# PSU Spray Record-Keeping Spreadsheet

# PSU Spreadsheet

Designed to make your application reporting simpler and easier Contains 500+ orchard application products

- You enter the product name and application information
- Spreadsheet completes
  - Registration number
  - REI information
  - PHI information
  - Report format
  - Other information

# Gives you

- final report form for submission
- Report for managing your REIs
- Central document for recording and organizing all your orchard applications



HOME | SPRAY RECORD-KEEPING

### **Spray Record-Keeping**

This spreadsheet should be used with a season-long Integrated Pest Management Plan. Talk to your Penn State Extension educator if you need help building one.

#SMT-1008 I BE THE FIRST TO LEAVE A REVIEW





### Penn State Extension

For full utilization of the spreadsheet fill in the fields in blue below.

<b>Grower Name:</b>	
Grower Number:	

#### **FARM INFORMATION:**

Total # of Acres	
# of Acres Apples	
# of Acres Peaches	
# of Acres Cherries	
# of Acres Pears	

#### APPLICATOR INFORMATION

Name	Applicator's License #

Purpose BMSB CM Cropload management Fruit finish Fireblight Green peach aphid Japanese beetle Lesser peachtree borer Mites Nutrient OBLR OFM Peachtree borer Pear psylla Plant bug Plant growth regulator RBLR Return bloom Rosy apple aphid Rot Rusty spot Scab Spirea aphid Spotted lanternfly Sticker		Pests, Diseases, Spray
CM Cropload management Fruit finish Fireblight Green peach aphid Japanese beetle Lesser peachtree borer Mites Nutrient OBLR OFM Peachtree borer Pear psylla Plant bug Plant growth regulator RBLR Return bloom Rosy apple aphid Rot Rusty spot Scab Spirea aphid Spotted lanternfly Sticker		Purpose
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Plant growth regulator RBLR Return bloom Rosy apple aphid Rot Rusty spot Scab Spirea aphid Spotted lanternfly Sticker		Pear psylla
RBLR Return bloom Rosy apple aphid Rot Rusty spot Scab Spirea aphid Spotted lanternfly Sticker		Plant bug
Return bloom Rosy apple aphid Rot Rusty spot Scab Spirea aphid Spotted lanternfly Sticker		Plant growth regulator
Rosy apple aphid Rot Rusty spot Scab Spirea aphid Spotted lanternfly Sticker	۱	RBLR
Rot Rusty spot Scab Spirea aphid Spotted lanternfly Sticker		Return bloom
Rusty spot Scab Spirea aphid Spotted lanternfly Sticker		Rosy apple aphid
Scab Spirea aphid Spotted lanternfly Sticker		Rot
Spirea aphid Spotted lanternfly Sticker		Rusty spot
Spotted lanternfly Sticker		Scab
Sticker		Spirea aphid
		Spotted lanternfly
STI M		Sticker
		QTI M

Pasts Diseases Shray

#### COST SUMMARY:

Tabulated from spray records and farm information.

	Spray Program	Spray Program Cost
	Cost	per Acre
Apple		
Peach		
Cherry		
Pear		
Total		



#### Fruit Growth Stages

Apple Pear

Silver tip Dormant to green tip
Green tip Green cluster bud
Half inch green delaye White bud (popcorn)

Tight cluster to open c Bloom
Pink Petal fall
Bloom Cover spray
Petal fall Pre-harvest
Cover spray Post-harvest

