

PROGRAM REVIEW 2010

School of Natural Resources and Agricultural Sciences

B.S. in Natural Resources Management

1. A current outcomes assessment plan and summary for the B.S. in Natural Resources Management is attached.

2a. For the time period 2008-2018, the state of Alaska Department of Labor projects 284 job openings in the agriculture and forestry fields, a 12% increase in actual jobs. In addition, over half the workforce will require replacement during this time period. Natural resource management is anticipated to replace 30% of the workforce while experiencing a 10% increase in jobs over the next decade. Environmental science jobs, for which Natural Resource Management graduates are also eligible, are expected to have 478 job openings representing approximately 40% of the current workforce. This represents a state need of 762 graduates in the field of natural resource management, agriculture, forestry, and environmental sciences over the 10 year period. Examples of positions held by our alumni are coaches of the UAF Nanook rifle team and womens basketball team and newly appointed deputy commissioner of ADF&G.

2b. Unique and significant service activities of faculty in the B.S. in Natural Resources Management (NRM) are quite varied. A list is attached. As examples, one faculty serves as a consultant for Alaska Waste on composting, others advise the U.S. Department of the Interior on climate change, International Mountain Guides, Alaska Wildland Fire coordinating group, Office of the Governor on the Endangered Species Act, Festival Fairbanks, the Department of Natural Resources Plant Materials Center and the Alaska State Park's Citizen Advisory Board. Some work directly with school districts, developing university courses that are taught in high schools, serving as state advisor to the FFA and president of the 4-H Council, and serving as advisor to the Mat-Su School Board. Others work with Alaskan and other agricultural, forestry, and fishery associations in Alaska and the 48 contiguous states: Fairbanks Gourmet Mustard Company, Alaska Peony Growers Association, Alaska Legacy Project, the National Cooperative Soil Survey, NPFMC Crab Plan team, Alaska Diversified Livestock Association, Fox River Cattleman's Association, Northwest Land and Cattle Company. Faculty define service as much more than serving on committees at UAF and serving their professional societies.

2c. No other programs in a science-based natural resources management exist in the UA system. The NRM program in SNRAS is the only one offering opportunities for education in high latitude agriculture, forest sciences, and resources management, combining the physical and biological sciences with the social sciences in policy, law, land and resource planning, economics, cultural anthropology, and recreation management.

2d. Student credit hours are relatively flat. Lower division credits are increasing, and this upward trend is expected to continue with more focused recruiting (e.g. teaching in the high schools) and increasing teaching on the rural campuses (Northwest Campus, Bristol Bay Campus). We are focusing our recruiting on NRM to build it as we have geography over the past several years. Major changes are being made in the resources management option, among them adding incentives for national and international exchanges and a name change of the Department of Resource Management and the degree option to Department of Humans and the Environment and the degree option in humans and the environment. Upper division

credits are anticipated to remain flat unless the UAF core is modified or acceptance of 2-year AA or AS degrees for completion of the core is put in place. This is particularly significant for our accredited option in forest sciences managed by the Forest Sciences Department. Because of this accreditation, the degree option requires 126 credits of the 130 credits necessary to complete the degree. We are increasing the number of asynchronous courses electronically delivered. Majors in NRM are career-oriented. The perception that entry-position salaries are low compared to engineering and even certificate and two-year degrees in the trades and crafts is influencing student decisions on choice of major. This is changing in federal and state agencies and more jobs are becoming available in private industries that are dealing with concerns about the environment and climate change, in which NRM majors excel.

The Agricultural and Forestry Experiment Station (AFES) is a part of SNRAS. Budgets for the unit are recorded for the AFES as one entity and SNRAS as another. The SNRAS budget is not recorded by department. Tuition is not generated by AFES. We do not currently account for our tuition by upper and lower division, graduate, outside and professional courses. Grants and contracts are for both research and instruction. With the exception of one tenured faculty and associated with the NRM B.S. degree, all hold joint appointments with the AFES. The data PAIR data is pulled will affect the FTEs for faculty and staff because at any given time, a different proportion of salaries will be charged to formula, grant, contract, or state funds. The AFES receives federal formula funds for research in agriculture and forestry. Faculty with joint appointments in AFES all receive these funds for approved projects. Most also receive grant and/or contract funding. A more useful way to report FTEs for SNRAS faculty associated with the NRM B.S. degree program would be to use workload allocations. Budget data provided show only AFES (not instruction) and SNRAS. We do not currently have information that breaks our budgets down on a course by course basis. We would need information at this level to report budget by department because faculty teach across departments within the NRM B.S. program as well as graduate programs. Attached are tables that show names of affiliated regular faculty for the NRM B.S. degree and grants and contracts for those faculty.

2e. The attached tables provide 2007 and 2008 publications for faculty and staff from the 2009-2010 and 2010-2011 Annual Unit Plan for SNRAS and AFES. Faculty in NRM, on average, hold 50% workload appointments in research with the remainder split between teaching and outreach and service.

2f. Partnerships are important to NRM. Our federal partners, USDA Agricultural Research Service and US Forest Service, provide opportunities to collaborate on cooperative agreements, employ our students and researchers, and serve on undergraduate senior thesis committees. We partner with the rural campuses to offer courses and certificate programs. Local businesses provide opportunities to showcase our research, to extend our research, to test both their and our products, and for student internships. Organizations such as the Alaska Community Agriculture Association serve as advocacy groups, work with us in service courses for the community, and also offer internship opportunities. Attached is our list of partners for 2007, 2008, and 2009.

2g. The Forest Science option in the NRM B.S. degree program is accredited by the Society of American Foresters.

UNIVERSITY OF ALASKA FAIRBANKS
Student Learning Outcomes Assessment Plan
B.S., Natural Resources Management
 School of Natural Resources and Agricultural Sciences

Last updated: Fall 2010

Expanded Statement of Institutional Purpose	Intended Objectives/Outcomes	Assessment Criteria and Procedures	Implementation (what, when, who)
<p>MISSION STATEMENT:</p> <p>UAF and the School of Natural Resources and Agricultural Sciences is committed to providing quality education through close student-faculty relationships, development of critical thinking and decision making skills, student participation in research and other scholarly activities, and recognizing student's individual interests and needs</p> <p>GOAL STATEMENT:</p> <p>NRM majors will become professionals with knowledge of natural resources and related applied fields. They will be enabled in responsible decision making to result in</p>	<p>Graduates should be able to synthesize knowledge and to think through problems to develop meaningful solutions, and should have reached cognitive and personal development levels to enable responsible decision making process as it relates to management of natural resources and to life in general</p>	<p>Establish a measure of a student's ability to think independently, solve problems, and communicate both orally and in writing.</p> <p>Assess needs for</p>	<p>1. Each NRM student is required to complete a senior thesis which is presented in both written and oral form. The written thesis is evaluated by a committee of three faculty; the oral presentation is evaluated by the entire NRM faculty. Students are evaluated on content as well as writing and oral presentation skills. Grades for written theses and oral presentations will be compiled each year and compared to past years to establish trends thesis quality.</p> <p>2. A sample (randomly selected) of written thesis from past and current years will be carefully evaluated by the Outcomes Assessment committee to detect any changes in students' writing skills and their abilities to think independently and solve problems.</p> <p>1. Dean will do exit</p>

<p>implementation and successful long term management for the responsible human use, maintenance, and protection of natural resources.</p>		<p>adjustments in program</p>	<p>interviews with seniors near end of each semester.</p> <p>2. An alumni survey of recent graduates will be conducted every five years.</p> <p>3. A survey of employers who hire our graduates will be administered every five years.</p>
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<date revised and by whom >

College/School: Natural Resources and Agricultural Sciences
Program: B.S. Natural Resources Management

Table 4.1 Outcomes Assessment Implementation Summary

Academic Year			
	2007-08	2008-09	2009-2010
Assessment information collected	<p>1) Ask faculty in upper division courses to complete surveys that evaluate cohort of students for writing, speaking, and critical thinking skills.</p> <p>2) Dean administers exit interview with graduating students.</p> <p>3) Curriculum evaluated by Society of American Foresters reaccreditation team</p>	<p>1) Ask faculty in upper division courses to complete surveys that evaluate cohort of students for writing, speaking, and critical thinking skills.</p> <p>2) Dean administers exit interview with graduating students.</p>	<p>1) Administered alumni survey</p> <p>2) Comments on field courses from past evaluations.</p>
Conclusions drawn from the information collected above	<p>1) While most students have good skills in speaking, writing, and thinking critically, too many are deficient in these skills. We have initiated writing and speaking skills in our courses with O and W designators. We suggest that UAF review its courses at the 100 and 200 level to assure students have the skills appropriate to the sciences, natural</p>	<p>1) While most students have good skills in speaking, writing, and thinking critically, too many are deficient in these skills. We have initiated writing and speaking skills in our courses with O and W designators. We suggest that UAF review its courses at the 100 and 200 level to assure students have the skills appropriate to the sciences, natural</p>	<p>1) The survey included graduates from as much as 25 years ago; we separated responses for those who graduated in the past five years from those graduated more than five years ago. Many respondents did not report their current employment or salary but of those who reported, we were able to glean the following information:</p>

