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Herbicide Issues with Cover Crops

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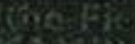
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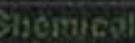
Agriculture &
Natural
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Herbicide Mode of Action Process Menu


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EXIT

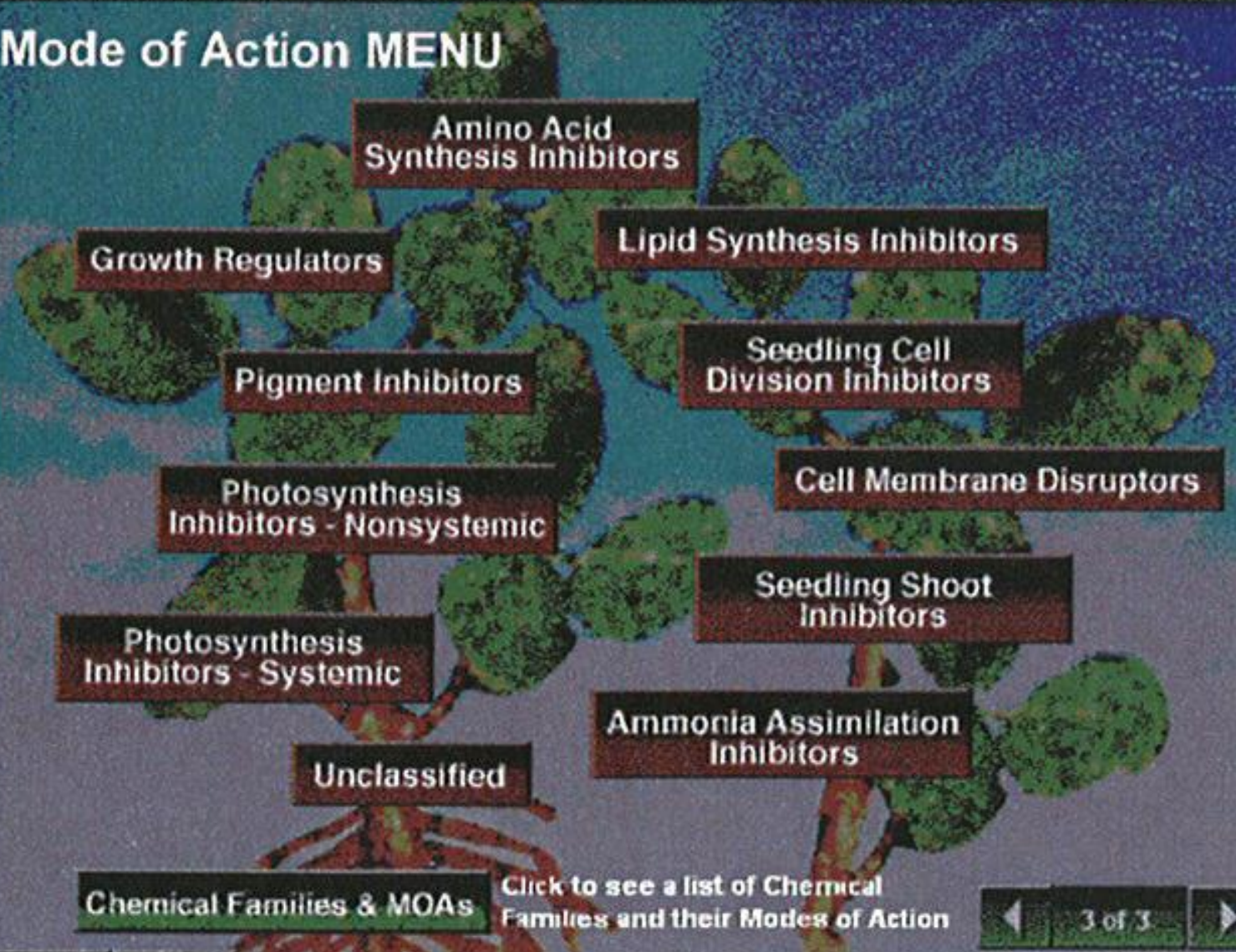
HELP

Click Speaker to Begin or Choose a process button

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Mode of Action MENU

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Chemical Families & MOAs Click to see a list of Chemical Families and their Modes of Action

Herbicides –

Have They Become Too Easy?

