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4-H made e	orts to keep	p youth connec	cted with caring	adults at a regiona	l level throughout	the pandemic.	

participate in STEMactivities during out-of-school time, and twice as likely to make healthier choices. Participant feedback so far shows the activities are fun and easy to do, and that campers gain valuable knowledge as a result of the at-home 4-H camp experience. One camper

said, "The kits were a good way to bring the family together and learn about the environment around us. They were a lot of fun."

N "IL

agronomic and economic standpoint. High value agronomic niche crops such as malting and hull-less barleys and oilseeds like canola, mustards, camelina, and dwarf sunflowers have been shown to have agronomic potential for Alaska (Van Veldhuizen and Knight 2004*, Geier 2006).

*1. Van Veldhuizen, R. M and Knight C. W., 2004. Performance of Agronomic Crop Varieties in Alaska 1978 – 2002. AFES Bulletin 111. Agricultural and Forestry Experiment Station, University of Alaska Fairbanks, Fairbanks, AK.

**2 Geier, H. 2006. Canola Quality in Alaska, 2004 and 2005 Harvests. Research Progress Report No. 47. Alaska Agricultural and Forestry Experiment Station, University of Alaska Fairbanks, Fairbanks, AK.

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Average yields for all spring grain and oilseed varieties at the Fairbanks (FBKS) and Palmer (PAL) locations were about equal to the standard test varieties. Significant jutionizers in 2021 included the findings of potential good varieties of two-row barley which were chosen for malting in aicom in

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Trial resultainentre e l

В	b	а	а	b	' a .				
The targ	et audiences are	e growers o	fsmall gr	ains and ped	eony. The research results were delivered in growers meeting "Harves	t ap Up" on			
December 7, 2021. There are 11 growers on sites and the other 9 online. A er the presentation, questions on cover crops such varieties, nitrogen fixation, weed control were discussed.									
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The results were delivered to growers in extension meeting of Harvest Wrap-up. It also delivered to audience who paid a site vise not the experiments.

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There was a Ph.D. student working as summer student in the project.

For 2021 soil and tissue samples, they need to be sent to commerical laboratory to analyze their nutrient concentration. An incubation experiment will be conducted in 2022 at 200C to determine nutrient release from soil samples taken in fall of 2021.

In 2022, barley will be seeded in the 2 year rotation treatments, barley biomass will be taken in the vegetative growth stage and at grain filling stage to determine N uptake. Soil and biomass samples will be taken in fall of 2022 to continue evaluation of cover crop impact on soil properties and N fixation.

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Project Director Organization Accession Number

