Eastern Oregon Landscape Pest Management

Oregon Department of Agriculture
Michael Odenthal
New Director of Agriculture
– Alexis Taylor

Began January 23, 2017

Most recently with USDA - Farm & Foreign Agricultural Services
Pesticide Registrations in Oregon
Pesticide Registrations in Oregon

- All pesticides sold/distributed in Oregon must be registered annually by ODA
- Wide variety of products that control, kill, mitigate, suppress, repel many different types of pests
- About 13,100 pesticide registrations in 2016
  - Largest category, 4,000-5,000 antimicrobial products (control algae, bacteria, fungi, viruses on hard surfaces, in recreational/industrial water, in air!)
  - Personal and pet care products
  - Home and garden products
  - Professional pest control, turf/ornamental products
  - Agricultural, commercial nursery production, forestry
Pesticide Registrations in Oregon

- 13,100 Oregon pesticide registrations in 2016
- ~ 650 minimum risk pesticides – “25(b) products” exempt from federal EPA registration, FIFRA Sec. 25(b)
- ~ 12,500 “conventional pesticides” – require EPA reg.
  - ~ 550 restricted use pesticides (RUPs) – require applicator license to purchase and use
  - ~ 300 pesticide/fertilizer combination products (e.g., “weed & feed”) – also require fertilizer registration
- ~ 230 FIFRA Sec. 24(c) special local need (SLN) registrations – granted by ODA and EPA for special pest problems
- ~ 320 eligible to use in cannabis (both conventional and 25(b))
Pesticide Registrations in Oregon

http://oda.state.or.us/dbs/pest_productsL2K/search.lasso

Search Pesticide Products Information

Search Pesticide by Crop, Pest or Ingredient

Search Department Databases

Search Pesticide Products Information

This database is not a substitute for obtaining and reading pesticide labels. This database has no legal status, whereas the label is a legal document. Information in this database is frequently added and updated. Please advise us of any error in the database.

License No.  
Company Name
Product Name
EPA Reg. No.
Code(s)
Registration Status

Search Pesticide Products Information
### Pesticide Products Information Search Results

Results 1 - 2 of 2

<table>
<thead>
<tr>
<th>E I DUPONT DE NEMOURS CO</th>
<th>License Number</th>
<th>Expiration Date</th>
<th>License Type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AG-R0077005PPR</td>
<td>12/31/2016</td>
<td>Pesticide Product Registration</td>
</tr>
</tbody>
</table>

**Address**
- MIRIAM CARR
- STINE HASKELL RESEARCH CENTER
- PO BOX 30 5300/427
- NEWARK DE 19714

**Phone**
- (302) 365-5702

<table>
<thead>
<tr>
<th>EPA #</th>
<th>SLN #</th>
<th>Product Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>352-859</td>
<td></td>
<td>DuPont Exirel Insect Control</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Supplemental Label: For Use on Potatoes and Bulb Vegetables Via Overhead - Chemigation in the United States. (Exp. 12/31/2018)</td>
</tr>
<tr>
<td>352-859</td>
<td>OR-160011</td>
<td>Dupont Exirel Insect Control / Brassica Root Vegetables Grown For Seed</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Results 1 - 2 of 2</td>
</tr>
</tbody>
</table>

*Date Retrieved: 10/29/16*
Resources for pesticides registered by ODA

ODA website – searchable database for all registered products, can view electronic labels
http://oda.state.or.us/dbs/pest_productsL2K/search.lasso

Pesticide Information Center Online (PICOL) – database of products registered in OR and WA, searchable by crop/use site, pest, ingredient, etc.
http://picol.cahe.wsu.edu/LabelTolerance.html

Contact ODA Pesticide Registration Team
Email to pestx@oda.state.or.us
Phone (503) 986-4635
Oregon Aerial License

HB 3549(2015) – Modified Pesticide Law
ORS 634

- Aerial Pesticide Applicators must be licensed by ODA
- Must pass a national aerial exam
- Must show at least 50 hours of aerial application flight-time experience
- Will be required to complete license specific aerial recertification training
UAS/UAVs (Drones)

- ODA is currently reviewing new FAA rules relating to drones
- ODA is determining the compatibility of the FAA rules to Oregon aerial pesticide application laws and regulations.
- Determination pending
Worker Protection Standard

The Agricultural Worker Protection Standard (WPS) was established to improve occupational protections for agricultural workers and pesticide handlers.