	<p>resources management and engineering. We are expert at building critical thinking in our courses, but the difficulty lies in bringing students to the necessary skill level in speaking and writing to meet the challenges of these courses.</p> <p>2) Students feel they learn skills not available elsewhere through field courses.</p> <p>3) Evaluation by the Society of American Foresters re-accreditation team indicated our curriculum is well designed to meet the needs of natural resource managers in Alaska but some concerns the team noted about the program were the limited amount of field training students receive.</p>	<p>resources management and engineering. We are expert at building critical thinking in our courses, but the difficulty lies in bringing students to the necessary skill level in speaking and writing to meet the challenges of these courses.</p> <p>2) Students feel they learn skills not available elsewhere through field courses.</p>	<p>Of those graduating within the 5 years, seven reported, with five holding jobs in natural resources management related fields and one in graduate school. Of those in careers, 5 reported five reported salaries in the \$30,000 - 45,000 range and one reported a salary in the \$45,000 – 60,000 range. For all respondents reporting job and salary data, (37), 65% are currently working in natural resources management related jobs and 5% are in graduate school. Salaries range from the \$30,000 - \$45,000 range to > \$80,000, with the median in the \$45,000 – 60, range. Most common comments on the program were: hands on experience, field classes, small class size, interaction with professors, and interaction with other students. Courses which were most useful: None really stood out although soils, GIS, NRM 290: Resource Management at High Latitudes (a field course) and NRM 405-406: Senior Thesis in Natural Resource Management, required of all NRM BS students,</p>
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			<p>were mentioned most often. Courses which were least useful: The UAF core curriculum or courses within the core curriculum were listed. fairly often. No others stood out.</p> <p>2) Initiated conversations with Norway (get the institution name here) to potentially augment our field courses at the undergraduate level.</p>
<p>Curricular changes resulting from conclusions drawn above</p>	<p>1). Strongly encourage faculty to more strongly emphasize writing, speaking, and critical thinking skills in their classes.</p> <p>2). We are looking into increasing number of field courses, but expense is major roadblock. One field course in Denali National Park using external funding</p>	<p>1). Strongly encourage faculty to more strongly emphasize writing, speaking, and critical thinking skills in their classes.</p> <p>2). Began planning for a forestry field camp.</p>	<p>We are currently revising the Resources Option within the NRM degree to better meet students' and employers' needs. It will include an international component. Other than that, we do not see a need for major program revisions at this time.</p>

PROGRAM REVIEW 2010

School of Natural Resources and Agricultural Sciences

Graduate Programs in Natural Resource Management and Geography

1. A current outcomes assessment plan and summary for the graduate programs in the School of Natural Resources and Agricultural Sciences (SNRAS) is attached.

2a. For the time period 2008-2018, the state of Alaska Department of Labor projects 284 job openings in the agriculture and forestry fields, a 12% increase in actual jobs. In addition, over half the workforce will require replacement during this time period. Natural resource management is anticipated to replace 30% of the workforce while experiencing a 9% increase in jobs for natural resource managers over the next decade, a total of 73 jobs. Environmental science/conservation/life scientist and technician jobs, for which Natural Resource Management graduates are also eligible, are expected to have 478 job openings representing approximately 40% of the current workforce. This represents a state need of 835 graduates in the field of natural science managers, agriculture, forestry, and environmental science/conservation/life sciences over the 10 year period.

2b. The tenure-track faculty and non-tenure track faculty holding the Ph.D. serve as the graduate faculty in SNRAS. Their unique and significant service activities are quite varied. Faculty are advisors to the U.S. Department of the Interior on climate change, International Mountain Guides, Alaska Wildland Fire coordinating group, Office of the Governor on the Endangered Species Act, Festival Fairbanks, the Department of Natural Resources Plant Materials Center and the Alaska State Park's Citizen Advisory Board. An number work directly with school districts, developing university courses that are taught in high schools, serving as state advisor to the FFA and president of the 4-H Council, and serving as advisor to the Mat-Su School Board. Geography faculty in particular focus on service and outreach to school districts around Alaska. Two faculty are teaching and developing 100 level SNRAS courses for college credits, others support school districts in villages and mentor project teachers and principals. Faculty also work with Alaskan and other agricultural, forestry, and fishery associations in Alaska and the 48 contiguous states: Fairbanks Gourmet Mustard Company, Alaska Peony Growers Association, Alaska Legacy Project, the National Cooperative Soil Survey, NPFMC Crab Plan team, Alaska Diversified Livestock Association, Fox River Cattleman's Association, Northwest Land and Cattle Company. Faculty serve as editor and guest editor for journals and atlases, and director or coordinator of major grant-funded programs within SNRAS. Service is defined by graduate faculty as much more than serving on committees at UAF and serving their professional societies.

2c. There are no other graduate programs in natural resources management and geography in the UA system. SNRAS offers the only professional master's degree in Natural Resources Management and Geography, the only science based M.S. program that participates in the Peace Corp international graduate program, and the only Ph.D. in Natural Resource management and Sustainability.

2d. The Agricultural and Forestry Experiment Station (AFES) is a part of SNRAS. Budgets for the unit are recorded for the AFES as one entity and SNRAS as another. The SNRAS budget is not recorded by department. Tuition is not generated by AFES. We do not currently account for our tuition by upper and lower division, graduate, outside and professional courses. Grants and contracts are for both research and instruction. A mix of faculty hold

joint appointments in SNRAS and AFES. Therefore, the date PAIR data is pulled will affect the FTEs for faculty and staff because at any given time, a different proportion of salaries will be charged to federal formula funds, grant, contract, or state funds. The AFES receives federal formula funds for research in agriculture and forestry. Faculty with joint appointments in AFES all receive these funds for approved projects. Most also receive grant and/or contract funding. A more useful way to report FTEs for SNRAS would be to use workload allocations. Budget data provided show only AFES (not instruction) and SNRAS. We do not currently have information that breaks our budgets down on a course by course basis. This is the level we would need to have to report budget by department because faculty teach across departments at the graduate level. NRM faculty have heavy research assignments for tripartite faculty, on average 50% and over. Geographers hold 30% or less workload appointments in research with the remainder split between teaching and outreach and service. The federal formula funds jointly appointed SNRAS/AFES use must be matched 1:1 by state funds which are listed under the SNRAS budget in the table attached. Thus, to take budget numbers at face value is not an accurate measure for credit hour generation. Attached are tables that show names of affiliated regular faculty for SNRAS graduates.

2e. The attached tables provide 2007 and 2008 publications for faculty and staff from the 2009-2010 and 2010-2011 Annual Unit Plan for SNRAS and AFES. As stated above, tenure-track faculty in Geography do not have heavy research workload assignments. NRM faculty have workload assignments that average 50% and over.

2f. Partnerships are important to SNRAS. Our federal partners, USDA Agricultural Research Service and US Forest Service provide not only opportunities to collaborate on cooperative agreements, but employ our students and researchers serve on undergraduate senior thesis committees as well. Local businesses provide opportunities to showcase our research, extend our research, and test both their and our products. Organizations such as the Alaska Community Agriculture Association serves as advocacy groups and work with us in service courses for the community. Geography partnerships are focused on providing geography education to teachers and students in school districts around Alaska. A noteworthy partnership is the Geography Alliance. It has enabled Geography faculty and staff to travel the state with the 'Giant Map' that is in high demand by elementary school teachers. The partnership with GoogleEarth has brought opportunities for teachers to learn how to use Google teaching tools in their classrooms with hands on experience provided by staff from Google. The Cooperative Ecosystems Studies Unit (CESU) offers opportunities for new researchers as well as more experienced, the opportunity to participate in cooperative agreements with more than 15 state and federal agencies. Attached is our list of partners for 2007, 2008, and 2009.

2g. There are no specialized accreditations in the SNRAS graduate programs.

UNIVERSITY OF ALASKA FAIRBANKS
Student Learning Outcomes Assessment Plan
M.S. Natural Resources Management and
Master of Natural Resources Management and Geography
 School of Natural Resources and Agricultural Sciences

Revised Fall 2010

Expanded Statement of Institutional Purpose	Intended Objectives/Outcomes	Assessment Criteria and Procedures	Implementation (what, when, who)
<p>MISSION STATEMENT: UAF and the School of Natural Resources and Agricultural Sciences is committed to providing quality education through close student-faculty relationships, development of critical thinking and decision making skills, student participation in research and other scholarly activities, and recognizing student's individual interests and needs.</p> <p>A hallmark of the masters programs the School and Natural Resources and Agricultural Sciences is its recognition of individual differences and interests of students and its ability to respond to those individual needs.</p> <p>GOAL STATEMENT: Natural Resources</p>	<p>Graduates will have the skills to participate in a meaningful and responsible way in making decisions about management of natural resources.</p>	<p>1. Students should show strong ability to analyze and synthesize information, determine its relevance to specific issues or problems.</p> <p>2. Students will have the ability to independently collect data or other information as part of an overall project through use of appropriate methodology and statistical procedures and develop appropriate conclusions and recommendation</p>	<p>1) The graduate M.S. thesis or MNRM&G opus is evaluated for analytical skills.</p> <p>2. Faculty who have served on graduate committees will be surveyed periodically regarding graduate students abilities.</p> <p>3. The oral defense of the M.S. thesis or MNRM&G opus is evaluated by the entire audience for content and communication skills</p>
	<p>Graduates are prepared to enter the workforce and advance in their careers in natural resources management</p>	<p>3. Assess the necessity for adjustments in the graduate curriculum</p>	<p>4. Dean or associate dean will administer exit interview each semester for M.S. and MNRN&G students nearing graduation.</p> <p>5. Administer an alumni survey every five years.</p> <p>6. Administer an employer survey every five years.</p>

Management MS and MNRM&G graduates will be professionals in their chosen fields within natural resources management. They will be well equipped to and will be involved in making decisions on and implementing successful management practices for human use and maintenance of ecosystems.

<date revised and by whom >

School of Natural Resources and Agricultural Sciences
 Academic Outcomes Assessment Plan--Ph.D. in Natural Resources and Sustainability.

