University of Idaho Extension



OnePlan Pesticide Application Recordkeeping

Treasure Valley Irrigation Conference

Jerry Neufeld – U of I Extension Wayne Newbill – IASCD

What is OnePlan PAR?

- Easy to use way to keep required records
- Electronic and permanent record keeping
- Secure record keeping
- Records sorting features
- Site specific to each application

OnePlan Pesticide Recordkeeping

- Safe and secure
 - Data on redundant servers and always backed up
 - Legislation protects OnePlan records 2005
 Idaho Code 22-2718 states:

"To provide for the establishment and encouragement of the "Idaho OnePlan" as a primary computer-based conservation planning process for all natural resource concerns. Establishment and encouragement will be accomplished through an executive group and steering committee both containing private, state and federal representation. <u>The information provided by those using</u> the "Idaho OnePlan" shall be deemed to be trade secrets, production records or other proprietary information and shall be kept confidential and shall be exempt from disclosure pursuant to section 9-340D, Idaho Code."

www.OnePlan.org/PAR

Computerized Web Application

 Calculations made easy
 Enter data once
 Everything in one place

Complete USDA/ISDA Records

 WPS Requirements
 RUP Application Records

www.OnePlan.org/PAR

Idaho OnePlan

Home

Conservation planner

Conservation Funding Programs

Wildfire Management

<u>Nutrient Management</u> <u>Plan</u>

Pest Management

Pesticide Application Recordkeeping (PAR)

Animal Feeding Operations

Carbon Sequestration

Range Management

Farmstead

Organic Farming

Water

BMP/Conservation Practices

Reference

Search

Helping Farmers Move into the Future

Idaho OnePlan provides data and software to help growers develop a single conservation farm plan that can be pre-endorsed by the various agencies, streamlining and simplifying the regulatory process that farmers face.

Idaho OnePlan is a multi-agency project to combine government regulations and current best management practices for agriculture into a single plan, integrating federal, state, and local regulations for:

- Nutrient, Pest and Waste Management
- Water Quality and Wetlands
- Air Quality
- Financial Assistance
- Endangered Species
- Petroleum Storage Tanks

The OnePlan Vision: A Simple Concept

Farmers and agencies can both benefit from reducing duplication of effort, regulatory red tape and cross-agency bottlenecks. The OnePlan coordinates the various conservation requirements of the numerous agencies with regulatory and technical oversight. From the comfort of home or office, you can connect to site specific information tailored to Idaho growers.

"Clippings" of aerial photos, soil data, hydrology maps, roads, and borders on different GIS map layers are available. With this data and the OnePlan software questionnaire, growers can generate a report and plan of action—a conservation farm plan—with effective area-specific best management practices (BMPs). The software allows the grower to record management practices over time to see what works: specific activities such as pesticide application, cultivation methods, equipment, etc. can be tracked by field.

Qualify for Financial Assistance

Farm Conservation Plans derived from the OnePlan method will help qualify farmers for local, state and federal financial assistance for conserving natural resources when needed and available. The OnePlan method makes conservation planning and implementation dramatically more efficient. Growers, technical experts, and the environment will all be winners.

It's Free

Anyone can use the OnePlan software and develop an Idaho farm plan regardless of how he chooses to use the results. It's private information and it's entirely up to the individual whether or not to share such information; for example, to share it with agencies to aid in cost share or grant applications.



www.OnePlan.org/PAR

Go through one time set up process ...

- Applicator Name
- Address
- Applicators, License #, Phone

Operator name: Bob Farmer Company name: OnePlan Farms (optional) Address: 123 Farmway Lane ZIP code: 83605 City: State: ID Farmington Telephone: 208 888-8008 Mobile phone: 208 378-5700 Your applicator license number: 12345 and License type: ID - PR Enter your Update Applicator's information Applicators for this operation

Fill in account information for this operation. (Items are required unless indicated otherwise.)

Optional: set up one or more Applicators. "NOTIFY" type provides for sending notices to non-applicators.

Applicator name	Lic. No.	State - Type	Telephone	Email address	
Bruce Ard	205	ID - PROFESSIONAL	208 356-3601	bruceard@valleywidecoop.com	
Casey	1234	ID - PRIVATE 208 431-1549		ccrowley@valleywidecoop.com	
oneplan	12345	ID - PRIVATE	208 378-5700	wayne.newbill@gmail.com	
Phil Shewmaker	vmaker 44444		208 880-8804	pshewmaker@valleywidecoop.com	
Wayne Newbill 54321		ID - PRIVATE	208 888-5008	wayne.newbill@gmail.com	
		Select			

Map to Your Nearest Medical Facility

Nearest Medical Facility

Select from the list:	St. Lukes Medical Center	💌 or enter yo	our own information.
Name:	St. Lukes Medical Center		
Address:	520 S Eagle Rd		
City:	Meridian	State: ID	ZIP code: 83642
Telephone:	208 706-5000		

