



20  
19

## Updates

Kevin Jensen  
WSDA

Pesticide Compliance Investigator  
360-902-2044  
[kjensen@agr.wa.gov](mailto:kjensen@agr.wa.gov)











Licensing



Communication



Technology



Case  
Studies



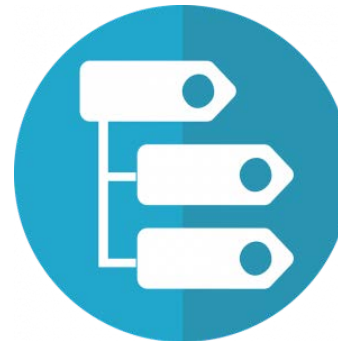
# What kind of License do I need?



License type



Stand Alone Exam



Endorsement



# Commercial Applicator

Applying to lands/property of another.



# Public Operator

Powered apparatus and/or RUP.



# Private Applicator

Using Restricted Use Pesticide (RUP)





# Silent Quiz



Raise your hand when  
you think you got it.







You're a licensed Public Operator for a Parks Department. Have a landscape side business on the weekends.

What kind of license do you need?

A

Commercial Applicator

B

Private Commercial

C

Nothing more, Public Operator is fine





You're spraying a roadside or landscape up to a ditch.  
The ditch has water in it.

You need an aquatic endorsement if...

**A** You create a large buffer and don't get near the water.

**B** You aren't spraying the water and only a little gets in.

**C** The ditch is not a fish bearing stream.

**D** Both B and C.





You're a Commercial Operator applying Casoron (herbicide) & Talstar (insecticide) to a yard.

What endorsement do you need?

- A** Ornamental weed
- B** Ornamental insect and disease
- C** Both types



You're a Public School District employee treating a wasp nest at a school.

What kind of license do you need?

- A** Public Operator Unless! You're using powered equipment or RUP!
- B** Private Applicator
- C** No license needed






You are a Commercial Applicator hired to treat a wasp nest at a daycare center.

What endorsement do you need?

**A** Ornamental Insect and Disease

**B** PCO General

**C** Public Health Control



You are an employee of a private cemetery, applying a Restricted Use Pesticide (RUP)

What license do you need?

**A** Private Applicator (Agriculture)

**B** Private Commercial

**C** Don't need one on private land





Parks employee using powered equipment on a public cemetery.

What license do you need?

- A** Public Operator
- B** Commercial Applicator
- C** None, not using RUP



You are a Public Operator  
applying fumigation pellets for  
gopher control.

What endorsement do you need?

**A** Pest animal (Agriculture situation)

**B** PCO General

**C** Fumigant (Stored commodities)





# Restricted Use Pesticides



# RESTRICTED USE PESTICIDE

For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.



Dow AgroSciences

# Lorsban<sup>®</sup>-4E

## INSECTICIDE

®Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow.

For control of insects on citrus, stone fruits, and vegetables.

Group	1B	INSECTICIDE
-------	----	-------------

Active Ingredient:		
chlorpyrifos: O,O-diethyl-O-(3,5,6-trichloro-2-pyridinyl) phosphorothioate	44.0%	
Other Ingredients	56.0%	
Total	100.0%	

Contains 4 lb of chlorpyrifos per gallon.  
Contains petroleum distillates.

### Precautionary Statements

#### Hazard to Humans and Domestic Animals

EPA Reg. No. 62719-220

# RESTRICTED USE PESTICIDE

DUE TO AVIAN AND AQUATIC TOXICITY

FOR RETAIL SALE TO AND USE ONLY BY CERTIFIED APPLICATORS OR PERSONS UNDER THEIR DIRECT SUPERVISION AND ONLY FOR THOSE USES COVERED BY THE CERTIFIED APPLICATOR'S CERTIFICATION.

# Diazinon AG500

For control of certain insects on fruits, nuts, vegetables, and ornamentals grown outdoors in nurseries.

ACTIVE INGREDIENT:	% BY WT.
Diazinon: O,O-diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl)phosphorothioate	48.0%
INERT INGREDIENTS*	52.0%
TOTAL	100.0%

Contains 4 lbs. diazinon per gallon.

\*Contains xylene range aromatic solvent.

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

See First Aid, precautionary statements and directions for use inside booklet.

## INSECTICIDE

How can we help? 1-866-406-6262

# Federal Restricted Use Pesticide RUP





# Tordon® RTU

### Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

## Specialty Herbicide

For controlling unwanted trees via cut surface treatments in forests and non-cropland areas such as fencerows, roadsides, and rights-of-way.

For additional Precautionary Statements, First Aid, Storage and Disposal and other use information see inside this label.

Notice: Read the entire label. Use only according to label directions. Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies at end of label booklet. If terms are unacceptable, return at once unopened.

Not for sale, distribution or use in Nassau and Suffolk Counties in New York State.

