

Weed Management in Peach

Peter Dittmar



1. New herbicide registrations

2. Resistance management



New registrations

- Alion (a.i. indaziflam)
- Rely 280/Cheetah (a.i. glufosinate)

Preemergence herbicide options

- Alion
 - 5 - 6.5 fl. oz.
- Chateau
 - 6 to 12 oz.
- Diuron, Karmex, Direx
 - 2 – 2.75 lb.
 - 1.6 – 2.2 qt.
- GoalTender
 - 2.5-4 pt.
- Solicam
 - 1.25 – 1.5 lb.
- Oryzalin, Surflan
 - 2 – 6 qt.
- Prowl H₂O
 - 2 to 6.3 qt.
- Princep, Simazine
 - 1.4 – 4 qt.
 - 1.6 – 4.4 lb.
- Sinbar
 - 0.5 – 2 lb.
- Treflan
 - 1 – 1.5 pt.

Chateau

- Active ingredient: Flumioxazin (Group 14/E)
- 6 to 12 oz./A.
- No more than 24 oz./A
- Most broadleaf weeds are controlled, WEAK ON GRASSES
- Split applications must be 30 days apart
- 60 day preharvest interval

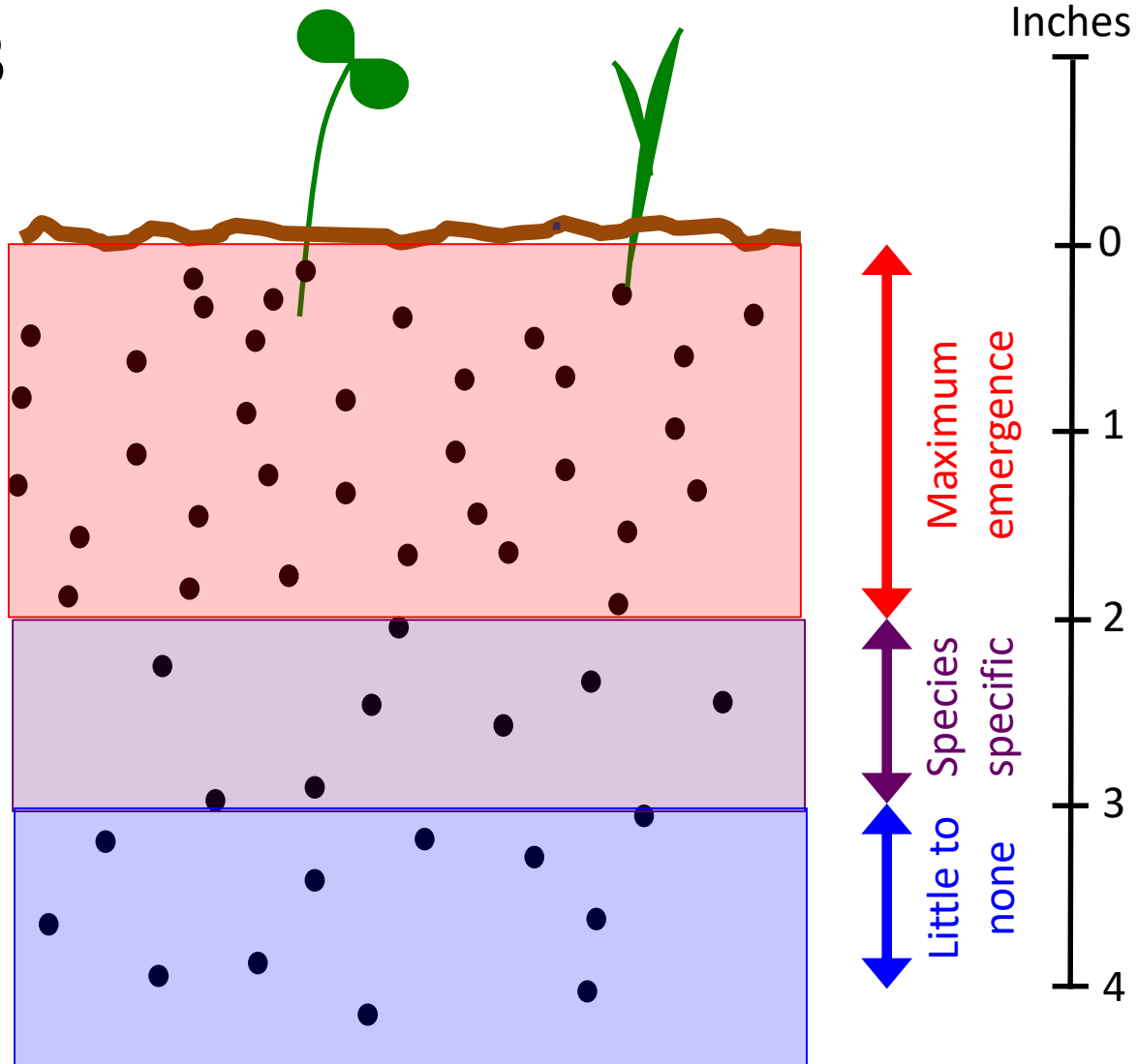
Alion

- Active ingredient: indaziflam (Group 29/L)
- 5 to 6.5 fl. oz./A.
- Do not apply more than 10.3 fl. oz./A./yr.
- Spanish nettle, chickweeds, pigweeds, horseweed, filaree, crabgrass, goosegrass, guineagrass
- Trees must be established for 3 years
- 14 day preharvest interval

Incorporating preemergence

- Incorporate 2 to 3 inches deep
 - Cultivation
 - Irrigation
 - Rainfall
- Within 24 hours

**TOO
DEEP**



Preemergence new trees (<3 yr.)