EXPANDED STATEMENT OF INSTITUTIONAL PURPOSE	INTENDED OUTCOMES/OBJECTIVES	ASSESSMENT CRITERIA AND PROCEDURES	IMPLEMENTATION
<p>Mission Statement: The School of Natural Resources and Agricultural Sciences and the School of Management are committed to educating scholars at the Ph.D. level with in-depth and integrated knowledge about natural resources research and management.</p> <p>Develop leaders who will effectively direct the use and management of natural resources in Alaska and other high latitude regions.</p>	<p>Graduates will have the skills to carry out world-class research in natural resources and their management and to participate responsibly in the decision making process about the use of natural resources.</p> <p>Graduates are prepared to enter and move into high level resource management positions and to effectively affect policy related to natural resource use and management.</p>	<p>Establish measures of advanced level of knowledge about natural resources and their management.</p> <p>Measure employment success in high level positions in natural resource related fields</p>	<p>Require a comprehensive examination to be administered in the second year of enrollment in a graduate program. Questions will address basic knowledge in mathematics, science, and economics related to natural resources and their management and appropriate course work chosen by the student and their committee.</p> <p>Evaluate Ph.D. dissertations for content quality.</p> <p>Administer exit interviews by the deans of the schools.</p> <p>Track employment record of graduates through alumni and employer surveys.</p>

College/School: Natural Resources and Agricultural Sciences
Program: M.S. Natural Resources Management

Table 4.1 Outcomes Assessment Implementation Summary

Complete a separate table for each degree and certificate program (will be updated through 2009-10 for Accred.)

	Academic Year		
	2007-08	2008-09	2009-10
Assessment information collected	<p>1). We ask audience members to evaluate several aspects of the students' thesis work and the presentation on it and to compare it with other thesis defenses or presentations at scientific meetings they have attended..</p> <p>2). Department heads read theses to assure they meet appropriate standards</p>	<p>1). We ask audience members to evaluate several aspects of the students' thesis work and the presentation on it and to compare it with other thesis defenses or presentations at scientific meetings they have attended..</p> <p>2). Department heads read theses to assure they meet appropriate standards</p>	Administered an alumni survey
Conclusions drawn from the information collected above	1). Overall, most students were rated 4 out 5 on the survey indicating they are well prepared	1). Overall, most students were rated 4 out 5 on a 5-point scale on the survey indicating they are well prepared	The survey included graduates from as much as 25 years ago; we separated responses for those who graduated in the past five years from those graduated more than five years ago. Since there are yet no graduates from the new Master of Natural Resources Management and Geography degree program, all were respondents were from the M.S. in Natural Resources Management program. There were too few respondents who

			<p>graduated in the past five years reported on jobs or salaries to make meaningful conclusions about recent graduates. Over all respondents who reported job and salary data, 80% are in careers in natural resources management. Salaries include those in the \$30,000 to \$45,000 range to greater than \$80,000, with the median falling in the \$60,000 – 80,000 range.</p> <p>Most common comments from the survey were: Opportunities to do field work, faculty in the school. Most useful courses: thesis, statistics, soils, outdoor recreation, graduate/faculty seminar. Least useful courses: Several were mentioned, but never more than once.</p>
<p>Curricular changes resulting from conclusions drawn above</p>	None	<p>We dropped the non-thesis option for the NRM M.S. degree program, and developed and gained approval for two new graduate degree in the past year, a Ph.D. degree in Natural Resources and Sustainability, in cooperation with the School of Management and a Master of Natural Resources</p>	None

		<p>Management and Geography. The latter is a professional degree designed primarily for people already working in the fields of natural resources management and geography. We believe these degrees will increase graduate enrollment in SNRAS and will meaningfully provide expertise needed for the workforce in Alaska. The new degrees have not been in place long enough to do outcomes assessments.</p>	
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**School of Natural Resources and Agricultural Sciences
Agricultural and Forestry Experiment Station Service
Natural Resources Management**

- Coordinate w/ Mat Su Borough on compost equipment
- Consultant for Alaska Waste on composting
- Advisor to United States Dept. of Interior on climate change
- Advisor to International mountain guides
- Consultant to Alaska Wildland Fire coordinating group – fire effects group
- President -4 H council
- President – Association for Women in Science
- Instructor –continuing education courses for teachers
- Liaison to Western Association of Agricultural Experiment Station Directors
- Consultant to federal and state government interest groups –legal policy
- Wildlife biologist on Alaska Board of Forestry
- Assess economic issues for Alaska Legacy Project, Forest Products Group
- Provide information to Governor’s office on Endangered Species Act
- Project Coordinator for Project OneTree
- Landscape consultant for Festival Fairbanks
- Conduct seed trials for Fairbanks Gourmet Mustard Co.
- Consultant for Alaska Peony Growers Association
- Coordinate w/ Chinese universities to develop UAF MOU’s
- Advisor/collaborator for National Cooperative Soil Survey
- Technical advisor for soil consulting firms
- Develop curricula using reindeer in biology class
- Consultant to reindeer producers in United States and Canada
- Economist - North Pacific Fisheries Management Council Crab Plan team
- Advisor to Department of Natural Resources Forestry on erosion, silviculture, etc.
- Give workshops, slideshows, surveys, make education guides, report reviews for Tanana Chiefs, Boreal Forest Council, FNSB, land owners, Alaska Department of Environmental Conservation, United States Forest Service, Cook Inlet Keepers
- Set up and manage Pike’s Waterfront Lodge greenhouse
- Advisor to rural Alaska on greenhouses, controlled environments
- Teach, lead, train natural resources class at local high school
- Organize, instruct Build Strong Leadership (BLASTOFF)conference
- Teach informally to high schools on career opportunities in natural resources
- Revise soil survey reports for National Cooperative Soil Survey Alaska program
- Organize program for 2008 International Conference on Permafrost
- Teach OSHER learning workshops
- Organize webpage and workshops for Society of American Foresters
- Advisor to Matanuska School District
- Advisor to Department of Natural Resources Plant Materials Center

- Advisor to MatSu Borough Real property Asset Management Board
- Director of Georgeson Botanical Garden
- Consultant for historic landscapes to Tanana Valley Historical Society
- Consultant for Festival Fairbanks-downtown landscaping along riverfront
- Consultant for Satellite Test Garden for International Hardy Fern Foundation
- Conduct variety trials for companies in Anchorage, Montana and Vermont
- Plan, organize and instruct activities for FFA state convention
- Chena Hot Springs Resort consultant on greenhouse and field production
- Advisor for Alaska State Park's Citizen Advisory Board
- Advisor and consultant on wildland fire issues for United States Forest Service, National Park Service, Bureau of Land Management, United States Fish and Wildlife Service, United States Geological Survey, Alaska Fire Service, Alaska Department Fish & Game, Alaska Department Natural Resources
- Consultant for Alaska Diversified Livestock Association, Fox River Cattleman's Association, North west Land and Cattle Co. individual Alaskans livestock producers on production mgmt., disease mgmt., reproductive mgmt and nutritional management
- Develop the Alaska Community Agriculture Association
- Manage UAF/USDA Agriculture Research Service virus vector survey
- Editor, report writer co-chair- Interior Issues Council, Climate Change Task Force
- Implement college courses taught to high school students in natural resources management

**Joint Partnerships 2010
Natural Resources Management**

Partner(s):	Project:	Funding Source(if applicable)	2008	2009	2010
Cooperative Extension Service	Land grant mission of UAF and UA	USDA, state of Alaska, competitive grants	X	X	X
USDA Agricultural Research Service	Integrated Pest Management, Arctic &Subarctic plant curation	USDA/ARS	X	X	X
USDA Forest Service	Ecology of the Boreal Forest	USDA Forest Service	X	X	X
UAS, USFS,Pacific Northwest Research Station & National Forest System Alaska Region,US Fish & Wildlife Service Alaska Region,City & Borough on Juneau	Alaska Coastal Rainforest Center	State of Alaska	X	X	X
Cooperative Ecosystems Study Unit	Ecosystems Management	NPS, BLM,NRCS,US F&W, ARS	X	X	X
Pacific Land Grant Alliance	Natural resources research, education, and outreach in the American Pacific	Agricultural Development in the American Pacific	X	X	X
Cold Climate Housing Research Center	Energy efficiency and architectural design in subarctic climates	USDA, State of Alaska, BP, private foundations	X	X	X
Kawarek Reindeer Herders Association	Reindeer management, nutrition, and meat quality	USDA, BIA, NSF, NRCS	X	X	X
UAF Northwest Campus	Joint educational programs	USDA, NSF, BIA, NRCS	X	X	X
UAF Bristol Bay Campus	Joint educational programs	USDA, NSF	X	X	X
UAA Matanuska Community College	Joint educational programs	USDA, Forest Service	X	X	X
Ilisagvik College	1994 Land Grant College	USDA	X	X	X

**Joint Partnerships 2010
Natural Resources Management**

Chena Hot Springs Resort	Alternative energy and year-round crop production in controlled environments	USDA, DOE,UAF/SNRAS/AFES	X	X	X
Pikes Waterfront Lodge	Horticulture research and demonstration	USDA, State of Alaska	X	X	X
Alaska Blue	Blueberry cultivation	None		X	X
Alaska Berry Growers Association	Blueberry cultivation	USDA	X		
Alaska Peony Growers Association	Peony production and marketing	USDA	X	X	X
Alaska Community Agriculture Association	Alaska agriculture	None			X