Active Ingredients:

isopropylamine salt	3.4%
2,4-dichlorophenoxyacetic acid, isopropylamine salt	20.9%
Other ingredients	73.7%
Total	100.0%

Acid equivalents:

picloram	3.0%
2,4-dichlorophenoxyacetic acid	11.2%

Keep Out of Reach of Children  
**CAUTION**

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994.

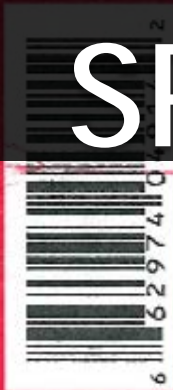
Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

EPA Reg. No. 62719-31  
EPA Est. 62719-MEX-1  
900-016948 / 00117982

MADE IN MEXICO

®Trademark of Dow AgroSciences LLC

Produced for  
Dow AgroSciences LLC  
9330 Zionsville Road  
Indianapolis, IN 46268



Net Contents 1 qt



# Rodeo®

## Herbicide

For control of annual and perennial weeds and woody plants in natural and production (plantations), forests for site preparation, mid-rotation release treatments, timber stand improvement activities, noncrop sites including industrial sites, rights-of-way (including utility easements, pipeline and road airports), and cropland and rangeland areas, residential areas (including waste management areas), wildlife openings, wildlife habitats and refuges, parks and recreational areas, campgrounds, trailheads and roads, and in and around aquatic sites and wetlands for annual or perennial grass release, and grass growth reduction and grazed areas on these sites.

Severe injury or destruction may result.

Group	9	HERBICIDE
Active Ingredient:	glyphosate† N-(phosphonomethyl)glycine,	
	isopropylamine salt	53.8%
Other Ingredients	46.2%	
Total	100.0%	

†Contains 5.4 lb per gallon glyphosate, isopropylamine salt (4 lb per gallon glyphosate acid).

Keep Out of Reach of Children

## CAUTION

Agricultural Use Requirements: Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

For additional Precautionary Statements, First Aid, Storage and Disposal and other use information see inside this label.

Notice: Read the entire label. Use only according to label directions. Before using this product, read Terms and Conditions of Use, Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies at end of label booklet. If terms are unacceptable, return at once unopened.

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

EPA Reg. No. 62719-324  
EPA Est. 34704-MS-01  
900-018361 / 00171701

®Trademark of Dow AgroSciences LLC

Produced for  
Dow AgroSciences LLC  
9330 Zionsville Road  
Indianapolis, IN 46268

# Washington State Restricted Use Pesticide SRUP

**WHAT THE**

**FRIC?**



-Question-



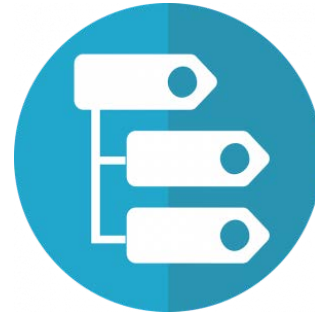
Can you spray today?



Renewed your licensed?



Correct license type?



Correct  
Category/endorsement?



Financial Responsibility  
Insurance Certificate (FRIC)?



WSDA Licensing Department:

[License@agr.wa.gov](mailto:License@agr.wa.gov)

1-877-301-4555





Licensing



Communication



Technology



Case  
Studies



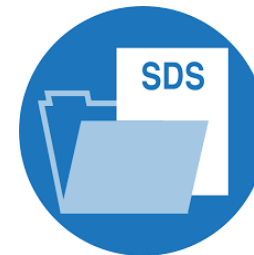
Notification



Postings



Public  
Perception



Safety Sheets



Records



**BLA BLA BLA .**



# Special Notification Circumstances



Pesticide  
Sensitive  
Individuals



Schools

# Don't forget to notify Pesticide Sensitive Individuals!



Lists mailed out  
January and June



Notify (2 hours)



Landscape:  
Adjacent



Right of Way:  
 $\frac{1}{2}$  mile





# School Notification



Licensed day care  
Public K-12



At least 48 hours advance  
Notice.



Marker at each application  
Location & primary points  
of entry.



# Required Posting

Size= 8.5'' x 11''

Product name

Date and time

Location

Pest controlled

Contact information

Remain  $\geq$  24 hours



# Required Posting

4" x 5"

Include:

THIS LANDSCAPE HAS BEEN  
RECENTLY SPRAYED WITH  
PESTICIDES BY YOUR SCHOOL

FOR MORE INFORMATION  
PLEASE CALL: \_\_\_\_\_



THIS LANDSCAPE HAS  
BEEN RECENTLY SPRAYED OR  
TREATED WITH PESTICIDES BY

\*Name of Applicator or Company

FOR MORE INFORMATION  
PLEASE CALL

\*\*Phone number



# Landscape: Where do I post?

Licensed  
Applicator

Residential Property  
Commercial Property  
Golf Courses  
Parks, Cemeteries, rest stop, etc.