Scope of who is covered:

- Approximately 890,000 agricultural establishments (farms, forests, nurseries, greenhouses)
- Approximately 45,000 commercial pesticide handling establishments (CPHEs).
- No significant changes to excepted uses (i.e., livestock-related uses, post-harvest uses, lawn and ornamental uses, etc.)
Certification & Training

EPA proposed changes regarding the certification of pesticide applicators using RUPs in 2015

- Increase the competency standards
- Establish certification categories for certain application methods
  - Soil fumigation
  - Non-soil fumigation
  - Aerial applications
Federal Certification & Training

EPA has completed the rule process, and the final rule was posted in December, 2016.

To view the rule:

What is in the new rule?

- Increase the competency standards for private applicators
- Increase the number of competency topics
  - Label and labeling comprehension, safety, environment, pests, pesticides, equipment, laws and regulations, responsibilities for supervisors of non-certified applicators, stewardship.
- Establish certification categories for certain application methods for private applicators
  - Soil fumigation
  - Non-soil fumigation
  - Aerial applications
What is in the new rule?

- Require annual pesticide safety training for non-certified applicators using RUPs (Similar to WPS)
- Require *immediate communication* between non-certified applicators and supervising applicator
- Minimum age of 18 for any RUP use
- Verification of identity of individuals attending applicator examinations and trainings
What is the timeline for the changes?

- Agency has 3 years to submit a plan to EPA
- EPA will have 2 years to review and approve the plan
- EPA approval will include an implementation timeframe agreed upon by Agency and EPA
Online License Renewals

- Online license renewals went live November 16th
- Straight renewals only
  - Can not add or delete license categories
- Can change address
- Online renewal process is the quickest way to renew a pesticide license

Save Time, Renew Online
Don’t Assume

Just because you gave your renewal notice to your employer, does not mean that it was sent in to ODA

Always confirm your new license has been issued by checking the ODA website before making pesticide applications
Don’t Be Caught Off Guard

- Check your credit history
- Report missing credits
- If you’ve moved, you can change your address online at:

http://www.oregon.gov/ODA/programs/Pesticides/Pages/AboutPesticides.aspx
Pesticide and Fertilizer Programs

The Pesticide and Fertilizer Programs regulate the sale and use of pesticides and fertilizers in Oregon with the following goals:

- Protect people and the environment from any adverse effects of pesticide use while maintaining the availability of pesticides for beneficial uses
- Assure that effective fertilizer, agricultural mineral, agricultural amendment, and lime products are provided for agricultural and consumer uses

What is a pesticide?
Informational video about what products are considered pesticides

Pesticide drift automated call: April 11, 2016
- Pesticide drift information in English
- Pesticide drift information in Spanish

Pesticide use complaint
- Pesticide complaints webpage

File a report of loss
- Alledged loss due to pesticides form

License renewal information
- Check your exam scores
- Check your credit hours
- Secure fax number: 503-986-4746

Change your address
- Pesticide licensee change of address form

ODA Pesticide Bulletin available

ODA Pesticide Bulletin (Fall Issue)
News and information about the Pesticide Program
Pesticide Licensee Change of Address Form
This form is for Pesticide Program address changes and not other ODA programs.

Name as it appears on your license(s) *

License No. 1 *

License No. 2 (if applicable)

License No. 3 (if applicable)

This is a new *
  ○ Home/Physical address
  ○ Mailing address
  ○ Mailing and physical address

New address *

Street Address

City

State / Province / Region

Postal / Zip Code

Previous address *

Street Address

City

State / Province / Region

Postal / Zip Code

Home phone

Cell phone

Email *
New Study Material

Oregon Department of Agriculture
Phasing Out

ODA will be switching from the OSU Pesticide Safety Education Manual (EM 8850) to the National Core Manual with an Oregon Addendum

What exams will this affect?