Search the web for nearest facility

Locate and Describe each Field on Your Operation

Box will pop up asking for field name and acres



Field 2	Potato	08/15/2009	1/18/2011	Edit	In use
Field 2	Wheat, winter	07/1/2008	8/15/2009	Edit	In use
Field 2	Wheat, winter	07/1/2007	7/1/2008	Edit	In use
Field 2	Alfalfa, seed	07/1/2006	7/1/2007	Edit	Del
Field 2	Beans, seed or dry	09/1/2005	7/1/2006	Edit	Del
Field 3	Alfalfa	09/30/2010	Current	Edit	Del
Field 3	Alfalfa, grass mix	09/1/2008	9/30/2010	Edit	In use
Field 3	Beans, seed or dry	08/1/2007	7/1/2008	Edit	In use
Field 3	Wheat, winter	07/1/2006	8/1/2007	Edit	Del
Field 3	Alfalfa, seed	09/1/2005	7/1/2006	Edit	Del
Field 4	Potato	08/15/2010	Current	Edit	Del
Field 4	Wheat, winter	11/15/2009	8/15/2010	Edit	Del
Field 4	Potato	07/1/2008	11/15/2009	Edit	In use
Field 4	Wheat, winter	07/1/2007	7/1/2008	Edit	In use
Field 4	Alfalfa, seed	07/1/2006	7/1/2007	Edit	Del
Field 4	Alfalfa, seed	09/1/2005	7/1/2006	Edit	Del
Field 5	Potato	01/18/2011	Current	Edit	Del
Field 5	Potato	07/15/2009	1/18/2011	Edit	In use
Field 5	Wheat, winter	07/1/2008	7/15/2009	Edit	In use
Field 5	Wheat, winter	07/1/2007	7/1/2008	Edit	In use
Field 5	Beans, seed or dry	07/1/2006	7/1/2007	Edit	Del
Field 5	Wheat, winter	09/1/2005	7/1/2006	Edit	Del
Field 6	Wheat, winter	11/30/2010	Current	Edit	Del

Fill in crop history for each field

Enter Information for each Pesticide You use...

Complete label

Preharvest interval (PHI) and Resistance group are optional; all other inputs required.

Product name:	Endosulfan 3EC		requirements		
EPA Registration No.:	19713-399	Restricted use pesticide?			
Active ingredient:	Endosulfan				
Signal word:	Danger-Poison 👻 REI:	48 hr 👻 PHI: 1	days pesticide		
Resistance group:					
	Requi	red Personal Protective E	quipment (PPE)		
Mixing, loading, app	lication	Early re-ent	ný í		
Shoes, socks		Shoes,	socks		
Footwear, chemical	resistant	Footwe	Footwear, chemical resistant		
-					
Short-sleeve shirt, s	short pants	Short-s	Short-sleeve shirt, short pants		
Long-sleeve shirt, lo	ong pants	Cong-sl	Long-sleeve shirt, long pants		
Eyewear, protective			ar, protective		
Gloves, chemical re			Gloves, chemical resistant		
Apron, chemical res	sistant	Apron,	Apron, chemical resistant		
Coveralls		Coveral	ls		
🗹 Headgear, chemica	l resistant	Headge	ar, chemical resistant		
🗹 Respirator, chemica	al/dust approved	Respira	Respirator, chemical/dust approved		
Protective suit, cher	mical resistant	Protect	Protective suit, chemical resistant		

OnePlan Pesticide Application & Soil Fumigation Recordkeeping

I W HOING

You are logged in as oneplan <u>Update | Loqout</u>

Help / instructions

Customize crops

Customize pests

Edit products

Edit adjuvants

Application workorders:

Initiate W.O.

W.O. report

Edit: 1105250 💌 Go

In process: 1105251 -Go

Complete: 1102180 💌 Go

	Ор	eration
Farm Operator	Bob Farmer OnePlan Farms 123 Farmway Lane Farmington ID 83605 208 888-8008 Mobile: 208 378-5700	(edit)

Applicators

Applic	ator Name	Lic. No.	Phone
Bruce	Ard	205	208 356-3601
Casey		1234	208 431-1549
onepla	n	12345	208 378-5700
Phil Sł	newmaker	44444	208 880-8804
Wayne	e Newbill	54321	208 888-5008

(edit)

Farm Unit: Bob Farmer



West Valley Medical Center 1717 Arlington Avenue Caldwell ID 83605 208 454-3777 <u>Map to Facility</u>

(edit)

Farm Unit Fields

(edit crop history)

Field name	Current crop	PLS	Lat	Lon
Field 1	Alfalfa, seed	T4N R2W S20	43.66363	-116.60374
Field 10	Potato	T4N R2W S20	43.66791	-116.60188
Field 11	Alfalfa, seed	T4N R2W S20	43.66900	-116.61113
Field 12	Buckwheat	T4N R2W S19	43.66737	-116.61625

(edit)

Your Operation Summary Page



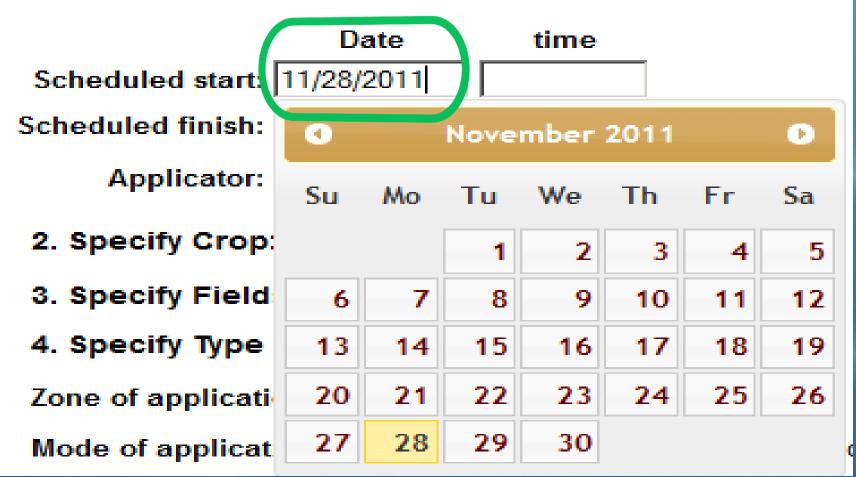
Handlers	<u>(edit)</u>		
Handler Name	Phone		
Bob Jones	208 466-3052		
Bob Jones	208 466-3052		

