Case Studies/ Lessons Learned

Oregon Department of Agriculture
Michael Odenthal


How Did Oregon's Exotics Get Here?

Forestry near Forest Grove

Aminocyclopyrachlor on Rights-of-Way

- Temporary Rule
- Effective September 28, 2018 – March 26, 2019
- No use of Aminocyclopyrachlor products on Rights-of-Way
- All formulations of Perspective, Method, Streamline, Viewpoint

Perspective and Pine Trees


10/10/2018 11:51


09/11/2018 16:25

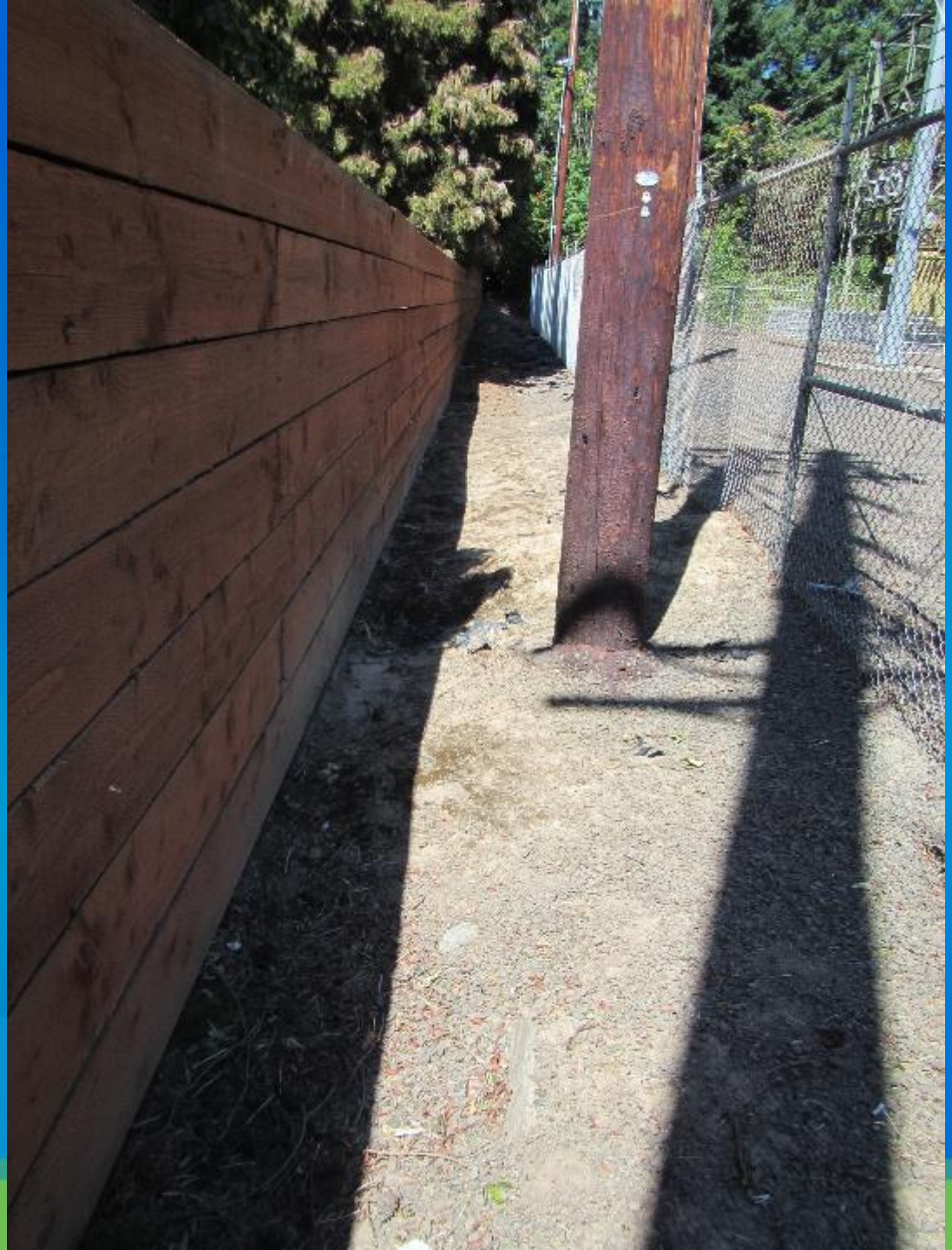

09/11/2018 16:27

Perspective

- Do not apply this product in areas where the roots of desirable trees and/or shrubs may extend unless injury or loss can be tolerated. Root zone areas of desirable trees or vegetation are affected by local conditions and can extend well beyond the tree canopy.

- Certain species may, in particular, be sensitive to low levels of DuPontTM PERSPECTIVE® including but not limited to, conifers (such as Douglas fir, Norway spruce, ponderosa pine and white pine), …

Gaston



Dicamba

Alligare Dicamba 4 may cause injury to desirable trees and plants, particularly beans, cotton, flowers, fruit trees, grapes, ornamentals, peas, potatoes, soybeans, sunflowers, tobacco, tomatoes, and other broadleaf plants when contacting their roots, stems or foliage. These plants are most sensitive to Alligare Dicamba 4 during their development or growing stage. FOLLOW THE PRECAUTIONS LISTED BELOW WHEN USING ALLIGARE DICAMBA 4.