**Grant Proposals FY10
Natural Resources Management**

S00013882	AFES	NRM High Latitude Agriculture	Anderson, Jodie Marie	1 Building Alaska Garden Soils from the Groun	40330	41060 Utah State University	G00006547	40270 D6AFES	1	48.497
S00012958	AFES	NRM Forest Sciences	Barber, Valerie A	1 Univ of Alaska Fairbanks Forest Products Prc	40087	40816 USDA - CRSEES	G00006072	40120 D6AFES	1	605.95996
S13721	AFES	NRM Forest Sciences	Barber, Valerie A	1 Univ of Alaska Fairbanks Forest Products Prc	10	USDA-CREES	G00006072	D6AFES	1	597.76
S00013282	AFES	NRM-Resources Mgmt	BurnSilver, Shauna Beth	1 Hydrology, Ecology and Pastoralism in the Si	40360	41829 Colorado State University	(blank)	40332 D6AFES	1	199.998
S00012820	AFES	NRM High Latitude Agriculture	Finstad, Greg	1 Reindeer Range Mgmt Seward Peninsula, Alaska	CESU	Bureau of Land Management	G6019	D6AFES		39.999
S00013516	AFES	NRM High Latitude Agriculture	Fix, Peter J	1 Researcher in Residence Program	40057	41152 National Park Service	G00006543	40186 D6AFES	1	31.725
S00014145	AFES	NRM High Latitude Agriculture	Harris, Norman R	1 Fall Fertilization Effects with Southcentral Al	40283	40647 Other Nonprofit Organizations	G00006465	40335 D6AFES	1	15
S00013881	AFES	NRM Forest Sciences	Juday, Glenn P	1 2010 YUKON RIVER BASIN STUDIES â€” LARC	40283	40647 US Geological Survey	G00006390	40270 D6AFES	1	124.115
	AFES	NRM High Latitude Agriculture	Karlsson				G6507			
S00012780	AFES	NRM Forest Sciences	Lewis, Carol E	1 FY2010 ARS Utility Research Support Agreeen	39995	40359 Agricultural Research Service	G00005695	40009 D6AFES	1	33
	12840 AFES	SNRAS/AFES		ARS Research Support						
S00013036	AFES	SNRAS/AFES	Lewis, Carol E	FY10 Lab Services for USGS Alaska Science C	40071	40237 USDI Geological Survey	G00005952	40074 D6AFES	1	14.7144
	13020 AFES	SNRAS/AFES	Lewis, Carol E	Hatch			G5918			
	13022 AFES	SNRAS/AFES	Lewis, Carol E	McStennis			G5917			
	13023 AFES	SNRAS/AFES	Lewis, Carol E	Multistate			G5942			
	13036 AFES	SNRAS/AFES	Lewis, Carol E	FY10 USGS Lab						
	13511 AFES	SNRAS/AFES	Lewis, Carol E	ADAP YR 23						
S00013426	AFES	NRM High Latitude Agriculture	Lewis, Carol E	Agricultural Development in the American P	40057	40421 University Of Hawaii	G00006220	40158 D6AFES	1	5.4
S00013852	AFES	NRM Forest Sciences	Liang, Jingjing	1 Research Service Contract with Afognak Nat	40210	42978 Native Corporations	G00006324	40262 D6AFES	1	28.416
S00012500	AFES	NRM High Latitude Agriculture	McBeath, Jenifer H	1 Aster Yellow Phytoplasma Disease of Hortici	40087	40451 USDA Foreign Agricultural Service	G00006007	40108 D6AFES	1	85
S00013889	AFES	NRM High Latitude Agriculture	McBeath, Jenifer H	Testing Potato Seed Lots for Viruses and Phy	40269	40298 AK Division of Agriculture	G00006301	40274 D6AFES	1	12
S00013602	AFES	NRM Forest Sciences	Rupp, T Scott	1 SNAP Climate Model - USGS CESU	40299	40663 US Geological Survey	G00006274	40254 D6AFES	1	30
S00012895	AFES	NRM Forest Sciences	Rupp, T Scott	Calibrate ALFRESCO with the Grassland Mod	40057	40572 US Fish & Wildlife Svc. - Anchorage	G00005945	40036 D6AFES	1	48
S00013607	AFES	NRM Forest Sciences	Rupp, T Scott	Integrated Ecosystem Model for Alaska: A cc	40210	40633 USDI Fish and Wildlife Service, Fairbanks	G00006299	40233 D6AFES	1	410
S00013783	AFES	NRM Forest Sciences	Rupp, T Scott	Yukon College Climate Change Workshop	40245	40267 Yukon College - Northern Research Institute	G00006258	40241 D6AFES	1	54.73
S00012799	AFES	SNRAS/AFES	Scott, Judson Matthew	1 UAF-Matanuska Experiment Farm Sports Fie	40179	40543 Other Nonprofit Organizations	G00006459	40337 D6AFES	1	10
	14145 AFES	SNRAS/AFES	Scott, Judson Matthew	Fall Fertilization Effects with Southcentral Alaska Turf			G6465			
S00013037	AFES	NRM High Latitude Agriculture	Smeenk, Peter J	1 Physiological Age of Seed - Potato Model	40074	41912 USDA - Agricultural Research Service	(blank)	40086 D6AFES	1	80
S00012272	AFES	NRM Forest Sciences	Soria, Juan Andres	1 Carbon, Hydrogen, Nitrogen Elemental Anal	40148	40512 Cooperative State Research	141970	40149 D6AFES	1	28.979
S00013080	AFES	NRM Forest Sciences	Verbyla, David L	1 Measuring Changes in Lake Surface Area in N	40179	40544 National Park Service	G00005996	40086 D6AFES	1	15

Grant Proposals FY10
In Progress
Natural Resources Management

S00013721	AFES	Barber, Valerie A	1 University of Alaska Fairbanks Forest Product Program (WUR) Year	40422	41152	USDA National Institute of Food & Agriculture NI	G00006469	40238	D6AFES	1	597.76
S00012820	AFES	Finstad, Gregory L	1 Reindeer Range Management Seward Peninsula, Alaska CESU	40087	40451	Bureau of Land Management	G00006019	40016	D6AFES	1	39.999
S00014102	AFES	Fresco, Nancy L	1 Climate Change Scenario Planning for Alaska Region National Park	40330	41425	National Park Service	(blank)	40325	D6AFES	1	331.606
S00013547	AFES	Holloway, Patricia S	1 Alaska's First Horticultural Export Crop: Challenges in Production, F	40422	40786	Cooperative State Research	(blank)	40190	D6AFES	1	50
S00013020	AFES	Lewis, Carol E	1 FY10 Hatch Formula Appropriation	40087	40816	USDA Hatch	141952	40072	D6AFES	1	950
S00013022	AFES	Lewis, Carol E	Hatch MultiState 2010	40087	40816	USDA Hatch	G00005942	40072	D6AFES	1	165
S00013023	AFES	Lewis, Carol E	McIntire-Stennis Cooperative Forestry	40087	40816	USDA - CRSEES	141948	40072	D6AFES	1	650
S00013245	AFES	McBeath, Jenifer H	1 Evaluation of cold adapted mycoparasite, Trichoderma atroviride, on	40360	41090	USDA - Agricultural Research Service	(blank)	40123	D6AFES	1	249.69
S00014202	AFES	McBeath, Jenifer H	Alaska Lab-Tested Disease-Free Seed Potato for Export	40360	40724	Other Nonprofit Organizations	G00006549	40353	D6AFES	1	250
S00013388	AFES	McBeath, Jenifer H	FIELD INSPECTION AND LABORATORY ANALYSIS: CHINA-TAIW.	40179	40908	Alaska Department of Natural Resources	(blank)	40149	D6AFES	1	1329.96
S00014151	AFES	Rowell, Janice E	1 Identifying Strategies to Develop Sustainable Livestock Production in	40483	40847	USDA National Institute of Food & Agriculture NI	(blank)	40339	D6AFES	1	50
S00013211	AFES	Smeenk, Peter J	1 Educating Alaska Agricultural Professionals on Sustainable, High-La	40299	41029	USDA - Agricultural Research Service	(blank)	40116	D6AFES	1	49.642
S00013013	AFES	Smeenk, Peter J	Seed Quality in Northern Latitudes	40071	41912	USDA - Agricultural Research Service	141959	40070	D6AFES	1	380

Names of affiliated regular faculty Natural Resources Management

Faculty name	FY06	FY07	FY08	FY09	FY10
Finstad Gregory L			YES	YES	YES
Fix Peter J			YES	YES	YES
Fox John D			YES	YES	YES
Greenberg Joshua A			YES	YES	YES
Harris Norman R			YES	YES	YES
Holloway Patricia S			YES	YES	YES
Joly Julie J			YES	YES	YES
Juday Glenn P			YES	YES	YES
Karlsson Meriam G			YES	YES	YES
Liang Jingjing			YES	YES	YES
McBeath Jenifer H			NO	YES	YES
Ping Chien-Lu			YES	YES	YES
Sparrow Stephen D			YES	YES	YES
Todd Susan K			YES	YES	YES
Valentine David			YES	YES	YES
Yarie John A			YES	YES	YES
Zhang Mingchu			YES	YES	YES

1)A yes or no indicates whether a faculty was listed as a principal investigator on funded projects. In SNRAS and AFES, this includes formula funds.