Schools  
Nursery schools  
Licensed daycares

Unlicensed  
Applicator



**THIS LANDSCAPE  
HAS BEEN TREATED BY**

\_\_\_\_\_  
COMPANY

\_\_\_\_\_  
PHONE #

**FOR MORE INFORMATION  
PLEASE CALL**  
©BMC #C1026-8





LSI

LANDSCAPE  
SUPPLY INC





**STOP**

**DO NOT ENTER PARK**

**PESTICIDE  
SPRAYING**

**RE-ENTER  
AFTER:**





# Perception





Calls/Complaints:  
“I see someone  
in a full hazmat  
suit...”



How do you  
respond to public  
questions?







Fear of the unknown...



~~“I don’t know.”  
“It’s safe.”~~





Loveland  
PRODUCTS

# LI 700®

LECI-TECH  
INSIDE

GENERAL: LI 700® is a non-ionic and industrial chemical. LI 700 acidity (lower pH) of spray solution and retards drift by producing conditions. Common use is to eliminate drift. LI 700 is compatible with other products at the same ratio as the product.

DIRECTIONS FOR USE: LI 700 is used on small grains, forage crops, industrial (storage areas), rangeland and fence rows (container, field or green) be consulted regarding use. 5% of the finished spray.

Acidifying Agent: Highly acidic (pH 6.5 to 8) 4 to 8 ounce NOTE: LI 700 is an acidifying agent. General Use: Herbicides a penetrant. 12 ounces to Growth Regulators, Foliage spray mixture.

Non Crop Sites: 1 to 8 p Turf and Ornamentals. NOTE: This product has a large area, test on a small area.

STORAGE: Suggested tightly closed. Do not DISPOSAL: Do not dispose of this product at a disposal facility. Triple sanitary landfill, or by of container disposal state and local ACRRC For help with any questions call 1-800-332-3111

BEFORE BUYING OR USING: Read the entire label before using this product. Use only according to label instructions. Not all products listed on this label are registered for use in California. Check the registration status of each product in California before using. THE MANUFACTURER MAKES NO WARRANTY AND LIABILITY statement at the end of the label before use. If the product is not acceptable, return at once unopened. THIS IS A NON-IONIC PRODUCT. MONSANTO DOES NOT INTEND AND HAS NOT INTENDED TO FORMULATE FOR FORMULATION. SEE INDIVIDUAL CONTAINER LABEL FOR PACKAGING LIMITATIONS.

## 1.0 INGREDIENTS

### ACTIVE INGREDIENT:

\*Glyphosate, N-(phosphonomethyl)glycine, in the form of its isopropylamine salt.....53.8%  
OTHER INGREDIENTS.....46.2%  
Total.....100.0%

\*Contains 648 grams per liter or 5.4 pounds per U.S. gallon of the active ingredient glyphosate, in the form of its isopropylamine salt. Equivalent to 480 grams per liter or 4.0 pounds per U.S. gallon of the acid, glyphosate.

No license granted under any non-U.S. patent(s).

### ATTENTION:

This specimen label is provided for general information only.

- This pesticide product may not yet be available or approved for sale or use in your area.
- It is your responsibility to follow all Federal, state and local laws and regulations regarding the use of pesticides.
- Before using any pesticide, be sure the intended use is approved in your state or locality.
- Your state or locality may require additional precautions and instructions for use of this product that are not included here.
- Monsanto does not guarantee the completeness or accuracy of this specimen label. The information found in this label may differ from the information on the actual product label.
- Product labels must have the EPA approved labeling with you at the time of use and must read and follow all label directions.
- You should not use any use of a similar product on the precautions, instructions for use or other information you find here.
- Always follow the precautions and instructions for use on the label of the pesticide you are using.

211531-1-37

## Roundup CUSTOM™

FOR AQUATIC & TERRESTRIAL USE



### Complete Directions for Use

Roundup Custom for Aquatic and Terrestrial Use is a complete broad-spectrum herbicide for aquatic, crop, non-agricultural crop, industrial, turf, ornamental, roadside, and utility rights-of-way weed control.

GROUP 9 HERBICIDE

AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, BECAUSE SEVERE INJURY OR DESTRUCTION MAY RESULT.

Read the entire label before using this product.

Use only according to label instructions.

Not all products listed on this label are registered for use in California. Check the registration status of each product in California before using.

THE MANUFACTURER MAKES NO WARRANTY AND LIABILITY statement at the end of the label before use. If the product is not acceptable, return at once unopened.

THIS IS A NON-IONIC PRODUCT. MONSANTO DOES NOT INTEND AND HAS NOT INTENDED TO FORMULATE FOR FORMULATION. SEE INDIVIDUAL CONTAINER LABEL FOR PACKAGING LIMITATIONS.