Operation Summary

Initiate a Work Order Enter Date and Time of Application

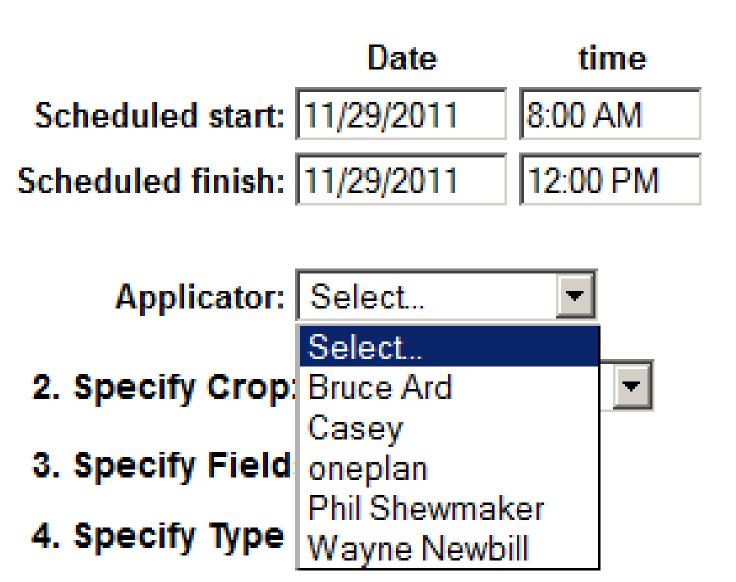
Workorder number: 1111280

Scheduled start, finish, and Applicator



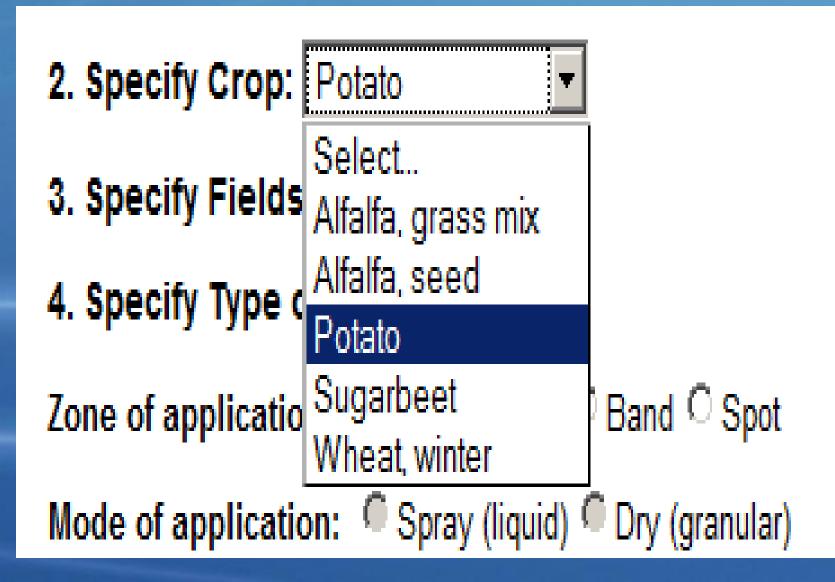
Workorder number: 1111280

1. Scheduled start, finish, and Applicator



Select the applicator for this job

Specify the target crop from your drop down list



Select the fields of that crop for this application

2. Specify Crop: Potato

3. Specify Fields

V	Field	Acres	Area to treat	Applic. area
S	Field 3	12	12	12.00
	Field 10	13.93	13.93	13.93
			Total acres:	25.93

Select the type of application

4. Specify Type of Application

 Zone of application:
 Image: Full coverage
 Image: Band
 Image: Spot

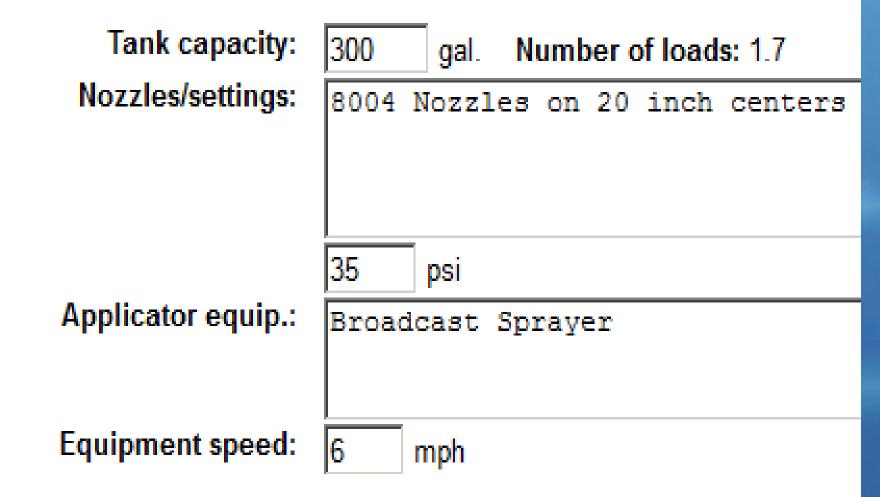
 Mode of application:
 Image: Spray (liquid)
 Image: Dry (granular)
 Image: Soil fumigation

 Image: Mix per acre:
 Image: Spray gal.
 Image: Spray gal.
 Image: Spray gal.

