

# IPM Pesticide Application Record

Survey123 for field data collection

February 8, 2019



#### **Acronyms**

- ODA = Oregon Department of Agriculture
- IPM = Integrated Pest Management
- PAR = Pesticide Application Record

#### **Objective**

Need PAR to:

- 1. Satisfy ODA requirement
- 2. Track Metro pesticide use

### Paper Record

Inconsistencies and human errors

Not going to work

1 Start time So		Site name/address			Company name			License Pub, Comm; Ag-herbc, Forest, Aqua, Orna- Herb, Orna-Insect/fun, ROW, IIHS-Gen, 4 IIHS-Struc	
itart tim is				2		,		Other:	
in .	e		End time		Aquatic application	Aquatic area	Linear ft.	Sq. Ft.	Aquatic
	AM or F	M	56	AM or PM	6e yes, no	treated	Sia	6c	66 initial, re-treatment
App.	Description o	f area tr	eated	Target pest	Application type	# Of units of area	Unit of 12	Application equi	ipment
7				,	10	11 treated	measure	13	
App. #1				invasive weed, rodent, indoor insect,	spot, blanket, bait, frilling,		acres,	backpack, bait star	ion, spray bottle, spreader, pov
				annual weed/grass Other/detail:	basal stump Other:		sq. ft.,	sprayer Other:	
							lin. ft., n/a		
App. #2				invasive weed, rodent, indoor insect,	spot, blanket, bait, frilling,		acres,		ion, spray bottle, spreader, pov
				annual weed/grass Other/detail:	basal stump Other:		sq. ft.,	sprayer Other:	
_							lin. ft., n/a		
App. #3				invasive weed, rodent, indoor insect, annual weed/grass Other/detail:	spot, blanket, bait, frilling, basal stump. Other:		acres, sq. ft	sprayer Other:	sion, spray bottle, spreader, pov
				annual weed/grass Other/detail:	basai stump Otner:		in. ft., n/a	sprayer Other:	
App. #	Product no			EPA reg. #	Total amount product	Product units		Concentration	Distributor or store
upp. w	15	anne		16 EPA 10g. W	17 used	18	used	20 %	21 and location
	13			,"	i/ useu	fl. oz., gal., qt., pint,	T	- N	
						lbs., mL., gram	gal		
						fl. oz., gal., qt., pint,		%	
						lbs., mL., gram	gal		
						fl. oz., gal., qt., pint,		%	
						lbs., mL., gram	gal		
						fl. oz., gal., qt., pint,	l .	%	
$\rightarrow$						lbs., mL., gram	gal	Rate fi.	
	For power sprayer only					fl. oz., gal., qt., pint, lbs., mL., gram	410	oz/ac.	
-	roi poinei sproyei ony					fl. oz., gal., qt., pint,	Ee	Rate fi.	
	For power sprayer only					lbs., mL, gram	491	oz/ac.	
Adjuvant/indicator dye FL oz. adjuv./dye used				Weather	Additional Trainee/			License #/s	
idjuvant 2		FIL OZ. 80 23	ijuv./aye usea	Weather 24		25a	Apprentice/	Applicator/s	License #/s
				. Wind direction					
				ь. Wind speed					
				e Air temp. (*F)					
				e Rel. Humidity					
iotes						_			
s s									
	Name (print)		279	License #	276	_			
_	reame (print)		271	License #	276				
ignature									

#### Metro Pesticide Application Record instructions Completed Metro Pestivide Application Records must be submitted to the Metro IPM Coordinator the first week of the month immediately following the application/s 2. Indicate the name of your company or organization, e.g.: "Metro," or "Sprague."

licensed applicators may chapse to create separate records since all licensed applicators listed on a record will be liable for all applications reported on the record.

1. Use the official name of the property or facility where the treatment was made, e.g.: "Portland'S Arlene Schnitzer Concert Hall," or "Richardson Creek," and its address.

- 3. Write in the date of application. Format date as "mm/dd/yyyy."

4. Indicate the active licenseand categories possessed by the applicator, Remember applicator must possess an active license specific to any applications recorded on this form. Natural areas herbicide applications require at a minimum, either a Forest, Agriculture-herbicide or aquatic category. 5. a. Indicate the time at the beginning of your actual application/s and "am" or "pm"

- 6. This section for aquatic applications only within 3 feet of water or surface treatment over water. Note that this refers to only the aquatic partians of any applications listed below
- a. Indicate if the application requires an aquatic license, i.e.; is within 3 feet of water or is a treatment over surface water. b. Fill in the area treated in linear feet for aquatic applications within 3 feet of the water's edge.
- h. Indicate the time at the end of your actual application/s and "am" or "om " c. Fill in the area treated in square feet for aquatic applications over surface water.
- d. Indicate if this is the first aquatic application at this location during the current calendar year or if it is a re-treatment.
- 7. Each record sheet can accommodate up to three separate applications as long as they occur at the same time on the same day at the same property 8. Describe the area treated. For example: "Along stream in SE guadrant of property," or "front landscape bed of red barn." or "wall void in primate building."
- 9. Circle the category of target next or write in a different category. More specific information such as the type or species of insect or weed is notional.
- 10. Circle the method of application from the options given or write one in.