2)Red indicates changes to data provided from PAIR

3)Adjunct faculty *

Names of affiliated regular faculty Geography

Faculty name	FY06	FY07	FY08	FY09	FY10
Bailey John E			NO	NO	NO
Barrick Kenneth A			NO	NO	NO
Brigham Lawson W				NO	NO
de Wit Cary W			NO	NO	NO
Heiser Patricia A			YES	YES	YES
Holzlehner Tobias S*					NO
Mann Daniel H			YES	YES	YES
Rickard Anthony D*			NO	NO	
Rupp T S			YES	YES	YES
Stephens Sidney A			YES	YES	YES
Veazey David A				NO	NO
Verbyla David L			YES	YES	YES
Schneider William S*					YES

Names of affiliated regular faculty Math in a Cultural Concept

Faculty name	FY06	FY07	FY08	FY09	FY10
Adams Rebecca A			NO	NO	NO
Gilsdorf Nicolle H				NO	NO
Hisamoto Alice J					NO
Jones Carrie A					NO
Lipka Jerry M			YES	YES	YES
Remick Karen J					NO
Volker Christine L				NO	

1)A yes or no indicates whether a faculty was listed as a principal investigator on funded projects. In SNRAS/AFES, this includes formula funds. 2) Red indicates changes to data provided by PAIR

3)Adjunct faculty *

SCHOOL OF NATURAL RESOURCES AND AGRICULTURAL SCIENCES	Natural Resource Management Publications – 2007 Calendar Year			
Journal/Publication	Title of article	Lead author (last name, first initial)	Co-author(s)	Publication Date
Proceedings: Arctic Science Conference. American Association for the Advancement of Science. Anchorage, Alaska	Biomass production, nutritional characteristics and effect on reindeer (<i>Rangifer tarandus tarandus</i>) production of two pasture grasses: Kentucky Nugget Bluegrass (<i>Poa pratensis</i>) and Smooth Brome grass (<i>Bromus Inermis</i>). Abstract.	Aguiar G	Finstad G	2007
Forest Products Journal Vol. 57, No. 6, pp.19-22	A Mechanical Evaluation of Alaskan Yellow Cedar		Barber, V	2007
Nature Vol. 447 no 7145:638.	Limitations of molecular genetics in conservation.	Cronin MA.		2007
Animal Conservation 10:159-161.	The Preble's meadow jumping mouse: subjective subspecies, advocacy and management.	Cronin MA.		2007
Animal Genetics 38:193–197.	Genetic Relationships between feral cattle from Chirikof Island, Alaska and other breeds.		Cronin MA	2007
International Journal of Wildland Fire. 16:277–284.	Analysis of Alaskan fire severity patterns using remotely sensed data.	Epting J	Epting J Rupp TS	2007
Rangifer 27(1): 59–75.	Feeding soy or fish meal to Alaskan reindeer (<i>Rangifer tarandus tarandus</i>) - effects on animal performance and meat quality.	Finstad GL		2007

Proceedings: Arctic Science Conference. American Association for the Advancement of Science. Anchorage, Alaska. Abstract.	Reindeer: Food for Alaska's Future.	Finstad GL		2007.
Department of Resources Management, University of Alaska Fairbanks.	Benefits Based Management in the White Mountains National Recreation Area and Steese National Conservation Area, Executive Summary.	Fix PJ		2007
Journal of Leisure Research, 39(4), 611-622.	Visitor Evaluations of Recreation User Fees at Flaming Gorge National Recreation Area.	Fix PJ		2007
Presented to The Alaska Section of the American Water Resources Assoc., December 12, 2007, Fairbanks, Alaska.	The Detective, the Hydrologist, and the Shaman. Harding Lake Fluctuations: Past, Present, and Future.	Fox JD		2007
Agricultural and Forestry Experiment Station Senior Thesis Series ST 2007-01.	Producing Fresh Herbs for Fairbanks Restaurants.	Goss, J-D		2007
The Canadian Journal of Agricultural Economics. Vol. 55 (1), March 2007.	The Demand and Allocation of Alaska and Canada Snow Crab.		Greenberg JA	2007
Fish and Fisheries Vol. 8. 2007.	Global Constraints on Rural Fishing Communities: Whose Resilience is it Anyway?		Greenberg JA	2007
North Pacific Research Board, Project Synopsis. Anchorage, Alaska.	The Catch about Crab.	Greenberg JA		2007
Agricultural and Forestry Experiment Station AFES Variety Trial 2007-02.	Vegetable trials 2006.	Hanscom J Holloway P		2007
Agricultural and Forestry Experiment Station AFES Variety Trial 2007-03.	Herb Evaluations 2006	Holloway P	Matheke G	2007
Georgeson Botanical Notes No 34.	How to germinate seeds of Alaska wild berries and lingonberries (lowbush cranberries).	Holloway P		2007

Agricultural and Forestry Experiment Station AFES Variety Trial 2007-01.	Annual flowering plant evaluations 2006.	Holloway P	Matheke G Hanscom J,	2007
Agricultural and Forestry Experiment Station -MS thesis.	Nitrogen Fertilization of Smooth Bromegrass in Interior and Southcentral Alaska.	Howard, Natalie D.		2007
Agricultural and Forestry Experiment Station MS thesis.	Foxtail Barley (<i>Hordeum jubatum</i>) control with Propoxycarbazone-Sodium and Fluazifop-P-butyl in three Alaska Native Grass Species.	Jackson, B		2007
EOS Transactions AGU, 88(52), Fall Meeting Supplement. Abstract (oral session) PP54A-04.	Temperature Meets Tree Physiology: Potential Influence of Different Characteristics of Recorded Temperature Increases in Alaska on the Diverging Growth Responses of White Spruce.	Juday GP.		2007
In: Alaska Climate Change Impacts on Boreal Forest Disturbance Regimes. Disturbance Dynamics in Boreal Forests VI International Conference. Fairbanks, Alaska. May 30–June 2, 2007. Abstract. Pg. 33.	Environmental signal focused in pointer years in Yukon River white spruce.	Juday G,		2007
Testimony to U.S. House of Representatives, Committee on Science and Technology. Hearing on October 17, 2007 - Disappearing Polar Bears and Permafrost: Is a Global Warming Tipping Point Embedded in the Ice? 4 pp.	Climate Change in the Alaskan Arctic and Subarctic: A vast Panorama of Comprehensive Environmental Change.	Juday GP		2007
USDA Forest Service, Alaska Region and Pacific Northwest Research Station. Anchorage, Alaska.	Establishment Record for the Copper Sands Research Natural Area within the Chugach National Forest.		Juday GP	2007
In: Alaska Climate Change Impacts on Boreal Forest Disturbance Regimes. Disturbance Dynamics in	Climate and the Black Spruce Fire Disturbance Regime.	Juday G	Barber V Winslow S.	2007

Boreal Forests VI International Conference. Abstract.				
Journal of Geophysical Research 112 (G3):G03017. DOI: 10.1029/2007JG000458.	Topographic influences on wildfire consumption of soil organic carbon in interior Alaska: implications for black carbon accumulation.	Kane ES	Valentine DW	2007
HortScience 42:924.	Seasonal northern snap bean production using high tunnels.	Karlsson M	Rader H, Werner J	2007
Local Environment: The International Journal of Justice and Sustainability 12(6), 627–643. To link to this article: DOI: 10.1080/13549830701657414.	Arctic climate impacts: Environmental injustice in Canada and the United States.		Kofinas G	2007
Presentation to the Science of Arctic Synthesis Studies meeting of NSF-ARCSS.	Heterogeneity and resilience of human-rangifer systems.	Kofinas G		2007
Presentation to the Human Dimensions of the Arctic meeting of NSF-ARCSS. Kolker, A. August 2007. Geothermal Energy in Alaska: Overview and Project Update. Paper presented at the Renewable Energy Alaska Project bi-monthly forum. Anchorage, Alaska.	Human dimension of Human-Rangifer Systems.	Kofinas G		2007
Forest Ecology and Management 243: 116–127.	Effects of diversity of tree species and size on forest basal area growth, recruitment, and mortality.	Liang J		2007
Journal of American Indian Education. Special Issue. Vol.46.3.	Creating a third space for authentic biculturalism: Examples from Math in a Cultural Context.	Lipka, J		
Alaska Law Review 145.	Preemption of State Wildlife Law in Alaska: Where, When, and Why.	Lurman, Julie		2007

Journal of Land Use and Environmental Law 39.	Agencies in Limbo: Migratory Birds and Incidental Take by Federal Agencies.	Lurman, Julie.		2007
Abstract 98-9. 2007 International Annual Meetings, November 4–8, New Orleans, Louisiana. ASA-CSSA-SSSA	Spatial analysis of soil organic carbon along the coastline of northern Alaska.		Michaelson G	2007
Society for Ecological Restoration Northwest and Pacific Northwest Wetland Society Joint Conference, September 25–28, 2007. Yakima, Washington.	Application of the Alaska Interim Regional Supplement: problematic vegetation and soils.		Ping CL	2007
Geophysical Research Letters L13603, DOI: 10.1029/2007GL030689.	Mobilization pathways of organic carbon from permafrost to Arctic rivers in a changing climate.		Ping CL	2007
. Plant and Soils 296:173–185.	Soil organic matter dynamics under decaying wood in a subtropical wet forest: effect of tree species and decay stage		Ping CL, Michaelson G	2007
Society for Ecological Restoration Northwest and Pacific Northwest Wetland Society Joint Conference.	Application of the Alaska Interim Regional Supplement: problematic vegetation and soils.		Ping CL	2007
ASA-CSSA-SSSA 2007 International Annual Meetings. Abstract 104-1.	Geomorphic and hydrological relationships of tephra-derived soils in southcentral Alaska.	Ping CL	Michaelson GJ	2007
Abstract, Arctic Science Conference.	Cryogenesis and carbon stores in arctic tundra soils, Alaska.	Ping CL	Michaelson GJ	2007
Oral Presentation, 6th International Conference on Disturbance Dynamics in Boreal Forests. May 30–June 2, 2007. Fairbanks, Alaska.	Sensitivity of Soil Organic Carbon Dynamics to Long-Term Throughfall Exclusion in Interior Alaska.	Runk SA	Valentine DW, Yarie JA	2007
Journal of Biogeography 34:1622–1631.	Interactive controls by herbivory and fluvial dynamics over landscape vegetation patterns		Rupp TS	2007

