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Oregon AgrAbility: Promoting Function for Injured Farmers and Ranchers

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Oregon AgrAbility: Promoting Function for Injured Farmers and Ranchers

Description
AgrAbility projects support a continued agricultural lifestyle for farmers and ranchers with injuries or illnesses. AgrAbility provides education, networking, marketing and direct assistance to farmers and ranchers. Learn about farm modifications, the national AgrAbility project, AgrAbility in Oregon, and ways to get involved.

Disciplines
Occupational Therapy

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Oregon AgrAbility

Promoting Function for Injured Farmers and Ranchers

Elena Durham, Eric Spence

4/29/2013
Abstract

AgrAbility projects support a continued agricultural lifestyle for farmers and ranchers with injuries or illnesses. AgrAbility provides education, networking, marketing and direct assistance to farmers and ranchers. Learn about farm modifications, the national AgrAbility project, AgrAbility in Oregon, and ways to get involved.

Description

Multiple stakeholders and key partners have collaborated efforts over the past four years to develop the Oregon AgrAbility project into a sustainable service provider to the state’s agricultural community. Individuals from Oregon State University, Pacific University, Goodwill Industries International, Inc. (Goodwill), and more have patterned its design after that established by the National AgrAbility Project (NAP), which has been operated by Purdue University in a partnership with Goodwill since 1991. The NAP and and State/Regional Projects (SRAPs) receive funding from the United States Department of Agriculture (USDA) and their overall goal is to find solutions for farmers and ranchers experiencing a decline in function and agricultural productivity due to an injury or illness.

In January 2013 Eric Spence and Elena Durham, third-year students in the School of Occupational Therapy worked together on their innovative practice project (IPP) to build on the progress previous students made through their IPP over the last three years. This year’s project focused on: completing two on-farm assessments including preparing written findings and recommendations; revising the USDA grant application previously submitted in 2011 by former occupational therapy students; networking and marketing the Oregon AgrAbility project at the 2013 Small Farms Conference at Oregon State University by providing an educational presentation to farmers, ranchers and extension agents.

The proposed structure of the future Oregon AgrAbility program includes leadership offered by Project Coordinators. William Braunworth of OSU will serve as the principal investigator (PI) and will be responsible for oversight and advisement. Co-principal investigator Simon Driver, of OSU will be responsible for working directly with the non-profit partner. The co-PI will coordinate with Cooperative Extension staff, and other “silent” partners in the project. He will also be responsible for development of education, networking, marketing, program evaluation and outcomes assessment. Linda Brewer of OSU will serve as the project manager responsible for coordinating communication with researchers, establishing timelines, managing reports and annual documentation and planning and coordinating meetings. Subcontractor Nancy Krusen, of Pacific, will be responsible for supervision of graduate students, coordination of program evaluation with the co-PI and a source of consultation to on-farm assessors. On-farm assessors
will be responsible for worksite evaluation, recommendations for modifications, communication with funders and equipment providers, and follow-up for safe outcomes. Exact responsibilities of future graduate students working the AgrAbility IPP project is yet to be determined pending USDA grant approval but their role is likely to parallel previous projects.

**Introduction**

The United States Department of Agriculture (USDA) and Oregon Department of Agriculture (ODA) report that agriculture production in Oregon increased 24% between 2010-2011, to a record high of $5.3 billion. Oregon’s agricultural base is extremely diverse, with more than 250 economically viable agricultural commodities grown in the state. There are an estimated 38,300 farms in Oregon that employ between 33,000-46,000 permanent workers (Oregon Employment Department, USDA Census, and Alice Larson Enumeration Study). Furthermore, approximately 1 in 12 Oregon jobs (140,000) are tied to the agricultural industry, with about 60,000 of these jobs located on farms (ODA). Finally, the USDA estimates an additional 95,000 seasonal workers support farm production in Oregon.
Annotated Table of Contents

Introduction

The evolution of the AgrAbility project overall as well as here in Oregon is described. The contributions from the 2013 innovative practice project are identified, which includes recommendations for future projects.

Innovative Practice Project Presentation

Contents from the presentation created by Elena Durham, OTS and Eric Spence, OTS for the Research and Practice Symposium, held at Pacific University on May 3, 2013.

Revised USDA Grant Proposal

A previously submitted grant proposal from 2011 was edited and submitted to the USDA to provide funding for future program development of the Oregon AgrAbility project in April, 2013. Feedback from the unsuccessful 2011 grant submission was considered and revisions were included in the updated proposal.

Networking/ Promotional Materials

Flyers and surveys were created and distributed at the 2013 Small Farms Conference at Oregon State University to further network and market the AgrAbility program and increase awareness in Oregon.
AgrAbility

Objectives
1. Understand the current need for AgrAbility programs
2. Understand sources available for additional education, networking, assistance and marketing
3. Articulate areas of service regarding safety, injury prevention, farm assessments and equipment modifications
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Agriculture in America

2007 Census of Agriculture …

- 40.8% total area in USA is farmland
- 1,906,335 individuals/family, sole proprietorship (farms)
- 57.1 average operator age (years)
- 1,898,583 men
- 306,209 women
Agriculture in America

- In 2010
  - ~1,823,000 full time agriculture production workers were employed in the U.S.
  - 476 farmers and farm workers died of work-related injuries, equal to 26.1 deaths per 100,000 farmers
  - Every day 243 agricultural workers suffer farm related injury, resulting in lost work time.


Agriculture in America

Farming is one of the most dangerous occupations in America

- Chemicals and pesticides
- Machinery, tools and equipment that can be dangerous
- Hazardous areas, such as grain bins, silos and wells
- Livestock that can spread diseases or cause injuries

Where is AgrAbility?

http://agrability.org/contact-lists/projectscontact.cfm

Who benefits from AgrAbility?

Farmers, ranchers, caregivers, and families with sensorimotor, cognitive and psychosocial/emotional concerns

Arthritis  Spinal cord injuries/paralysis
Back impairments  Amputations
Brain injury  Visual impairments
Hearing impairments  Cognitive problems
Cerebral palsy  Respiratory impairments
Head injury  Hearing impairments
Anxiety  Depression
AgrAbility

What does AgrAbility do?

The National AgrAbility Program provides expertise and consultation:

State and Regional AgrAbility Programs (SRAPs) must provide:
• Education
• Marketing
• Assistance
• Networking

http://agrability.org/About-AgrAbility/about.cfm

Agriculture in Oregon

• Agriculture accounts for 41% of all OR export goods (U.S. Census Bureau Foreign Trade Division, 2009).
• Nation’s leading producer of clover, blackberries, strawberries, boysenberries, hazel nuts.
• Beef cattle & dairy products also top the list.
• Over 220 agriculture commodities produced.
Past AgrAbility Projects at Pacific University

2008: Pacific University coordinated AgrAbility partners

2010: Completed needs assessment, strategic plan; received small grant to support education/networking

2011: Hosted Northwest AgrAbility Workshop in Corvallis, OR; completion of two on-farm assessments; submitted USDA Grant Proposal (sadly not successful)

2012: Pacific University education grant was approved

2013 AgrAbility Program

• Revised and submitted 2013 USDA Grant Proposal

• Educational presentation at Small Farms Conference in Corvallis, OR

• Completion of Two On-Farm Assessments
AgrAbility: Steps in the process

Referral - Kitchen table Conversation

Follow-up

Farm tour/ Evaluation

Implement recommendations

Make recommendations

AgrAbility: On-farm assessment

On-farm visit by any trained assessor includes:
I. Personal data: About farmer, about farmer’s disability

II. General farm & ranch data: Type & size of operation; responsibilities prior to disability; family/others who assist

III. Overall farm/ranch accessibility: General terrain; farmyard surfaces
AgrAbility: On-farm assessment

On-farm assessment includes:

IV. General farm/ranch maintenance: the shop; hand tools, power tools, maintenance of materials & supplies

V. Equipment & machinery: machinery storage; self-propelled equipment; accessing equipment; seating & transfer; controls; hitching & unhitching; other barriers; equipment maintenance
AgrAbility: On-farm assessment