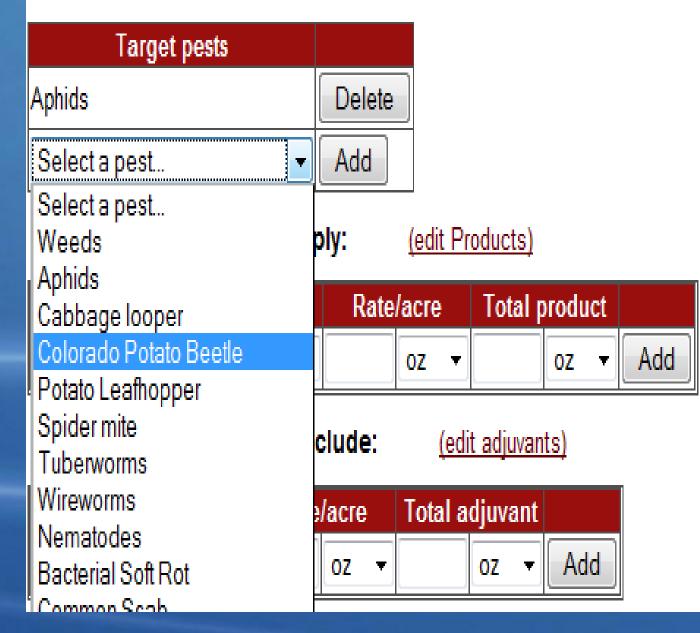
 Image: Total mix:
 Image: Spray gal.
 Image: Spray gal.
 Image: Spray gal.

Specify your equipment and settings

5. Specify equipment and settings: (optional)



6. Specify pests targeted by this application (optional):



Select the target pests from your list

Select the Pesticide products from your list

7. Specify Product(s) to apply:

(edit Products)

	Product name	Rate/acre	Total product		
1	Dimethoate 4EC	2.0 pt	11.28 gal	Edit Del	
	Endosulfan 3EC	1.0 pt	5.64 gal	Edit Del	
	Delecta product	fl oz 💌	fl oz 💌	Add	
	Select a product 638 Herbicide Acramite	t(s) to include:	(edit adjuvants)		
	Admire 2F	Rate/acre	Rate/100 gal	Total adjuvant	
	Admire Pro	0.4 fl oz	2.0 fl oz	1.13 pt	Edit Del
	Agree Agri-Mek	0.2 fl oz	1.0 fl oz	9.03 fl oz	Edit Del
	Apron	6.4 fl oz	2.0 pt	2.26 gal	Edit Del
	Asana Assail 30 SG	• fl oz •	fl oz 💌	fl oz 💌	Add
	Buctril 2EC Carbaryl 4L Carbaryl 4L Comite Di-Syston Dibrom Direx	otes:			

Select the Adjuvants from your list

8. Specify adjuvant(s) to include:

(edit adjuvants)

Adjuvant name	Rate/acre	Rate/100 gal	Total adjuvant			
Ballast	0.4 fl oz	2.0 fl oz	1.13 pt	Edit	Del	
Fighter F	0.2 fl oz	1.0 fl oz	9.03 fl oz	Edit	Del	
Class Act	6.4 fl oz	2.0 pt	2.26 gal	Edit	Del	
Select an adjuvant 💌	fl oz 💌	fl oz 🔻	fl oz 💌	Ac	bb	
Select an adjuvant 17% Concentrate Activator 90 AMS Class Act Destiny	es:					
Dyne-Ámic Fast Break Herbimax UAN 32	When required You can Save	d data are entered, what you've enter	Review the com ed and continue edit	-		pefore issu

this entry.

Review then Issue the Finished Work Order

Applicator: Wayne Newbill Lic. no. 54321

Scheduled

Date: Tue. November 29, 2011

Start: 8:00 AM

Finish: 12:00 PM

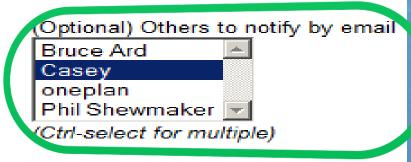
Do not re-enter until 48 hrs after actual finish

Crop: Potato No target pests specified.

Product name (Active ingredient)	EPA Reg.#	RU	Per a	cre	Tot	al	Per 10	0 gal	Per t	ank
Dimethoate 4EC (dimethoate)	5905-493		2.0	pt	6.48	gal	1.25	gal	3.75	gal
Endosulfan 3EC (endosulfan)	19713-399	х	1.0	pt	3.24	gal	5.0	pt	1.88	gal

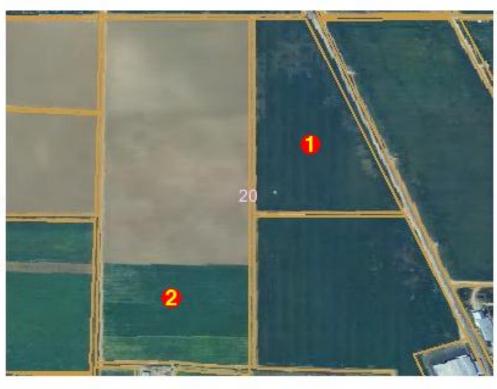
Adjuvant	Per acre		Total		Per 1	00 gal	Per tank		
Ballast	0.4	fl oz	10.37	fl oz	2.0	fl oz	6.0	fl oz	
Fighter F	0.2	fl oz	5.19	fl oz	1.0	fl oz	3.0	fl oz	
Class Act	6.4	fl oz	1.3	gal	2.0	pt	6.0	pt	