PRODUCT INFORMATION

### NET CONTENTS.

30 GAL. (113.55 L)

275 GAL. (1040.87 L)

GAL. ( \_\_\_\_\_ ) L)

Loveland Products, Inc. • PO Box 1286 •

# Label SDS NPIC

### 2.0 IMPORTANT PHONE NUMBERS

FOR PRODUCT INFORMATION OR ASSISTANCE IN USING THIS PRODUCT, CALL 1-800-332-3111. TOLL-FREE.  
IN CASE OF AN EMERGENCY INVOLVING THIS PRODUCT, OR FOR ASSISTANCE, CALL COLLECT, DAY OR NIGHT, (314) 694-3111.

### 3.0 PRECAUTIONARY STATEMENTS

#### 3.1 Hazards to Humans and Domestic Animals

Keep Out of Reach of Children.

#### CAUTION!

DOMESTIC ANIMALS: This product is considered to be relatively non-toxic to other domestic animals; however, ingestion of this product or large quantities of sprayed vegetation may result in temporary gastrointestinal irritation (colic, etc.). If such symptoms are observed, provide the animal with plenty of water to prevent dehydration. Call a veterinarian if symptoms persist for more than 24 hours.

Personal Protective Equipment (PPE) Applicators and other handlers must wear: long-sleeved shirt and long pants, plus socks. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Control Statements: When handlers use closed equipment, cabs, or aircraft in a manner that meets the requirements listed in the Standard (WFS) for agricultural pesticides (40 CFR 170.240 (d)), the requirements may be reduced or modified as specified in the WFS.

#### User Safety Recommendations:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using a telephone.
- Remove contaminated clothing and wash clothing before reuse.

### 3.2 Environmental Hazards

Do not contaminate water when cleaning equipment or washing clothes. Treatment of aquatic weeds can result in oxygen depletion of water bodies. Decomposition of dead plants. This oxygen loss can cause fish kills. In case of SPILL or LEAK, soak up and remove to a landfill.

### 3.3 Physical or Chemical Hazards

Spray solutions of this product should be mixed, stored and transported in steel, fiberglass, plastic or plastic lined steel containers.

DO NOT MIX, STORE OR APPLY THIS PRODUCT OR SPRAY SOLUTION IN GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS STEEL) OR SPRAY TANKS. This product or spray solutions of this product in containers and tanks to produce hydrogen gas which may be flammable. This gas mixture could flash or explode, causing injury or property damage if ignited by open flame, spark, welder's torch, lighted cigarette, etc.

It is a violation of Federal law to use this product in any manner not approved on this label or in separately published Monsanto Supplemental Labeling. Supplemental labeling can be found on the Internet at [www.wwwwww.greenbook.net](http://www.wwwwww.greenbook.net) websites but may not be approved for use in all states. Also be obtained by contacting your Authorized Monsanto Representative.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.



Search...

Health & Environment ▾

Pest Control ▾

Pesticide Products ▾

Pesticide Incidents ▾

Emergency ▾

1-800-858-7378

[npic@ace.orst.edu](mailto:npic@ace.orst.edu)