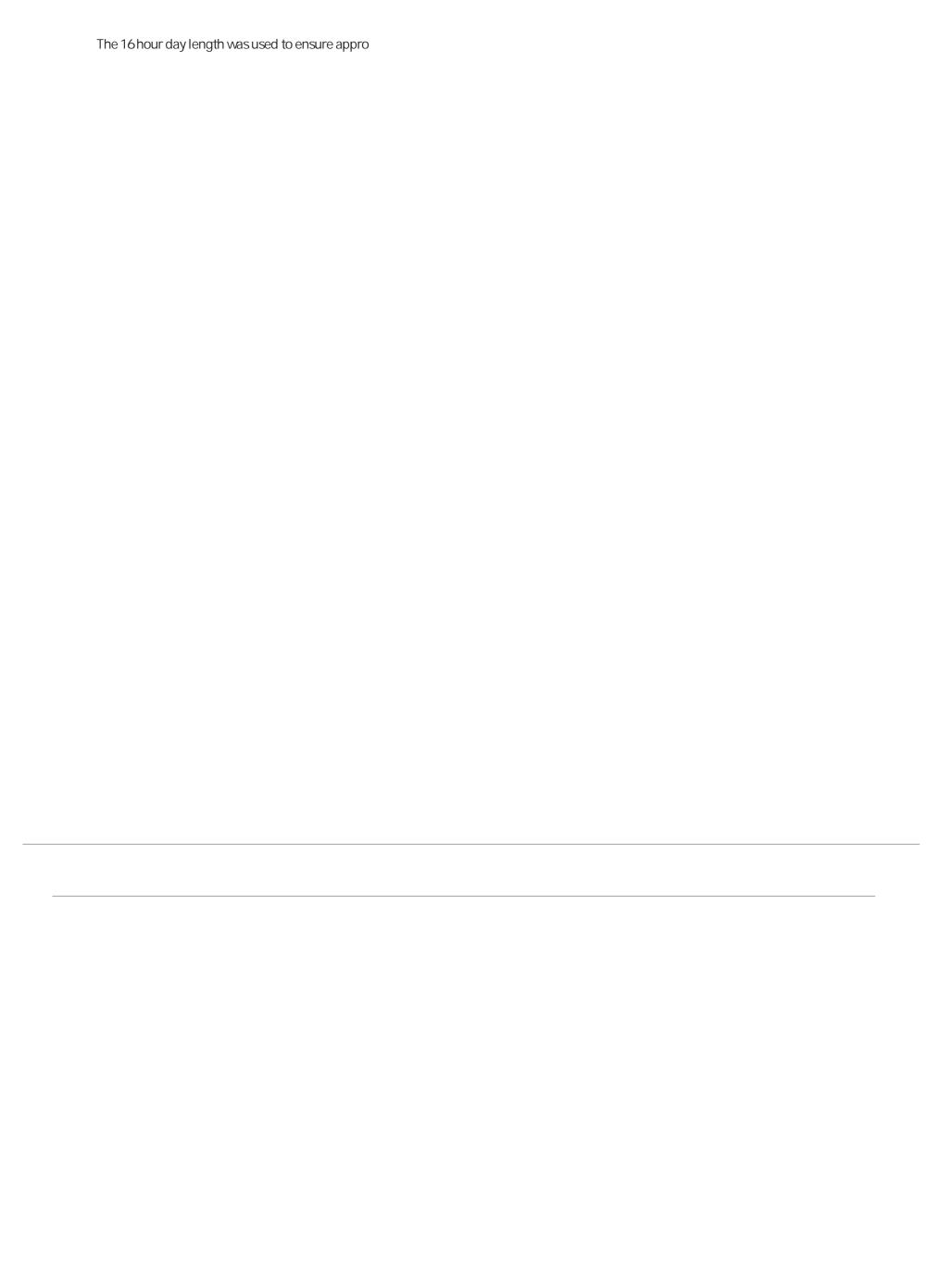
Jenifer McBeath University of 1025528

Alaska Fairbanks

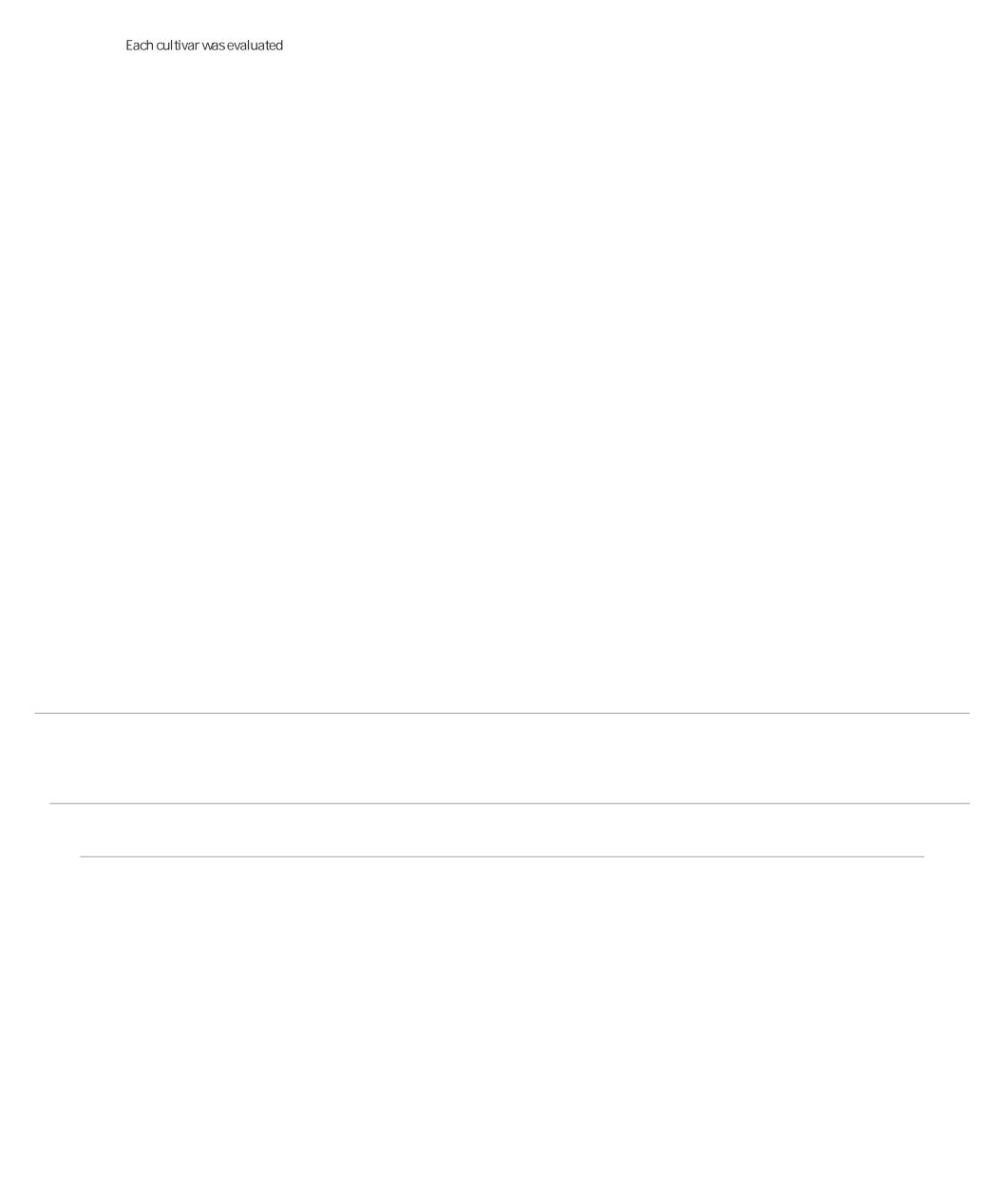


					soils on peony farms. It was a major ca onal hard freeze in late spring.	usal agent resulting in the death of
	(Objective 4)					
		number of colla n peony farms.	aborator farr	ms increased from one	e in 2020 to six. An e ective Botrytis tre	eatment schedule was devo
	В	b	a a	b	' a .	
		will help peony means of disea:		Alaska to grow healthy	plants and produce high quality cut	
	MIestones ad	ccomplished so	o far that wil	l benefit peony farmer	rsinclude:	
	1) Discovery	of cold adapted	d, biological	control Bacillus spp.		
	2) Discovery	of Pythium spp	o. as a possib	ole causal agent of Pe		
	3) Improvem	ent of Plant He	lper treatm	ent plan.		
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	B J.H. McBeath	b ı, H. McKee, ap	b a			
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	The rhodiola (Rhodiola spp) is a perennial, herbaceous, high-valued medicinal plant. The roots of rhodiola are in high demand because it is reputed to be exective as an adaptogen (rhodiola tincture is used as an anti-depressant									



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Alaska, per capita, has one of the fastest-growing population of seniors in the nation, and the state expects the number of seniors to double in the next 30 years. Alaska has more Baby Boomers as a percent of the population than any of the contiguous states, according to a 2015 News-Mner article. All of Alaska is considered

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And Other Instruments or Equipment: Refinements were made to a survey developed for the Bureau of Land Management. The survey is intended to by used across all BLM-managed areas, and assess outcomes associated with recreat

were to visit. The focus group script was designed for the Bureau of Land Management, to use in their Resource Management Plan

development process, but it could be applied to other contexts.

An edited text is being produced; I am the co-managing editor. During the review period 45 chapter submissions were recieved and sent out