VI. Crop production: forage; grains; other; chemical application

VI. Livestock production: dairy; hogs; beef; sheep; horses; other; feeding, health & production tasks; accessing livestock areas

VIII. Domestic farm animals
IX. Orchards/Woodlots/Gardens
X. Farm management activities: records maintenance; computerization; sales/purchases; labor management
AgrAbility: On-farm assessment

XI. Additional vocational skills: prior/current employment; military; leadership; vocational interests; previous/current education

XI. Establishing primary goals: long & short term objectives

XII. Other comments

Case Example “Amy”

FAMILY OWNED BED AND BREAKFAST, GUEST RANCH
– 9,000 acre range cattle and hay located in rural eastern Oregon
LYME DISEASE FROM AGE 6-13, SECONDARY DX: RA
– Currently 36 yrs old, remission since 1993
DISSATISFIED WITH CURRENT FUNCTIONAL LIMITATIONS, WOULD LIKE TO INCREASE SAFETY AND RESPONSIBILITIES IN RANCH WORK
– Wants to increase safety with saddle setup
– Wants to improve horse mounting system
– Wants to improve ranch gate accessibility
AgrAbility: Case Example “Amy”

**STRENGTHS**
- Strong family support
- HIGHLY motivated
- Horse experience prior to dx
- Age - 35 yrs old
- Currently receiving PT 1x/wk
- Social context
- Currently I with ADLs

**LIMITATIONS**
- Rheumatoid Arthritis limiting ROM
- Lives in rural area
- Current horse mounting/dismounting system
- Unsafe saddle setup
- Limited access around ranch
- Gates
- Pain in hip/knee

“Amy” (Continued)
Recommendations:

**SADDLE**
- Gel seat cushion
- Safety seatbelt with quick release feature
- Sticky Seat
- Little Buddy helper stirrups
- Build-up on pommel to support knees

**GATES**
- Modified latch, handle
- Wheel on bottom of gate
- Easy glide hinges
Mounting/ Dismounting

Case Example “Rick”

**INJURY**
- Third degree burns
- Multiple surgeries, skin grafts, contracture releases

**PRIORITIES**
- Proper fitting gloves to protect thin, fragile skin
  - Web space between fingers uneven, hard to find properly fitting gloves, safe for farming
Possible Recommendations

Custom fitting:
• Football gloves
• Deer/pig skin gloves
• Diving gloves
• Golf gloves

Take-Home Message

Through education and assistance, AgrAbility helps to eliminate (or at least minimize) obstacles that inhibit success in production agriculture or agriculture-related occupations.
Contact Information

For more information or if you know someone who needs assistance visit:

http://agrability.org/contact-lists/index.cfm

If no state project, please contact the NAP. 1-800-825-4264
http://agrability.org/contact-us/index.cfm

AgrAbility: Additional Resources


Questions?

Thank you!

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Elena Durham, MOT, OTS, micu7098@pacificu.edu
Eric Spence, MOT, OTS, spen1428@pacificu.edu
Revised USDA Grant Proposal

Project Description

The Oregon AgrAbility Project is an applicant for the United States Department of Agriculture (USDA) grant as a new State/Regional AgrAbility Project (SRAP). AgrAbility is a program for farmers and ranchers who have experienced a disability to continue a lifestyle of agriculture production. Since 2008, representatives from Oregon State University (OSU), Pacific University (Pacific), Goodwill Industries International, Inc. (Goodwill), Access Technologies, Inc. (ATI) and Oregon State Office of Vocational Rehabilitation Services (OVRS) have met regularly to develop a SRAP in Oregon. The group has created a proposal with input from the informal partnership, interested stakeholders, a needs assessment, and peer reviewers. Over the past five years, the group has initiated direct service through on-farm assessments, established a network of community resources to meet the needs of farmers with a disability, and marketed the program through a regional workshop and multiple conference presentations. As a result of these efforts, the group proposes a service and research project (SRAP) that includes developing and disseminating innovative media resources (e.g., online learning modules, bi-annual video conferences), establishing a structured and wide-reaching system to effectively serve farmers with a disability, and direct assistance program to the benefit of Oregon stakeholders. In the following application we have clearly identified (1) a need for services, (2) the different roles the partners will assume to fulfill the project, (3) specific objectives, (4) timeline, and (5) project plan. As a result, the proposal addresses the limitations of current services to farmers in Oregon and provides a clear vision for the development of Oregon AgrAbility. The ability of the Project to complete the proposed objectives is supported by letters of support from key collaborators (see Other Attachments).

1. State and Regional AgrAbility Projects

(A) Introduction (30 points)

- Justify the need for the project clearly and concisely by describing its magnitude and scope.

The United States Department of Agriculture and Oregon Department of Agriculture (ODA, 2011) report that agricultural production in Oregon increased 24% between 2010-2011, to a record high of $5.3 billion. Oregon’s agricultural base is extremely diverse, with more than 250 economically viable agricultural commodities produced in the state. An estimated 38,300 farms in Oregon that employ 33,000 to 46,000 permanent workers (ODA, 2011). Furthermore, approximately 1 in 12 Oregon jobs (140,000) are tied to agricultural, with about 60,000 of these jobs located on farms (ODA, 2011). Finally, the USDA estimates an additional 95,000 seasonal workers support farm production in Oregon.

- Provide current baseline data including incidence of injuries and disease in the farming population. For all estimates included, explain and substantiate any assumptions made.
The incidence of injuries and disability among the farming population in Oregon was 22% higher than the national average in 2009, according to the Department of Consumer and Business Services. The risk is emphasized by the fact that the Oregon Farm Bureau (OFB, 2011) reports farming as the 8th most hazardous livelihood, with 28 deaths annually for every 100,000 workers. However, these figures do not account for injuries sustained outside of work such as motor vehicle accidents or falls, in addition to other health conditions, such as arthritis, respiratory, cardiovascular, hearing impairments or mental health concerns (Hart, 2011). Furthermore, the stated rate of disability does not account for injuries or illnesses that go unreported, on or off the farm. In addition, based on the most current census of agriculture data, the average age of agricultural workers in Oregon is 58 years (USDA Census of Agriculture, 2007). As the current population of adults over 65 is expected to triple in the United States by 2030, there will be an increase in the number of aging farmers, who are at a greater risk of experiencing chronic conditions such as diabetes, pain, and osteoarthritis, as well as degenerative changes in vision and hearing. This issue is compounded by the fact that the typical process of aging also places older farmers at greater risk for injury. Based on the figures noted above, excluding seasonal farm workers, and assuming a conservative estimate of 30% injury or illness rate, Oregon has approximately 13,000 permanent agricultural workers who have experienced an impediment to farming. However, the culture of agriculture indicates that farmers rarely report days away from work, job transfers, or restriction rates until injury or illness is extreme.

- Review current related programs concentrating on limitations this application intends to address.

There are two main limitations that this application will address including (1) lack of a structured, coordinated effort to meet the needs of farmers with a disability, and (2) geographic restrictions due to the rural nature of Oregon. Limitation (1) is a result of the fact that there is currently no comprehensive system in Oregon through which agricultural workers receive support for their unique needs following disability. Oregon State University (OSU) Cooperative Extension service and the Oregon Farm Bureau provide general information regarding safe agricultural production practices. National agencies, such as the Occupational Safety and Health Organization (OSHA), state agencies (ODA, OFB), and Oregon’s not-for-profit, state-chartered workers’ compensation insurance company, SAIF, each address disability prevention. However, these programs do not provide a strategically coordinated effort towards education, networking, direct assistance, or marketing. Furthermore, Goodwill Industries provides job retraining and career services, but does not provide on-farm assessments and has not developed an expertise in serving the agricultural community. The Pacific University Schools of Occupational and Physical Therapy provide some educational and direct services to farmers and farm workers, through faculty-led community projects, but does not have the resources to address the needs of farmers with a disability on a state level. One Oregon State Department of Vocational Rehabilitation (OVRS) office has sought the support of Pacific University to provide individual on-farm assessments, but knowledge of these limited services is restricted to two branch offices due to a lack of resources. Unfortunately, this patchwork of support services has
no means to engage collaboratively to benefit Oregon farmers, emphasizing the important role the Oregon AgrAbility Project can play in the state.