- Laws & Safety – new exam in place January 1, 2017
- Private Pesticide Applicator, hopefully my mid January
- Pesticide Consultant, hopefully late January
Spanish Study Material

- ODA plans to eventually translate the Oregon Addendum to Spanish
- ODA is in the process of finalizing the translation of the Licensing Guide
- ODA plans to switch to the Spanish version National Core Manual translated by Michigan State University sometime in 2017
Records

1. Firm or person for whom application was made

2. Location of the land or property where application made

3. Date and approximate time

4. Supplier of the pesticide product

5. Identity of the pesticide product applied

6. Amount applied and dilution

7. Specific property or crop to which application made

8. Summary information of equipment used

9. Name of applicator/apprentice/trainee
PESTICIDE APPLICATION RECORD (Version 4)

NOTE: This form must be completed same day as the application and it must be retained for 7 years (Ref. chapter 17.21 RCW)

A. Date of Application - Year: 2013
   Month: January Day: 23

B. Firm Name: ____________________________
   Commercial Applicator’s Name: ________________
   Street Address: 7627 W Bostian Rd
   City: Woodinville State: WA Zip: 98072
   Telephone No.: 4254810919
   License No. 83557

C. Name of person(s) who applied the pesticide: ____________________________
   License No(s): ____________________________

D. Pesticide Information (list all information for each pesticide including spray adjuvants (buffer, surfactant, dye, etc.) in the tank mix):

<table>
<thead>
<tr>
<th>Full Product Name</th>
<th>EPA Reg. No.</th>
<th>Concentration</th>
<th>Amount - (Lbs., Qts., etc.) of brand per 100 gallons of tank mix. Amount and unit must be specified.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wisdom TC</td>
<td></td>
<td>1/3 gal</td>
<td>50 lb/gal</td>
</tr>
</tbody>
</table>

E. Application crop or site: ____________________________________________

F. Apparatus License Plate No. _______________________________________

G. Record the following information for the specific conditions during each application:

<table>
<thead>
<tr>
<th>CUSTOMER a) full name (b) complete address</th>
<th>AMOUNT APPLIED (gals. of mix)</th>
<th>AREA OR OBJECT TREATED (sq. ft., etc.)</th>
<th>START &amp; STOP TIME</th>
<th>TEMP F°</th>
<th>WIND DIR</th>
<th>VEL (mph)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. a) Madison Park</td>
<td>200</td>
<td>80,000</td>
<td>12:00</td>
<td>6:00</td>
<td></td>
<td>MPH</td>
</tr>
<tr>
<td>b)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. a) Tigard Tech</td>
<td>100</td>
<td>40,000</td>
<td>7:00</td>
<td></td>
<td></td>
<td>MPH</td>
</tr>
<tr>
<td>b)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. a)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>b)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CUSTOMER</td>
<td>EPA REG. NO./FULL PRODUCT NAME(S)</td>
<td>CONCENTRATION</td>
<td>TIME (HOUR/ MINUTE)</td>
<td>APPLICATION SITE</td>
<td>PESTICIDE APPLIED/ ACRE OR OTHER MEASURE</td>
<td></td>
</tr>
<tr>
<td>---------------</td>
<td>----------------------------------</td>
<td>---------------</td>
<td>---------------------</td>
<td>------------------</td>
<td>------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>Willowbrook HOA</td>
<td>2217-833/SPEED ZONE</td>
<td>Broadleaf</td>
<td>7:45 am /</td>
<td>Spot</td>
<td>N/A /</td>
<td></td>
</tr>
<tr>
<td>14095 SW Walker Rd., Beaverton, OR 97005</td>
<td>Herbicide for Turf</td>
<td>2 oz. per gal.</td>
<td>2:45 pm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Turf Weeds</td>
<td>12 oz.</td>
<td></td>
<td>87°</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Customer Name: Mrs. Price
Address: 99587 Lakeside Dr.
Warrenton, OR 97146

Phone No: 503-738-6760

When Application made at: sidewalk, bench, grass, front, spot spray
Sq. Ft: -

Date: 9/24/2007
Start Time: 10:00 am
End Time: 10:30 am

Product Supplier: Fred Meyn
Bayer Advanced Weed Killer Concentrate
EPA Reg. No: 72155-5