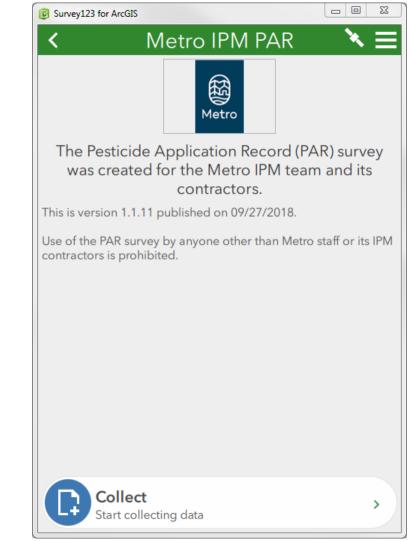
11. Write in the number of units of area treated. For blanket applications, indicate actual area treated. For spot applications, use the size of the area on the size within which the applications were made. this could be the management unit, treatment unit, area walked through to make the applications, or the lineal feet of a creek or sidewalk. For baits, gels, bio-foams and wall void applications, write in

- 12. Indicate the unit of measure for the number of units of area treated listed in box #11.
- 13. Circle the application equipment or apparatus used from the options listed, or write-in another
- 14. Write in the application number from above (#1, #2 or #3) for each product listed in the box to the right. This allows multiple products to be listed for a single application, such as in the case of tank
- 15. Write in the product name or trade name as it appears on the actual label (e.g.: "Roundup Pro" or "Advion Ant Gel").
- 16. Write in the entire EPA Registration Number from the actual pesticide product label on the actual container used
- 17. Write in the total amount of product applied in the area treated, using one of the units of measure listed in box #17 to the right. For baits in predetermined blocks or packets, calculate amount by multiplying the number of grams per packet by the number of packets.
- 18. Indicate the unit of measure for the number of units of product used as listed in box #17.
- 19. For tank mixes, indicate the total volume of mix that you used for this application, in gallons. Note: this quantity will be repeated for each product in the mix. 20. Indicate the concentration of product in the tank mixture. For power sprayer applications, use bottom rows and indicate Fluid ounces per acre, if applicable
- 21. Provide the name of the business where the product was purchased, and its location. 22. Write in the type of indicator die or adjuvant used. Leave blank if none used.
- 23. Write in the number of fluid ounces of indicator die or adjuvant used. Leave blank if none used.
- 24. This box applies to outdoor applications only. a. Indicate which direction the wind is coming FROM.
- b. Write in the wind speed in miles per hour.
- c. Write in the air temp in degrees Eabrenheit. d. Record the relative humidity
- 25. List all Trainees. Apprentices and Applicators other than the one filling out this record, plus their active license numbers.
- 26. Use this space to describe any other information that may be pertinent to this application such as "kids playing adjacent to property," "homeowner asked what we were doing," "started to rain as we
- 27. a. Print the name of the licensed Applicator approving the record.
- b. Write in the active license number of the person approving the record.
- c. Use this space for the signature of the person approving the record.

### Survey123

Pesticide applicator downloads app to phone or tablet

Network connection not necessary



## **Survey123 Connect**

Software for creating PAR

Design in excel workbook "My Survey Designs"

1	type	¥	name	
2	begin group		GeneralInfo	
3	select_one ipmCompanyName	CompanyName		
4	text		WorkEffortNumber	
5	select_one ipmApplicator		ApplicatorNameLcnsNum	
6	text		ApplicatorNameLcnsNumOthr	
7	select_one ipmLicenseType		ApplicatorLicenseType	
8	select_multiple ipmLicenseCategory		ApplicatorLicenseCategories	
9	select_one ipmSiteList		IpmSiteId	
10	calculate		siteLocation	
11	geopoint		location	
12	date		ApplicationDate	
13	text		ApplicationStartTime	
14	text		ApplicationEndTime	
15	calculate		ApplicationTotalTime	
16	note			
17	select_one ipmNoYes		treatmentsOutside	
18	begin group		Weather	
19	note		BeginWeather	
20	integer		BeginWindSpeed	
21	select_one ipmWindFrom		BeginWindFromDirection	
22	integer		BeginTemperatureFarenheit	
23	integer		BeginRelativeHumidity	
24	note			
25	integer		EndWindSpeed	
26	select_one ipmWindFrom		EndWindFromDirection	
27	integer		EndTemperatureFarenheit	
28	integer		EndRelativeHumidity	
29	end group			
30	end group			
31	begin repeat		Treatments	
32	note			
	text		TreatmentAreaDescription	
34	select_multiple ipmTargetPest		TargetPestCategories	
35	text		TargetPestOther	
	text		TargetPestNotes	
37	select_one ipmApplicationMethod		ApplicationMethod	
38	text		ApplicationMethodOther	
	select_one ipmApplicationEquipment	t	ApplicationEquipment	
40	text	_	ApplicationEquipmentOther	
	decimal		areaTreated	

