Do Biopesticides have a fit in IPM?

• Goal is to reduce or eliminate pesticides
• But is it really, or is it to reduce the negative issues typically associated with pesticides?
• Certain high quality Biopesticides can and do have a place in IPM programs
Use of Bt products in Agriculture

- OP Resistance
- Pyrethroids
- Pyrethroid Resistance
- Bt Crops
- Intro of New Gen. Chemistry
- Resistance to New Gen. Chemistry

Timeline:
- 1974
- 1978
- 1982
- 1986
- 2006
Why is Bt use growing around the world?

• Resistance Management
• Residue Management
• IPM
• Organic
• Economic
How Bt products are used today

• Typically used in a program with other biopesticides, old, or new chemistries
• Used either in a tank-mix or rotation
• Often sold and marketed by the multinational ag chem companies
• Used as “life extenders” for other new technologies
Commercial Use of Bt Products

- VBC currently sells DiPel, XenTari, and other brands of Bt products in 92 countries
- Registrations on over 55 worm species and over 200 crops
- Even though this technology is over 30 years old, sales continue to grow
Biopesticide solutions for Nematodes

- Limited number of products available today
- DiTera is the leading bionematicide on the market
- Used as the grower standard in wine and table grapes in the US, MX, and Chile
- Use expanding into vegetables and other crops where there is a fit with grower practices such as drip irrigation
GUIDE TO
Understanding & Evaluating
BIORATIONAL PRODUCTS
What does 'Biorational' mean?

1. An active ingredient or formulation that is effective in controlling pests and is typically, but not necessarily derived from biological or natural origins.

2. Characterized as providing added value to the end user, being highly targeted and efficacious while having low impact on both the environment and non-target living organisms.
What can you expect to gain from this guide?

- A better understanding about how to use biorational products.
- General knowledge on the overall value proposition and correct use of biorational products.
- The ability to differentiate between products that work and products that don’t.
The Seven Misconceptions of Biorational Products

- Biorationals don’t work
- Biorational products are expensive
- Biorationals are complicated and difficult to use
- Biorationals are intended to replace traditional chemicals
- Biorationals are only for use in organic growing systems, and are not used in mainstream agriculture
- All biorational products are created equal
- Biorational products are not reliable
How to obtain additional copies

If you know of someone that may benefit from receiving a copy of this guide, please send an email request to vbcwebmaster@valent.com and we will mail them a copy.

Or send in the postage paid card.