XenTari® and DiPel® Biological Insecticides from Valent BioSciences partnered with other chemistries provide excellent season-long control of significant insect pests such as cabbage looper, tobacco budworm, diamondback moth.

- **Early season**: Apply XenTari or DiPel alone to control small larvae, soon after hatch. Save the expensive soft chemistries for when you really need them.
- **Mid season**: Use XenTari or DiPel as a tank mix partner or in rotation with conventional chemistries for increased efficacy and better resistance management.
- **Late season**: XenTari and DiPel have the shortest re-entry and pre-harvest intervals allowed by regulation. You will also have no residue issues.

### Cabbage Field Trials Run by Dr. Dak Seal, University of Florida-IFAS

**Control Program 1**
One week rotation schedule of: Coragen Insecticide (5 oz./A, soil application) → Proclaim Insecticide (4.8 oz/A) → Avaunt Insecticide (3.5 oz/A) → Capture Insecticide (2.6 oz/A)
Cost: $82.26/A

**Control Program 2 (Soft Chemistries)**
One week rotation schedule of: Coragen (5 oz/A soil application) → XenTari (16 oz/A) → Avaunt (3.5oz/A) → XenTari (16 oz/A)
Cost: $72.39/A

Field results prove XenTari is an excellent, economical partner in diamondback moth control while providing additional benefits for resistance, residue, and harvest management.
XenTari Control Program 1 (Soft Chemistries):
Weekly rotation schedule of: Coragen (5 oz/A, soil application) → XenTari (16 oz/A) → XenTari (16 oz/A) → Proclaim (4.8 oz/A) → Avaunt (3.5 oz/A) → XenTari (16 oz/A) → XenTari (16 oz/A).
Cost: $125.15/A

XenTari Control Program 2:
Weekly rotation schedule of: Coragen (5 oz/A soil application) → XenTari (16 oz/A) → Avaunt (3.5 oz/A) → XenTari (16 oz/A) → Capture (2.6 oz/A) → XenTari (16 oz/A) → Avaunt (3.5 oz/A).
Cost: $105.08/A

Synthetic Chemistry Control Program 3:
Weekly rotation schedule of: Coragen (5 oz/A soil application) → Proclaim (4.8 oz/A) → Avaunt (3.5 oz/A) → Capture (2.6 oz/A) → Radiant Insecticide (5 oz/A) → Proclaim (4.8 oz/A) → Avaunt (16 oz/A).
Cost: $156.14

Best Use Directions for XenTari and DiPel:
- Match the right product to the right pest
  - DiPel is strong on cabbage loopers and Heliothis spp.
  - XenTari is especially strong on Spodoptera spp.
- Apply when eggs are near hatch or when larvae are small
- Use before insects reach economic threshold
- Apply when larvae are actively feeding
- Ensure good spray coverage on the top and bottom of the foliage
- Use a spreader-sticker or surfactant on hard to wet crops

XENTARI and DIPEL are registered trademarks of Valent BioSciences Corporation. Valent BioSciences Corporation owns registrations for these marks in the United States and elsewhere.
AVAUNT and CORAGEN are trademarks of DuPont. PROCLAIM is a trademark of Syngenta. CAPTURE is a trademark of FMC Corporation. RADIANT is a registered trademark of Dow AgroSciences.

870 Technology Way / Libertyville, IL 60048 © Valent BioSciences Corporation February 2009
AG 5402