Total mix required: 519 gal Total number of loads required: 1.73



Finished Work Order

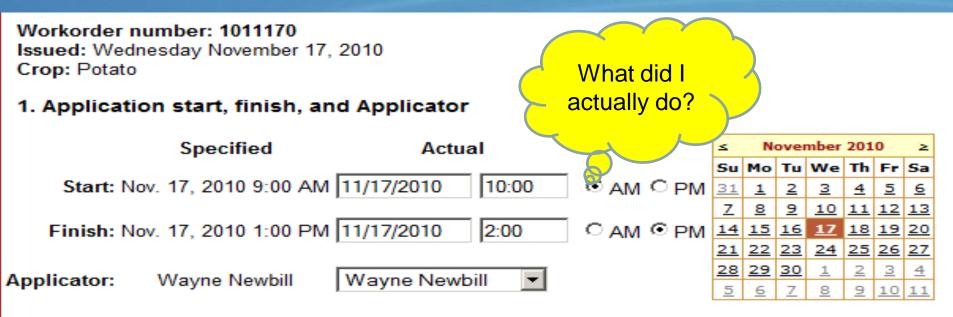
Zone:	Full coverage
Mode:	Spray (liquid)
Applicator Equipment:	Broadcast Sprayer
Speed (mph):	6
Mix per acre (gal):	20.0
Tank capacity (gal):	300
Nozzles/settings:	8004 Nozzles on 20 inch centers
Nozzle pressure (psi):	35
	Notes



Applica	tion Site Information	
Wind speed:	Temperature:	
Wind direction:	Rel. humidity:	
Weather:		
Soil condition:		
A	pplicator notes	

	Field	Acres	Area to treat	Applic. area	Lat/Lon
1	Field 10 T4N R2W S20	13.93	13.93	13.93	43.66791, -116.60188
2	Field 3 T4N R2W S20	12.0	12.0	12.0	43.66516, -116.60439
			Total acres:	25.93	

Summarize the Application



2. Fields

Spec	Specified										
Field	Area (ac)	Applic. area									
Field 1	22.83	11.415									
Field 2	30.67	15.335									
Field 5	19.98	9.99									
HQ2	16.78	8.39									
	Total acres:	45.13									

~	<u></u>		
-			

Actual

	Field	Area (ac)	Applic. area
N	Field 1	22.83	11.42
N	Field 2	30.67	15.34
	Field 5	19.98	9.99
	HQ2	16.78	8.39
		Total acres:	45.13

3. Type of Application

Specified

Zone: Band application

riotual					
Zone of appl					C Spot
Band width:	18	in.	Row width:	36	in. O.C.

OnePlan Pesticide Application Recordkeeping <u>Log out</u>														
				rts					H	lome				
Product Application Records Operator: Wayne Newbill												You are logg in as Wayne	ed	
🕅 Show a	Main Show all Define Restricted Use only												Newbill	
Select by Fa	arm Unit: 🛛	Select	•										peration summ	<u>iary</u>
Select by ye	ear: Select	t 💌 Select by fi	ield:	Select	Select	by crop:	Select	·	•			v	Vorkorder repor	ts
All application records for all farm units of the operation					Select Alfalfa, see Beans, see Garden Be	d or dry								
<u>Date</u>	<u>W.O. Num.</u>		<u>RU</u>	EPA Reg. #			Potato	ano	<u>Crop</u>	<u>Zone</u>				
7/17/2008	<u>8071740</u>	Phorate 20G	V	2749-521	2.0 lb		Sugarbeet		Vheat, winter	Full				
7/31/2008	<u>807310</u>	Admire Pro	Γ	264-827	6.0 oz	1.07 gal	Wheat, wint	22.0	Wheat, winter	Full		S	ort	
		Dimethoate 4EC	Γ	5905-493	2.0 pt	5.71 gal	Field 1	22.8	Wheat, winter	Full		reco	rds by	
7/17/2008	<u>8071740</u>	Furadan	1	279-2876	1.75 pt	4.99 gal	Field 1	22.8	Wheat, winter	Full		RUP	; field;	
		Admire Pro	Γ	264-827	6.0 oz	1.07 gal	Field 1	22.8	Wheat, winter	Full		date	; crop	
8/1/2008	<u>8071516</u>	Agri-Mek	\mathbf{r}	100-898-618	4.0 oz	5.71 pt	Field 1	22.8	Wheat, winter	Full			· ·	
		Furadan	\geq	279-2876	2.18 pt	6.21 gal	Field 1	22.8	Wheat, winter	Full				,
6/25/2008	<u>806240</u>	Lannate SP	\leq	352-342	2.0 pt	5.71 gal	Field 1	22.8	Wheat, winter	Full				
5/1/2008	806104	Admire Pro		264-827	6.0 oz	1.71 pt	Field 1	4.6	Wheat, winter	Band				
5/1/2000	000104	Dimethoate 4EC	Γ	5905-493	2.18 pt	1.24 gal	Field 1	4.6	Wheat, winter	Band]			
		Dimethoate 4EC	Γ	5905-493	2.0 oz	2.85 pt	Field 1	22.8	Wheat, winter	Full				
C 10E 10000	000040	Admire Pro	Γ	264-827	6.0 oz	1.07 gal	Field 1	22.8	Wheat, winter	Full				
6/25/2008	<u>806240</u>	Furadan	>	279-2876	2.0 pt	5.71 gal	Field 1	22.8	Wheat, winter	Full				
		Torrent 2F	Γ	60063-31	1.0 pt	2.85 gal	Field 1	22.8	Wheat, winter	Full]			
E (1)0000	000404	Admire Pro	Γ	264-827	6.0 oz	2.3 pt	Field 2	6.1	Wheat, winter	Band	1			

2011 Evaluation

"What did you find most useful about the PAR program?"