- Do not treat areas where either possible downward movement into the soil or surface washing may cause contact of Alligare Dicamba 4 with the roots of desirable plants such as trees and shrubs.

What's the take home

- Know your products
  - How they work
- Read the Label - those warning statements are there for a reason

Area Map


Cairo
Cairo
McPherson
Crow Isla
Perrin Isla
Gamble Island
26
2018 Google
Adrian Blvd

Oregon Department of Transportation

DAILY SPRAY REPORT

DATE 4/27/18

HIGHWAY NO.	MP	TO			
7	MP 258	TO 265 south	TOTAL SHOULDER SPRAYED	14 MI PA	CREW NUMBER 5107
	MP 265	TO 258 north	SPRAY WIDTH	6 FEET	COUNTY Malheur
	MP	TO	AREA SPRAYED	10.22 ACRE	RAILROADS M0234414
	MP	TO			

CHEMICAL USED (PRODUCT NAME)	EPA REGISTRATION NO.	UNITS (Pints/gal)	RATE/ACRE LINEAR SPRAY	RATE/100 GAL. SPOT SPRAY	TOTAL QUANTITY UNDILUTED PRODUCT
Method 240SL	432-1565	OZ	17		173.74
Telar XP	432-1561	OZ	2		20.44

LIST OF ADDITIVES AND APPLICATION RATES: Clind 2 oz

TYPE OF CARRIER: [X] WATER [ ] OTHER (LIST)

ESTIMATED AMOUNT OF GALLONS: 357

SITE TREATED: [X] ROAD [ ] INDOOR OFFICE [ ] INDOOR PARK [ ] OUTDOOR OFFICE [ ] OUTDOOR PARK

ROAD SITES (CHECK THOSE THAT APPLY): [X] SHOULDER [ ] MEDIAN [ ] DITCHBANK [ ] CULVERTS [ ] BRUSH [ ] SIGN POST [ ] LAWNS [ ] SHRUB BED

SITE DESC.: OTHER SITES / OTHER POSTS

PESTS: [X] WEEDS [ ] INSECTS [ ] RODENTS [ ] GROWTH REGULATOR

NOXIOUS WEEDS: [ ] LIST "T" [ ] LIST "A" [ ] LIST "B"

TYPE OF PESTS TREATED:

SPRAY TIME: 8 [X] AM [ ] PM TO 10:00 [X] AM [X] PM

TEMPERATURE: 60 TO 84 °F

WEATHER CONDITIONS (CHECK ONE): [X] CLEAR [ ] PARTLY CLOUDY [ ] OVERCAST [ ] OTHER [ ] SHOWERS

WIND CONDITIONS (CHECK ONE): [ ] CALM [ ] MODERATE (5-10 MPH) [X] LIGHT [ ] OTHER

TYPE OF APPLICATION (CHECK ONE): [ ] BACKPACK [ ] GRANULES [ ] HANDGUN [ ] AERIAL [ ] BOOM [ ] BOOM PER SPRAY HEAD [X] OTHER Bumless truck

04-0521

SPRAYER EQUIPMENT NUMBER

SPRAY PRESSURE 22 PSI

COMMENTS (See Instructions): No BLM

[X] Dispatch Contacted - Contact Date and Time: 4/27/18 8:00 AM

Richard Drydale A6-2104918 7 PPA

SPRAY APPLICATOR NAME AS IT APPEARS ON LICENSE — LICENSE NO.

Rod Dryden

SPRAY APPLICATOR'S SIGNATURE

DISTRIBUTION: ORIGINAL TO DISTRICT MANAGER
COPY TO SECTION SUPERVISOR

Reason for Sampling: Alleged Drift
Sample Received By: Bdinntorn B. Nuanual on 5/23/18.

ANALYTICAL REPORT

Sample AUF180625-9: Field #3 Wheat
Lab. No.: 18-B448

Test No.	Analysis Requested	Analytical Results		Analyst
5330	Glyphosate	<0.032 ppm	MRL=0.032 ppm	JRW
5612	Aminocyclopyrachlor	<0.010 ppm	MRL=0.010 ppm	JRW
5992	Chlorsulfuron	<0.010 ppm	MRL=0.010 ppm	TBK

Sample AUF180625-10: Field #3 Wheat
Lab. No.: 18-B449

Test No.	Analysis Requested	Analytical Results		Analyst
5330	Glyphosate	0.028 ppm	MRL=0.010 ppm	JRW
5612	Aminocyclopyrachlor	<0.010 ppm	MRL=0.010 ppm	JRW
5992	Chlorsulfuron	<0.010 ppm	MRL=0.010 ppm	TBK

Sample AUF180625-11: Field #3 Wheat
Lab. No.: 18-B450

Test No.	Analysis Requested	Analytical Results		Analyst
5330	Glyphosate	0.024 ppm	MRL=0.010 ppm	JRW
5612	Aminocyclopyrachlor	<0.010 ppm	MRL=0.010 ppm	JRW
5992	Chlorsulfuron	<0.010 ppm	MRL=0.010 ppm	TBK

Sample AUF180625-12: Field #3 Wheat
Lab. No.: 18-B451

Test No.	Analysis Requested	Analytical Results		Analyst
5330	Glyphosate	0.045 ppm	MRL=0.010 ppm	JRW
5612	Aminocyclopyrachlor	<0.010 ppm	MRL=0.010 ppm	JRW
5992	Chlorsulfuron	<0.010 ppm	MRL=0.010 ppm	TBK

What is the take home

- We won’t cite you if we can’t prove it
- We will ask lots of questions
- Your crop could be detained if there is a tolerance issue even if you are the victim