Amount Used: 4 oz.
Rate: 4 oz. per gal. Water
Target Site: Weeds

Equipment Description: 1 gal. Hand Sprayer
Applicator Name: William A. Winlow
Time In: 3:26  Time Out: 3:45  Tech: Cap  Date: 10/18  Job Completed
Web Mop  Yes  Checked Monitoring Devices  Yes  Sticky: Left a bag
Hand Spray (Power spray): ULV Fogger, Duster, Placed by Hand, Aerosol can, Sprayer
Other: Foundation: Basa, Ext. Wall Voids, Kitchen/Bath Cabinets, Baseboards, Cracks & Crevices, Carpets
Alcove, Subfloor, Substructure Framing, Foundation Subsoil, Next to Nest Site, Basement, Bait Box

Products Used: %  Amount

- Tempo 20SC #3125-498 0.05  3 Gallons
- Termidor #432-991 0.06  Gallons
- Maxforce Ant Bait #64248-2 0.05  Stations
- Uni-Tract 2 Ant Gel #73766-1 0.05  CC or Tubes
- Maxforce Ant Gel #64248-21 0.05  CC or Tubes
- Talstar #279-3168 0.05  Lbs.
- Max Reach Bait #64248-11 0.05  Stations
- Max Force Reach Gel #64248-11 0.05  CC or Tubes
- Cyklick #495-364 0.01  Gallons
- Draguent SFR 279-3062 0.01  Gallons
- FastTrac #12455-95 0.01  Blocks (.01% 1 block?)
- Contrac Blox 12455-79 0.01  Blocks (1 block= 1oz)

Conductive Conditions:
- Trees/Shrubs need trimming: Send Letter Notified by Tech
- Pet: In yard/lofts: Send Letter Notified by Tech
- Storage Close to Structure: Send Letter Notified by Tech
- Debris in Gutters/on Roof: Send Letter Notified by Tech

Notes:

Thank You For Your Business
Cannabis and Pesticides
Oregon Department of Agriculture
Navigating Cannabis Compliance and Enforcement
Agricultural crop

Marijuana is:

- A crop for the purpose of “farm use” as defined in ORS 215.203
- A crop for the purposes of a “farm” and “farming practice,” both as defined in ORS 30.930
- A product of farm use as described in ORS 308A.062
- The product of an agricultural activity for the purposes of ORS 568.909
Like any other crop

- Food safety licenses
- Voluntary fee for service
- Ag. water quality
- Weights and measures
- Pesticides
What can you use?

Criteria and guidelist

The active ingredient is exempt from the requirement of a tolerance on all food crops

The product label includes directions for use on:

- Unspecified food crops (bedding plants, outdoor or enclosed facility), or
- Unspecified home garden plants, or
- Unspecified herbs (bedding plants, outdoor or enclosed facility), or
- Unspecified plants or crops

Did not fail a pyrolysis test if conducted
## Guidelist for Pesticides & Cannabis