8:00AM to 12:00 PM

M-F



Licensing



Communication



Technology



Case  
Studies



# Emerging Technology



Record  
Keeping



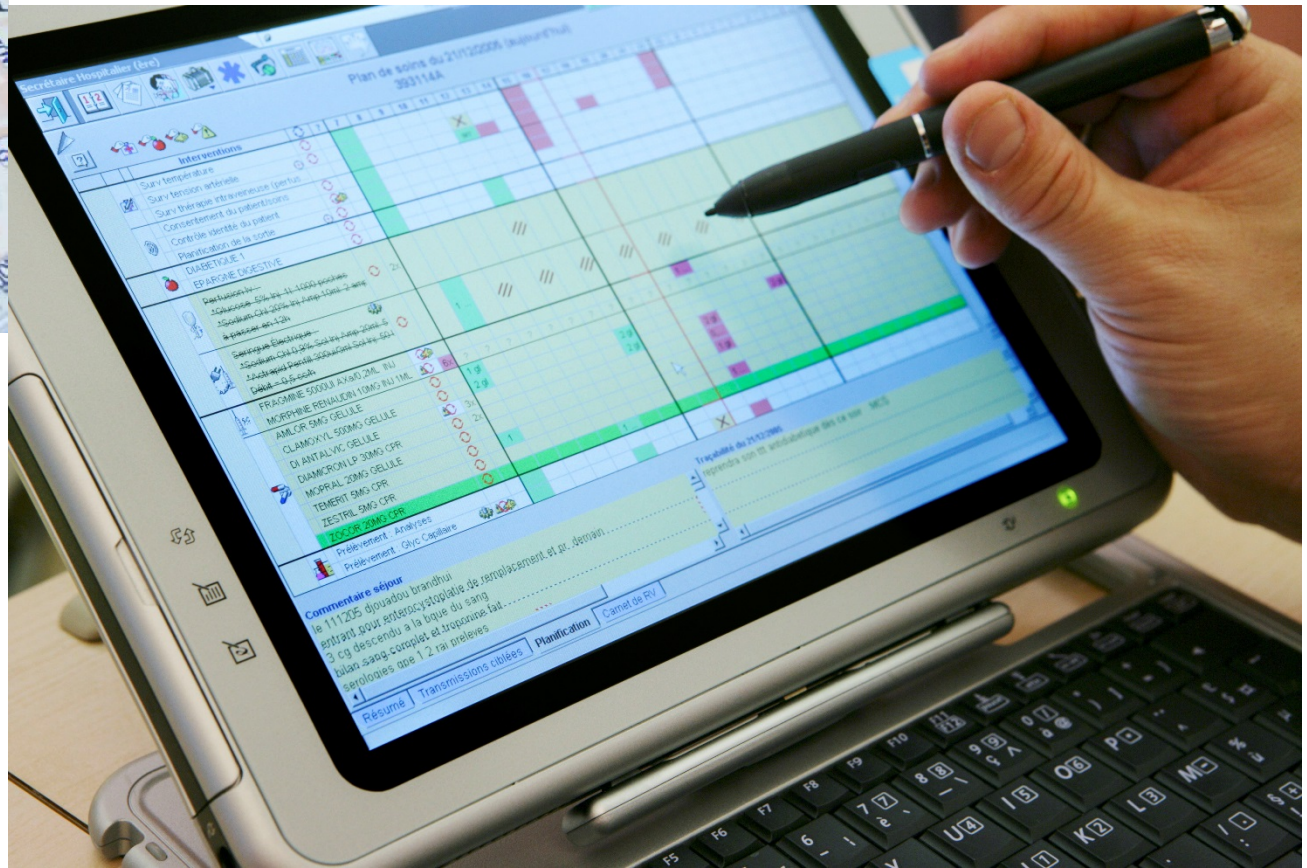
Application

# Application Records





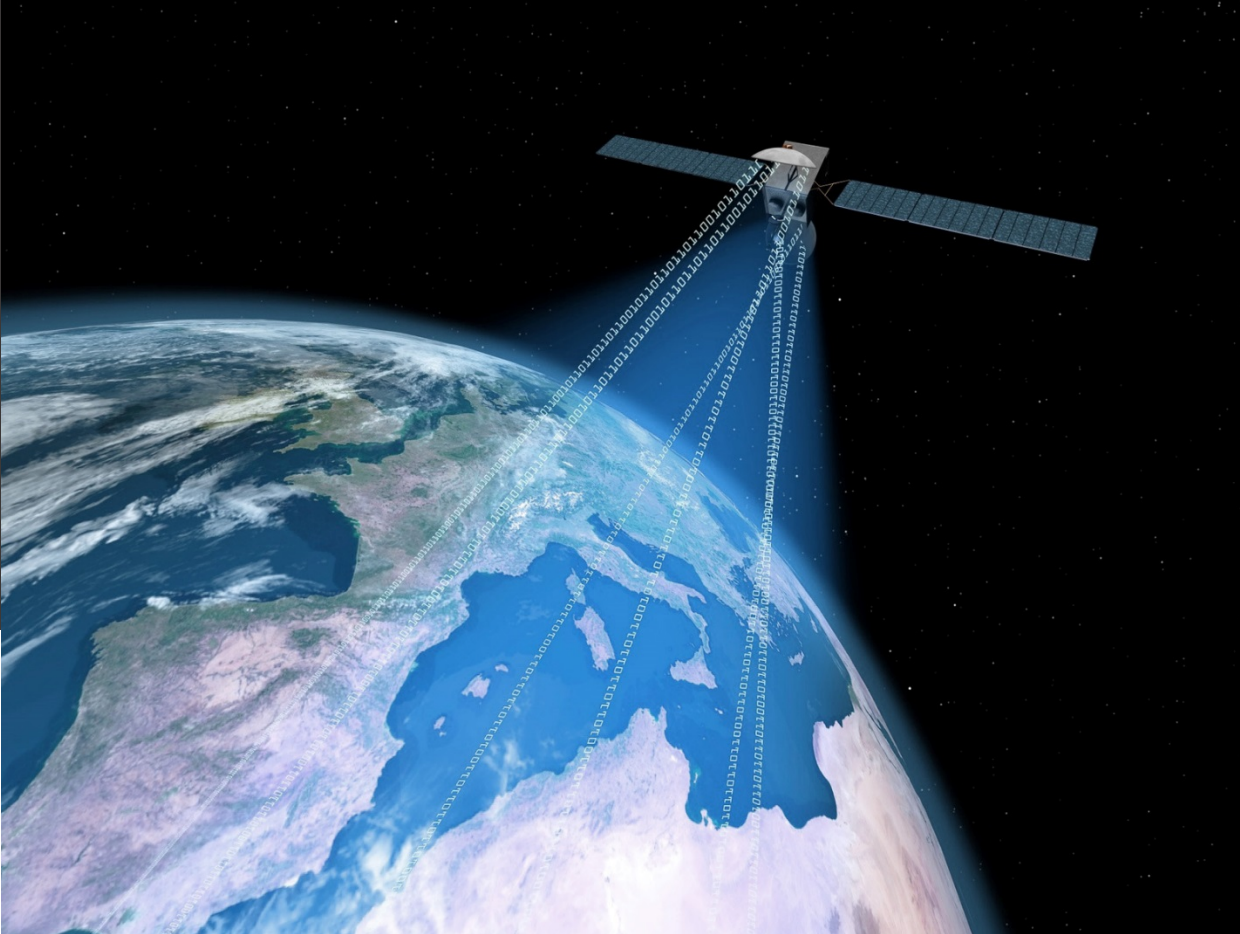
May be an application or spreadsheet accessed from field laptop or tablet