The second major limitation is geographic distance, which is a key barrier for health care access in Oregon for all rural residents, including farmers with a disability. Oregon is the 10th largest state in the nation, with an area of nearly 100,000 square miles, and Oregon reports higher rates of disability in the rural population (16.0%) compared to the state average (13.3%) (Dill, Neal, Delahanty, Jacobson & Lund, 2010; Erickson, Lee & Schrader, 2010). The mean travel time to the nearest hospital in a rural area has been estimated at 24 minutes (Oregon Health Science University, 2013), and public transportation is sparse in rural areas, further complicating access. A recent study conducted at Portland State University, found that only 7% of the rural population was served by fixed-route transit while another 22% were served by “demand response” service (Dill et al., 2010). These limited transit options further restrict access to health care or employment assistance. High rates of disability, geographic distance, limited public transportation, and restricted access serve as barriers to support services for agricultural workers. The proposed Oregon AgrAbility Project will address these limitations by creating a structured system to serve farmers with a disability that is accessible to farmers in all areas of the state.

- **Justify the applicants’ ability to provide these services by detailing the applicants’ accomplishments from similar projects.**

Collectively, the applicants have extensive experience in education, network development, marketing, grant administration, and direct service. They have a wide-ranging network of disability and agricultural contacts, and have demonstrated skills in serving these populations. The key partners (OSU, Pacific, Goodwill) have demonstrated a high level of commitment to the Oregon AgrAbility Project since its inception in the fall of 2008 (Juhasz and Scanlon, 2010), and are committed to continuing their respective roles in support of a SRAP.

- **Oregon State University** is the land-grant university in the Oregon AgrAbility Project partnership. It has a lengthy and distinguished history of providing teaching, research, and extension to the citizens of Oregon. OSU Cooperative Extension Service offers programs serving the problem solving, leadership development, and resource management needs of diverse populations throughout the state (College of Agricultural Sciences, n.d.). OSU Extension Service includes an Extension and Experiment Station Communications (EESC) unit that is recognized nationally for innovation in information delivery. EESC explores and adopts information delivery formats that best utilize the capabilities of the internet and serve trends in information seeking among the US populace.

- **Project Director William Braunworth** is Program Leader for the OSU Extension Agriculture and Natural Resources Program. His experience includes significant applied agronomy and management of the large and complex statewide delivery of services by Extension Agriculture field faculty.

- **Co-Project Director Simon Driver**, in the School of Biological and Population Health
Sciences, has for 13 years conducted research focused on improving the health of individuals with disabilities. He is Director of the Health Promotion for People with Disabilities lab at OSU. He is in current collaboration with OVRS. This collaboration, funded through the National Institute of Occupational Safety and Health, involves developing and disseminating an 8-week online wellness program to help persons with disabilities return to the workplace. He has extensive experience in community-based participatory research and is co-Director of two training grants that prepare allied health professionals to meet the needs of individuals with disabilities. He has created and teaches online courses in disability and health promotion.

- Project Manager Linda Brewer provides project management for diverse projects in the Department of Horticulture, the College of Agricultural Sciences, and the Agricultural Sciences and Natural Resources Extension Program.

- Pacific University is a private institution with a mission to provide community service to the underserved. Nancy Krusen, School of Occupational Therapy, is an educator and practitioner who has provided continuing education services for AgrAbility, on-farm assessments, and administered AgrAbility grant funding for educational outreach. Under her guidance, graduate students from the School have contributed more than 700 hours of unpaid service since January 2010 towards the development of an Oregon SRAP.

- Goodwill Industries of Southern Oregon non-profit partner Betty Welden is Vice-President of Mission Services at Goodwill Industries of Southern Oregon. She establishes community partnerships to assist individuals with barriers to employment through networking, marketing and direct service. Goodwill has an established system for marketing, networking, and direct service to farmers with a disability (Olson, 2009). Goodwill lacks an agricultural orientation per se, but has strong connections with community stakeholders and works with people with disabilities to prepare them for employment. Goodwill’s commitment to meeting the employment needs of persons with disabilities defines its scope of service.

- Access Technologies, Inc (ATI, n.d.) is a non-profit organization, specializing in ergonomics and assistive technology. ATI provides resources and consults with persons with disabilities. ATI administers Oregon’s statewide Assistive Technology Program through a team of certified assistive technology specialists. ATI will serve as a “silent” partner in the Oregon AgrAbility Project and will consult in cases where assistive technology is indicated. ATI provides a device loan library, training and technical assistance, assistive technology, financing resources, device demonstrations, device repair/exchange, and regular newsletter publications.

- Oregon Office of Vocational and Rehabilitation Services (OVRS, n.d) is part of the Department of Human Services and a statewide resource for people with disabilities. OVRS will serve as a “silent” partner and contribute through networking and education for vocational rehabilitation counselors and for farmers and ranchers. OVRS offers individualized services, ensuring that each eligible client receives those services essential to employment success. OVRS has sought support beyond Oregon to serve Oregon agricultural workers, as those services have been otherwise unavailable.
• Describe the stakeholders’ role in defining the application’s scope and their future role in project planning.

All project staff are committed to work directly with stakeholders (farmers with a disability and community resources) to coordinate efforts and fully address their unique needs. **Specific objectives have been identified throughout the project to provide stakeholders with a voice in defining the scope and future of the project.** For example, Objective A1 (see page 8) involves conducting community-based participatory research (e.g., focus groups, interviews) to identify the needs of stakeholders and Objective A2 will address those needs by creating and disseminating resources using different forms of media (e.g., informational flyers, online learning modules, webpage, online social support groups) based on stakeholder feedback. In general, **to ensure that the Project is effectively meeting the needs of stakeholders, the project staff has built feedback mechanisms into every Objective** so that quantitative (e.g., post assessment survey, annual evaluation form) and qualitative (e.g., interviews, focus groups) information is collected. Based on the feedback and data, the Project staff will be able to effectively modify the program and services delivered to meet the stakeholder’s needs.

In addition, Oregon AgrAbility plans to interact with other SRAP’s in the near vicinity (e.g., California, Utah, Wyoming, Colorado) to host regional AgrAbility workshops and farm assessor training sessions. Providing additional training workshops within the region in partnership with other SRAP’s would allow opportunities for education about the program, as well as networking, and provide necessary training to interested parties without their having to travel great distances. This will be of benefit to the clientele because additional farm assessors and AgrAbility partners would ideally become involved, which would help ensure that maximum farmers and ranchers with a disability in the region would receive the services they need, but currently cannot access. Workshops and training sessions would involve additional people and improve program sustainability. A detailed description of the planning process and program implementation can be found in the Objectives, Project Plan and Timeline section (see Logic Model, page 22).

• Detail the justification and/or reason for selection of the non-profit disability partner.

Goodwill Industries is broadly recognized throughout Oregon. Their reputation for outreach, service and education will strengthen the Oregon AgrAbility Project and engender trust and networking among communities who perhaps do not interact with institutions of higher education. Goodwill’s experience in meeting the training needs of communities places them as a key partner in the sustainable Oregon AgrAbility Project. Goodwill Industries’ mission of service to unemployed and persons with disabilities is a parallel with the missions of OSU Extension Service and Pacific University, creating a good fit for partnership in education, direct service, networking and marketing.