04/09/2018 08:00

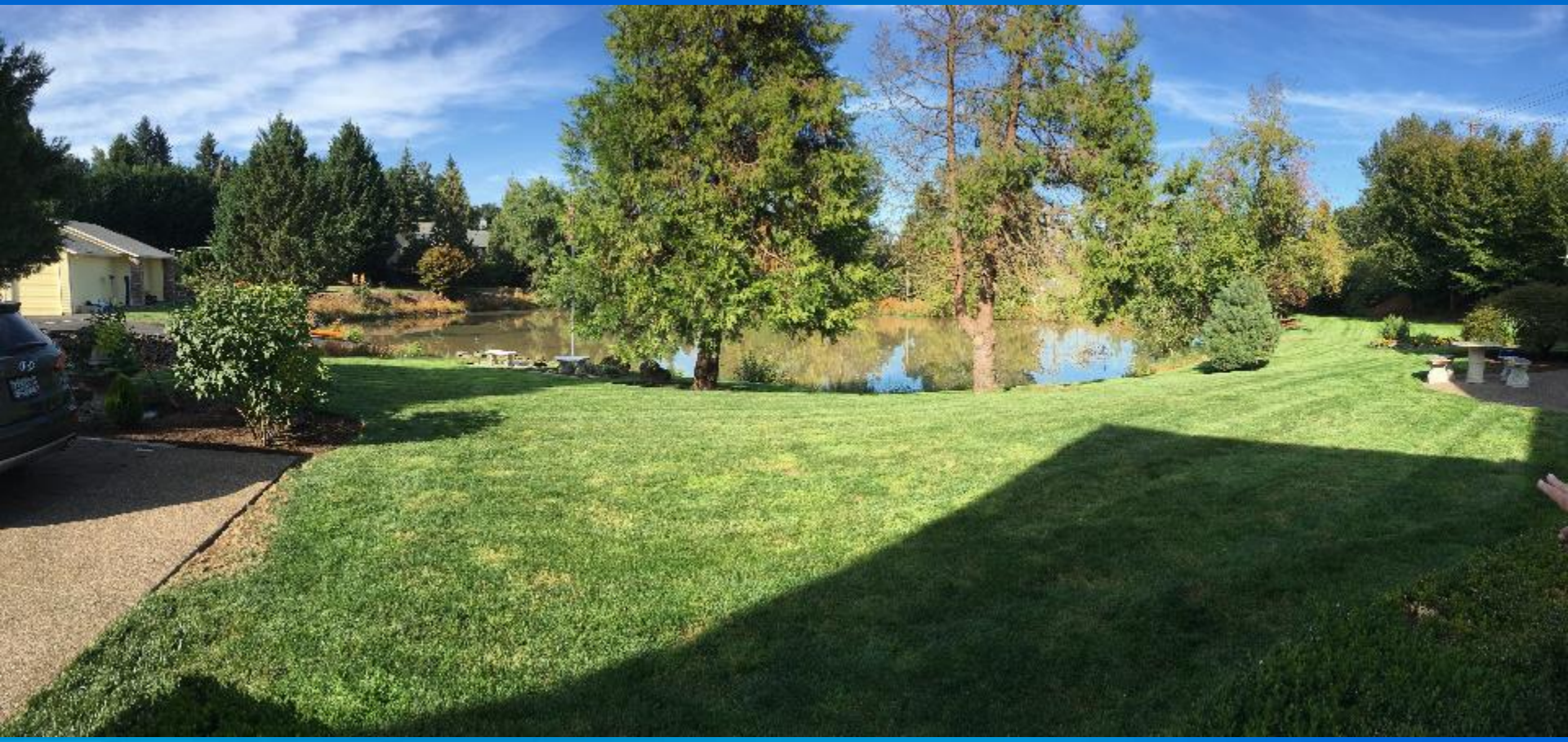

04/09/2018 08:01

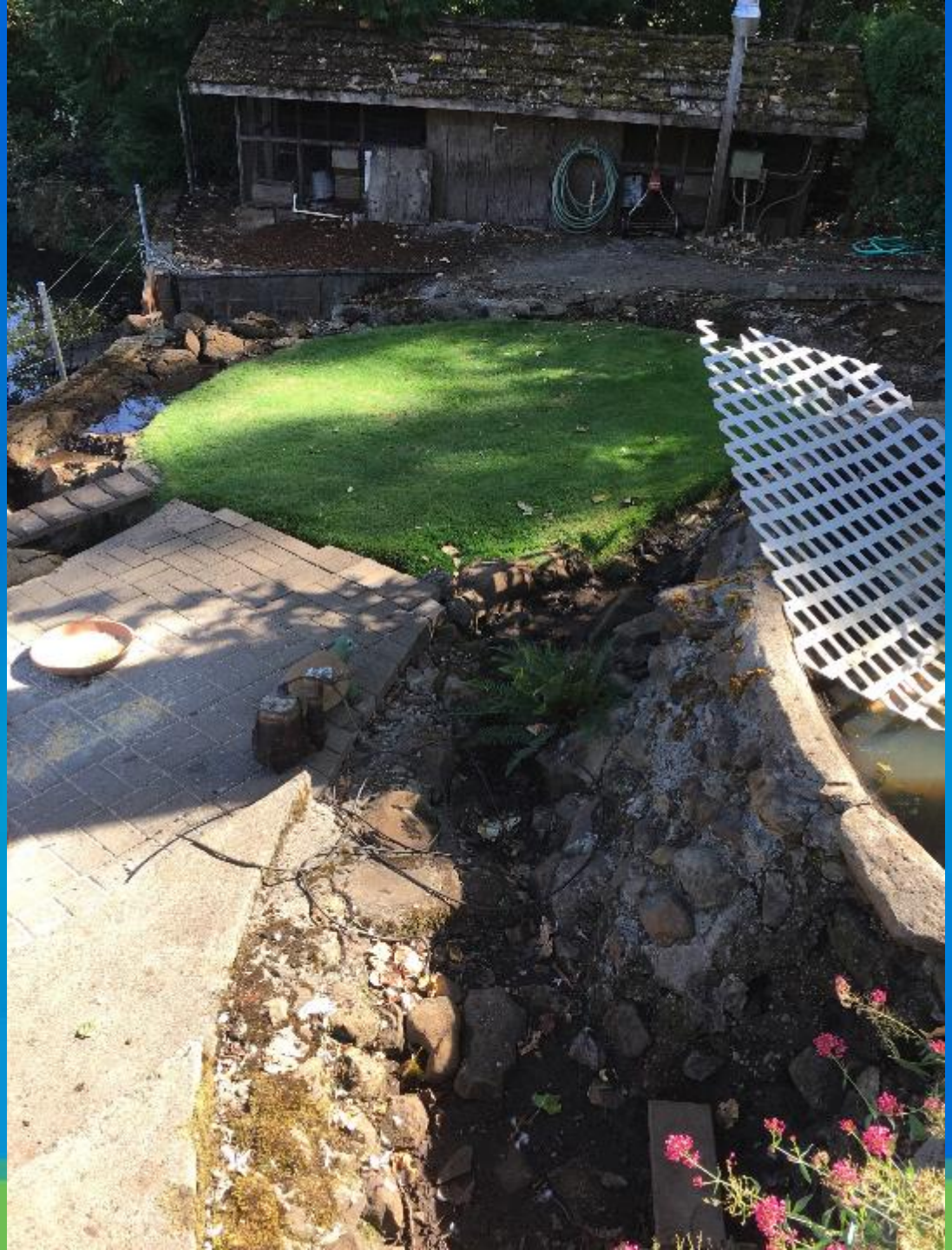

MOUNT
BACHELOR
VILLAGE
RESORT
GUEST
REGISTRATION
07/09/2018 11:12

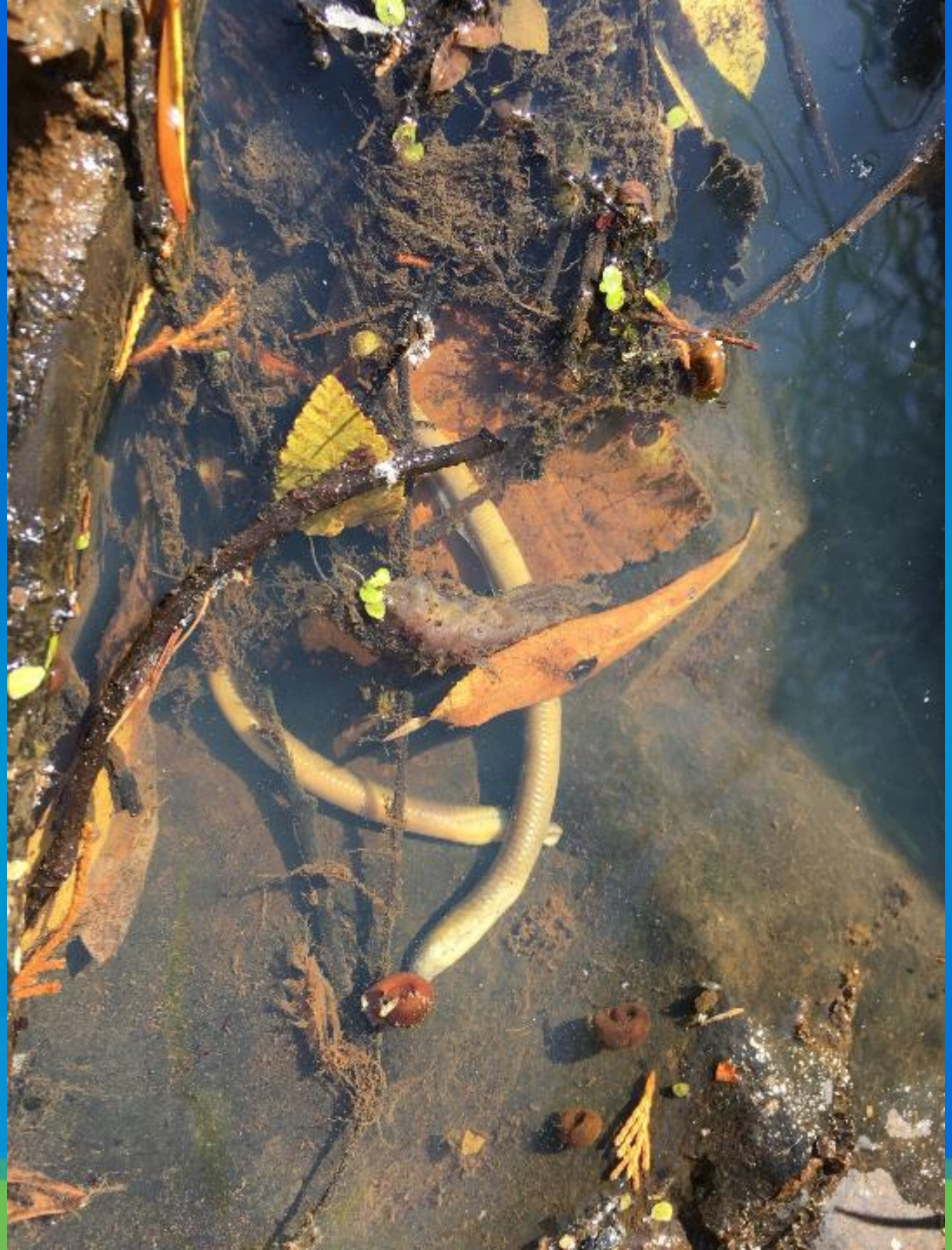

07/09/2018 11:12

What is the take home

- Starting to see residents of the area getting very sensitive to pesticide applications
- Be very aware of your surroundings
- Pick products that won’t offend the senses







What's the take home

- Don't assume your customer knows the answers
- Know your products
- When you add two products with the same active ingredient make sure you don't go over the maximum allowed per application or annually

Timothy Hay

What's the take home

- Read your label!!!!
- The label you have on the container is the label you must follow unless there is a 24C or Section 18.
- Double check your consultant

Marijuana


2000 plants x 1 lbs/plant x $800/lbs = $1,600,000

What is the take home

- Coexist
- Drifting onto Marijuana could be expensive

SOUTHERN AG

CROSSBOW®

Specialty Herbicide

Low Volatile Weed and Brush Herbicide

For the control of most kinds of unwanted trees and brush, as well as annual and perennial broadleaf weeds on rangeland, permanent grass pastures, conservation reserve program (CRP) acres, fence rows.