	along the Tanana River, interior Alaska.			
Landscape Ecology 21(1):121–137 DOI:10.1007/s10980-005-7302-9.	Comparison of the sensitivity of landscape-fire-succession models to variation in terrain, fuel pattern, climate and weather.		Rupp TS	2007
Ecology and Society 12(1): 7. Available on line at: www.ecologyandsociety.org/vol12/iss1/art7/	Factors Contributing to the Cultural and Spatial Variability of Landscape Burning by Native Peoples of Interior Alaska.		Rupp TS	2007
Earth Interactions 11(3):1–21.	Sensitivity of simulated land cover dynamics to uncertainties in climate drivers.	Rupp TS	Olson M,	2007
Weed Technology 21: 692–694.	Response of seedling birdvetch (<i>Vicia cracca</i>) to six herbicides.		Sparrow SD Jackson BE	2007
Park Science, 24(2), 46–52.	An assessment of significant visitor experiences and preferences in Kennecott National Historic Landmark.	Taylor SC	Fix PJ	2007
Rangifer Report, 12, 71–77 (in Swedish with English abstract).	Renkött – är det alltid mörkt, gott och nyttigt?	Wiklund E	Finstad G	2007
12th Arctic Ungulate Conference, 8–13 August, 2007. Yakutsk, Russia (Abstract, poster, and presentation).	Carcass composition and quality characteristics of meat from young reindeer (<i>Rangifer tarandus tarandus</i>) bulls and steers.	Wiklund E	Finstad G Worker S Aguiar G	2007
Institute of food Technologies Annual Mtg, 24-28 June	Storage shelf-life and consumer acceptance of pre-cooked reindeer meat products.	Wiklund, E	Finstad, G	2007
Journal of Environmental Monitoring and Restoration. 3:264–277.	Characteristics of nitrogen and phosphorus release from fish meals and fish hydrolysate in subarctic soils.	Zhang M	Sparrow S	2007
Acta Agriculturae Scandinavica, Section B: Soil and Plant Science 57: 374–382.	Soil properties and barley yield under a twenty-year experiment of tillage, straw	Zhang M	Sparrow S Lewis C Knight C	2007

	management, and nitrogen application rate in the sub-arctic areas of Alaska.			
In: Arctic Science Conference, Anchorage, Alaska, Sept. 24–26, 2007. Abstract.	Sustainable agriculture in subarctic Alaska.	Zhang M	Sparrow SD	2007

Book/Chapter(s)	Chapter Title	Lead author (last name, first initial)	Co-author(s)	Publication Date
United Nations Environment Programme. 2007. ISBN 978-92-807-2872-9 (UNEP hardback). 572 pp.	Global Environment Outlook - GEO4 - Environment for Development. United Nations Environment Programme.	Juday, GP one of ~900 named contributors		2007
In: F. Berkes, N. Doubleday, & D. Armitage (Eds.), <i>Adaptive Co-Management: Collaboration, Learning and Multi-Level Governance</i> ;	Novel problems require novel solutions: Innovation as an outcome of adaptive co-management. pp 249–267. UBC Press.	Kofinas GP	Meek C	2007

Reference Type: Government Document
Record Number: 9
Author: A.J. Stegmann, **P.J. Fix** and T.L. Teel
Year: 2008
Title: Benefits Based Management Study for the Dalton, Taylor and Denali Highways.

Reference Type: Journal Article
Record Number: 95
Author: J. D. Auer and **P. S. Holloway**
Year: 2008
Title: An introduction to harvesting and selling Alaska cut flower peonies.
Journal: University of Alaska Agricultural and Forestry Experiment Station Misc. Pub.
Issue: MP 2008-03
Pages: 16
Short Title: An introduction to harvesting and selling Alaska cut flower peonies.

Reference Type: Book Section
Record Number: 35
Author: **V. A. Barber**, **G. P. Juday**, R. D'Arrigo, E. Berg, B. Buckley, H. Huntington, M. T. Jorgensen, D. McGuire, T. Osterkamp, **B. Riordan**, A. Whiting, G. Wiles and **M. Wilkening**
Year: 2008
Title: Climate Warming in Western North America/Evidence and Environmental Effects
Pages: 167
Short Title: A Synthesis of Recent Climate Warming Effects on Terrestrial Ecosystems of Alaska.
ISBN: ISBN 978-0-87480-906-0.

Reference Type: Journal Article
Record Number: 19
Author: **C. M. Beier**, **S. E. Sink**, P. E. Hennon and **G. P. Juday**
Year: 2008
Title: Twentieth-century warming and the dendroclimatology of declining yellow-cedar forests in southeastern Alaska.
Journal: Canadian Journal of Forest Research
Volume: 38
Issue: 6
Pages: 1319-1334
Short Title: Twentieth-century warming and the dendroclimatology of declining yellow-cedar forests in southeastern Alaska.

Reference Type: Book Section
Record Number: 83
Author: R. B. Boone, **S. B. BurnSilver** and R. Kruska
Year: 2008
Title: Comparing Landscape and Infrastructural Heterogeneity Within and Between Ecosystems
Editor: K. Galvin, R. Reid, R. Behnke and T. Hobbs
Book Title: Fragmentation of Semi-Arid and Arid Landscapes: Consequences for Human and Natural Systems
City: New York
Publisher: Verlag
Pages: 341-368
Short Title: Comparing Landscape and Infrastructural Heterogeneity Within and Between Ecosystems

Reference Type: Government Document
Record Number: 34
Author: A. M. Brackley and **V. A. Barber**
Year: 2008
Title: Consumer and Purchasing Agent Response to Terms Used to Describe Forest Products from Southeast Alaska

Reference Type: Journal Article
Record Number: 59
Author: L. B. Brubaker, P. E. Higuera, **T. S. Rupp**, **M. Olson**, P. M. Anderson and F. S. Hu
Year: 2008
Title: Linking sediment charcoal records and ecological modeling to understand causes of past fire-regime change in Alaskan boreal forests.
Journal: Ecology
Volume: 90
Pages: 1788-1801
Epub Date: 2009
Date: 2009
Short Title: Linking sediment charcoal records and ecological modeling to understand causes of past fire-regime change in Alaskan boreal forests.
DOI: 10.1890/08-0797.1

Reference Type: Book Section
Record Number: 84
Author: **S. B. BurnSilver** and J. S. Worden
Year: 2008
Title: Processes of Fragmentation in the Amboseli Ecosystem

Editor: K. Galvin, R. Reid, R. Behnke and T. Hobbs
Book Title: Fragmentation of Semi-Arid and Arid Landscapes: Consequences for Human and Natural Systems.
City: New York
Publisher: Verlag
Pages: 225-244
Short Title: Processes of Fragmentation in the Amboseli Ecosystem

Reference Type: Journal Article
Record Number: 81
Author: M. R. Cebrian, K. Kielland and **G. L. Finstad**
Year: 2008
Title: Forage quality and reindeer productivity: multiplier effects amplified by climatic change.
Journal: Arctic and Alpine Research
Volume: 40
Issue: 1
Pages: 48-54
Short Title: Forage quality and reindeer productivity: multiplier effects amplified by climatic change.

Reference Type: Journal Article
Record Number: 48
Author: F. S. Chapin III., **S. F. Trainor**, O. Huntington, A. L. Lovecraft, E. Zavaleta, D. C. Natcher, D. McGuire, J. Nelson, L. Ray, M. Calef, **N. Fresco**, H. Huntington, **T. S. Rupp**, L. DeWilde and R. Naylor
Year: 2008
Title: Increasing Wildfire in Alaska's Boreal Forest: Causes, Consequences, and Pathways to Potential Solutions of a Wicked Problem
Journal: Biosciences
Volume: 58
Pages: 531-540
Short Title: Increasing Wildfire in Alaska's Boreal Forest: Causes, Consequences, and Pathways to Potential Solutions of a Wicked Problem

Reference Type: Journal Article
Record Number: 56
Author: **D. L. Cheyette**, **T. S. Rupp** and S. Rodman
Year: 2008
Title: Developing fire behavior fuel models for the wildland-urban interface in Anchorage, Alaska.
Journal: Western Journal of Applied Forestry
Volume: 23

Pages: 149-155

Short Title: Developing fire behavior fuel models for the wildland-urban interface in Anchorage, Alaska.

Reference Type: Journal Article

Record Number: 91

Author: D. D. Davies

Year: 2008

Title: Alaska's State-Funded Agricultural Products and Policy—Have They Been A Success?

Journal: AFES Senior Thesis Series ST 2008-01.

Pages: 20

Short Title: Alaska's State-Funded Agricultural Products and Policy—Have They Been A Success?

Reference Type: Journal Article

Record Number: 70

Author: J. H. Dong, X. F. Cheng, Y. Y. Yin, Q. Fang, M. Ding, T. T. Li, L. Z. Zhang, X. X. Su, **J. H. McBeath** and Z. Z. Zhang

Year: 2008

Title: Characterization of tomato zonate spot virus, a new tospovirus in China

Journal: Archives of Virology

Volume: 153

Issue: 5

Pages: 855-864

Short Title: Characterization of tomato zonate spot virus, a new tospovirus in China

DOI: 10.1007/s00705-008-0054-5

Reference Type: Journal Article

Record Number: 55

Author: F. Dou, **C. L. Ping**, L. Guo and M. T. Jorgenson

Year: 2008

Title: Estimating the Impact of Seawater on the Production of Soil Water-Extractable Organic Carbon during Coastal Erosion

Journal: Soil Science Society of America

Volume: 37

Issue: 6

Pages: 2368-2374

Type of Article: Technical report

Short Title: Estimating the Impact of Seawater on the Production of Soil Water-Extractable Organic Carbon during Coastal Erosion

Reference Type: Journal Article

Record Number: 82

Author: A. L. Evans, R. F. Bey, J. V. Schoster, J. E. Gaarder and **G. L. Finstad**

Year: 2008

Title: Preliminary studies on the etiology of keratoconjunctivitis in reindeer (*Rangifer tarandus tarandus*) calves in Alaska.

