

## IDAHO WHEAT COMMISSION PROPOSAL 2013-2014

**PROJECT NO:** New Project

**TITLE:** OnePlan Pesticide Application Recordkeeping and IPM Planner

**PERSONNEL:**

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**JUSTIFICATION:**

The OnePlan Pesticide Application Recordkeeping (PAR) program is a free online recordkeeping tool that helps producers, agronomists and applicators keep pesticide application and worker protection records/central posting requirements in an easy to use format. The program utilizes Google Maps as the base layer for all records. All recordkeeping is kept confidential through a secure login process. The OnePlan PAR was developed as a result of stakeholder input. A team of producers served as an advisory committee and product testers, with their feedback and appropriate program adjustments, the OnePlan PAR has been released for use. A survey of current users indicated that 88% found the program very useful to their business, with 79% indicating they increased their compliance with state and federal pesticide recordkeeping requirements and the worker protection program. Over 90% said they would recommend the PAR to a colleague.

We are now faced with programming upkeep and maintenance, along with new program features, in order to provide a long-term and useful pesticide/crop production recordkeeping tool for producers, agronomists and applicators.

**OBJECTIVES:**

1. Maintain OnePlan PAR website by funding a part-time website manager.
2. Add program functionality for direct online planning communication and documentation between producer and commercial applicator.
3. Add herbicide resistance coding for small grains and potatoes to the OnePlan PAR.
4. Add Integrated Pest Management (IPM) and Best Management Practices checklists for small grains and potatoes to the OnePlan website.

5. Develop a first year Outreach and Education program.

**PROCEDURES:**

1. *Maintain OnePlan PAR website by funding a part-time website manager.* We are requesting funding to hire a part time OnePlan PAR website manager. If funded, the website manager would begin immediately and work throughout the proposal duration. The website manager will be responsible for maintaining the program website, making adjustments, corrections, and necessary updates as needed. Since Google Maps provides the base mapping function for the OnePlan planning and recordkeeping, the program is currently available for use for wheat producers in all states. The proposed website manager would coordinate with Oregon and Washington State Departments of Agriculture to be sure their respective state pesticide regulations are included in the database, along with the current Idaho regulations. Part of the website maintenance will include a data export function to allow the user to export their recordkeeping data from the server to their own personal computer. The website manager will coordinate with the programming contractor, Informational Designs, to complete Objectives 2-4 as described below. (Requesting funds from Idaho Potato Commission for a portion of this objective).
2. *Add program functionality for direct online planning communication/documentation between producer and commercial applicator.* We propose to add programming code for each OnePlan PAR work order, enabling the producer and custom applicator to communicate directly, with each other, through the OnePlan site. This level of functionality would be confidential between producer and applicator and accessed through a secure setting on the server. The programming development would be contracted to Information Designs and completed during the first quarter of the proposed project year. (Requesting funds from Idaho Potato Commission for a portion of this objective).
3. *Add herbicide resistance coding for small grains and potatoes to the OnePlan PAR.* We propose to add programming code for "mode of action" to herbicides commonly used for small grains and potato. The current contractor, Information Designs, will develop the coding and subsequent functionality. The PAR will alert users when the records indicate that two consecutive herbicide applications on the same field are the same mode of action. This will help users manage herbicide resistance on a per field basis. This activity would be completed during the last quarter of the proposed project year. (Requesting funds from Idaho Potato Commission for a portion of this objective).
4. *Add Integrated Pest Management (IPM) and Best Management Practices checklists for small grains and potatoes to the OnePlan website.* IPM checklists for each crop have been developed. We propose to incorporate them into the OnePlan PAR to provide users with (1) an integrated and comprehensive online resource for crop specific IPM options to assist with pest management planning, and (2) an additional recordkeeping tool for tracking other practices in addition to the pesticide usage. We propose to work with our current contractor, Informational Designs, to complete the IPM checklist functionality

with the OnePlan PAR program. This activity would be accomplished throughout the proposed project year. (Requesting funds from Idaho Potato Commission for a portion of this objective).