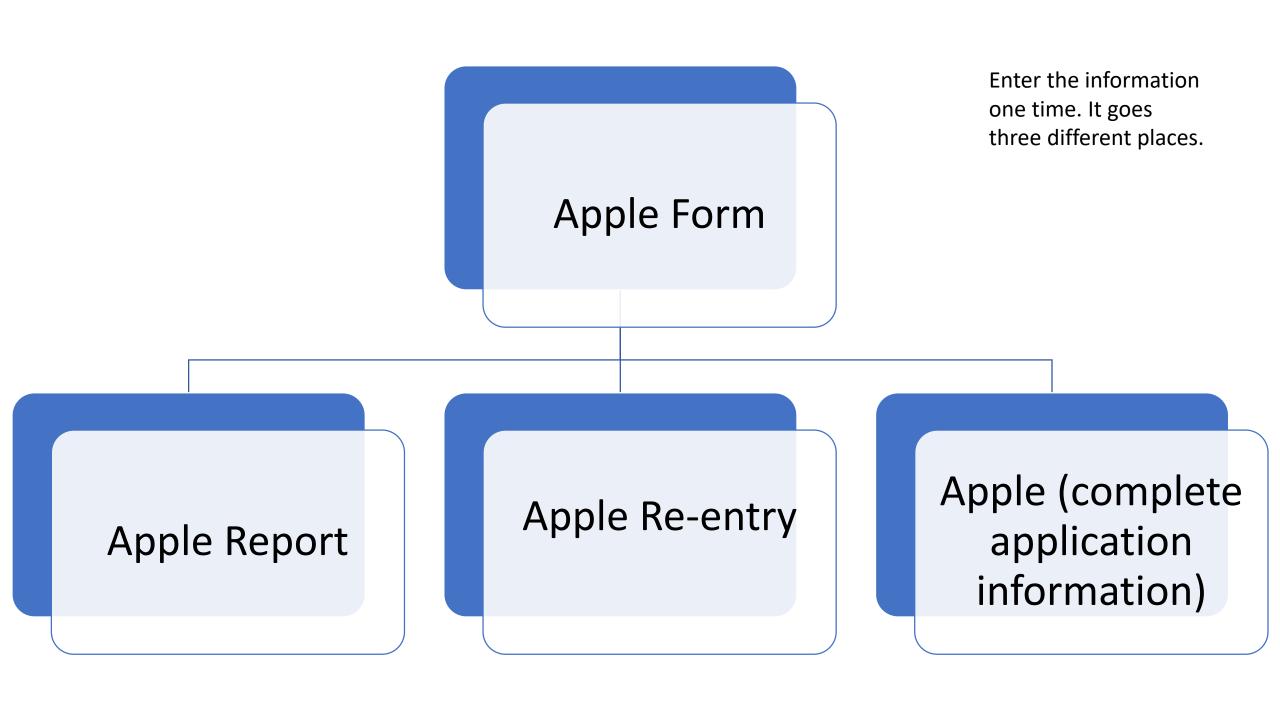
Pre hanget

Grower Name		0				DISCLAIMER: Considerable tin verify that the EPA number in t	ne and effo his program	ort was spent to enter regi m correlates to the produ	stration numbers, f	REI's, and PHI's from product is	bels.However, the	only way to ensure the	he accuracy of your	records is to	Crop	: APPLES
Grower No		0				recommendations see the Pen	n State Tre	e Fruit Production Guide	c being used and it	eau (ne label goulselr. This spre	rausneet was develo	opea for recorakeep	ing purposes omy, r	or ruither ir 141		
ll in all colum	ns with a blue he	ading.														
Application Date	Time Start - Ex. 10 AM	Time Stop - Ex. 10:30 AM	Block	Temp. Average While Spraying	Wind Speed or Conditions	Fruit Growth Stage	"X" if altern. middl e	Target Disease or Pest	Pesti	cide Trade Name	Formulation (50W, 4L, etc.)	Active Ing		EPA Registration Number	REI (HRS)	PHI (DAY
																+
																+
Pei	nn State Exten	siam Darde	l- D		I 6	pples Apple Re-en	h		Descri	Apple List Peac	List C	1 i - t - 1	Decre List I	VE Course	1 -44	VE C-21

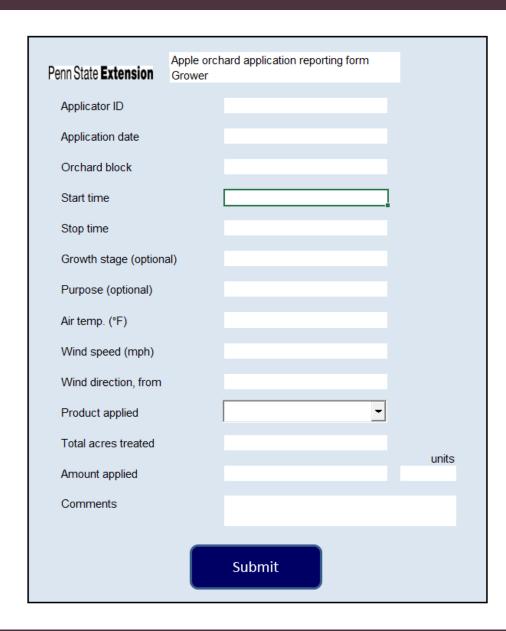
- List of 500+ orchard application products prepared in the spreadsheet
  - REIs, PHIs, and other relevant information available in one convenient format
  - EPA registration numbers, active ingredient, formulations auto-populate once you select the commercial product name applied
- Drop-down menus for record-keeping of product applications
- Automatic calculation of REIs
- One convenient spreadsheet for housing all of your spray information
- Accepted by Rice Fruit Company and Knouse Foods as documentation of orchard application record
- How many of you are using it?