•Simplicity

•I didn't feel that I was burdened entering my information. Knowing it wouldn't be time consuming and repetitive.

•Simple to use and very effective.

•I liked the ease of putting out the reports for the EPA. I like the idea of having back-up records. Helped with the GAP program.

•I don't like computers, but this program is made for dummies. Makes record keeping easy and complete.

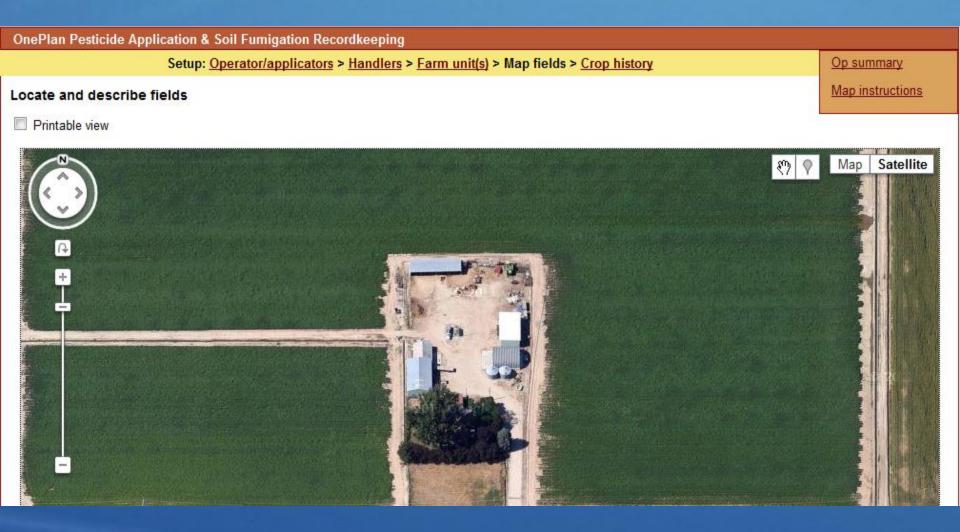
•Great stuff

Currently have about 260 users

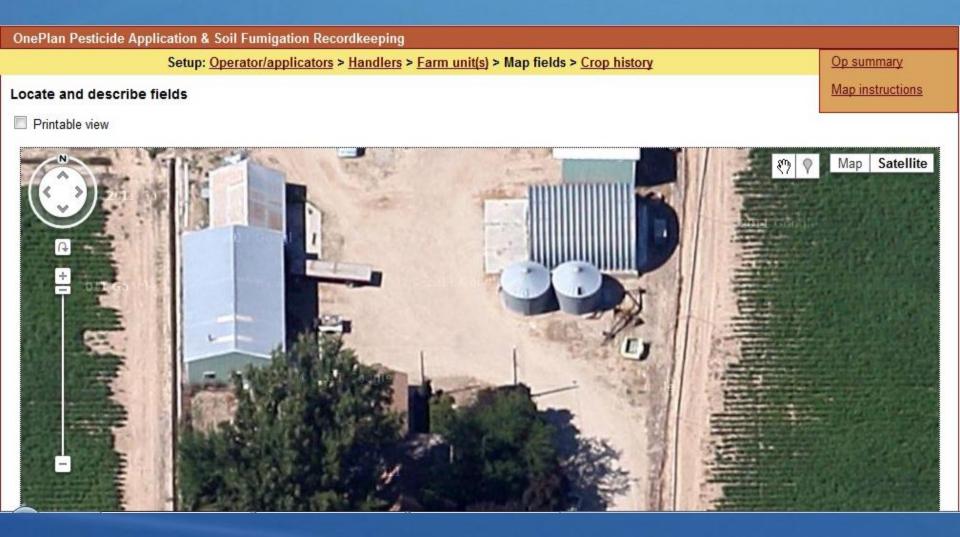
Old OnePlan Mapping Zoomed to fullest extent



New OnePlan Mapping from Google Maps



New OnePlan Mapping Zoomed in to fullest extent





OnePlan Soil Fumigant Application Management Project Funded by EPA Region 10

Technical and staff support by:

- University of Idaho
- Idaho State Department of Agriculture
- Idaho Association of Soil Conservation Districts
- Washington State University
- Washington Department of Agriculture
- Oregon State University
- USDA/NRCS



Soil Fumigant Management Plan will now be required before all applications
All Soil Fumigant products are now Restricted Use
Good Agricultural Practices (GAPs) are now mandatory
Buffers and/or mitigating practices will be mandatory in 2012



Must include:

- Certified Applicator
- Name and Phone number

•License number:

- Commercial applicator
- Private applicator
- •Employer name and address
- Date of completing registrant training program



Must include: General Site Information

Application block location, address, or global positioning system (GPS) coordinates:
Name, address, and phone number of owner/operator of application block:
General Application Information

- Target application date/window:
- •Brand name of fumigant:
- •EPA Registration Number:



Must include: Soil Conditions

•Description of soil texture, organic matter, and moisture in application block

Description of method used to determine soil moisture level



Must include: Weather Conditions:

•Weather forecast for the day of the application and the 48-hour period following the fumigant application (may attach a copy of printed forecast to FMP)

•Weather observations for the application period and the 48-hour period following the fumigant application



Soil Fumigant Application Management Plan <u>Must Include:</u> Buffer Zones in 2013

Buffer sizes will be determined by: •Application method •Rate •Block size



Soil Fumigant Application Management Plan Must include: **Personal Protective Equipment for Handlers** Handler Task Appropriate Clothing •Respirator Type, Filter Cartridge Type and Change-out Schedule Eye Protection Protection Gloves •Other



Soil Fumigant Application Management Plan

Must include: Emergency Response Plan

- Description of evacuation routes
- Locations of telephones
- Contact information for first responders
- •Other contact information for emergencies
- •Emergency procedures/responsibilities in case of an incident, outside buffer zone suggesting potential problems, or other emergencies).