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Broadleaf POST herbicides

- Aim
 - 0.5 – 2 fl. oz.
- Firestorm/Gramoxone
 - 1.7-2.7 pt./2.5-4.0 pt.
- Glyphosate
 - Consult individual labels
- Matrix
 - 2-4 oz./A
- Rely/Cheetah/Forfeit/Lifeline
 - 48 – 82 fl. oz./A
- Stinger
 - 0.3 – 0.7 pt.

Glyphosate

- Glyphosate translocates through the weeds and the peach tree
- Be careful apply to young trees with green bark or low hanging branches
- Can be absorbed by suckers or sprouts from the rootsock, then translocate to tips of the tree
- Plastic cover or nonporous wraps

Rely 280


- Other trade names: Cheetah/Forfeit/Lifeline
- A.I.: glufosinate
- Grass and broadleaf control
- 48 to 82 fl. oz. based on the size of the weeds
- Not more than 82 fl. oz./application
- Not more than 164 fl. oz./12 mo. period
- Contact herbicide, coverage is key
- Tank mix with a PRE herbicide
- 14 day PHI

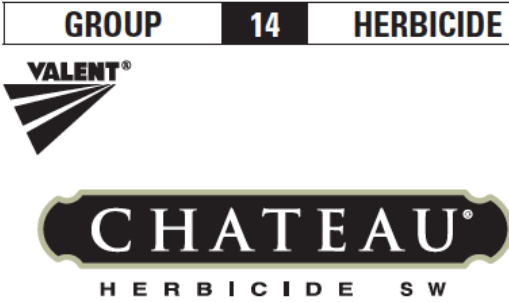
Resistance management



Herbicide mode of action (MOA)

- Resistance management includes rotation of herbicide's mode of action

GROUP 1 HERBICIDE		If in eyes: If swallowed: Have the prod calling a pois for treatment
		
Active Ingredient	By Wt.	Have callin for tr for e
*Clethodim.....	12.6%	
Other Ingredients.....	87.4%	Inge can whic muc gast
Total.....	100.0%	
Contains Petroleum Distillates		PERS Some produ follow chem
*(E)-2-[1-[[[3-chloro-2-propenyl]oxy]imino]propyl]5-[2-(ethylthio)propyl]-3-hydroxy-2-cyclohexen-1-one		
Contains 0.97 lbs clethodim per gal		Appli sleev alove
EPA Reg. No. 59639-132 EPA Est. 5905-GA-01		
KEEP OUT OF REACH OF CHILDREN		
CAUTION		
SEE BELOW FOR ADDITIONAL PRECAUTIONARY STATEMENTS.		
PRECAUTIONARY STATEMENTS		

GROUP 14 HERBICIDE		If in eyes: If swallowed: Have the prod calling a pois for treatment
		
FOR CONTROL AND/OR SUPPRESSION OF CERTAIN WEEDS IN ALFALFA, ASPARAGUS, BUSHBERRIES, COTTON, FIELD CORN, GARLIC, GRAPE, HOPS, MINT, NUT TREES (INCLUDING PISTACHIO), ONION (DRY BULB), POME FRUIT, STONE FRUIT, STRAWBERRY, SWEET POTATO, NON-BEARING FRUIT TREES, FALLOW LAND AND TO MAINTAIN BARE GROUND ON NON-CROP AREAS OF FARMS, ORCHARDS AND VINEYARDS.		

PRE herbicide MOA

WSSA/HRA C	MOA	Trade name
3 / K1	Root growth inhibitor	Surflan, Oryzalin
		Prowl H ₂ O
		Treflan
		Kerb
5 / C1	Photosynthesis Inhibitor (PSII)	Princep/Simazine
		Sinbar
7 / C2	Photosynthesis Inhibitor (PSII)	Diuron, Karmex, Direx
12 / F1	Pigment Synthesis Inhibitors	Solicam
14 / E	PPO Inhibitor	Chateau
29 / L	Cellulose Inhibitor	Alion

POST herbicide MOA

WSSA/HRA C	MOA	Trade name
1 / A	Lipid Synthesis Inhibitor	Fusilade
		Select Max, Arrow
		Poast
2 / B	Amino Acid Synthesis (ALS)	Matrix
9 / G	Amino Acid Synthesis (EPSP)	Roundup, glyphosate
10 / H	Nitrogen Metabolism Inhibitor	Rely
14 / E	PPO Inhibitor	Aim
		Treevix
22 / D	Photosynthesis inhibitor (PSI)	Diquat
		Paraquat
-- / --	Unkown	Scythe

Weed resistance in FL fruit production

- Peaches
 - I haven't been told or seen any, YET.
- Citrus
 - Ragweed parthenium, glyphosate
 - Spanish nettles/Bidens, glyphosate
 - Horseweed, glyphosate



Is the weed resistant?

- Proper calculation
- Correct surfactant
- Proper timing
- The right herbicide for the weed

Nutsedge control in Peaches

- Correctly identify
 - Triangular stems and flower heads
- Glyphosate
- Matrix 2-4 oz./A



Questions.

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