Additional non-profit “silent partners” include ATI and OVRS, who will provide invaluable assistance and information regarding modified equipment and services available to farmers with a disability.
Applicants proposing a SRAP that was not previously funded or funded greater than 5 years ago should include:

- A description of planning steps taken to formulate the project (i.e., discussions with funded SRAPs, NAP, stakeholders, etc.);

<table>
<thead>
<tr>
<th>Planning Steps Taken to Formulate the Project in 2008</th>
</tr>
</thead>
<tbody>
<tr>
<td>A new faculty member at Pacific identified the need for Oregon to develop an AgrAbility project. Goodwill targeted Oregon as a state in which to support development of an AgrAbility SRAP. Needs assessment was initiated.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Planning Steps in 2009</th>
</tr>
</thead>
<tbody>
<tr>
<td>Representatives from Pacific and Goodwill met at the National AgrAbility Workshop and initiated discussion with the National AgrAbility Project. A Pacific faculty member attended farm assessment training at Colorado State University. Pacific faculty contacted potential partners in Oregon. Representatives from OSU, Pacific, Goodwill, ATI and OVRS began to meet regularly to plan a SRAP. Needs assessment continued.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Planning Steps in 2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>A strategic plan, logic model, and a strength, weakness, opportunity, threat analysis were completed. The first graduate students began working on the project. Goodwill provided a stipend for student training at the National AgrAbility Workshop (this graduate is now a farm assessor in Oregon.) For education, networking, and marketing Pacific faculty received faculty development grant funding for the Northwest AgrAbility Workshop. Attendees were surveyed to incorporate feedback.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Planning Steps in 2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steps continue according to the strategic plan and logic model. For education, networking and marketing, the partnership developed and provided the Northwest AgrAbility Workshop at OSU in Corvallis, Oregon, with participants from seven states, and including site visits to demonstration farms. Pacific presented AgrAbility at state professional conferences in Oregon and Washington. The partnership submitted a proposal for the USDA RFA. For direct service, the first on-farm assessments were provided. Additional graduate students continued work on the SRAP.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Planning Steps in 2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steps continue according to the strategic plan and logic model. For education, networking, and marketing Pacific faculty received faculty development grant funding “Oregon AgrAbility Community Outreach” for regional workshops. Direct service in the form of on-farm assessments was provided. Graduate students continue work on the project, and educational brochures were created.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Planning Steps in 2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steps continue according to the strategic plan and logic model. For education, networking, and marketing, Pacific presents AgrAbility at the OSU Small Farms conference. Attendees were surveyed to incorporate feedback into project. For direct service, the first on-farm assessments were provided. Additional graduate students continued work on the SRAP. The partners have revised the strategic plan to include new people and alternative solutions for goals.</td>
</tr>
</tbody>
</table>
- A narrative indicating how the SRAP will meet the needs of the population described earlier in the project justification.

The Oregon AgrAbility Project will provide a coordinated, structured, and accessible system to meet the needs of farmers with a disability in all areas of the state. The project is organized to achieve specific objectives in education, networking, assistance, and marketing for farmers with a disability. The project will provide a variety of educational resources for farmers by using static (e.g., flyers, workbooks) and interactive media (e.g., website, video, learning modules) that can be distributed to all areas of the state. In addition, through a wide-reaching systematic approach, the project will formalize (1) provision of direct assistance to farmers with a disability, (2) making recommendations for modification of routines and environments, and (3) provision of assistive devices in collaboration with other support services (e.g., ATI, OVRS). Currently, the Oregon AgrAbility Project is providing limited support to farmers with a disability through on-farm assessment as an unfunded additional responsibility assumed by Dr. Nancy Krusen at Pacific University. This direct assistance is limited by a lack of financial support, time, and limited personnel. Therefore, the Oregon AgrAbility Project will meet the needs of farmers with a disability by broadening human resources, establishing the means to create financial sustainability, increasing networking and community outreach, developing an infrastructure for on-site farm assessments, and formalizing a marketing plan.

(B) Objectives, Project Plan and Timeline (35 points)

The project plan describes in detail how the Oregon AgrAbility Project will provide a wide range of innovative services to farmers, ranchers, and other agricultural workers with disabilities. As there is currently not an AgrAbility program in the Pacific Northwest (Oregon, Washington, Montana, Nevada, Alaska), the focus of the project plan will be to build service capacity for Oregon AgrAbility SRAP, and to model best practices for the region.

The primary objectives of the Oregon AgrAbility Project aim to broaden human resources, establish the means to create financial sustainability, increase networking and community outreach, develop an infrastructure for on-site farm assessments, and formalize a marketing plan. For each of the priority areas we have listed our objectives; targeted completion year; the personnel responsible with lead staff member first; expected outcomes; and outcome measures. A detailed timeline of activities is provided in Table 1: Timeline of Proposed Activities (page 20). An overview of the projects inputs, activities, and outcomes is available in the Oregon AgrAbility Logic Model (page 22).

EDUCATION

Objective A1: Use community-based participatory research (CBPR) methods to understand the unique needs of farmers with a disability in Oregon. Working in equal partnership with farmers with a disability and community resources will ensure the project meets unique community needs and produces measurable outcomes. The project researcher has extensive experience with CBPR and will work with the
community to identify their needs, ensure that research is incorporated meaningfully, time is allowed for reflection, and will facilitate meaningful action. Specifically, we will meet the objective by completing interviews and focus groups with key stakeholders in Oregon throughout the project to:

a. Complete a needs assessment to reveal the characteristics of farmers with a disability including their knowledge of resources, common problems, issues, interests, goals, media preferences, and skills. Year 1. Staff: Driver, Brewer, Braunworth, Goodwill Industries.

b. Ensure the media resources developed (see A2 for more detail) based on the findings of the needs assessment address the characteristics of farmers with a disability. Year 1 and ongoing. Staff: Driver, Brewer, Braunworth, Goodwill Industries.

c. Determine how the project’s objectives are meeting the unique needs of farmers with a disability and improving their quality of life. Year 2-4. Staff: Driver, Brewer.

**Expected outcomes and outcome measures Objective A1:**

- **Expected outcome:** Farmers with a disability will have a direct role in developing the resources available through the Oregon AgrAbility project, and will perceive ownership of the efforts. **Outcome measure:** Surveys and focus groups/interviews will be used to determine the stakeholder’s satisfaction with their role in the CBPR process. The number of resources made available through the Oregon AgrAbility program will be cross-referenced with the interview and focus group data to identify the number of resources stemming directly from stakeholder feedback.

- **Expected outcome:** A series of media resources that have been developed to meet the unique needs of farmers with a disability. **Outcome measure:** Feedback from stakeholders using a standardized rating form of content, usability, accessibility, and layout.

- **Expected outcome:** Evidence of the effectiveness of the resources developed for farmers with a disability, including measurable increase in resource awareness, knowledge of content, and tracking of the numbers and origins of downloads or requests for non-electronic outputs. **Outcome measure:** Qualitative feedback from consumers at workshops, annual surveys completed by farmers with a disability, and website usage.

**Objective A2: Develop a media presence for Oregon AgrAbility using innovative methods and disseminate findings through eXtension.** A media presence for Oregon AgrAbility will ensure consumers and community resources are made aware of the project and resources available to them. A variety of media resources will be developed and made available through the Oregon AgrAbility website and eXtension. eXtension will assist us in awareness among agricultural producers and professionals of resources developed by the project. eXtension provides webinar support, and provides national to peers involved in serving farmers with disabilities. All resources will be based on the findings from the needs assessment described in Objective A1. Project staff will work closely with EESC to create media resources and to ensure all materials are fully accessible and comply with the latest Web Content Accessibility Guidelines (www.w3.org/TR/WCAG20). Oregon State University’s EESC specializes in developing online learning modules and objects by using a variety of media platforms. Funds have
been budgeted for the development of these resources. Project staff will work with EESC and eXtension to disseminate findings and resources. The following activities will allow us to meet this objective:

a. Develop and maintain the Oregon AgrAbility website that will host the project resources. Year 1-4. **Staff:** Driver, EESC.

b. Create learning resources including static (e.g. pdf) materials based on findings from Objective A1. Content may include diagnosis, avoiding secondary injury, modified equipment, health, and workplace safety. Year 1-4. **Staff:** Driver, EESC, eXtension, farm assessors, Goodwill Industries.

c. Create learning resources including interactive (e.g., web-based, video, social media, podcasts, webinar) materials based on the findings from Objective A1. New technology provides an opportunity to create new training options while ensuring that late adopters can access information in static formats. The content may include information on diagnosis, avoiding secondary injury, modified equipment, health, and workplace safety. Year 1-4. **Staff:** Driver, Brewer, EESC, eXtension, farm assessors, Goodwill Industries.