### Alphabetized by Active Ingredient and then by Product Name

<table>
<thead>
<tr>
<th>Line No.</th>
<th>PRODUCT NAME</th>
<th>COMPANY</th>
<th>EPA REG NO</th>
<th>ACTIVE INGREDIENT</th>
<th>PESTICIDE TYPE</th>
<th>AG WORKER PROTECTION STANDARD APPLIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>213</td>
<td>PM REMOVER</td>
<td>ECO ORGANICS - ASAP PRODUCTS LLC</td>
<td>NA</td>
<td>OREGANIC GARLIC POWER</td>
<td>FUNGICIDE</td>
<td>No</td>
</tr>
<tr>
<td>214</td>
<td>ECOSMART ORGANIC INSECTICIDE ORGANIC INSECT KILLER 2</td>
<td>ECOSMART TECHNOLOGIES INC</td>
<td>NA</td>
<td>PEPPERMINT OIL, ROSEMARY OIL</td>
<td>INSECTICIDE</td>
<td>No</td>
</tr>
<tr>
<td>215</td>
<td>BIOSIDE HS 15%</td>
<td>ENVIRO TECH CHEMICAL SERVICES INC</td>
<td>63838-2</td>
<td>PEROXYACETIC ACID, HYDROGEN PEROXIDE</td>
<td>FUNGICIDE</td>
<td>No</td>
</tr>
<tr>
<td>216</td>
<td>BUSH DOCTOR FORCE OF NATURE INSECTICIDE</td>
<td>FOX FARM SOIL &amp; FERTILIZER CO</td>
<td>1021-1801</td>
<td>PIPERONYL BUTOXIDE PYRETHRINS</td>
<td>INSECTICIDE</td>
<td>No</td>
</tr>
<tr>
<td>217</td>
<td>DON'T BUG ME HOME AND GARDEN INSECTICIDE</td>
<td>FOX FARM SOIL &amp; FERTILIZER CO</td>
<td>1021-1801</td>
<td>PIPERONYL BUTOXIDE PYRETHRINS</td>
<td>INSECTICIDE</td>
<td>No</td>
</tr>
<tr>
<td>218</td>
<td>1600 X-CLIDE FORMULA 2</td>
<td>WHITMIRE MICRO-GEN RESEARCH LABS</td>
<td>499-539</td>
<td>PIPERONYL BUTOXIDE, PYRETHRINS</td>
<td>INSECTICIDE</td>
<td>No</td>
</tr>
<tr>
<td>219</td>
<td>GARDEN SAFE BRAND GARDEN INSECT FOGGER</td>
<td>SPECTRUM GROUP</td>
<td>9688-319-8845</td>
<td>PIPERONYL BUTOXIDE, PYRETHRINS</td>
<td>INSECTICIDE</td>
<td>No</td>
</tr>
<tr>
<td>220</td>
<td>PRES TRMT PYRETHRUM TR MICRO TOTAL RELEASE INSECT</td>
<td>WHITMIRE MICRO-GEN RESEARCH LABS</td>
<td>499-479</td>
<td>PIPERONYL BUTOXIDE, PYRETHRINS</td>
<td>INSECTICIDE, MITICIDE</td>
<td>Yes</td>
</tr>
<tr>
<td>221</td>
<td>PYRETHRUM TR TOTAL RELEASE INSECTICIDE</td>
<td>BASF CORP</td>
<td>499-479</td>
<td>PIPERONYL BUTOXIDE, PYRETHRINS</td>
<td>INSECTICIDE</td>
<td>Yes</td>
</tr>
</tbody>
</table>
WPS and Cannabis

If pesticide label has agricultural use box, then establishment subject to WPS provisions

Agricultural Use Requirements
(For Ground Application Only)
Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.
PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:
- Coveralls
- Chemical-resistant gloves such as barrier laminate, nitrile rubber, neoprene rubber, or viton
- Shoes plus socks
Rules for Hemp Production

The 2016 legislative assembly passed HB 4060, which made revisions to industrial hemp statutes, ORS 571.
Highlights of Rule

- Remove requirement for a 2.5 acre minimum production site
- Authorizes a single registration for growing on multiple, non-contiguous locations
- Authorizes growers to use any propagation method including planting seeds or starts, or the use of clones or cuttings
## Levels of some failed tests

<table>
<thead>
<tr>
<th>Active Ingredient</th>
<th>Range found PPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Malathion</td>
<td>1.71 – 7.94</td>
</tr>
<tr>
<td>Spinosad</td>
<td>0.21 – 42.06</td>
</tr>
<tr>
<td>Etoxazole</td>
<td>0.22 - 2.97</td>
</tr>
<tr>
<td>Myclobutanil</td>
<td>0.20 – 60.46</td>
</tr>
<tr>
<td>Boscalid</td>
<td>0.10 – 0.45</td>
</tr>
<tr>
<td>Imadacloprid</td>
<td>0.21 – 0.58</td>
</tr>
<tr>
<td>Abamectin</td>
<td>0.76 – 0.84</td>
</tr>
<tr>
<td>Pyrethrins</td>
<td>6.31 – 16.31</td>
</tr>
<tr>
<td>Piperonyl Butoxide</td>
<td>3.61 – 16.24</td>
</tr>
</tbody>
</table>

375 failed tests reported to ODA so far including 18 different active ingredients. Only two of those actives are included in the ODA Guideline for Pesticides & Cannabis
Contacts and resources

ODA Pesticides Program
503.986.4635
http://www.oregon.gov/ODA/programs/Pesticides/Pages/CannabisPesticides.aspx

ODA Cannabis Policy Coordinator
Sunny Jones, 503.986.4565

Listserv for ODA cannabis information
bit.do/cannabis-email
Questions

Michael Odenthal

Oregon Department of Agriculture

503-986-4655

modenthal@oda.state.or.us