May be tracking navigation system on your truck making Right-of-Way applications.



# Electronic Records



Can improve  
Access to info



Can save time

Just make sure records...



Keep track of all  
required items



# Keep Complete Records

State of Washington  
Department of Agriculture  
Olympia, Washington 98504

## PESTICIDE APPLICATION RECORD (Version 2)

**NOTE:** Application information must be completed same day as the application and must be retained for seven years (Ref. chapter 17.21 RCW)

<p>1. Name &amp; Address of Person for Whom Pesticide was Applied:</p> <p style="font-size: 1.2em; color: blue;"><b>Herb Green</b></p> <p style="font-size: 1.2em; color: blue;"><b>111199 25<sup>th</sup> Greener Ct NE</b></p> <p style="font-size: 1.2em; color: blue;"><b>Snow City, WA 09001</b></p>	<p>2. Applicator Name and Address (if different from #1):</p> <p style="font-size: 1.2em; color: red;"><b>Tank Smith, Tank's Spray Service</b></p> <p style="font-size: 1.2em; color: red;"><b>12333 Rainy Lane, SeaTown, WA 09000</b></p> <p style="font-size: 1.2em; color: red;"><b>(360)111-0000</b>      Lic. No. <b>Lic # 01234</b></p>
<p>3. Full, complete address or exact location of application. (NOTE: If the application is made to one acre or more of agricultural land, the field location must be shown on the map on page two of this form.)</p> <p style="font-size: 1.2em; color: red;"><b>Front &amp; Back Yards, All Ornamentals</b></p>	

**2 gal Backpack & 500 gal Tank Truck**

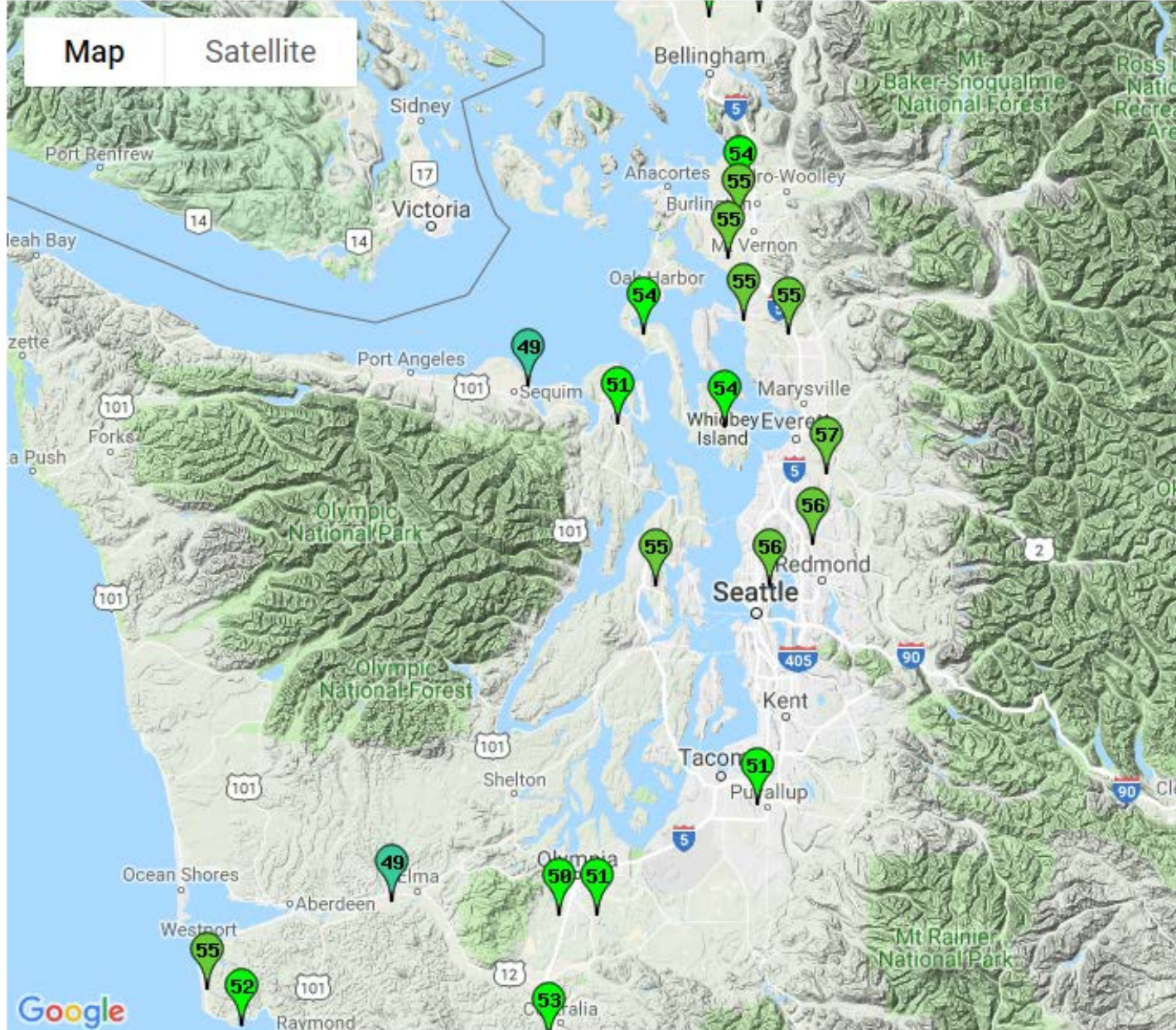
**Hose Sprayer, gave SDS to Mrs. Jones**

