

These programs work to keep Alaska's environment an international model of a pristine environment in an economically viable, contemporary society that values working lands.

4.1 Integrated Pest Management

In partnership with USDA/CSREES, U.S. Forest Service and the Alaska Division of Agriculture, the CES-IPM Program directly served more than 14,000 clients in FY06. Out of 2,000 pest identifications made, two high priority "Exotic Pests" were discovered and about 50 mass media presentations featured IPM Program information. a major breakthrough occurred when IPM Technician Cathy Turner captured a European gypsy moth. Because the pest was detected, additional monitoring and trapping were performed to prevent it from becoming established in Alaska.

4.2 Pesticide Management and Safety

Access to the Alaska Pest Management Program (APMP) program is through our website www.alaskapestmanagement.com Between July 1, 2005 and June 30, 2006 this website received over 1500 visitors, a 1200% increase since its first year on-line.

4.3 Natural Resources Management

Beyond the progress toward the control of the extremely invasive Orange Hawkweed, the Kenai/Soldotna land resource agent continues to be highly sought as a pesticide consultant to the project and has also actively pursued efforts to expand the use of the herbicide Transline to Kodiak homeowners, through a special registration process with Dow Chemical, ADEC and EPA, in conjunction with Blythe Brown, Homer SWCD technician. Two of these high visibility projects were carried over from 2005, the Cow Parsnip (Pushki) Control Project (Happy Valley), and the Devil's Club Control Project (N. Kenai). Excellent control (kill) was obtained from an application of herbicide to the entire plant (leaves and stems) at the early flowering growth stage.

Additional 2006 projects included a selective tank-mix herbicide application (Ally and Sword) and timing study on Hempnettle along ditch-banks in Soldotna, Canada thistle control efforts in Sterling and Kenai, and a look at the new herbicide Milestone for Orange Hawkweed control in timothy. Grant money earmarked for "increasing distance delivery" went toward the wood-burning website, www.alaskawoodheating.com. The site outlines a wealth of detailed information to break the dependence on dwindling oil supplies by using the state's renewable resources—mainly trees. Features include an interactive map listing harvestable trees by region, tree-harvesting safety,

home and municipal heating studies, links to manufacturers, and best of all, an online heat calculator. This easy-to-use section computes heating costs based on home location, square feet, insulation, heat system, type and cost of fuel, and a tree-species table to determine the amount of heat each type yields.

4.4 Sustainable Agriculture

The 1995 sulfur deficiency testing and education trials continue to positively impact the Kenai Peninsula hay producers. These trials found that the addition of as little as 20 pounds of sulfate sulfur applied per acre to S-deficient field soils could more than double yields with up to a 5x reduction in nitrogen levels. Tissue sampling and testing for total N:S with ratios found above 13:1 indicate a S-deficiency.

4.5 Water Quality

Extension has been a partner with the Municipality of Anchorage, Bureau of Land Management, Anchorage Waterways Council and several other state agencies and organizations on a dog waste program. Due to the evident impact of the program in this area, in 2006 the committee decided to cancel the community trail cleanup event and focused on a different festival at a dog park in the city.

GOAL 5: ENHANCE ECONOMIC AND SOCIAL OPPORTUNITIES AND QUALITY OF LIFE FOR AMERICANS.

5.1 Economic Opportunities

Extension home economists and food specialists worked with Quentin Fong, fisheries marketing specialist with the UAF Fishery Industrial Technology Center, and the Seldovia Expansion Enterprise project staff to examine their line of products for what was currently being produced and gaps in the market. Extension also joined the "Partners for Progress in Delta," an educational consortium created to deliver training and education for career advancement, university degrees or continuing education credit in the Delta Junction area. UAF's Tanana Valley Campus, Delta Mining Training Center, Delta/Greely School District and Alaska Works Partnership are also members of the consortium, instrumental in building the Delta Career Advancement Center.

5.2 Youth Development/4-H

The 4-H program area underwent an external review which resulted in a host of recommendations for improvement and sustainability for the future. Many of the recommendations are currently being implemented. In the past year, 3,590 volunteers assisted Extension staff, contributing 18,508 hours of their time at an estimated value, using an average \$12.00 per hour, of \$222,096 in in-kind labor.

5.3 Promoting Housing Programs

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Extension is focused on providing research-based information to make Alaska more economically sustainable for the long term. The Cold Climate Housing Research Center (CCHRC) on the UAF campus is an industry-based, nonprofit corporation created to facilitate the development, use and testing of energy-efficient, durable, healthy and cost-effective building technologies for Alaska and the world's cold climate regions.