Journal: Journal of Wildlife Diseases

Volume: 44

Issue: 4

Pages: 1051-1055

Short Title: Preliminary studies on the etiology of keratoconjunctivitis in reindeer (*Rangifer tarandus tarandus*) calves in Alaska.

Reference Type: Government Document

Record Number: 10

Author: **P. J. Fix**

Year: 2008

Title: White Mountains National Recreation Area and Steese National Conservation Area Benefits Based Management Study.

Reference Type: Journal Article

Record Number: 77

Author: **J. D. Fox**

Year: 2008

Title: The Farthest North Forest Sports Festival = Bragging Rights!

Journal: Western Forester

Volume: 25

Issue: 1

Pages: 18

Short Title: The Farthest North Forest Sports Festival = Bragging Rights!

Reference Type: Report

Record Number: 78

Author: **J. D. Fox**

Year: 2008

Title: A simple water-balance model for Harding Lake

Series Title: The Alaska Section of the American Water Resources Association

Date: January

Short Title: A simple water-balance model for Harding Lake

Reference Type: Journal Article

Record Number: 29

Author: N. H. French, E. S. Kasischke, R. J. Hall, K. A. Murphy, **D. L. Verbyla**, E. E. Hoy and J. L. Allen

Year: 2008

Title: Using Landsat data to assess fire and burn severity in the North American boreal forest regions: an overview and summary of results.

Journal: International Journal of Wildland Fire

Volume: 17

Pages: 443-462

Short Title: Using Landsat data to assess fire and burn severity in the North American boreal forest regions: an overview and summary of results.

Reference Type: Journal Article

Record Number: 88

Author: **J. Garron**

Year: 2008

Title: End of an era for experimental oil spill sites

Journal: Agroborealis,

Volume: 39

Issue: 2

Pages: 25-27

Short Title: End of an era for experimental oil spill sites

Reference Type: Journal Article

Record Number: 69

Author: R. Gazal, M. White, R. Gillies, E. Rodemaker, **E. B. Sparrow** and L. Gordon

Year: 2008

Title: GLOBE students, teachers, and scientists demonstrate variable differences between urban and rural leaf phenology along a multi-continent bioclimatic gradient.

Journal: Global Change Biology

Volume: 14

Pages: 1-13

Short Title: GLOBE students, teachers, and scientists demonstrate variable differences between urban and rural leaf phenology along a multi-continent bioclimatic gradient.

DOI: 10.1111/j.1365-2486.2008.01602.x

Reference Type: Journal Article

Record Number: 90

Author: **H. Geier**

Year: 2008

Title: Year 2007 Economic Impact of the Boeing Ground-Based Mid-Course Defense (GMD) Program: Alaska Operations 2007.

Journal: Agricultural and Forestry Experiment Station Miscellaneous Publication
Issue: RPT 2008-01
Pages: 14
Short Title: Year 2007 Economic Impact of the Boeing Ground-Based Mid-Course Defense (GMD) Program: Alaska Operations 2007.

Reference Type: Journal Article
Record Number: 76
Author: M. R. George, N. K. McDougald, W. A. Jensen, R. E. Larsen, D. C. Cao and **N. R. Harris**
Year: 2008
Title: Effectiveness of nutrient supplement placement for changing beef cow distribution.
Journal: Journal of Soil and Water Conservation
Volume: 63
Issue: 1
Pages: 11-17
Short Title: Effectiveness of nutrient supplement placement for changing beef cow distribution.

Reference Type: Journal Article
Record Number: 116
Author: G. González, W. A. Gould, A. T. Hudak and **T. N. Hollingsworth**
Year: 2008
Title: Decay of aspen (*Populus tremuloides* Michx.) wood in moist and dry boreal, temperate and tropical forest fragments
Journal: Ambio
Volume: 37
Issue: 7-8
Pages: 588-597
Short Title: Decay of aspen (*Populus tremuloides* Michx.) wood in moist and dry boreal, temperate and tropical forest fragments

Reference Type: Journal Article
Record Number: 115
Author: W. A. Gould, G. González, A. T. Hudak, **T. N. Hollingsworth** and **H. J.**
Year: 2008
Title: Forest structure and downed woody debris in boreal, temperate, and tropical forest fragments.
Journal: Ambio
Volume: 37
Issue: 7-8
Pages: 577-587

Short Title: Forest structure and downed woody debris in boreal, temperate, and tropical forest fragments.

Reference Type: Journal Article

Record Number: 94

Author: Herb Bunch Volunteers, **P. S. Holloway**, E. Gardiner and **G. Matheke**

Year: 2008

Title: Herb Evaluations 2007

Journal: Agricultural and Forestry Experiment Station AFES Variety Trial

Issue: VT 2008-03.

Short Title: Herb Evaluations 2007

Reference Type: Journal Article

Record Number: 92

Author: **P. Holloway**, **G. E. M. Matheke**, **J. Hanscom**, Gardiner E, J. Weber, G. Hockstettler, L. Lipka, J. Nigg, B. Olson, M. Peterburs, E. Schuldiner and A. Smith

Year: 2008

Title: Annual flowering plant evaluations 2007.

Journal: Agricultural and Forestry Experiment Station AFES Variety Trial

Issue: VT 2008-01.

Short Title: Annual flowering plant evaluations 2007.

Reference Type: Government Document

Record Number: 117

Author: J. F. Johnstone, **T. N. Hollingsworth** and F. S. Chapin III.

Year: 2008

Title: A key for predicting postfire successional trajectories in black spruce stands of interior Alaska.

Department: F. S. U.S. Department of Agriculture, Pacific Northwest Research Station.

City: Portland, OR

Volume: Gen. Tech. Rep. PNW-GTR-767.

Pages: 37 p.

Reference Type: Journal Article

Record Number: 71

Author: **M. Karlsson**

Year: 2008

Title: Early day length sensitivity in sunflower

Journal: HortScience

Volume: 43

Pages: 1261-1262

Type of Article: Abstract

Short Title: Early day length sensitivity in sunflower

Reference Type: Journal Article

Record Number: 3

Author: J. J. Liang, D. E. Calkin, K. M. Gebert, T. J. Venn and R. P. Silverstein

Year: 2008

Title: Factors influencing large wildland fire suppression expenditures.

Journal: International Journal of Wildland Fire

Volume: 17:

Pages: 650-659

Short Title: Factors influencing large wildland fire suppression expenditures.

Reference Type: Journal Article

Record Number: 72

Author: J. Lipka and D. Andrew-Ihrke

Year: 2008

Title: Ethnomathematics applied to classrooms in Alaska: Mathematics in a Cultural Context

Journal: NCSM- Network, Communicate, Support, Motivate Leadership in Mathematics Education

Volume: Winter

Pages: 35-37

Short Title: Ethnomathematics applied to classrooms in Alaska: Mathematics in a Cultural Context

Reference Type: Journal Article

Record Number: 93

Author: G. E. M. Matheke, J. Hanscom, P. S. Holloway and E. Gardiner

Year: 2008

Title: Vegetable trials 2007.

Journal: Agricultural and Forestry Experiment Station AFES Variety Trial

Issue: VT 2008-02

Short Title: Vegetable trials 2007.

Reference Type: Journal Article

Record Number: 58

Author: A. D. McGuire, J. Walsh, J. Kimball, J. Clein, S. Euskirchen, S. Drobot, U. Herzfeld, J. Maslankik, R. Lammers, M. Rawlins, C. Vorosmarty, T. S. Rupp, W. Wu and M. Calef

Year: 2008

Title: The Western Arctic Linkage Experiment (WALE): Overview and synthesis.

Journal: Earth Interactions

Volume: 12

Issue: 7

Pages: 13

Short Title: The Western Arctic Linkage Experiment (WALE): Overview and synthesis.
DOI: 10.11175/2008EI239.1

Reference Type: Journal Article

Record Number: 96

Author: A. L. L. Meek CL, M. D. Robards, G. P. Kofinas. 2008. Building resilience through interlocal relations: Case studies of polar bear and walrus management in the Bering Strait. *Marine Policy*, Volume 32, Issue 6, November 2008, Pages 1080-1089
doi:10.1016/j.marpol.2008.03.003

Reference Type: Journal Article

Record Number: 6

Author: C. L. Meeks, L. Lovecraft, M. D. Robards and G. P. Kofinas

Year: 2008

Title: Building resilience through interlocal relations: Case studies of polar bear and walrus management in the Bering Strait.

Journal: *Marine Policy*,

Volume: 32

Issue: 6

Pages: 1080-1089

Date: November 2008

Short Title: Building resilience through interlocal relations: Case studies of polar bear and walrus management in the Bering Strait.

