# 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*

# 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"

| | type | name | lab |
|---|---|---|---|
| 1 | | | |
| 2 | begin group | GeneralInfo | General Information |
| 3 | select_one ipmCompanyName | CompanyName | Your company: |
| 4 | text | WorkEffortNumber | Work Effort Number: |
| 5 | select_one ipmApplicator | ApplicatorNameLcnsNum | Lead applicator name & licen |
| 6 | text | ApplicatorNameLcnsNumOthr | Specify other lead applicator |
| 7 | select_one ipmLicenseType | ApplicatorLicenseType | Lead applicator license type: |
| 8 | select_multiple ipmLicenseCategory | ApplicatorLicenseCategories | Lead applicator license categ |
| 9 | select_one ipmSiteList | IpmSiteId | Metro site: |
| 10 | calculate | siteLocation | |
| 11 | geopoint | location | Metro site map |
| 12 | date | ApplicationDate | Application date: |
| 13 | text | ApplicationStartTime | Start time: |
| 14 | text | ApplicationEndTime | End time: |
| 15 | calculate | ApplicationTotalTime | Application Total Time: |
| 16 | note | | \<font color="red"\>\<b\>Start ti End time.\</b\>\</font\> |
| 17 | select_one ipmNoYes | treatmentsOutside | Were any treatments outside |
| 18 | begin group | Weather | Weather |
| 19 | note | BeginWeather | \<font color="blue"\>Start of A = 'red'\>\*\</font\> |
| 20 | integer | BeginWindSpeed | Wind speed (MPH): |
| 21 | select_one ipmWindFrom | BeginWindFromDirection | Direction wind from: |
| 22 | integer | BeginTemperatureFarenheit | Temperature (F): |
| 23 | integer | BeginRelativeHumidity | Relative humidity (%): |
| 24 | note | | \<font color="blue"\>End of Ap |
| 25 | integer | EndWindSpeed | Wind speed (MPH): |
| 26 | select_one ipmWindFrom | EndWindFromDirection | Direction wind from: |
| 27 | integer | EndTemperatureFarenheit | Temperature (F): |
| 28 | integer | EndRelativeHumidity | Relative humidity (%): |
| 29 | end group | | |
| 30 | end group | | |
| 31 | begin repeat | Treatments | Treatments |
| 32 | note | | \<b\>Note: \</b\>\<small\>You c Treatments per record.\</sma |
| 33 | text | TreatmentAreaDescription | Treatment area description: |
| 34 | select_multiple ipmTargetPest | TargetPestCategories | Target pest categories: |
| 35 | text | TargetPestOther | Specify other target pest cate |
| 36 | text | TargetPestNotes | Target pest notes: |
| 37 | select_one ipmApplicationMethod | ApplicationMethod | Application method: |
| 38 | text | ApplicationMethodOther | Specify other application met |
| 39 | select_one ipmApplicationEquipment | ApplicationEquipment | Application equipment: |
| 40 | text | ApplicationEquipmentOther | Specify other application equ |
| 41 | decimal | areaTreated | Area treated: |
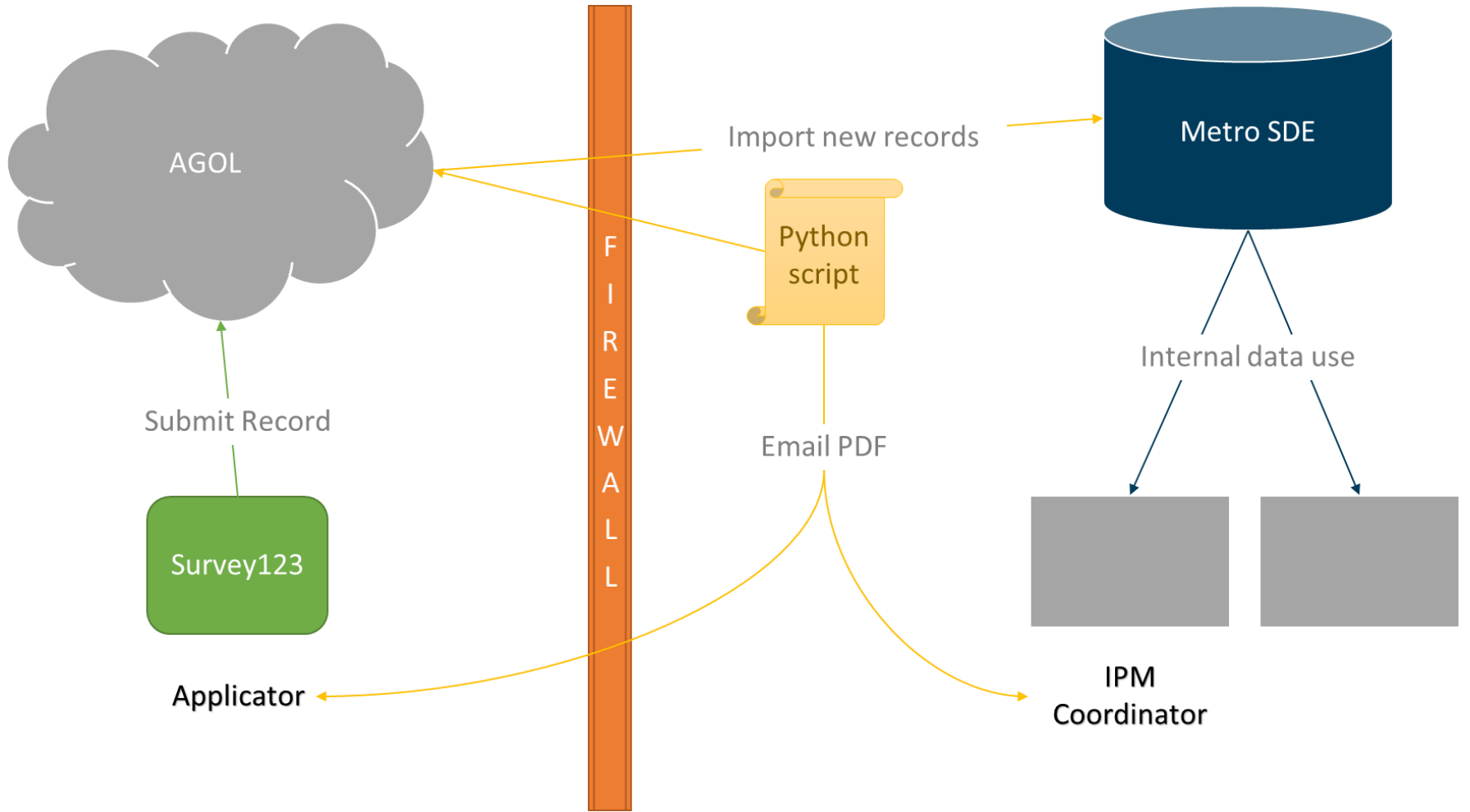
# Issue: No Nested Relationships

