



Duck Creek Grower Meeting

24 November 2008

Cultural Practices and Runoff

- Site Location
 - Slope
 - Soil
 - Drainage
- Vineyard/Orchard Design
- Cultural Practices
 - Cultivation vs Non-tillage
 - Pesticide Application Amount & Timing
- Rainfall
 - Total
 - Events, number & pattern

Vineyard/Orchard Design and Cultural Practices

- Row Direction
- Slopes
- Grass areas
 - Mowed vs unmowed
 - Planted vs Resident vegetation
- Berms
 - Direction and minor rain events

Rainfall

	<u>Total</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>
2005	24.7	10.4			3.2	3.3	3.5	1.4	1.3
2006	23.7	7.1			5.4	1.1	5.2	3.8	0.8
2007	12.1	4.6			0.27	4.3	0.6	2.3	T
2008	13.6	4.5			7.3	1.8	0.1	0	0

Pesticide Use and Strategy

- Choice of material *
 - Dormant vs Spring
- Mixing/Loading
- Application
 - Rate
 - Timing
 - Where or Not

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Applications

- Directed Sprays
- Skip rows next to drainage
 - Distance?
- Fall vs Late Winter or Early Spring
 - Rainfall Pattern
- Low label rates
- No residual in fall
- Material Selection
- Other?

Materials

- chlorpyrifos (Lorsban)
- diazinon
- simazine
- Diuron

Alternatives

- spirotetramat (Movento)
- acetamiproid (Assail)
- dinotefuran (Venom)
- imidacloprid (Admire)
- buprofezin (Applaud)

diflubenzuron (Dimlin)
esfenvalerate (Asana)

methoxyfenozide (Intrepid)
tebufenozide (Confirm)
spinosad (Success, Entrust)

- * isoxaben (Gallery)
- * flunioxazin (Chateau)

Challenges

- Alternatives
- Economics
- Awareness
 - In the Field
 - Regulations, Laws & News

Regulators, Policy makers & Legislators
need education of framing and business

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