DOI: doi:10.1016/j.marpol.2008.03.003

Reference Type: Journal Article

Record Number: 52

Author: G. J. Michaelson, C. L. Ping, H. Epstein, J. M. Kimble and D. A. Walker

Year: 2008

Title: Soils and frost boil ecosystems across the North American Arctic Transect

Journal: *J. Geophys. Res.*

Volume: 113

Issue: G03S11

Pages: 11

Short Title: Soils and frost boil ecosystems across the North American Arctic Transect

DOI: 10.1029/2007JG000672

Reference Type: Journal Article

Record Number: 7

Author: T. R. Miller, T. D. Baird, C. M. Littlefield, G. Kofinas, I. Chapin, F. and C. L. Redman

Year: 2008

Title: Epistemological pluralism: reorganizing interdisciplinary research
Journal: Ecology and Society
Volume: 13
Issue: 2
Pages: 46
Short Title: Epistemological pluralism: reorganizing interdisciplinary research
URL: <http://www.ecologyandsociety.org/vol13/iss2/art46/>

Reference Type: Book Section
Record Number: 73
Author: S. Nelson Barber and **J. Lipka**
Year: 2008
Title: Rethinking the Case for Culture-based Curriculum: Conditions that Support Improved Mathematics Performance in Diverse Classrooms
Editor: M. M. Brisk, P.
Book Title: Language, Curriculum & Community in Teacher Preparation
City: Mahwah, NJ
Publisher: Lawrence Erlbaum
Pages: 99-123
Short Title: Rethinking the Case for Culture-based Curriculum: Conditions that Support Improved Mathematics Performance in Diverse Classrooms

Reference Type: Journal Article
Record Number: 50
Author: **C. L. Ping**, **G. J. Michaelson**, M. T. Jorgensen, J. M. Kimble, H. Epstein, V. E. Romanovsky and D. A. Walker
Year: 2008
Title: High stocks of soil organic carbon in North American Arctic region
Journal: Nature Geoscience
Volume: 1
Pages: 615-619
Epub Date: 24 August 2008
Short Title: High stocks of soil organic carbon in North American Arctic region
DOI: 10.1038/ngeo284

Reference Type: Journal Article
Record Number: 51
Author: **C. L. Ping**, **G. J. Michaelson**, J. M. Kimble, V. E. Romanovsky, Y. L. Shur, D. K. Swanson and D. A. Walker
Year: 2008
Title: Cryogenesis and soil formation along a bioclimate gradient in Arctic North America
Journal: J. Geophys. Res.

Volume: 113
Pages: 14
Epub Date: 2 August 2008
Short Title: Cryogenesis and soil formation along a bioclimate gradient in Arctic North America
DOI: 10,1029/2008JG00744
Call Number: G03S12

Reference Type: Journal Article
Record Number: 33
Author: M. K. Reynolds, J. C. Comiso, D. A. Walker and **D. L. Verbyla**
Year: 2008.
Title: Relationship between satellite-derived land surface temperatures, arctic vegetation types, and NDVI.
Journal: Remote Sensing of Environment
Volume: 112
Pages: 1884-1894.
Short Title: Relationship between satellite-derived land surface temperatures, arctic vegetation types, and NDVI.

Reference Type: Journal Article
Record Number: 8
Author: M. Robards and **J. L. Joly**
Year: 2008
Title: Interpretation of 'Wasteful Manner' within the Marine Mammal Protection Act and its Role in Management of the Pacific Walrus
Journal: 13 Ocean and Coastal Law Journal
Volume: 171
Short Title: Interpretation of 'Wasteful Manner' within the Marine Mammal Protection Act and its Role in Management of the Pacific Walrus

Reference Type: Journal Article
Record Number: 65
Author: **J. A. Soria**
Year: 2008
Title: Biomass for bio fuels: not all trees are equal.
Journal: Agroborealis
Volume: 39
Issue: 2
Pages: 7-9
Short Title: Biomass for bio fuels: not all trees are equal.

Reference Type: Journal Article

Record Number: 64

Author: J. A. Soria, A. G. McDonald and B. B. He

Year: 2008

Title: Wood solubilization and depolymerization by supercritical methanol, Part 2: Analysis of methanol soluble compounds.

Journal: Holzforschung

Volume: 62

Issue: 4

Pages: 409-416

Short Title: Wood solubilization and depolymerization by supercritical methanol, Part 2: Analysis of methanol soluble compounds.

Reference Type: Journal Article

Record Number: 63

Author: J. A. Soria, A. G. McDonald and S. R. Shook

Year: 2008

Title: Wood solubilization and depolymerization using supercritical methanol, Part 1: Process optimization and analysis of methanol insoluble components (bio-char).

Journal: Holzforschung

Volume: 62

Issue: 4

Pages: 402-408

Short Title: Wood solubilization and depolymerization using supercritical methanol, Part 1: Process optimization and analysis of methanol insoluble components (bio-char).

Reference Type: Journal Article

Record Number: 68

Author: E. B. Sparrow , P. Y. LeMone, S. Yule, R. Boger, M. Galloni and M. Kopplin

Year: 2008

Title: Pole to Pole Videoconferences Connect Students and Scientists

Journal: EOS Trans

Volume: AGU89

Issue: 53

Type of Article: Abstract

Short Title: Pole to Pole Videoconferences Connect Students and Scientists

Call Number: ED32A-04

Reference Type: Journal Article

Record Number: 46

Author: S. D. Sparrow and d. masiak

Year: 2008

Title: Second harvest timing and cut height of forage crops in Central Alaska

Journal: Agronomy Journal
Volume: 100
Pages: 1615-1621
Short Title: Second harvest timing and cut height of forage crops in Central Alaska

Reference Type: Government Document
Record Number: 97
Author: A. J. Stegmann, **P. J. Fix** and T. L. Teel
Year: 2008
Title: Benefits Based Management Study for the Dalton, Taylor and Denali Highways

Reference Type: Government Document
Record Number: 87
Author: **S. F. Trainor**, G. Yu and J. Walsh
Year: 2008
Title: Towards Predicting the Impact of Climate Change on Tourism: An Efficient Tourism Climate Index.
Reference Type: Journal Article
Record Number: 30
Author: **D. L. Verbyla**
Year: 2008
Title: The greening and browning of Alaska based on 1982-2003 satellite data.
Journal: Global Ecology and Biogeography
Volume: 17
Pages: 547-555.
Short Title: The greening and browning of Alaska based on 1982-2003 satellite data.

Reference Type: Journal Article
Record Number: 28
Author: **D. L. Verbyla**, E. S. Kasischke and E. E. Hoy
Year: 2008.
Title: Seasonal and topographic effects on estimating fire severity from Landsat TM/ETM+ data.
Journal: International Journal of Wildland Fire.
Volume: 17
Pages: 527-534
Short Title: Seasonal and topographic effects on estimating fire severity from Landsat TM/ETM+ data.

Reference Type: Journal Article
Record Number: 31
Author: **D. L. Verbyla** and R. Lord

Year: 2008.

Title: Estimating post-fire organic soil depth in the Alaskan boreal forest using the Normalized Burn Ratio.

Journal: International Journal of Remote Sensing.

Volume: 29

Issue: 13

Pages: 3845-3853.

Short Title: Estimating post-fire organic soil depth in the Alaskan boreal forest using the Normalized Burn Ratio.

Reference Type: Journal Article

Record Number: 53

Author: D. A. Walker, H. Epstein, V. E. Krantz, V. E. Romanovsky, **C. L. Ping, G. J. Michaelson**, R. P. Daanen, Y. L. Shur, W. B. Peterson, M. K. Raynolds, G. Gould, G. Gonzalez, D. J. Nicolsky, C. M. Vanlanthen, A. N. Kade, P. Kuss, A. M. Kelley, C. A. Munger, C. T. Tarnocai, N. V. Matveyeva and F. J. A. Daniels

Year: 2008

Title: Arctic Patterned-Ground Ecosystems: a Synthesis of Studies Along a North American Arctic Transect

Journal: J. Geophys. Res.

Short Title: Arctic Patterned-Ground Ecosystems: a Synthesis of Studies Along a North American Arctic Transect

DOI: 10.1029/2007JG000504

Call Number: G03S01

Reference Type: Journal Article

Record Number: 86

Author: E. Wiklund, **G. L. Finstad**, L. Johansson, **G. Aguiar** and P. J. Bechtel

Year: 2008

Title: Carcass composition and yield of Alaskan reindeer steers and effects of electrical stimulation applied during field slaughter on meat quality.

Journal: Meat Science

Volume: 78

Pages: 185-193

Short Title: Carcass composition and yield of Alaskan reindeer steers and effects of electrical stimulation applied during field slaughter on meat quality.

Reference Type: Journal Article

Record Number: 85

Author: E. Wiklund, **G. L. Finstad**, S. Workers and P. J. Bechtel

Year: 2008

Title: Effects of early castration on carcass composition, yield and quality characteristics of meat from young reindeer (*Rangifer tarandus tarandus*) bulls and steers.

Journal: Rangifer

Volume: 28

Pages: 1-8

Short Title: Effects of early castration on carcass composition, yield and quality characteristics of meat from young reindeer (*Rangifer tarandus tarandus*) bulls and steers.

Reference Type: Journal Article

Record Number: 54

Author: C. H. Xu, L. D. Guo, F. Dou and **C. L. Ping**

Year: 2008

Title: Potential DOC production from size fractioned arctic tundra soils. Cold Region Science & Technology

Journal: Cold Region Science & Technology

Volume: 55

Issue: 1

Pages: 141-150

Epub Date: 22 August 2008

Short Title: Potential DOC production from size fractioned arctic tundra soils. Cold Region Science & Technology

DOI: 10.1016/coldregions.2008.08.001

Reference Type: Journal Article

Record Number: 24

Author: **J. A. Yarie**

Year: 2008

Title: Effects of moisture limitation on tree growth in upland and floodplain forest ecosystems in interior Alaska.

Journal: Forest Ecology and Management

Volume: 256

Pages: 1055-1063.

Short Title: Effects of moisture limitation on tree growth in upland and floodplain forest ecosystems in interior Alaska.

Reference Type: Journal Article

Record Number: 5

Author: M. Zhou, J. Buongiorno and **J. J. Liang**

Year: 2008

Title: Economic and Ecological Effects of Diameter Caps: A Markov decision model for Douglas-fir/western hemlock forests

Journal: Forest Science

Volume: 54

Issue: (4)

Pages: 397-407.

Short Title: Economic and Ecological Effects of Diameter Caps: A Markov decision model for Douglas-fir/western hemlock forests

Reference Type: Journal Article

Record Number: 4

Author: M. Zhou, **J. Liang** and J. Buongiorno

Year: 2008

Title: Adaptive versus fixed policies for economic or ecological objectives in forest management.

Journal: Forest Ecology and Management

Volume: 254

Pages: 178-187.

Short Title: Adaptive versus fixed policies for economic or ecological objectives in forest management.