Not available in version of Survey123 Connect

Workaround: up to 3 products per treatment
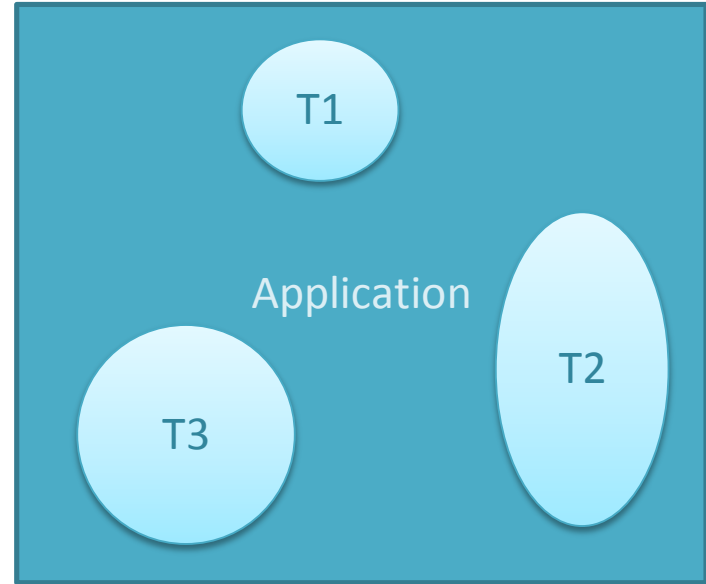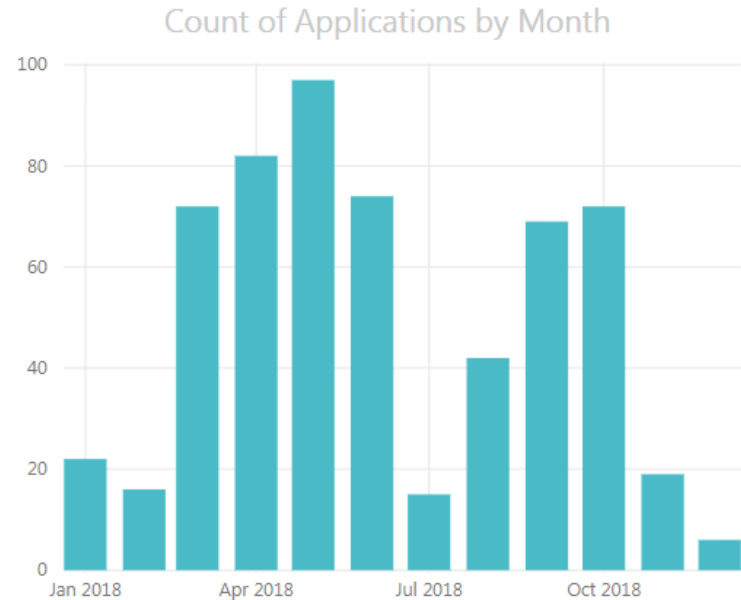
# Issue: Global ID

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


Count of Applications by Month