5. *Develop a first year Outreach and Education program.* During this one year project, we propose to develop an initial program to “advertise and promote” the OnePlan PAR to producers and custom applicators. We propose utilizing grower meetings distributing pens with the website (funded by other commodity commissions), flyers, commodity newsletters, and direct mailings to accomplish this. In addition we propose to conduct “hands on” training sessions at commodity schools to ensure grower adoption and ease of usage. We would coordinate with the Wheat Commission and the Cereal Schools planning committee to select locations for OnePlan PAR workshops.

**DURATION:** The expected duration of this project is one year.

**COOPERATION:** The OnePlan PAR development was originally funded through grant dollars from USDA-NIFA Extension IPM and U.S. EPA. Now that the program is in use by producers and commercial applicators, we currently work with the following entities on the OnePlan PAR:

- Idaho Soil Conservation Commission and Association of Soil Conservation Districts. They sponsor the website server and provide administrative support.
- USDA-NRCS Idaho State Office: Currently support portions of the IPM checklists with Conservation Innovation Grant funds. Additionally, their staff support us with in-kind personnel resources for OnePlan enhancements.
- Idaho State Department of Agriculture. In-kind staff support for recordkeeping and worker protection information.
- Other commodity commissions. In the past two years alfalfa/clover seed commission, sugar beet commission, and potato commission have supported small funding requests to provide promotional materials and some travel money for presentations on the OnePlan PAR.

**ANTICIPATED BENEFITS/EXPECTED OUTCOMES/INFORMATION TRANSFER:**

The outcomes of the project will be a “one-stop” comprehensive pest management recordkeeping system, including integrated pest management, best management practices, and herbicide resistance management. The project outcomes will be beneficial to the wheat industry:

- ✓ simple to use and free, electronic system for recordkeeping, saving the costs of commercially available recordkeeping programs;
- ✓ comply with all state and federal pesticide laws, saving time and money;
- ✓ “one stop” and easy access to resources for pest management and best practices for sustainable wheat production, saving time and resources;
- ✓ utilize OnePlan records for recordkeeping requirements by sorting subsets of the data to maintain long-term pesticide records;
- ✓ maintain the confidential data stored on a secure server accessible by a login process;
- ✓ training for producers on the OnePlan PAR at the Cereal Schools to ensure program usage;

- ✓ promotional materials developed for distribution to producers.

**LITERATURE REVIEW:**

Hirnyck, R., S. O'Neal. 2004. Pest Management Strategic Plan for PNW Small Grains (Wheat and Barley) Excluding Idaho Wheat. USDA-NIFA.

Hirnyck, R., L. Downey, S.O'Neal. 2007. Pest Management Strategic Plan for Pacific Northwest Potato Production. USDA-NIFA.

OnePlan PAR. [www.oneplan.org/par](http://www.oneplan.org/par). Accessed 12/18/2012.

Idaho State Department of Agriculture.

<http://www.agri.state.id.us/Categories/Pesticides/indexPesticides.php>. Accessed 12/18/2012.

# **COMMODITY COMMISSION BUDGET FORM**

Allocated by	Idaho Wheat Commission	during FY 2012	\$	-
Allocated by	Idaho Wheat Commission	during FY 2013	\$	-

## **REQUESTED FY 2014 SUPPOI Hirnyck and Neufeld**

	Salary	Temporary Help	Fringe	Travel	OE	CO	Grad Fees	TOTALS
Idaho Wheat Commission	\$ -	\$ 3,750	\$ 338	\$ 850	\$ 5,100	\$ -	\$ -	\$ 10,038

## **OTHER RESOURCES (not considered cost sharing or match):**

a) Industry	\$ 3,750.00	\$ 338.00	\$ 260.00	\$ 11,750.00				\$ 19,185
b) UI (salaries, operating)	8,000.00							\$ 8,000
c) Other (local, state)								\$ -
d)								\$ -
e)								\$ -
<b>TOTAL OTHER RESOURCES</b>								<b>\$ 27,185</b>