5. Date and Time of Application (Start and Stop)	6. Crop or Site Treated	7. Acres Treated (or other measure)	8. FULL PRODUCT NAME	9. EPA Registration Number	10. Amount of Product Applied		11. Concentration	12. Weather Conditions, (wind direction, velocity, temperature). Apparatus License Plate No. and Name and License No. of person(s) who applied pesticide
					Rate per acre (or other measure)	Total Product Applied		
7/31/10 9:00 am to 9:30am	Orn.  <input type="checkbox"/> Air <input checked="" type="checkbox"/> Ground <input type="checkbox"/> Chemigation	2000 ft <sup>2</sup>	Kill-it-All Bug Killer	EPA Reg. No.  1313-333	16 oz/ 1000 ft <sup>2</sup>	20 oz	4 oz  /gal	SW 1-2 mph  74 °F  WSDA Plate # D555
	<input type="checkbox"/> Air <input type="checkbox"/> Ground <input type="checkbox"/> Chemigation							John Killzit #12345 Jack Driver (unlicensed)



# AgWeatherNet Current Conditions Map

Choose display value: Air Temperature (°F) Zoom to S



# Weather Data



Location of station



Tools



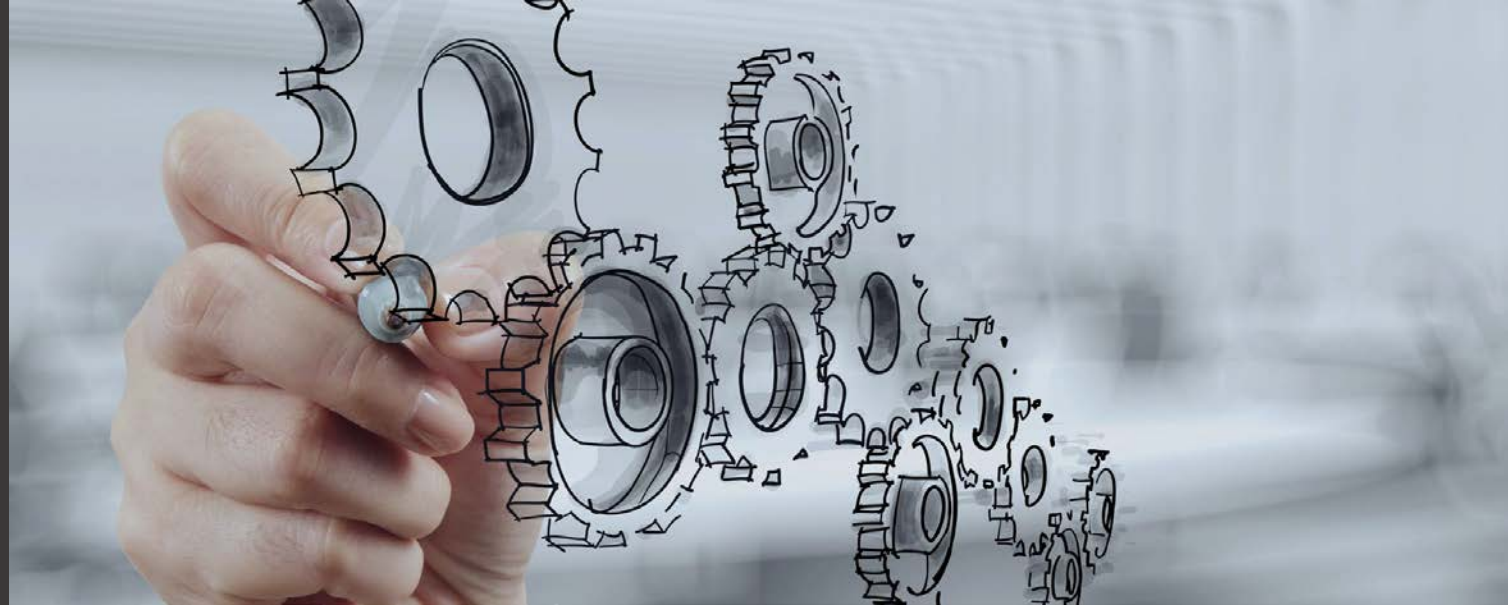
Temperature,  
Wind speed,  
Wind direction