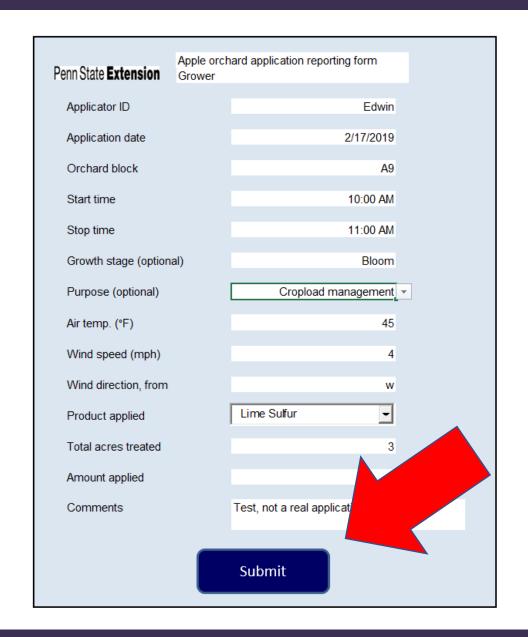
Our team was given the task of updating the spreadsheet for 2019.

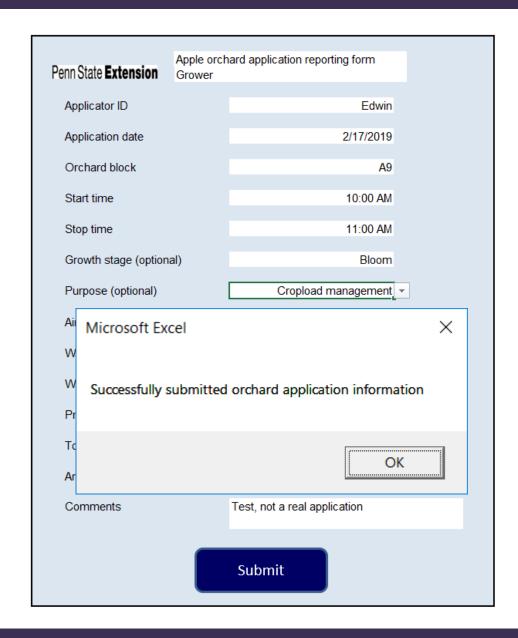
- We updated registration numbers, REIs, PHIs, products that have been added or dropped out of use by the industry for ~600 products
  - For apple and for peach only
- Updated the reporting tools for printing out reports
- Created a reporting form to simplify and streamline the process for entering orchard application information.



# Apple Form



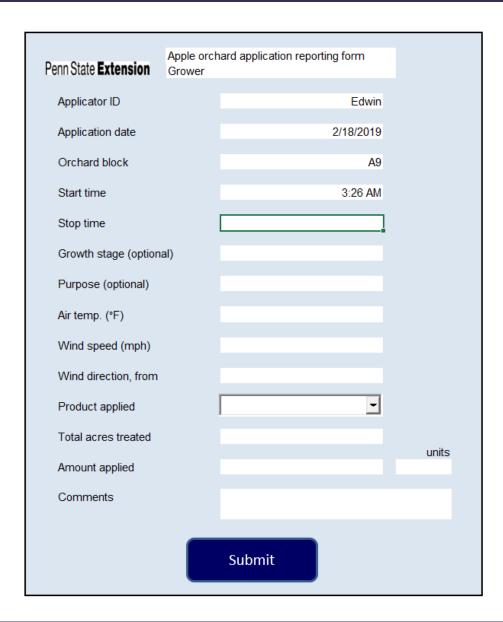




Form then clears for the next application information.

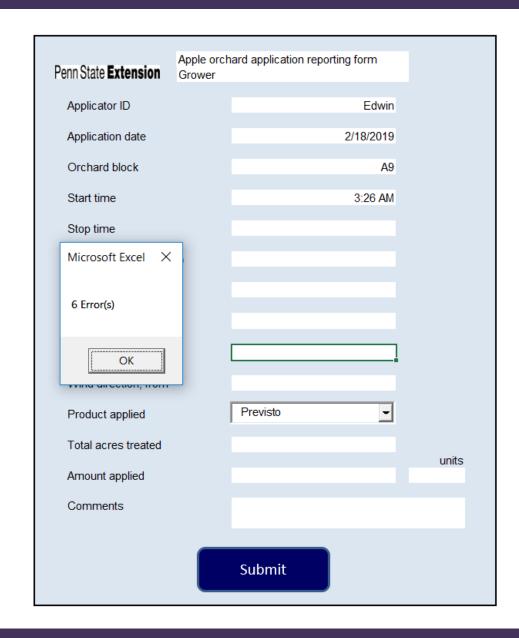
Some information is retained on the form.