C. Long-range Unit Goals (2-5 years)

1. Unit Goals: List the primary unit goals for the next two to five years. These goals should inform the Annual Actions (see Section D.)

UAF Cooperative Extension Service will expand on existing partnerships and involvement with stakeholders supporting new activities in the following areas: 4-H Science, Technology, Engineering and Math positive youth development, energy extension programming including community energy self-sufficiency, community resource development/community vitality/sustainability/resilience, small scale agriculture, invasive species management, water quality/quantity.

Example: Develop new engagement and outreach initiatives.

- SP2010 Pathway IV

2. Resources

Identify the fiscal resources required to meet each goal, if possible, using the following table:

Resource Type	FY08	FY08	FY09	FY10	FY11	FY12
	CES	\$507,000	\$745,000	\$356,000	\$123,000	\$135,000
Personnel			725,000	336,000	118,000	130,000
Equipment			20,000	10,000	5,000	5,000
Commodities						
Services						
Space/Facilities						

3. Development Opportunities

Extension and outreach benefits from university research could new partnership funding for local energy efficiency projects, expanding our energy extension efforts to coincide with local small scale agriculture projects for food security, and engagement of youth in science, technology, engineering and math projects, further interest in academic

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achievement and workforce development as well as providing the university feedback in what research would benefit communities. Funding sources USDA Higher Education for Alaska/Hawaii collaborations, regional strategic community development projects through the Paul Allen Family Foundations, DOE/SunGrant opportunities, and local borough assemblies to support lease encumbrances, program assistance for local participation, and in-kind match.

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4. Major Capital Investment Priorities

UAF Cooperative Extension Service has implemented a changeover from traditional phone lines to Voice Over Internet Protocol in the Anchorage office as part of the transition that will eventually be part of the University of Alaska Fairbanks technology infrastructure as well. The long-term benefit will be cost savings and improved interconnectivity.

D. Annual Actions - FY2008 (this information was part of the Compact Plan)

1. Identify up to three priority actions for the unit for the period July 1, 2007 to June 30, 2008. Indicate the SP2010 Pathway(s) and the unit goal(s) (see C. above) that each action addresses.

Examples:

1) *Implement the recommendations of a recent 4-H Positive Youth Development review to include underserved populations, especially urban participants, beyond traditional club activities, and service opportunities in collaboration with other youth programming.*

- SP2010 Pathway IV
- Unit Goal 6: Increase partnership impacts

1) *Increase external program funding beyond existing revenue sources by 10%*

- SP2010 Pathway IV
- Unit Goal 6: Increase partnership impacts

2) *Increase community response programming for rural areas that lead to two positions for southwest and southeast Alaska.*

- SP2010 Pathway IV
- Unit Goal 6: Increase partnership impacts

2. Provide the criteria by which the attempt(s) to achieve each action will be evaluated.

- Recorded increase in the number of volunteer leaders in 4-H programming by 5% and registered participants in positive youth development activities by 10%.
- Increased external revenue by 10%
- Two completed community programming strategic plans toward sustained programming.

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3. Fiscal resources required to meet goals:

Resource Type	FY08	FY08 from unit	FY08 incremental
Personnel		174,000	
Equipment			
Commodities			
Services		2,500	
Space/Facilities		7,200	

4. Identify the facility impacts, if any, of each of the actions listed above.

This identifies office lease costs.

E. Key Unit Challenges: (this information is required for the ABS report)

1. Identify the top three challenges confronting the unit for the period July 1, 2008 to June 30, 2009 (please note this is one year out). These challenges must be directly related to the unit's FY09 budget request.

- Challenge:*
- 1) *Smith-Lever formula funds remain flat and may possibly change over to competitive funds requiring match in the coming year while earmarks are disappearing.*
 - 2) *Funds not available to cover all budgeted positions for statewide operations.*
 - 3) *Local funding or in-kind support for operational support is limited.*

2. Define the strategies to meet each key department challenges:

- 1) *Prioritize vacancy replacements and transition priorities for Extension activities to provide the required programming stated in authorized USDA plan of work.*
- 2) *Present budget request in line with recommendations from the CSREES external review, CES Vision Task Group, 4-H external review and stakeholder input.*
- 3) *Present training and fiscal management support for faculty seeking external funding while educating boroughs and agencies of programming support needs.*

3. List activities that will be undertaken to meet the strategies:

Please indicate alignment with the following themes where appropriate:

- Provide informal education, workshops, and forums for stakeholders to identify research and information the university can work toward providing communities
- Enhance outreach to the community regarding research, taking advantage of UA's position for the International Polar Year and benefits of research to communities as a collaboration among all outreach units.