# What tools are you using?



# Application Technology



Spray Equipment  
Precision



Drones



# Equipment



Spray Equipment  
Precision



Sensors



Spray Controllers

# Drone Technology



**Uses**



**Regulation**





# How drones are used?



Collect Data



Inspections



Forestry



Agriculture

# Regulations



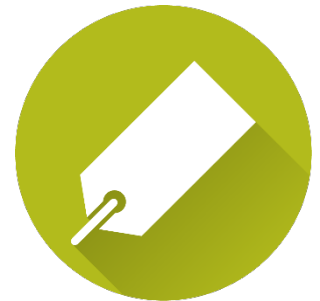
Current Limit  
of 55 lbs.



Pilot exam &  
TSA security



Falls under  
WPS



Label Interpretation  
issues



Maintain  
visual contact













Licensing



Communication



Technology



Case  
Studies



01

A PCO company made a perimeter application of insecticide around a house by mistake. A child was sitting nearby at the time of the application. The home owner never hired the company to make treatments.





# Issues

Ownership change- Lack of communication  
Notification did not take place  
Failure to acknowledge risk to child

**\*\*Initial denial of wrong doing by applicator\*\***



# Action

Swab samples positive for Deltamethrin where applicator stated they didn't spray.  
WSDA cited applicator for:  
-Making false statements during a pesticide investigation.





02

Neighbor made an application to trees that drifted onto a daycare center.





# Issues

Video of the application showed drift. There was a heated argument and altercation between parties involved.

The applicator was not wearing appropriate PPE.





# Action

WSDA cited applicator for:

- Label violations
- No Supervision of an unlicensed applicator
- Faulty, Careless, and negligent





03

## Follow-Up Inspection of School District





# ISSUES

Public operators making turf applications around schools using products such as Crossbow.





# Action

WSDA cited operators for:

- Making turf application without proper category
- Several elements missing from records
- Label violation, wind restriction records showed 12-13mph





04

A second hand business removed a leaking window. Upon removal the owner noticed rot and insect damage.





# ISSUES

Owner applied Copper Naphthenate (wood preservative) on exterior and interior wood frame.

Exterior was sealed up, WSDA got an odor complaint. DOH referral.





# Action

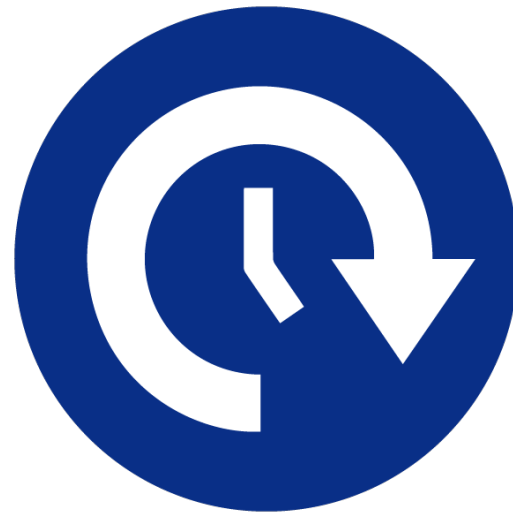
WSDA cited applicator for:

- Using a product labeled for “exterior use only” inside a building.
- Not wearing required PPE

# UPDATES!



Creation of  
Workgroup



Progress



# Pesticide Application Safety workgroup



2018 SB 6529



WSDA, DOH, L&I,  
DNR, CHA



Notification

# Report Due 2018




Draft in review



Final to  
legislature





How many  
of us are  
there in WA?

1,100,000 head of  
cattle in Washington  
State!





# Thanks

## Any Questions?

Kevin Jensen

WSDA Pesticide Compliance  
Investigator

360-902-2044

[kjensen@agr.wa.gov](mailto:kjensen@agr.wa.gov)

*"Some of us grew up  
playing with tractors, the  
lucky ones still do"*