**Expected outcomes and outcome measures Objective A2:**

- **Expected outcome:** The project website will be accessible, available, and used by farmers with a disability and community resources. **Outcome measure:** Track usage of the website (e.g., number of visits, length of time on site, number of downloads), results of satisfaction survey available on website, and demand for AgrAbility services (e.g., number of referrals, requests for service).

- **Expected outcome:** Development of a variety of static and interactive resources to meet the unique needs of farmers with a disability. **Outcome measure:** Online evaluations and satisfaction surveys will be completed through the website, as well as tracking the number of times a resource is utilized online.

**Objective A3: Conduct training for Professionals/Farm Assessors.** We will provide workshops to train farm assessors. Training will include hands-on activities to complete on-site assessments, identification of appropriate equipment, and provision of support so that farm assessors are capable of meeting farmer and rancher needs. Specifically, we will reach this objective by providing three training workshops for on-farm assessors in year 1 followed by one refresher workshop in each of years 2-4 to train farm assessors to:

a. Conduct and refine on-site farm assessments, select resources, select farm and assistive devices, address diagnosis-specific intervention, avoid secondary injuries, and develop peer networks. Year 1-4. **Staff:** Farm assessor trainer, Goodwill Industries, Brewer, Krusen, recruited farm assessors.

**Expected outcomes and outcome measures Objective A3:**

- **Expected outcome:** On-farm assessors will have increased competence in farm assessment. **Outcome measure:** Completion of mock case post-training according to instructor-defined standards through use of a rubric.
• **Expected outcome:** Assessors will have greater working knowledge of resources, modified farm equipment, peer networks available, and means of locating diagnosis-specific supports. **Outcome measure:** Post-workshop survey to assess the ability of professionals to identify state resources for model cases, correctly identify selections from available options, identify appropriate support networks, and identify the supports and educational tools related to the diagnosis.

**Objective A4: Conduct training for customers/clients and community service resource personnel.** The goal of this objective is to create a culture of understanding between project personnel and service consumers in Oregon about the needs of farm workers with a disability. We view the training in Objectives A3-4 as a long-term investment for the state of Oregon so we have a cadre of allied health professionals who are sensitive and able to meet the unique needs of farmers with a disability. We will provide training workshops throughout Oregon to educate potential AgrAbility customers and community service personnel about the services provided. Community resource personnel may include staffs of OFB, ODA, SAIF, OVRS, health care providers, third party insurers, commodity-specific organizations, rehabilitation counselors, or farm equipment vendors. Consumers and community personnel will have increased awareness and knowledge of the services available through this program. Training workshops will coincide in timing and content with Objective A3. We will reach this objective by providing two annual workshops that will rotate around the state, to enable customers, clients and community service resource personnel to:

  a. Demonstrate an awareness of the Oregon AgrAbility Project and its services, an awareness of on-farm assessments and potential resources and equipment (e.g., farm and assistive devices). Participants will demonstrate awareness of the importance of secondary injury avoidance, and develop peer and resource networks. Year 1-4. **Staff:** Braunworth, Brewer, Driver, EESC, farm assessors, Goodwill.

**Expected outcomes and outcome measures Objective A4:**

• **Expected outcomes:** Consumers and community resource personnel will have an increased working knowledge of (1) Oregon AgrAbility services, (2) available resources, (3) potential modifications to farm equipment, (4) understanding of the importance of peer and community networks, and (5) ability to locate diagnosis-specific supports. **Outcome measures:** Post-workshop evaluation to assess these outcomes.

**NETWORKING**

**Objective B1: Establish a peer-to-peer support network.** Geographic obstacles and limited personal resources and services in rural areas drive a need for individuals to connect and provide support to others. We will create a consistent, systematic approach to peer support and build upon the natural tendency for farmers and ranchers to support each other. Specifically, we will establish a peer-to-peer support network by:
a. Working with farm assessors, Goodwill Industries and other community resources to identify and establish formal and informal peer communities. Year 1. **Staff**: Brewer, farm assessors, Goodwill Industries.
b. Encouraging farmers with a disability, community members, and current and past AgrAbility customers to serve as a peer mentor. Year 2-4. **Staff**: Brewer, farm assessors, Goodwill Industries.
c. Creating and disseminating a bi-annual “Farmer-to-Farmer” newsletter on peer support, resources, and caregivers. Each issue will showcase a “Farmer to Farmer” success story. Year 2-4. **Staff**: Brewer, Driver, farm assessors, Goodwill Industries.
d. Establishing an “iSupport Farmers” section on the Oregon AgrAbility website that allows farmers with a disability to post and respond to questions and establish contact with peers. Year 2-4. **Staff**: Driver, EESC, Brewer, farm assessors.
e. Scheduling a quarterly video conference call that connects individuals in remote areas for face-to-face discussion, peer support, resources, and caregiver support. Meetings will be archived and made available on the website. Year 2-4. **Staff**: Driver, EESC, Brewer, farm assessors.

**Expected outcomes and outcome measures Objective B1:**

- **Expected outcomes**: An increase in the number and quality of peer support opportunities. **Outcome measure**: We will track participation in “iSupport Farmers” portal and video conference calls; we will receive feedback through annual surveys and quarterly web-forms.
- **Expected outcomes**: An increase in the number and quality of established peer-to-peer relationships will be developed. **Outcome measure**: Number of peer-to-peer relationships established and participant satisfaction with the support – collected annually through a mailed survey.

**Objective B2: Develop a network of community resources to meet the needs of farmers with a disability.** Oregon State and Pacific Universities, Goodwill Industries, ATI, and OVRS have an established partnership. Since the Northwest AgrAbility Workshop in February 2011, additional contacts have indicated an interest in an Oregon AgrAbility Project. We have the key players in place to develop a network of community resources, and to build awareness among a cadre of interested, knowledgeable, and qualified allied health professionals to serve farmers and ranchers with disabilities. Creating a culture of recognition and understanding among professionals is a long-term investment for farmers with disabilities. The objective will be achieved by:

a. Identifying relevant community resources throughout the state of Oregon and adding willing members to a database of services. Year 1-4. **Staff**: Brewer, Krusen, farm assessors, Goodwill Industries.
b. Directing community resources to the AgrAbility website, inviting groups to attend the training sessions and workshops (see Objective A3-4), encouraging participation in the peer-to-peer network (see objective B1), and identifying opportunities to provide presentations about Oregon AgrAbility. Year 1-4. **Staff**: Brewer, Krusen, farm assessors, Goodwill Industries.
c. Establishing a listerv for community members and encouraging groups to join. The listerv will be a vehicle for sharing information about community resources, workshops, training opportunities and more. Year 2-4. **Staff:** Brewer, Driver, Farm Assessors, Goodwill Industries.

**Expected outcomes and outcome measures Objective B2:**
- *Expected outcome:* A diverse and comprehensive resource for farmers with a disability and community agencies to use. *Outcome measures:* Number of contacts in the listserv and resources in the database.
- *Expected outcome:* An increase in support provided by community resources to farmers with a disability. *Outcome measures:* Number of in-service trainings provided, qualitative feedback provided during in-services, and annual survey results garnered from participants on the listerv.

**Objective B3: Presentations by project staff and graduate students at professional conferences.** Disseminate information and evidence-based findings from the Oregon AgrAbility Project to fellow professionals. Regular presentations will ensure evidence-based practices are disseminated in addition to connecting farm assessors with professionals who provide services to farmers with disabilities.

- **a.** Identify and submit proposals to three state or regional conferences and one national or international conference. Year 1-4. **Staff:** Braunworth, Driver, Krusen, Brewer, farm assessors, Goodwill Industries.

**Expected outcomes and outcome measures Objective B3:**
- *Expected outcome:* Increased dissemination of evidence-based practices and increased awareness of Oregon AgrAbility. *Outcome measures:* Number of presentations made, feedback during presentations, the number of contacts added to the listserv at presentations, and requests for information from presentation attendees.