F. Significant Changes in Results to be Delivered in 2008 (this information is required for the ABS report)

1. Specify what the unit will do with any new money that may be made available in budget year 2009. This must reflect the budget request made to the BOR for FY2009.

The positions requested for Extension are imperative to implementing the recommendations of the 2006 4-H external review, staging programming in Juneau/Southeast/Kodiak, a state leader to position the 4-H program with oversight for competitive grant opportunities and partnership development, and begin joint ventures with communities with the power to self-assess for program support. Additionally, we need to increase our ability to respond to food security issues through local small scale agriculture development combined with the emerging transfer of technology in energy extension in Bethel and other communities that invite us to provide strategic community development. The efforts represented in the FY09 budget request position UAF to provide expected and necessary outreach and engagement through an existing system of feedback of constituents back to the university, as is required under the land grant mission.

G. Performance Report: (this information was part of the Compact Plan and is required for ABS)

1. Major Accomplishments (the following are service-oriented)

- 2007 Communicator Award for National Association of Extension 4-H Agents (NEA4-HA) went to the Anchorage 4-H district team, this time at the national level, for a 4-H promotional DVD.
- Completed a CES Vision task group review that recommended changes in alignment to the chancellor as part of a major restructuring of outreach and engagement, which will be followed by a USDA/CSREES external review in October.
- Reorganization of communications group led to changes in position descriptions to position the unit to be more responsive to public inquiry, faculty publication, and informal education support.

2. Long Range Plan and Annual Actions Evaluation (find the compact plan)

Our compact plan from the previous year was altered as change in leadership created the need for revision of planning and data collection. Along with reorganization of the communications group and streamlining of program functions, the unit continues to look at efficiencies in operations plus identifying resources to support Extension activities

H. Reporting Metrics: (required for PBB reporting to UA and M&M)

1. Review the following performance criteria tables and provide an analysis based on the questions below for each criterion, where applicable. Units may also include additional unit-specific performance criteria at the end of the section. Please use the tabular format provided for all performance criteria, including unit-specific criteria.

Data Review

Strategies

- Internal marketing of Extension operations had been a high priority but has been usurped by various reviews of operations. We are waiting for the final CSREES external review in order to move forward with a final decision on alignment of Extension as part of the land grant mission of the university and recruitment of a new director.
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Resources and Reallocation

- Were there any resources allocated or reallocated to support achievement of your unit's targets and strategies? If so, please explain.
 - *The faculty have moved to a workload practice of nine-month base contract and two additional months, which is a reduction from the previous nine-month and additional three months. At the same time, the faculty are then responsible for identifying alternative funding sources for that additional extension of contract.*
- Are any areas of achievement suffering from a resource (re)allocation that additionally impacts other metrics?
 - *The reduction in staffing assigned to program chairs has been reallocated to state office support staff. That has increased time in processing requests for travel and purchases.*
- Of all your strategies, which is your most critical for unit success and is it in need of additional resources in order to make it successful?
 - *Support for existing outreach and engagement is necessary for future strategic programming that meets the needs of Alaskans as part of the land grant mission.*

GROUP A (metrics required by PBB with exception of optional items or otherwise indicated)

1) Undergraduate Student Retention

Retention rate for all first-time, full-time degree-seeking undergraduate students including associate, certificate and pre-major students.

Retention	Baseline Data (Actual)		Current Unit Snapshot				Projections				
Reporting period: July 1, 2007 to June 30, 2008											
	FY04	FY05	FY06	FY07 Targets	% Change FY07	Trend FY04-FY07	FY08 Target	FY09 Target	FY10 Target	FY11 Target	FY12 Target
PAIR targets:	n/a										
Adjusted UNIT targets:	n/a										

2) High Demand Job Degrees (HDJDs) Awarded

The number of certificates and degrees (all levels) awarded during the fiscal year in Alaskan high job demand areas as initially defined by the State of Alaska Department of Labor (DOL).