General Information

Work Effort Number:

Lead applicator name & licer

Specify other lead applicator

Lead applicator license type

Lead applicator license cated

Your company:

Metro site

Start time

End time

Weather

= 'red'>\*</font>

Temperature (F) Relative humidity (%):

Wind speed (MPH):

Direction wind from:

Wind speed (MPH):

Direction wind from:

Relative humidity (%):

Temperature (F):

Metro site map

Application date:

Application Total Time <font color= reg >Start t

End time </b></font>

Were any treatments outside

<font color = plue > Start of A

<font color = 'blue'>End of A

Treatments per record </ems

Specify other target pest cat

Treatment area description:

Target pest categories:

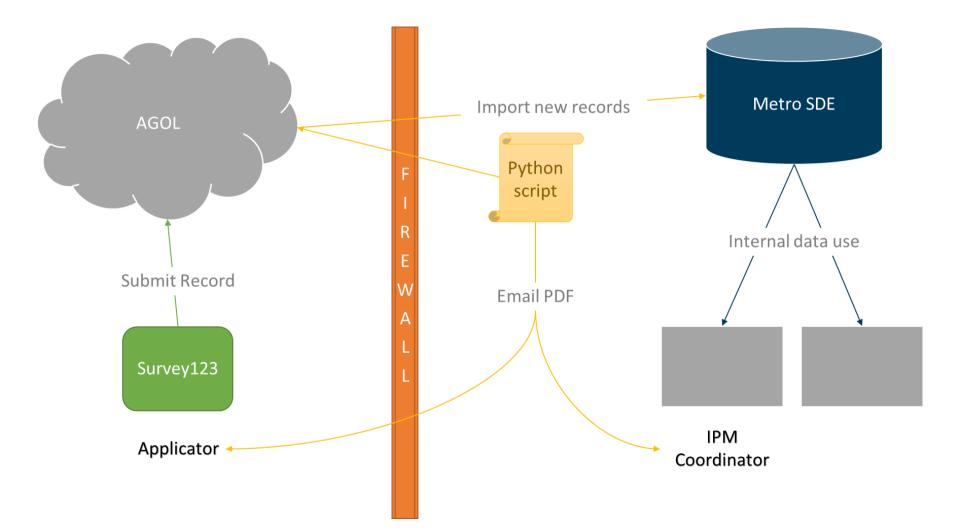
Target pest notes:

Application method Specify other application met

Application equipment

Area treated:

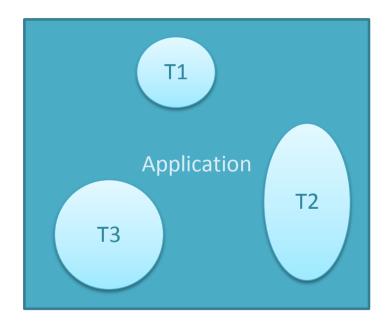
Specify other application equ



#### **Issue: No Nested Relationships**

Not available in version of Survey123 Connect

Workaround: up to 3 products per treatment



#### **Issue: Global ID**

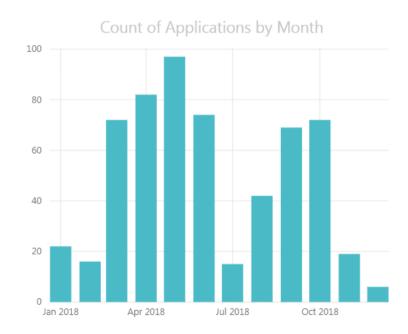
New global ID assigned when data copied from AGOL to Metro SDE

Workaround: additional field in Metro data for AGOL ID

#### **Results and Next Steps**

590 records submitted in 2018

Power BI dashboard to view data



#### Questions?

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Arts and events
Garbage and recycling
Land and transportation
Oregon Zoo
Parks and nature

oregonmetro.gov