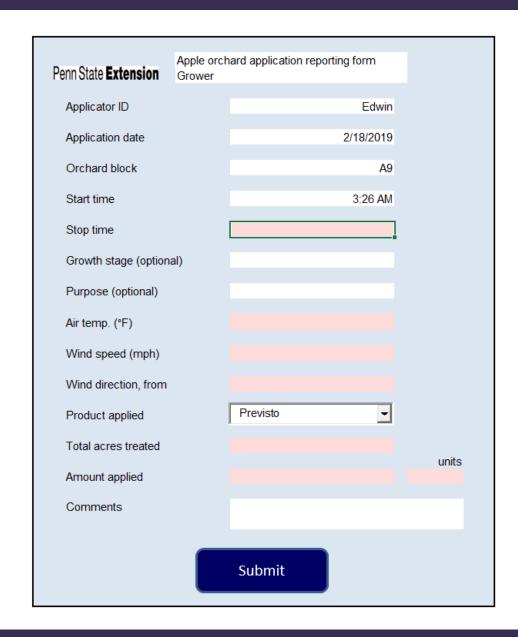
Applicator ID stays the same as it was (change it if you need to). Orchard block stays the same.



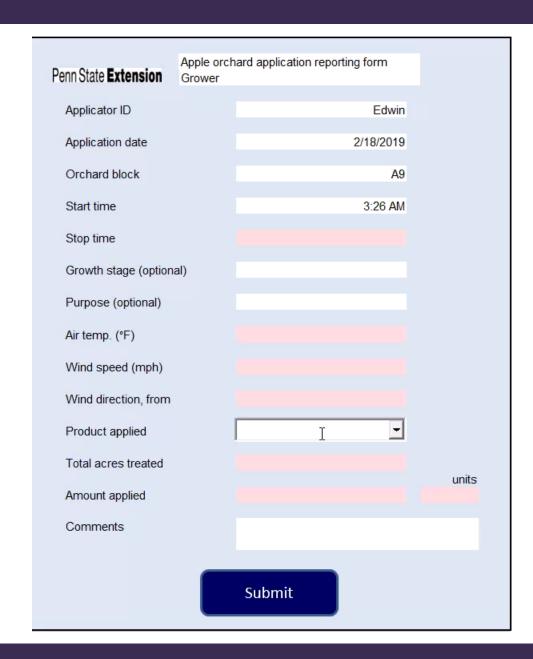
Time and date are populated with the current time and date.

Change them if you need to.





Text autocomplete in dropdown menu by alphabetical entry



### **Apple Report**

Application record for orchard maintenance products, to be used for recordkeeping of product applications to apple orchards Disclaimer: Time and effort were spent to enter registration numbers, REI's, and PHI's from Spreadsheet format initialized by product labels. However, the only way to ensure the accuracy of your records is to verify that Penn State Extension for: the EPA number in this program correlates to the product being used and read the label Grower Name 0 yourself. This spreadsheet was developed for recordkeeping purposes only, for further IPM Grower Number recommendations see the Penn State Tree Fruit Production Guide. AppID Block Start Date Stop Product EPA Reg Acres amt Unit Comments 2/17/2019 Edwin A9 10:00 AM 11:00 AM Lime Sulfur 34704-321 Test, not a real applica 1 quarts

### Apple Re-Entry Tab

### Penn State Extension

Grower Name: 0

### Worker Protection Standard - Central Posting Form for Apples

Treated

### Spray Application Information

Safe Re-entry

Are	a(s)								Sate R	e-entry
Crop	<b>Blocks</b>	Pesticide Trade Name	<b>Active Ingredient</b>	EPA Reg#	<b>Spray Date</b>	Start Time	<b>End Time</b>	REI (hrs)	Date	Time
Apple	A9	Lime Sulfur	lime sulfur	34704-321	2/17/2019	10:00:00 AM	11:00:00 AM	48	02/19/19	11:00 AM

## Apple Tab

Grower Name:		0												Crop:	apple			Year:	2019			
Grower No:		0			Penn	State Ex	ctension															
Fill in all columns with a blue heading.			1 01111	Oldio <b>I</b> A																		
Application date	Time start	Time stop		200	Wind speed (mph)	Wind dir.	Applicator number	Growth stage	Purpose	Pesticide trade name	Form.	Active Ingredients	EPA registration number	REI (hours)	PHI (days)	PHI (release date)	USE	Total acres treated	Amount applied	Unit	Amount per acre applied	
2/17/2019	10:00 AM	11:00 AM	A9	45	4	W	Edwin	Bloom	Cropload	Lime Sulfur		lime sulfur	34704-321	48	N/A	see label	0	3	1	quar	0.33	Test, no

# Wanted: Volunteers for testing the spreadsheet

Email: <a href="mailto:hew6@psu.edu">hew6@psu.edu</a>

Current spreadsheet: what works for you and what doesn't?

# Thanks!

Thanks to Tara Baugher, Daniel Weber, Jim Schupp, Larry Hull, Mark Shannon, Warren Aukett, and others!