High demand job degrees	Baseline Data (Actual)		Current Unit Snapshot				Projections				
Reporting period: July 1, 2007 to June 30, 2008											
	FY04	FY05	FY06	FY07 Targets	% Change FY07	Trend FY04-FY07	FY08 Target	FY09 Target	FY10 Target	FY11 Target	FY12 Target
PAIR targets:	n/a										
Adjusted UNIT targets:	n/a										

3) Student Credit Hours (SCH) Generated

SCH figures include all for-credit courses, including audit, 500-level, developmental, distance education, self-support and correspondence courses both semester- and yearlong-based.

Student credit hours	Baseline Data (Actual)		Current Unit Snapshot				Projections				
	FY04	FY05	FY06	FY07 Targets	% Change FY07	Trend FY04-FY07	FY08 Target	FY09 Target	FY10 Target	FY11 Target	FY12 Target
Reporting period: July 1, 2007 to June 30, 2008											
PAIR targets:	n/a										
Adjusted UNIT targets:	n/a										

4) Declared Undergraduate Majors in Unit (optional)

The number of *declared* majors in programs within the unit enrolled for-credit during the *fiscal year*. Note: these numbers will differ from other reports that report data on a fall-to-fall basis.

Declared majors	Baseline Data (Actual)		Current Unit Snapshot				Projections				
	FY04	FY05	FY06	FY07 Targets	% Change FY07	Trend FY04-FY07	FY08 Target	FY09 Target	FY10 Target	FY11 Target	FY12 Target
Reporting period: July 1, 2007 to June 30, 2008											
PAIR targets:	n/a										
Adjusted UNIT targets:	n/a										

5) UA Scholars Enrolled (optional)

The number of UA Scholars enrolled as *declared* majors in programs within the unit and enrolled for-credit during the *fiscal year*. An enrolled student is counted as a UA Scholar when he or she is currently eligible to receive the award and/or has received the award at any time in the last eight years. Note: these numbers will differ from other reports that report data on a fall-to-fall basis.

UA Scholars enrolled	Baseline Data (Actual)			Current Unit Snapshot			Projections				
	FY04	FY05	FY06	FY07 Targets	% Change FY07	Trend FY04-FY07	FY08 Target	FY09 Target	FY10 Target	FY11 Target	FY12 Target
Reporting period: July 1, 2007 to June 30, 2008											
PAIR targets:	n/a										
<i>Adjusted UNIT targets:</i>	n/a										

6) Graduate Student Headcount

The number of graduate students enrolled in programs within the unit and *enrolled for-credit* during the *fiscal year*. Note: these numbers will differ from other reports that report data on a fall-to-fall basis. This metric is not required as part of PBB but must be completed by units where applicable.

Graduate student headcount	Baseline Data (Actual)			Current Unit Snapshot			Projections				
	FY04	FY05	FY06	FY07 Targets	% Change FY07	Trend FY04-FY07	FY08 Target	FY09 Target	FY10 Target	FY11 Target	FY12 Target
Reporting period: July 1, 2007 to June 30, 2008											
PAIR targets: Master's	n/a										
Ph.D.	n/a										
<i>Adjusted Unit targets:</i> Master's	n/a										
Ph.D.	n/a										

Optional: Degrees awarded: _____ Master's _____ Ph.D. (to be completed by academic units only for the period 7/1/06 to 6/30/07)

7) Grant funded research expenditures

Grant-funded research expenditures are defined as restricted expenditures made from an org with an NCHEMS category of Research, including indirect cost recovery (ICR). Expenditures are counted at the MAU where the money is expended rather than at the MAU associated with the grant award.

Research expenditures	Baseline Data (Actual)			Current Unit Snapshot			Projections				
	FY04	FY05	FY06	FY07 Targets	% Change FY07	Trend FY04-FY07	FY08 Target	FY09 Target	FY10 Target	FY11 Target	FY12 Target
Reporting period: July 1, 2007 to June 30, 2008											
PAIR targets:	0	\$82,000	\$115,000	\$220,000			\$260,000	\$100,000	\$50,000	0	0
<i>Adjusted UNIT targets:</i>											

8) Indirect cost recovery (optional)

Those units that wish to show the actual amount of ICR unit revenue relative to total grant-funded research expenditures should do so using this table.