Active Ingredient(s):
2,4-dichlorophenoxyacetic acid, butoxyethyl ester 34.4%
triclopyr BEE: 3,5,6-trichloro-2-pyridinyloxyacetic acid, butoxyethyl ester 16.5%
Other Ingredients 49.1%
Total 100.0%

®Trademark of Dow AgroSciences LLC
Contains Petroleum Distillates
Acid Equivalents: 2,4-dichlorophenoxyacetic acid - 23.7% - 2 lb/gal triclopyr - 11.9% - 1 lb/gal


Multiflora Rose


Poison Oak


Poison Ivy


Blackberry Vine


Kudzu

Keep Out of Reach of Children

CAUTION

Refer to label booklet for additional precautionary information and Directions for Use.

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

08/14/2017 17:02

Net Contents Liquid: 1 Quart (.946 liters)

Dow AgroSciences™

Crossbow®

Specialty Herbicide

Low Volatile Weed and Brush Herbicide

For the control of most kinds of unwanted trees and brush, as well as annual and perennial broadleaf weeds on rangeland, permanent grass pastures, conservation reserve program (CRP) acres, fence rows, non-irrigation ditchbanks, roadsides, other non-crop areas and industrial sites

Active Ingredient(s):
2,4-dichlorophenoxyacetic acid, butoxyethyl ester 34.4%
triclopyr BEE: 3,5,6-trichloro-2-pyridinyloxyacetic acid, butoxyethyl ester 16.5%
Other Ingredients 49.1%
Total 100.0%

Contains Petroleum Distillates
Acid Equivalents: 2,4-dichlorophenoxyacetic acid - 23.7% - 2 lb/gal
triclopyr - 11.9% - 1 lb/gal

EPA Reg. No. 62719-260

Application Instructions

Restrictions:

Rangeland and Permanent Pastures

- **Preharvest Interval:** Do not cut forage for hay within 14 days of application. For program lands, such as CRP, consult program rules to determine whether grass or hay may be used. The more restrictive requirements of the program rules or this label must be followed.
- **Maximum Application Rate:** Apply no more than 1 gallon (1 lb ae triclopyr + 2 lb ae 2,4-D) per acre per growing season on range and pasture sites, including rights of way, fence rows or any area where grazing or harvesting is allowed.
- Use 2 gallons or more of spray solution per acre.
- Do not make more than one application per year.
- Do not apply within 30 days of previous application.
- If grass is to be cut for hay, Agricultural Use Requirements for the Worker Protection Standard are applicable.

Non-Cropland

Postemergence (Annual and Perennial Weeds):

- Do not make more than two applications per year
- Maximum of 1 gallon (1 lb ae triclopyr + 2 lb ae per acre 2,4-D) per application.
- Minimum of 30 days between application.
- Use 2 gallons or more of spray solution per acre.

Postemergence (Woody Plants):

- Limited to 1 application per year.
- Maximum of 2 gallons (2 lb ae triclopyr + 4 lb ae per acre 2,4-D) per year.
- Use 2 gallons or more of spray solution per acre.

Applications to non-cropland areas are not applicable to treatment of commercial timber or other plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes.

40 CFR 161 Appendix A

- Noncrop is pesticide use site group 10
  - Uncultivated agricultural areas (nonfood producing)
  - Uncultivated nonagricultural areas (outdoor)
  - Directed Pest Control to Pests' Nests

40 CFR 161 Appendix A

- Ornamental plants and forest trees pesticide use site group 2
  - Ornamental plants
  - Ornamental trees, shrubs, and vines
  - Lawn and turf grasses
  - Forest trees non ornamental
  - Forest tree nurseries
  - Forest trees: dead trees/logs/stumps in the forest or in plantings

General Use Precautions and Restrictions

Crossbow is formulated as a low volatile ester. However, the combination of spray contact with impervious surfaces, such as roads and rocks, and increasing ambient air temperatures, may result in an increase in the volatility potential for this herbicide, increasing a risk for off-target injury to sensitive crops such as grapes and tomatoes.