<b>TOTAL PROJECT ESTIMATE FOR FY 2014:</b>	<b>\$ 10,038</b>	<b>\$ 27,185</b>	<b>\$ 37,223</b>
	<i>(Requested)</i>	<i>(Other)</i>	<i>(Total)</i>

## **BREAKDOWN FOR MULTIPLE SUB-BUDGETS:**

	(PI name)	(PI name)	(PI name)	(PI name)
Salary	\$ -	\$ -	\$ -	\$ -
Temporary Help	\$ -	\$ -	\$ -	\$ -
Fringe Benefits	\$ -	\$ -	\$ -	\$ -
Travel	\$ -	\$ -	\$ -	\$ -
Operating Expenses	\$ -	\$ -	\$ -	\$ -
Capital Outlay	\$ -	\$ -	\$ -	\$ -
Graduate Student Fees	\$ -	\$ -	\$ -	\$ -
<b>TOTALS</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Total Sub-budgets</b>				<b>\$ -</b>




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**INTERNAL PEER REVIEW/PRINCIPAL INVESTIGATOR VERIFICATION FORM**

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**INTERNAL PEER REVIEW VERIFICATION**

Commodity commissions/organizations require internal peer review by colleagues familiar with the subject matter. This proposal has been peer reviewed by the following individuals:

Reviewer 1:	Ariel Agenbroad		1-4-13
	(Type/Print name)	(Signature)	(Date)
Reviewer 2:	Mike Thornton		1-4-13
	(Type/Print name)	(Signature)	(Date)
Dept. Head/	Patrick Momont		1-7-13
Unit Administrator :	(Type/Print name)	(Signature)	(Date)

**UNITED STATES DEPARTMENT OF AGRICULTURE  
COOPERATIVE STATE RESEARCH, EDUCATION, AND EXTENSION SERVICE  
CURRENT AND PENDING SUPPORT**

OMB Approved 0524-0039  
Expires 03/31/2004

USDA programs.					
NAME (List/PI #1 first)	SUPPORTING AGENCY AND AGENCY ACTIVE AWARD/PENDING PROPOSAL NUMBER	TOTAL \$ AMOUNT	EFFECTIVE AND EXPIRATION DATES	% OF TIME COMMITTED	TITLE OF PROJECT
<u>Active:</u>					
Bechinski, E.J. Hirnyck, R.E.	USDA - NIFA	\$415,082	08/01/10 - 07/31/2013	10%	Idaho Extension IPM Program
Hirnyck, R.E. Shipka, M.	USDA - NIFA	\$30,863	08/2010 - 7/31/2013	7%	Alaska Potato IPM Field Scouting Guide
Hirnyck, R.E.	USDA - NIFA	\$290,000	10/01/10 - 9/30/15	15%	A National Agricultural Program: Clearances of Chemicals and Biologics for Minor and Special Uses
Hirnyck, R.E., Meeks, W.	USDA - NIFA	\$80,000	01/01/12— 06/01/13	5%	IR-4 Regional Field Center, Food Use Projects
Hirnyck, R.E.	USDA - NIFA	\$10,000	10/2012 - 9/30/2013	10%	Idaho's Pesticide Safety Education Program
Hirnyck, R.E., Mahler, R., Neufeld, J.	USDA - NRCS Idaho CIG	\$74,705	06/5/11 - 05/30/15	15%	Perfecting IPM for Idaho Producers
<u>Pending:</u>					
Hirnyck, R.E., J. Neufeld	Idaho Wheat Commission	\$10,000	07/01/13— 06/30/14	2%	OnePlan Pesticide Applicator Recordkeeping
Hirnyck, R.E., J. Neufeld	Idaho Potato Commission	\$8,372	07/01/13 - -6/30/14	2%	OnePlan Pesticide Applicator Recordkeeping
Hirnyck, R.E., J. Neufeld	Oregon Potato Commission	\$5,362	07/01/13 - -6/30/14	2%	OnePlan Pesticide Applicator Recordkeeping
Hirnyck, R.E., J. Neufeld	Washington Potato Commission	\$5,362	07/01/13 - -6/30/14	2%	OnePlan Pesticide Applicator Recordkeeping