Indirect cost recovery	Baseline Data (Actual)			Current Unit Snapshot			Projections				
	FY04	FY05	FY06	FY07 Targets	% Change FY07	Trend FY04-FY07	FY08 Target	FY09 Target	FY10 Target	FY11 Target	FY12 Target
Reporting period: July 1, 2007 to June 30, 2008											
PAIR targets:	0	\$13,000	\$19,000	\$16,000			\$20,000	\$10,000	\$5,000	0	0
<i>Adjusted UNIT targets:</i>											

9) Persistence (CRCD campuses only)

Fiscal year - to - fiscal year enrollment of degree-seeking students. A student is persisting towards degree attainment if they take a for-credit course within the UA system during a given fiscal year and return to take another for-credit course during the following fiscal year. Graduating students are removed from the calculation.

Persistence	Baseline Data (Actual)		Current Unit Snapshot				Projections				
Reporting period: July 1, 2007 to June 30, 2008											
	FY04	FY05	FY06	FY07 Targets	% Change FY07	Trend FY04-FY07	FY08 Target	FY09 Target	FY10 Target	FY11 Target	FY12 Target
PAIR targets:	n/a										
Adjusted UNIT targets:	n/a										

10) Student Learning Outcomes Assessment (*% of programs with effective* student learning outcomes assessment*)

Assessment	Baseline Data (Actual)		Current Unit Snapshot				Projections				
Reporting period: July 1, 2007 to June 30, 2008											
	FY04	FY05	FY06	FY07 Targets	% Change FY07	Trend FY04-FY07	FY08 Target	FY09 Target	FY10 Target	FY11 Target	FY12 Target
PAIR targets:	n/a										
Adjusted UNIT targets:	n/a										

*Effective assessment requires systematic implementation of a plan to collect information on student learning relevant to the goals of a degree or certificate program, faculty analysis and review of that information, and curricular change to improve student learning based on the assessment.

11) Enrollment Management Plan

Provide the URL for the unit enrollment management plan(s). n/a

GROUP B (metrics required by ABS and/or M&M)

1) Occurrences of applied research benefiting Alaska

List projects:

Project Title:	Contribution to the State	Funding Source (if applicable)	Status: Proposed, Awarded, Active, Complete
Fruit and berry trials for rural villages Project # ALK-07-01 No. 2006-34567-17332	The grant evaluates cold tolerant fruits and vegetables in rural villages for cost benefit for village agricultural enterprises.	USDA	Active
Food Production Development Project # AKLN-06-08 No. 2006-45057-03508	Assess the antioxidant level of different Alaska wild berries and develop processing times for Alaska native foods, such as walrus and whale meat.	USDA	Active
Fruit and berry crop research trial for rural Alaska communities	Investigate the potential for the production of domestically-grown fruit and berry crops in cold (Zone 2) sites in Interior Alaska to reduce food costs and increase production options.	USDA	Active

2) Publications in refereed journals/periodicals

Most units are already reporting this information to the Center for Research Services (CRS). Please enter (or import) the information that was reported by your unit to CRS for CY2005. Do not include citations- see optional below. Complete this information for the July report only.

Unit	Author list: last, initials, suffix; last, initials, suffix;	Year	Title	Journal	Volume	Number	Month	DOI	Pages	Book Title	Editor List: last, initials, suffix; last, initials, suffix;	Publisher	Publisher Location	ISBN	Comments
CES	Rowell, J. E., Shipka, M.P., Sousa, M.C., Blake, J.E.,	2005	"Antlers in Female Reindeer"	Proceedings of the Northwest Reproductive Sciences Symposium	7	42									Reviewed by conference committee

	Hirth, A.M.														
CES	Blake, J.E., Rowell, J.E., Shipka, M.P.,	In press	"Reindeer Reproductive Management"	Current Therapy in Theriogenology						chapter	Youngquist, R.S., Saunders, W.B.		Philadelphia, PA		Board of Editors
CES	Hirth, A.M., Rowell, J.E., Sousa, M.C., Shipka, M.P.	In review	"Estrous Synchronization in Reindeer"	Livestock Production Science											Peer- reviewed journal article
CES	Shipka, M.P., Rowell, J.E., Sousa, M.C.	In review	"Steroid Hormones of the Estrous Cycle and Pregnancy and Gestation Length in Farmed Alaskan Reindeer"	Small Ruminant Research											Peer- reviewed journal article
CES	Mahler, R.L., Simmons, R., Sorensen, F.	12/13/05	"Public Perceptions and Actions Toward Sustainable Groundwater Management in the Pacific Northwest Region of the USA"	International Journal of Water Resources Development											
CES	Mahler, R.L., Simmons, R., Sorensen,	12/13/05	"Drinking Water Issues in the Pacific Northwest"	Journal of Extension											