**Objective B4: Presentations at public venues/agriculture-related events.** Disseminate information and evidence-based findings from the Oregon AgrAbility Project to stakeholders and community resources. Booths and informational tables at agriculture-related community events would enable Oregon AgrAbility to network with professionals and possible clients-customers throughout the state. This objective would be achieved by:

- **a.** Providing an informational booth at each Oregon county fair. We will partner with community groups such as 4H clubs and Oregon Women in Agriculture at these events. These groups have established volunteer bases serving the organization. We will collaborate by some costs of these efforts. The project will benefit from the presence of volunteers, strong community members, who will disseminate project information and awareness. Year 1-4. **Staff:** Braunworth, Brewer, farm assessor.

- **b.** Attending 5 public agricultural events annually including events through 4-H, FFA, county fairs, and community gardens. Visits may coordinate with scheduled regional workshops and in-services (see Objective A3-4). Year 1-
4. **Staff**: Braunworth, Brewer, farm assessor.

c. Arranging participation in agriculture-related events. Year 1-4. **Staff**: Braunworth, Brewer, farm assessor.

**Expected outcome and outcome measures Objective B4:**

- **Expected outcome**: Increased dissemination of information about Oregon AgrAbility and evidence-based practice for farmers with a disability and community resources. **Outcome measures**: Number of community events at which the project is represented; feedback, requests for information, number of contacts added to the listserv as a result of these activities.
- **Expected outcome**: Increased awareness among farmers with a disability and community resource providers. **Outcome measures**: Results from a survey completed at the agricultural event by participants.

**ASSISTANCE**

**Objective C1: Hire staff to serve as farm assessors in the field.** The hiring of part time farm assessors will support seamless development of the Oregon AgrAbility Project from current project staff and graduate OT students at Pacific University who have carried this effort on a volunteer basis for five years. Farm assessors will provide a public face for Oregon AgrAbility at workshops, training sessions, and will serve as a direct point of contact to services for farmers with a disability. Farmer assessors will also facilitate the initiation of services, conduct on-site farm assessments, assist with product selection advice, make accessibility and ergonomic advice, and conduct follow-up sessions with farmers with a disability. Specifically, we will reach this objective by:

a. Defining the farm assessors’ duties and formalizing the job descriptions for part-time OSU Extension and Goodwill farm assessors. Year 1. **Staff**: Farm assessors, Brewer, Krusen, Driver, Goodwill Industries.

b. Advertising the position, interviewing candidates, and hiring the farm assessors. A geographic and skill mix of farm assessors will best support the needs of farmers with a disability in different regions of Oregon. Year 1. **Staff**: Farm assessors, Brewer, Krusen, Driver.

c. Conduct staff training so farm assessors are able to deliver the workshops and training for farmers with a disability, community resources, and interns (see Objectives A3-5). Year 1-4. **Staff**: Farm assessors, training consultant, Brewer, Krusen, Braunworth, Goodwill Industries.

d. Conduct individual farm assessor evaluations with recommendations for performance and service changes. Year 2-4. **Staff**: Farm assessors, Krusen, Braunworth, Driver, Goodwill Industries.

**Expected outcomes and outcome measures Objective C1:**

- **Expected outcomes**: The job description will be posted and the positions successfully filled. **Outcome measures**: Visibility of job postings and position filled
within 3 months of project initiation date.

- **Expected Outcome**: There will be coordinated service provision among farm assessors to meet the needs of farmers with a disability in Oregon. **Outcome measure**: Survey completed after service provision indicating whether the farm assessor contacted farmers with a disability within 48 hours of receipt of referral.

**Objective C2: Implement infrastructure for providing assistance.** To meet the needs of farmers with disabilities it is critical for the Oregon AgrAbility Project to have a process of referral/identification of need, assessment, intervention, and follow-up evaluation of outcomes for direct and consultative services. This objective will be achieved by:

a. Identifying successful referral processes utilized by existing SRAP’s (e.g., Krusen has collaborated with the Colorado AgrAbility Project) and the NAP. Year 1. Staff: Krusen, Brewer, farm assessors, Goodwill Industries.

b. Implementing the referral/intervention process to include points of entry that may include but not be limited to: the Oregon AgrAbility website, email, telephone, and in-person conversations. Year 1. Staff: Krusen, Brewer, Driver, farm assessors, Goodwill Industries.

c. Evaluating and modifying the means by which customers/clients move through the process of referral/identification of need, assessment, intervention, and evaluation of outcomes. Year 2-4. Staff: Krusen, Driver, Brewer, farm assessors, Goodwill Industries.

**Expected outcomes and outcome measures Objective C2:**

- **Expected outcome**: An increased number of customers to whom service is provided. **Outcome measures**: Number of farmers with disabilities served each year, percentage of new farmers served each year, mailed survey to determine the farmer’s satisfaction with service received.

- **Expected outcome**: A reduced wait before services for farmers with a disability are initiated by regional OSU and Goodwill farm assessors. **Outcome measures**: Bi-annual examination of data determining the time between the initial farm assessment and the delivery of the required service (time, percentage change). Ongoing conversation with the farm assessors to streamline the process further.

**Objective C3: Conduct on-site farm assessments to increase the quality of life of farmers with a disability.** A critical part of the Oregon AgrAbility Project will be to provide on-site assessments to assist farmers with a disability about product selection, accessibility and ergonomic recommendations, life activities and farm operations planning guidance, and advocacy to obtain service and financial aid. By actualizing the process outlined in Objective C2, project staff will identify consumer needs through on-farm assessment (methods established by the NAP), formulating recommendations for intervention, implement changes, seek needed additional resources, and evaluate outcomes. We will reach this objective by:
a. Using a “train-the-trainer” model to train farm assessors to conduct on-site assessments described in Objective A3. Experienced trainers will train new farm assessors. Year 1-2. Staff: Training consultant, Farmer assessors, Krusen.

b. Ensuring project farm assessors collectively conduct 96 on-site farm assessments by Year 4 of the Project. Staff: Farm assessors, Goodwill Industries, Driver, Brewer. We estimate that the OSU on-farm assessors (total 0.6 FTE) will conduct 12 assessments in years 1 and 2, and 24 in years 3 and 4 for 72 assessments. Goodwill on-farm assessor (0.2 FTE) will conduct 4 assessments in years 1 and 2, and 8 in years 3 and 4 for 24 assessments. Assessments from this project will total 96 for the four year funded period.

c. Evaluating the impact of the assessment for farmers with a disability. Additional follow-ups may include site-visit, telephone, electronic mail, or mail. Year 1-4. Staff: Driver, Krusen, Brewer, farm assessors, Goodwill Industries.

d. Ensuring that farmers with a disability receive the assistive technology needed by the AgrAbility project or OVRS. Staff: Farm assessors, Goodwill Industries, Krusen.

**Expected outcomes and outcome measures Objective C3:**

- **Expected outcome:** An annual increase in the numbers of customers to whom service is provided. **Outcome measure:** Bi-annual examination of data to determine the percentage increase in the number of assessments completed.

- **Expected outcome:** Customers are highly satisfied with service provided. **Outcome measures:** Customer satisfaction survey mailed to customer’s post service.

- **Expected outcome:** Farmers will experience an increased quality of life after service delivery. **Outcome measure:** The McGill Quality of Life tool will be administered post assessment as a survey.

- **Expected outcome:** Farmers will receive the assistive technology required to remain productive and healthy. **Outcome measure:** Bi-annually the OSU business office report the level of funding provided to Oregon AgrAbility by OVRS and the amount of dollars of assistive technology provided to farmers with a disability served through Oregon AgrAbility.

- **Expected outcome:** The project will become increasingly sustainable across the life of the project. **Outcome measure:** Annually calculate OVRS reimbursement generated by case closures.

**Objective C4: Direct farmers with a disability to the NAP Toll-free Helpline.** In addition to the Oregon AgrAbility website, farmers with a disability will be able to contact the NAP through a toll-free number. The Helpline will be a means for customers to receive direct assistance. This objective will be achieved by:

a. Directing customers to the NAP Toll-free number (e.g., provide number on Oregon AgrAbility website, media developed, through non-profit collaborators) Year 1-4. Staff: Farm assessors, Goodwill Industries, Driver, EESC.

b. Respond to requests from farmers submitted by the NAP in a timely manner. Year 1-4. Staff: Farm assessors, Goodwill Industries, Driver, Brewer.