Soil Fumigant Application Management Plan

Must include: Posting Signs

- •Name and phone number of person that is doing posting
- Location of posting signs
- Procedures for posting and sign removal



Soil Fumigant Application Management Plan <u>Must include:</u> Site Specific Response and Management •Fumigation Site Monitoring •Response Information for Neighbors



Soil Fumigant Application Management Plan <u>Must include:</u> Notice to State Lead Agency and Tribal Agencies •If your state and/or tribal lead agency requires notice, list contacts that were notified: •Date notified:



Soil Fumigant Application Management Plan

Must include:

Communication Plan Between Applicator, Land Owner/Operator, and Other On-site Handlers

- •Plan for communicating to the land owner/operator and all on-site handlers (e.g., tarp cutters/removers, irrigators)
- Location and start/stop times/areas of buffer zones
 PPE Requirements
- •Names and phone numbers of persons contacted:
- Date contacted:

GAPs for Drip Application¶

Wind-Speed¶

 $\label{eq:wind-speed-at-the-application-site-must-be-a-minimum-of-2-mph-at-the-start-of-the-application-or-forecasted to reach-at-least-5-mph-during-the-application. \end{tabular}$

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Weather · conditions¶

• Prior to fumigation the weather forecast for the day of the application and the 48-hour period following the fumigation *must* be checked to determine if unfavorable weather conditions exist or are predicted and whether fumigation should proceed.

• Do not apply if a shallow, compressed (low-level) temperature inversion is forecast to persist for more than 18 consecutive hours for the 48-hour period after the start of application, or if there is an air-stagnation advisory in effect for the area in which the fumigation is planned.

• Detailed local forecasts for weather conditions, wind speed, and air stagnation advisories may be obtained on-line at: http://www.nws.noaa.gov. For further guidance, contact your local National Weather Service Forecasting Office.¶

$Identifying \cdot Unfavorable \cdot Weather \cdot Conditions \P$

• Unfavorable weather conditions block upward movement of air, which results in trapping fumigant vapors near the ground. The resulting air mass can move off-site in unpredictable directions and cause injury to humans, animals or property. These conditions typically exist prior to sunset and continue past sunrise and persist as late as noontime. Unfavorable conditions are common on nights with limited cloud cover and light to no wind and their presence can be indicated by ground fog or smog and can also be identified by smoke from a ground source that flattens out below a ceiling layer and moves laterally in a concentrated cloud.

Soil Conditions[¶]

• Soil must be in good tilth and free of large clods at the surface. If subsurface soil compaction layers (hardpans) are present within the intended fumigation treatment zone, a deep tillage to fracture these layers must occur prior to the soil fumigant application.

. Field residue and stubble must be worked into the soil with little or no crop residue present on

GAPs for Application of Metam Sodium, 12 pages in all

OnePlan PAR compresses the information into 11 simple questions

To meet EPA guidelines a second page is required on all workorders for FMPs to include Soil Fumigation specific requirements.

OnePlan Pesticide Application & Soil Fumigation Recordkeeping

IPM Home

You are logged in as oneplan <u>Update | Loqout</u>

Operation summary

Help / instructions

EPA Soil Fumigant Toolbox

Emergency Preparedness and Response Requirements (EPA document)

Emergency response plan template (.doc)

Emergency response plan template (PDF) Workorder number: 1111281 Applicator: Wayne Newbill Lic. no. 54321 Application Type: Shank Injection (12 in. depth) Scheduled application: Nov. 28, 2011 9:00 AM to 6:00 AM Edit schedule, fields, etc. for this workorder

Emergency Response Plan

An emergency response plan is required. A sample template (Word .doc or PDF) showing its necessary information is available.

Handler Information and Training

All handlers directly or indirectly involved with this application, or who will be in contact with the application within 48 hours after the application period must have had fumigation safety training within the past 12 months. The EPA has <u>safety information for</u> <u>soil fumigant handlers</u>, and the <u>handler setup form</u> in this application provides for recording handler training information.

	Select handlers
ſ	Bob Jones
ļ	Bob Jones

Soil fumigation workorder specification - page 2

An Emergency Response Plan template is provided

VI. Emergency Response Plane					
Description of evacuation routes (a diagram or drawing may be attached to the FMP):					
Check here if diagram or drawing is attached					
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Locations of telephones:		A			
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Contact information for first-responders:"	Local/state/federal-contacts:¶	Other contact information for X			
	00000	emergencies:			
1					
		L			
Emergency procedures/responsibilities in case of an incident, equipment/tarp/seal-failure, complaints or elevated air concentration levels 💆					
suggesting potential problems, or other emergencies: seese ¶ ¶					
1					
1					
VII. Communication Between Applicator, Out	ar/Operator and Other On site Handlerso	8			
Pesticide product (abels and material safety data sheets are at the application site and available for employees to review.					
Construction for any structure set of the structure of the structure set and a structure for any object of the set of the set of the structure of the stru					
Will the certified applicator be at the application site during all handler activities that take place from the beginning of the application					
until the entry restricted period expires?					
1					
If no, describe how the certified applicator will share the label requirements with owner/operator and/or handlers who will be present at-					
the application site after the application is complete until the entry restricted period expires. ******					
1					
1					