	F.													
CES	Bersamin, A., Goering, G., Luick, B. , Stern, J.	In progress	"Marketplace Price as a Barrier to the Consumption of Fruits and Vegetables in the Yukon-Kuskokwim Delta of Alaska"	International Journal of Circumpolar Health										In progress from 12/1/05, returned for revisions

Optional: Number of citations:

Reporting period:

3) # of joint partnerships

Partner(s):

Project:

Funding Source (if applicable)

Project duration:

USDA CSREES
 USDA CSREES
 USDA CSREES
 USDA CSREES
 USDA CSREES
 USDA CSREES
 USDA CSREES
 USDA CSREES
 USDA CSREES
 USDA CSREES
 USDA CSREES
 USDA Rural Development - Alaska Office
 USDA CSREES
 USDA CSREES
 USDA Rural Development

formula funds 3 B and C
 formula funds - EFNEP
 formula funds - IPM
 formula funds - Special Needs
 formula funds - Retirement
 RREA
 Higher Education - CES portion
 Fruit and Berry Crop Trials
 AK Remote Community Development
 Food Product Development
 Food Prep/Marketing
 RUBA Rural Utilities Business Advisor
 Extension Indian Reservation Program
 Pesticide Safety Education Program
 AK Cooperative Devel Program

Formula Funds
 Formula Funds
 Formula Funds
 Formula Funds
 Formula Funds
 CRCD Campus Consortium
 State of Alaska

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EPA	Center Noxious/Invasive Plants	
US Fish and Wildlife	4-H Fisheries In Service	
State of AK	FY06 DNR Potato Marketing	
State of AK	AK Division Ag Plan	
State of AK-Public Assistance	Food Stamp (FSNEP)	
State of AK	Radon Education	
State of AK	AHFC Energy Efficient Education	
State of AK-Health/Social Srv	Living Well Alaska FY07	
State of AK - Fish and Game	AK Invasive Species Working Group	
University of Wyoming	SARE program	
University of Wyoming	AK Sustainable Ag Initiative	
Kansas State University	AK Military 4-H	
City of Bethel	staffing agreement	
Cold Climate Housing Research Center	Facilities Agreement	
Delta Mine Training Center	Mining Extension Classes Offered	
Kuskokwim Native Association	KNA Youth Farm - grant subaward	USDA/CSREES RD grant
Food Bank of Alaska	Information Sharing	
US National Park Service -Wrangell-St. Elias	Conduct summer field camps	USDA/CSREES RD grant
UAF SFOS Marine Advisory Program	Coordinate agent resources/activities	
Tanana Chiefs Conference, Inc.	Extension Indian Reservation Program	USDA/CSREES EIRP grant
AK Health/Human Services - WIC	Referral services/Program delivery	USDA Food Stamp Nutrition
AK Health/Human Services - Public Assistance	Food Stamp Nutrition Ed Program delivery	Ed
AK Building Science Network	Program Delivery	USDA Food Stamp Nutrition
AK DNR /UAF SNRAS Plant Materials Center	Provide Seed stock/plant materials	Ed
Plmr	Pesticide Application Certification	AK Housing Finance Corp
AK Department Environmental Conservation	Program Delivery	
AK Women's Resource Center	staffing agreement CES Home Ec/4-H	EPA
UAF/CRCD Nome Campus	Facilities Agreement	USDA/CSREES - EFNEP
BLM Campbell Creek Science Center	Program Delivery - EFNEP	UAF/CRCD Nome Campus
Southcentral Foundation - Dena A. Coy program	AK Committee Management Noxious/Invasive	BLM
US Forest Service - Alaska Region	Plants	USDA/CSREES - EFNEP
National Ag Statistics Service & AK DNR	Collect, analyze and publish statistical data	EPA
AK DNR /UAF Ag & Forestry Experiment farm	Staffing Agreement IPM Tech Mat-Su Valley	
US Fish and Wildlife Service	Information Sharing	Joint funding

4) Comparative scores of students who take professional exams

List examination scores:

MAU/School	Examination Type	Test Date	UAF Students Tested	UAF Pass Rate	National Pass Rate
n/a					
n/a					

5) Additional Unit-Specific Metrics

There is discussion with PAIR on creating a set of metrics that would be applicable to outreach and engagement.