**Expected outcome and outcome measures Objective C4:**
• **Expected outcome**: Customers will be provided with assistance. **Outcome measures**: Annual analysis of requests made by NAP to Oregon AgrAbility and the number of subsequent follow-ups to customers.

**Objective C5: Assist with graduate student service-learning and research projects.** We propose to make a long-term investment in future allied health professionals. Graduate students from the College of Public Health and Human Sciences at Oregon State University will work on projects annually to address the needs of farmers with a disability. Simon Driver is currently co-director on a leadership-training grant from the Office of Special Education that will graduate 7 doctoral students over a 4-5 year period who will be taking courses in disability and health promotion within the College of Public Health. This objective will be achieved by:

a. Project staff working with graduate students from the College of Public Health and Human Sciences (e.g., Department of Exercise Science, Occupational Health and Safety) to solve health and agricultural issues identified by farmers with a disability. Years 1-4. **Staff**: Driver, Goodwill Industries, farm assessors.

b. Submit a proposal to a federal (i.e., National Institute of Disability and Rehabilitation Research) or local agency (i.e., John C. Erkkila Endowment in Health and Human Performance for individuals in Oregon) to support major projects. Year 2-4. **Staff**: Driver, Goodwill Industries.

c. Submit manuscript and presentations to disseminate findings and best practices from Oregon AgrAbility. Year 2-4. **Staff**: Driver, Braunworth, Brewer.

**Expected outcomes and outcome measures Objective C5:**

• **Expected outcomes**: Meaningful agricultural and health interventions (e.g., behavioral, worksite and vocational, assistive/ergonomic) to address the needs of farmers with a disability. **Outcome measures**: The quality of the project will be assessed academically by OSU faculty and practically by the customer using a scoring rubric, by the implementation and usability of student projects, and by the acceptance of grants, manuscripts, or presentation proposals.

**MARKETING**

**Objective D1: Develop a short and long-term marketing plan.** A clearly delineated marketing plan supports the goals, strengths, and objectives of the project. Since the Oregon AgrAbility workshop was introduced in February, 2011, marketing efforts have focused on maintaining contact with interested parties and the people and agencies in attendance. However, a comprehensive marketing plan will define the expected and realized return on investment. This objective will be achieved by:

a. Working with Oregon AgrAbility partners, key stakeholders, and the OSU Office of Marketing and Media Relations to establish a detailed marketing plan to address the objectives of the Oregon AgrAbility Project (see objectives A1-4, B1-4, C4-5) and identify the strategies to be used (e.g., types of media – static or interactive – see objective A1-2 for description). Year 1. **Staff**: Braunworth, Driver, Brewer, EESC, farm assessors, non-profit partners.
b. Revise the marketing plan and make changes as required. Year 2-4. **Staff:** Braunworth, Driver, Brewer, EESC, farm assessors, non-profit partners.

c. Disseminate the materials identified in Objectives A1-4, B1-4, C4-5 to farmers with a disability and community resources. Year 1-4. **Staff:** Braunworth, Driver, EESC, farm assessors, non-profit partners.

**Expected outcomes and outcome measures Objective D1:**
- **Expected outcome:** A targeted and meaningful marketing plan to increase awareness about the Oregon AgrAbility Project. **Outcome measures:** OSU media services will monitor the dissemination of materials and provide a bi-annual report. Annual survey of farmers with a disability to identify which strategies where deemed most beneficial.
- **Expected outcome:** Greater awareness of how Oregon AgrAbility has improved the quality of life of farmers with a disability. **Outcome measure:** McGill Quality of Life tool administered through an annual survey.

**Objective D2: Create and disseminate an Oregon AgrAbility Project video.**
Farmers with a disability and community resource providers will require a clear overview of the objectives of the Oregon AgrAbility Project. This objective will be achieved by:

a. Working with EESC, farmers with a disability, and farm assessors to create a brief video (4-5 min) to be made available on the project website, distributed through eXtension, and shown at workshops (objective A3-4) or agricultural events (objective B4). Alternative materials will be developed for individuals with hearing or visual impairments. Year 1. **Staff:** Driver, EESC, Brewer, farm assessors.

**Expected outcomes and outcome measures Objective D2:**
- **Expected outcome:** Farmers with a disability and community resources will be clearly aware of the main objectives and services available through the Oregon AgrAbility Project. **Outcome measure:** Qualitative evaluation of the video based on input from farmers with a disability, community resources, project staff, and the EESC office.

**(C) Division of Labor (15 points)**

- **State Cooperative Extension Services and non-profit disability organization components may jointly or individually provide leadership for different objectives. Define the responsibilities of the respective organizations under each objective.**

  Over the past five years, the project staff has worked with stakeholders in Oregon to identify the major limitations and needs of farmers with disabilities. As a result, a four-year plan has been developed that utilizes the strengths of key project staff and partner. Thus, the staff and partners best equipped to execute the specific objectives are associated with each activity. Included in our project plan, beginning on page 7, we have detailed the responsibilities of
specific staff or partners for every objective. The partner primarily responsible for each objective is listed first within each category and will be responsible for reporting to the PD and co-PD. To utilize the collective strength and expertise of project staff, several objectives include the effort of multiple partners.

The overall management will be carried out by the PD (William Braunworth) and co-PD (Simon Driver), who will work closely with each project staff member and partner. The support staff of the project partners will report to their respective PDs. The ability of the project staff to meet the project objectives and timeline will be used to evaluate project staff.

- **Under each organization’s responsibilities, include time frames, personnel, and their roles.** Applicants may consult with SRAPs, the current NAP, or consumer advisory type groups in developing their cooperators’ role assignments.

A detailed timeline of the activities is available in Table 1 (page 20). Personnel and their specific roles include:

- **Project Director (PD), William Braunworth**, of OSU, will be responsible oversight and advisement. Dr. Braunworth will be the lead staff member on objectives A4, B3, B4, D1 and support member on A1, C1, and C5. His role will be limited to use of his good offices, experience, networks, and authority to promote project productivity.

- **Co-Project Director (PD) Simon Driver**, of OSU will be responsible for working directly with the non-profit partners and will coordinate with Cooperative Extension faculty and staff, Pacific University and OSVR and ATI. The co-PD will be responsible for development of education, networking, marketing, program evaluation and outcomes assessment. The co-PD will also be responsible for the research components of the project and will ensure that all research receives approval from the OSU IRB and is conducted in an ethical manner. Dr. Driver will be the lead staff member on objectives A1-2, B1, C5, D2 and support member on A4, B2-3, C1-4, and D1.

- **Project manager Linda Brewer**, of OSU, will be responsible for coordinating communication with researchers, establishing timelines, managing reports and annual documentation, and planning and coordinating meetings. She will enhance targeted networking for the non-Extension partners in the grant. Linda Brewer will be the lead staff member on objectives B1 and support member on A1-4, B2, B4, C1-5, D1-2.

- **On-farm assessors** will be responsible for worksite evaluation, recommendations for modifications, communication with funders and equipment providers, and follow-up for safe outcomes. On-farm assessors may be OSU Extension field faculty, Goodwill industry staff, vocational rehabilitation counselors, occupational or physical therapy practitioners, or assistive technologists. On-farm assessors must receive training specific to farm assessment. Farm assessors will be the lead on objectives C1, C3-4, and support member on A2-4, B1-4, C5, D1-2.

- **Nancy Krusen, PD at Pacific University**, will consult with on-farm assessors, researchers, contacts at other SRAP’s, and will participate in the annual on-farm
assessment training. Dr. Krusen will be the lead staff member on objectives C2 and support member on A3, B2-3, C1, and C3.

- **Sub awardee Goodwill Industries of Southern Oregon (PD Betty Welden)** will provide networking resources to the communities they serve, to farmers and ranchers with a disability, to other community service providers, and provision of one on-farm assessor. Goodwill Industries will be a support member on A1-4, B1-3, C1-5, and D1.