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**CURRENT AND PENDING SUPPORT Form:**

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**Instructions:**

**JERRY NEUFELD**

1. Complete all columns.
2. **Record information for active and pending projects. Include this project under pending section. The % of Time Commitment CANNOT equal more than 100%**
3. All current research to which principal investigator(s)/project director(s) and other senior personnel have committed a portion of their time must be listed, whether or not salary for the person involved is included in the budgets of the various projects.
4. Provide analogous information for all proposed projects which are being considered by, or which will be submitted in the near future to, other possible sponsors.

NAME (List PI/PD #1 First)	SUPPORTING AGENCY AND AGENCY NUMBER	TOTAL \$ AMOUNT	EFFECTIVE AND EXPIRATION DATES	% OF TIME COMMITTE D	TITLE OF PROJECT
	<b><u>Current:</u></b>				
Neufeld, et.al	Idaho Alfalfa and Clover Seed Commission	\$500	7/2012- 6/2013	4	TV/PNWP estAlert.net
Neufeld, et al.	Idaho Sugarbeet Industry	\$500	7/2012- 6/2013	4	TV/PNWP estAlert.net
Neufeld, et. al.	Idaho Potato Commission	\$750	7/2012- 6/2013	4	TV/PNWP estAlert.net
Neufeld, et.al	Idaho Alfalfa and Clover Seed Commission	\$750	7/2012- 6/2013	4	Id One Plan PAR
Neufeld, et al.	Idaho Sugarbeet Industry	\$750	7/2012- 6/2013	4	Id One Plan PAR
Neufeld, et. al.	Idaho Potato Commission	\$1,000	7/2012- 6/2013	4	Id One Plan PAR



Neufeld, et al.	UI CALS Topic Team Grant	\$3,000	4/2012-3/2013	5	Evaluation of Thrips Control in Drip Irrigated Onions
Hirnyck, Mahler and Neufeld	NRCS – Idaho Conservation Innovation Grant	\$74,705	7/2012-6/2014	5	Perfecting IPM for Key Crops in Targeted Watersheds
Hirnyck and Neufeld	Mint Industry Research Council	\$9,863	1/2012 – 1/2013	5	Comprehensive Survey of Pest Management Practices for Mint in Idaho
	<b><u>Pending</u></b>				
Barbour, Neufeld Et. al.	Mint Industry Research Council	\$29,777	3/2013 – 4/2013	5	Mint Yield and Water Use In Drip vs. Furrow Irrigated Mint in the PNW
Neufeld, et. al.	Idaho Alfalfa and Clover Seed Growers Commission	\$500	7/2013-6/2014	5	PNWPestAlert.net
Neufeld, et. al.	Idaho Alfalfa and Clover Seed Growers Commission	\$750	7/2013-6/2014	5	Idaho One Plan PAR
Neufeld, et.al.	Idaho Potato Commission	\$500	7/2013-6/2014	5	PNWPestAlert.net
Hirnyck, Neufeld, et.al.	Idaho Potato Commission	\$8,372	7/2013-6/2014	5	Idaho One Plan PAR and FMP
Hirnyck, Neufeld, et.al.	Oregon Potato Commission	\$5,362	7/2013-6/2014	5	Idaho One Plan PAR and FMP

Hirnyck, Neufeld, et.al.	Washington Potato Commission	\$5,363	7/2013- 6/2014	5	Idaho One Plan PAR and FMP
Neufeld, et al.	Idaho Sugarbeet Industry	\$750	4/2013- 3/2014	4	Idaho One Plan PAR
Neufeld, et al	Idaho Sugarbeet Industry	\$500	4/2013- 3/2014	4	Treasure Valley and PNW PAR
Hirnyck, R. and Neufeld, J.	Idaho Wheat Commission	\$10,038	7/2013- 6/2014	2	OnePlan PAR and IPM Planner