Links to Fumigant Handler information is provided



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Safety Information for Soil Fumigant Handlers

Current as of April 2011

This page includes Fumigant Safe Handling information for soil fumigant handlers. As stated on updated fumigant product labels, certified applicators must provide Fumigant Safe Handling information to each handler involved in the application, or confirm that each handler participating in the application has received Fumigant Safe Handling information in a manner they can understand within the past twelve months. Fumigant Safe Handling information is provided where fumigant products are purchased. (NOTE: This page also referenced as www.epa.gov/fumiganttraining)

EPA Materials

- <u>Safety Information for Handlers of Pesticide Soil Fumigants (PDF)</u> (2 pp, 315k) (about PDF) (EPA brochure, November 2010)
- Informacion de Sequridad para los Manipuladores de Pesticidas de Fumigantes del Suelo (PDF) (2 pp, 181k) (about PDF) (EPA brochure, Spanish language version, November 2010)

Materials Produced by Pesticide Registrants and Approved by EPA

- <u>Paladin® (Dimethyl Disulfide, DMDS) Fumigant Safe Handling Guide (PDF)</u> (2 pp, 40.84k) (about PDF) (Arkema Inc., April 2011)
- <u>Guia para la manipulacion segura de fumigantes, Paladin (Dimetil disulfuro o DMDS) (PDF)</u> (2 pp, 43.04k) (about PDF) (Arkema Inc. brochure, Spanish language version, April 2011)
- <u>Paladin® EC (Dimethyl Disulfide, DMDS) Fumigant Safe Handling Guide (PDF)</u> (2 pp, 41.17k) (about PDF) (Arkema Inc., April 2011)
- <u>Guia para la manipulacion segura de fumigantes, Paladin EC (Dimetil disulfuro o DMDS) (PDF)</u> (2 pp, 43.40k) (about PDF) (Arkema Inc. brochure, Spanish language version, April 2011)
- Methyl Bromide and Chloropicrin Safety Information for Handlers (PDF) (64 pp, 335.52k) (about PDF) (The Chloropicrin Manufacturers' Task Force and The Methyl Bromide Industry Panel, December 2010)

Select the appropriate soil type and organic content Links to soil references are provided

Soil conditions

Soil texture: Sandy clay (See the textural triangle for more info.)

 Soil organic content:
 Select..

 Soil moisture must be method for estimating s
 less than 1%

 Soil must be in good
 to 2%

 Soil must be in good
 more than 3%

 It is close, any subsoil compaction layers must be broken to allow proper distribution of fumigant through profile. Crop residue must not extend through the soil surface.

Soil temperature must not exceed 90°F (at 3" depth) during the application.

If the air temperature has exceeded 100°F in the 3 days prior to the start, measure the soil temperature:

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A link is provided to get the required site specific weather forecast for the application area

Weather Conditions NWS point-based forecast and observations

Minimum wind speed at the start of the application is 2 mph, or the forecast must show wind of 5 mph or greater during the application period.

There must be **no temperature inversion or air stagnation advisory forecast** for more than 18 hours during the 48 hours after the start of application.



Thursday Night: Partly cloudy, with a low around 22.

Lat/Lon: 43.66°N 116.59°W Elevation:2476 ft

GAP Checklist provided

Good Agricultural Practices (GAPs) required

- Daily, before using a fumigation rig, the operator must check: o the filter, and clean or replace the filter element as required; o all tubes and chisels to make sure they are free of debris and obstructions; o check and clean the orifice plates; o check application equipment is in good working order.
- All systems must have a constant pressure system with orifice plates or nozzles to insure the proper amount of fumigant is applied.
- The fumigant injection system must contain a functional, automatic, quick-closing check valve to prevent the flow of fumigant back toward the fumigant container.
- · All systems must include a filter to remove any particulates from the fumigant.
- All shields must be in place.
- All systems must be equipped with an individual tank monitoring system to detect flow problems in each individual tank.
- · All tanks, hoses, fittings, valves and connections are tightened, sealed and not leaking,
- · Allow lines to clear before lifting injectors from the soil.
- Do not apply or allow fumigant to drain onto the soil surface.
- · Do not lift injection shanks from the soil until the shut-off valve has been closed.
- Dry connect fittings (in closed transfer systems) must be installed on all tanks and transfer hoses.
- Each injection line should have a check valve located as close as possible to the final injection point.
- Each nozzle or orifice must be equipped with a flow monitor, e.g. mechanical, electronic, or Redball type monitor.
- For undiluted product, aluminum, brass, copper, galvanized iron, and zinc materials cannot be used.



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Implementation of Risk Mitigation Measures for Soil Fumigant Pesticides

Current as of December 2010

Soil Fumigant Toolbox

Welcome to the Soil Fumigant Toolbox which provides training, outreach, and other resource materials for applicators and handlers, communities, state and local agencies, and others interested in understanding and implementing the current requirements for safe use of soil fumigants. Learn what's new in the toolbox.



Montana Extension Interest

- Montana Extension has expressed interest in OnePlan and it various components.
- They have been awarded a grant to customize existing technology to meet Montana's conservation needs.
- Teri has offered to meet with them via teleconference to further explore areas of mutual benefit.

Executive Committee Meeting

- Teri called for a committee meeting in May.
- Committee members were updated on the status of the older modules and new developments on PAR and FMP.
- Members offered some ideas as to possible funding opportunities, primarily for NMP, that we continue to flesh out.



Thank You! Questions?