### (D) Management Plan (10 points)

- Provide an explanation of how the relationship between the institution and the non-profit disability partner will be managed. Describe the fiscal and administrative oversight provided by the institution and the non-profit disability partner.

Externally funded projects at OSU are managed within a department or academic unit. The PD Bill Braunworth is in the College of Agricultural Sciences, which will work with the OSU Office of Post-Award Administration to provide primary fiscal and administrative oversight. *All Oregon AgrAbility Project activities must comply with USDA and OSU policies and procedures, including employment practices and the protection of human subjects.* OSU has a long history of USDA funding, and is familiar with federal fiscal policies. Secondary fiscal and administrative oversight for Goodwill will be through the Southern Oregon Goodwill Industries Office of the Vice-President. Secondary fiscal and administrative oversight for Pacific University will be through the Research Center at Pacific University.

To date, the relationships between OSU, Pacific University and Goodwill Industries have been successfully managed through the use of electronic mail, a group Internet page (wiki), telephone, and regular partner meetings (e.g., in person and via Skype). These partners and project staff will continue these forms of communication to manage the objectives of the project. *The PD’s will be responsible for the overall management of the Oregon AgrAbility Project and will manage the roles, responsibilities, and expectations of all project staff and partners.* The PD's will work closely with project manager Linda Brewer throughout, who has extensive experience in grant and project management and communications. The PD's will coordinate biennial project staff and partner meetings among OSU, Pacific and Goodwill, in support of progress toward the project objectives and fiscal management. All partners will be required to provide quarterly reports detailing the services provided, and justification of expenses. This data will be used to formulate annual reports to USDA. If a partner fails to complete the required tasks and reporting activities in a timely manner, payments of claims may be delayed and the contract may be discontinued.

- Briefly explain the institution’s funds management strategy for funded projects. The funds management outlined in the Management Plan for AgrAbility must comply with all administrative and national policy requirements listed in PART VI, C. of this RFA.
Fiscal management will be provided through the OSU Post-Award Administration Office. Their mission is to provide quality post award administration and accounting for the OSU research community.

Table 1: Timeline of Proposed Activities

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<thead>
<tr>
<th>Objective and Specific Task</th>
<th>Year 1 Quarters</th>
<th>Year 2 Quarters</th>
<th>Year 3 Quarters</th>
<th>Year 4 Quarters</th>
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<tbody>
<tr>
<td>A. Education</td>
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<tr>
<td>A1. Community based participatory research with stakeholders</td>
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<tr>
<td>a. Complete needs assessment</td>
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<tr>
<td>b. Media developed for farmers</td>
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<td>c. Evaluate resources developed</td>
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<td>A2. Develop media presence for Oregon AgrAbility</td>
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<tr>
<td>a. Create/maintain website</td>
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<td>b. Create static resources</td>
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<td>c. Create interactive resources</td>
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<td>A3. Train Professionals/Farm Assessors</td>
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<tr>
<td>a. Annual workshops/courses</td>
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<td>A4. Train customers and community resources</td>
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<tr>
<td>a. Annual workshops for clients</td>
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<tr>
<td>B. Networking</td>
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<tr>
<td>B1. Establish peer-to-peer support network</td>
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<tr>
<td>a. Establish peer communities</td>
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<tr>
<td>b. Identify peer mentors</td>
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<td>c. Disseminate newsletter</td>
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<td>d. Establish ‘electronic’ support</td>
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<td>e. Conduct video meetings</td>
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<td>B2. Develop network of community resources to meet farmers needs</td>
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<td>a. Add resources to database</td>
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<td>b. Educate about OR AgrAbility</td>
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<td>c. Establish OR AgrAbility listerv</td>
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<td>B3. Presentations about OR AgrAbility at professional conferences</td>
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<td>a. Submit to state/national conf.</td>
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<td>B4. Presentations about OR AgrAbility at agriculture events</td>
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<td>a. Provide booth at county fairs</td>
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<td>b. Attend 5 agricultural events</td>
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<td>c. Arrange participation in events</td>
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<td>C. Assistance</td>
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<tr>
<td>C1. Hire farm assessors to serve in the field</td>
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</table>
### C1. Define duties/job description
- a. Define duties/job description
- b. Advertise and fill position
- c. Conduct staff training
- d. Evaluate farm assessors

### C2. Implement infrastructure for providing support
- a. Identify/design referral process
- b. Implement referral process
- c. Evaluate/modify process

### C3. Conduct on-site farm assessments to improve farmers quality of life
- a. Set-up train-the-trainer model
- b. Staff complete farm assessments
- c. Evaluate impact of assessment
- d. Assistive technology utilized

### C4. Direct farmers to the NAP Toll-free number for assistance
- a. Disseminate toll-free number
- b. Respond to requests from NAP

### C5. Assist with graduate student service learning and research
- a. Project staff work with students
- b. Submit research grant proposal
- c. Submit manuscript/presentation

### D. Marketing

#### D1. Develop short and long-term marketing strategy
- a. Establish plan and ID strategies
- b. Revise marketing plan
- c. Disseminate materials

#### D2. Create and disseminate OR AgrAbility video
- a. Create and disseminate video
**Problem Statement:** Support for farmers limited by (1) lack of a structured/coordinated services, (2) geographical issues.

**Long-term Goal = Improve QOL of Farmers with a Disability**

### Inputs
- **Land Grant University**
  - 2 Agriculture and 1 Disability faculty
  - 6 Extension faculty as farm assessors
  - Extension and Experiment Station Communications
  - eXtension
  - Graduate students

- **Pacific University**
  - 1 Occupational Therapy faculty

- **Non-Profit Partners**
  - Goodwill Industries: facilities, farm assessor
  - ATI and OVRS: resource and connection to farmers
  - NAP and other SRAPs
  - Serve as resource to establish referral system
  - Offer regional workshops
  - Research collaborator
  - Toll-free hotline

### Activities
- **Education**
  - Community based participatory research
  - Train farm assessors
  - Community workshops

- **Networking**
  - Establish peer-to-peer and community supports
  - OR AgrAbility community/professional presentations

- **Assistance**
  - Hire farm assessors
  - Establish infrastructure for on-site assessments
  - Conduct assessments
  - Graduate student research

- **Marketing**
  - Develop/implement short/long-term marketing plan
  - Create OR AgrAbility video

### Outputs
- **Education**
  - Resources developed e.g., online modules, website, iSupport, videoconference
  - Trained professionals

- **Networking**
  - Peer/community support provided to farmers
  - Evidence-based strategies disseminated for farmers

- **Assistance**
  - Coordinated service provided to farmers
  - Reduced wait for services
  - Greater # farmers served

- **Marketing**
  - Targeted plan to increase awareness of AgrAbility
  - Increased knowledge of how OR AgrAbility improves farmers QOL

### Outcomes
- **#1 Structured and coordinated system of service provision:**
  - Efficient referral system for farmers
  - Highly qualified team of farm assessors meeting needs of stakeholders
  - Farmers engaged in OR AgrAbility
  - Strong culture of understanding for farmers unique needs

- **#2 Geographical issues overcome:**
  - Increased community awareness and usage of OR AgrAbility
  - Innovative materials widely accessible and increasingly used by farmers
AgrAbility Oregon

Finding Solutions for Oregonians Farming with Injuries and Disabilities

If you or someone you know is having difficulties with farming due to illness or injury, please contact the National AgrAbility project for assistance.

http://agrability.org/contact-us/index.cfm
(800)-825-4624

For more information regarding AgrAbility in Oregon, please contact:

Nancy E. Krusen, PhD, OTR/L, nekrusen@pacificu.edu
(503) 352-7349

AgrAbility is a program for farmers and ranchers who have experienced injury or illness to support their continued lifestyles of agriculture production.

The AgrAbility Program provides:
- Education
- Marketing
- Assistance
- Networking

AgrAbility Partners Include:
Pacific University, Oregon State University, Goodwill Industries, Access Technologies & Oregon Department of Vocational Rehabilitation

AgrAbility
Cultivating Accessible Agriculture

Pacific University Oregon