SPECIMEN LABEL

Agri Star®

CROSSROAD®

Low Volatile Weed and Brush Herbicide

ACTIVE INGREDIENTS:

2,4-dichlorophenoxyacetic acid, butoxyethyl ester	34.4%
Triclopyr BEE: 3,5,6-trichloro-2-pyridinyloxyacetic acid, butoxyethyl ester	16.5%
INERT INGREDIENTS	49.1%
TOTAL	100.0%

Contains Petroleum Distillates

Acid Equivalents: 2,4-dichlorophenoxyacetic acid - 23.7% - 2 lb/gal; triclopyr - 11.9% - 1 lb/gal isomer
Specific by AOAC Method No. 978.05 (15th Ed.)

EPA Reg. No. 42750-124 EPA Est. No. 42750-MO-001

KEEP OUT OF REACH OF CHILDREN

CAUTION — PRECAUCIÓN

For the control of most kinds of unwanted trees and brush, as well as annual and perennial broadleaf weeds on rangeland, permanent grass pastures, conservation reserve program (CRP) acres, fence rows, non-irrigation ditch banks, roadsides, other non-crop areas and industrial sites.

Manufactured By:

ALBAUGH, LLC

TURF

Broadcast Treatment of Residential, Commercial, and Recreational Turf and Commercial Sod Farms

To be applied only under the direct supervision of Commercial applicators responsible for turf weed control programs.

WEEDS CONTROLLED:

Black medic
Bull thistle (a)
Burdock (a)
Buttercup (a)
Canada thistle (a)
Catnip
Chamise
Chickweeds (common & mouseear)
Chicory
Cinquefoil
Clover
Cocklebur
Cornflower
Cornspeedwell (b)
Creeping beggarweed
Dandelion
Docks
Field bindweed
Goldenrod
Ground ivy (b)
Henbit
Knawel
Lambsquarters
Lespedeza
Matchweed
Mustards (a)
Oxalis *(stricta* and *corniculata)* (b)
Plantain
Poison oak
Prostrate spurge (b)
Purslane speedwell
Smartweed
Sowthistle
Spiderwort
Spotted catsear
Vetch
Wild carrot (a)
Wild violet (b)
Yarrow

Apply 2 to 4 pints (0.5 to 1 lb. 2,4-D ae) of CROSSROAD® in enough water to make 20 to 200 gallons total spray per acre to control broadleaf weeds growing in tall fescue, bluegrass, or perennial ryegrass turf. Do not use on other grass species, such as bentgrass or St. Augustine grass, unless injury can be tolerated.

CROSSROAD® at 3 pints per acre (0.75 lb. 2,4-D ae) or 1.1 ounce per 1,000 square feet will provide control of most weeds listed on the container label.

The use of 4 pints per acre (1 lb. 2,4-D or 1.5 ounces per 1,000 square feet) is suggested for those weeds followed by (a). Optimum control of those species followed by (b) has been obtained when two applications of 3 pints per acre (0.75 lb. 2,4-D ae/acre) have been made 4 weeks apart. Apply from early spring through early fall when weeds are growing.

Applications should be made 4 weeks apart to minimize grass injury. Newly seeded turf should be mowed two or three times before being treated. Do not water for 24 hours after application. Do not reseed for 3 weeks after application.


PRIVATE
PROPERTY
05/11/2018 10:21


32
05/11/2018 10:23


05/11/2018 10:23


05/11/2018 10:23


05/11/2018 10:23


05/11/2018 10:26


05/11/2018 10:28

What is the take home

- Co Exist
- Know your neighbor
- Know your product
- Pick a product that may not irritate the neighbors
- Use the product with the correct label

Questions

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Ludwigia hexapetala