Planting Interval For Rotational Crops

- Glyphosate: 0 days for nearly all crops
- Remember “Carry Over”?
- Read the product label
- Many cover crops won’t be on the label
- Check Appendix Table 2 in A3646

“Pest Management in Wisconsin Field Crops”



Lumax[®] Selective Herbicide

- Winter wheat, barley, or rye may be planted 4 1/2 months following application.
- If Lumax is applied after June 1, rotating to crops other than corn (all types) or grain sorghum the next spring may result in crop injury.
- Do not rotate to crops other than corn (all types), cotton, small grain cereals, soybeans, sorghum or peanuts the spring following application of Lumax.
- For all other crops, wait 18 months.
- Control of Wild Buckwheat and Wild Mustard



Examples of Injury



Pigment Inhibitor

Seedling Shoot Inhibitor



Photosynthesis Inhibitor



Examples of Injury



Amino Acid Synthesis
Inhibitor

Growth Regulator



Seedling Cell
Division Inhibitor



Common Herbicides in Corn/Corn Silage With Long Planting Intervals

Herbicide	Alfalfa	Snap Bean	Peas	Soybean	Barley	Oats	Wheat	Potato
Atrazine	2Y	2Y	2Y	FY	2Y	2Y	2Y	2Y
Banvel	AH	AH	AH	AH	AH	AH	AH	AH
Callisto	10M	18M	18M	10M	120D	0	120D	10M
Lumax	18M	18M	18M	FY	FY	FY	4.5M	18M
Laudis	10M	10M	10M	8M	4M	4M	4M	10M
Harness	9M	2Y	2Y	FY	FY	FY	4M	FY
Hornet	10.5M	10.5-18M	10.5M	10.5M	4M	4M	4M	18M



Common Herbicides in Small Grains With Long Planting Intervals

Herbicide	Alfalfa	Snap Bean	Peas	Soybean	Barley	Oats	Wheat	Potato
Harmony Extra	45D	45D	45D	45D	0	0	0	45D
Huskie	9M	BA	BA	4M	7D	7D	7D	9M
Orion	9M	12M	12M	9M	14D	14D	14D	9M



Common Herbicides in Soybeans With Long Planting Intervals

Herbicide	Alfalfa	Snap Bean	Peas	Barley	Oats	Wheat	Potato	Corn	Rye	Sorghum	All Other
Prowl	FY	0	0	FY	FY	120D-FY	0	FY			
Pursuit	3M	4M	0	8.5M	18M	3M	26M	8.5M	4M	18M	40M
Authority MTZ	12M	18M	18M	4M	18M	4M	12M	10M			
Gangster	30M+BA	9M	9M	30M+BA	9M	3M	18M	9M			



Pursuit Label

p. 24: “Planting earlier than the specified rate may result in crop injury.”

p. 25: “Only rotation crops harvested at maturity can be used for feed or food.”

Is this example, are cover crops a non-target pest?









Common Herbicides in Vegetables With Long Planting Intervals

Pursuit

Eptam

Sonalan

Outlook

Lorox

Prowl

Spartan

Treflan

Curbit

Sandea

Prefar

Stragety



Herbicide Persistence in Cover Crops

- Many herbicides have persistence for good reason
- New and unique cover crops may not be listed in the rotation section on the label
- Cover crops may fall under “all other crops”
- Labels are a legal document
- Plan ahead with herbicides and cover crops
- Know the symptoms and risk of injury to cover crops
- Can some injury be tolerated?



Burn Down of Cover Crops

Check for rotation restriction of the next crop

Broad spectrum control examples:

Glyphosate (Roundup): \$7.28 acre / 22 fl oz

Ignite (formerly Liberty): \$11.16 acre / 22 fl oz

Gramoxone (Paraquat): \$9.18 acre / 2 pt



Burn Down of Cover Crops

Check for rotation restriction of the next crop

Broadleaf control examples:

2,4-D Ester: \$2.55 acre / 1 pt

Rage D-Tech (Aim+2,4D): \$3.68 acre / 8 fl oz

Enlight (Valor+Classic+Harmony in soybeans):
\$14.81 acre / 2.8 oz

Banvel: \$7.61 acre / 1 pt


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Burn Down of Cover Crops

Check for rotation restriction of the next crop

Grass control examples:

Assure: \$4.91 acre / 4 fl oz

Fusion: \$6.63 acre / 4 fl oz

Select: \$7.01 acre / 6 fl oz

Poast Plus: \$11.99 acre / 1.5 pt



Comparing Cost

Herbicide Burn Down versus Tillage

Herbicide Product + Application Fee:

\$2.55 to \$14.81 + \$7.70 = **\$10.25 to \$22.51** /a

Tillage Cost from 2010 Custom Rate Guide

Field Cultivator = **\$11.80** /a

Finishing Disk = **\$12.60** /a


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