



An Effective and Efficient Granular Neem Based Bio-pesticide for Pest Management



S.Balaji & Team

E I D Parry (India) Ltd R&D Centre, Thyagavalli Cuddalore, Tamil Nadu, INDIA E-mail: <u>sbalaji@parry.murugappa.com</u>







- Company profile
- AVANA An overview
- AVANA For Crop protection & Production in Paddy
- AVANA For Crop Protection & Production in Sugarcane
- Conclusion







Established in 1788

- Established first Sugar plant in India - 1842
- Established first Distillery in India - 1848

Pioneer in Fertilizers from 1906

> World's largest manufacturer of Azadirachtin













Patent on AVANA



US 20060099233A1 (19) United States (12) Patent Application Publication Rao et al. (10) Pub. No.: US 2006/0099233 A1 (43) Pub. Date: May 11, 2006		Patent on Granular formulation of Neem Seed Extract and its Process
 (54) GRANULAR FORMULATION OF NEEM SEED EXTRACT AND ITS PROCESS THEREOF (75) Inventors: Damarla Sreenivasa Rao, Bangalore (IN); Davendra Kumar, Bangalore (IN); Liza Joz, Bangalore (IN); Mambully Chandrasekaran Gopinathan, Bangalore (IN) Correspondence Address: KILYK & BOWERSOX, PL.L.C. 400 HOLIDAY COURT SUITE 102 WARRENTON, VA 20186 (US) (73) Assignee: E.I.D. Parry (India) Limited (21) Appl. No.: 11/298,273 (22) Filed: Dec. 9, 2005 Related U.S. Application Data (63) Continuation-in-part of application No. PCT/IN05/ 00001, filed on Jan. 3, 2005. 	 (30) Foreign Application Priority Data Mar. 31, 2004 (IN)	Patented in USA, China, India & South Africa.Pub. No. : US2006/0099 233 A1Assignee: E. I. D. Parry (India) LimitedSummer State

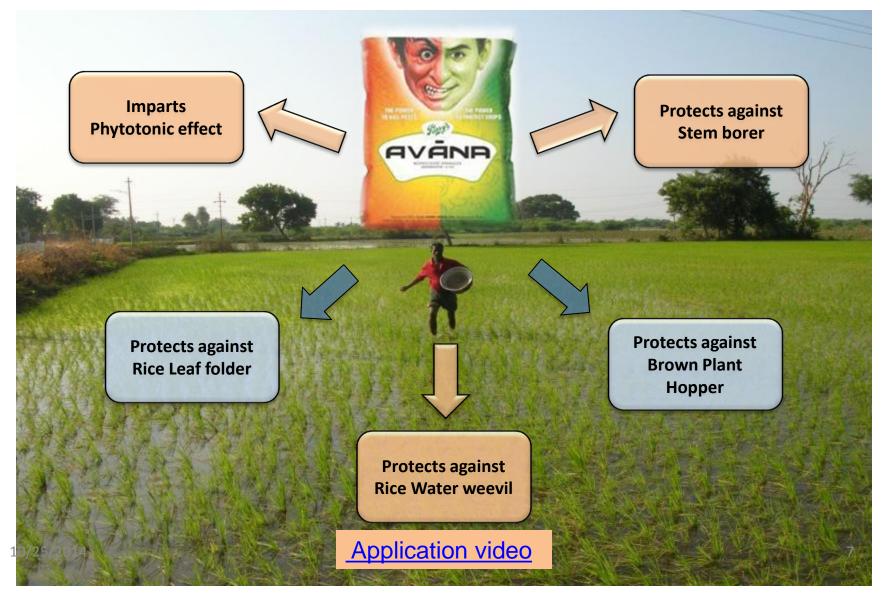
10/25/2014



AVANA in Paddy



For Protection and Production



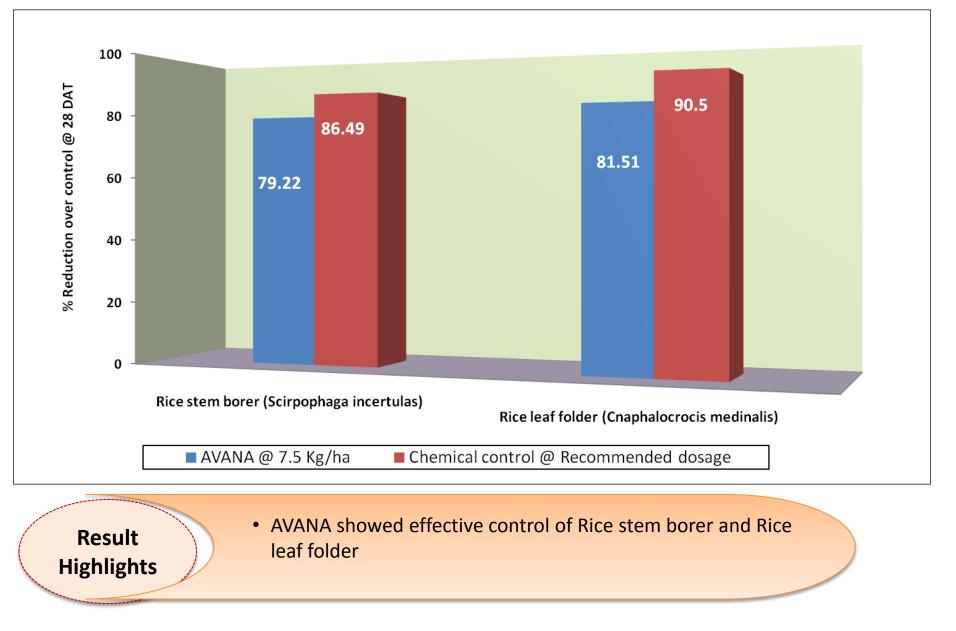




AVANA for Crop protection in Paddy



Bio-efficacy Trial against Rice Stem Borer and Rice Leaf folder

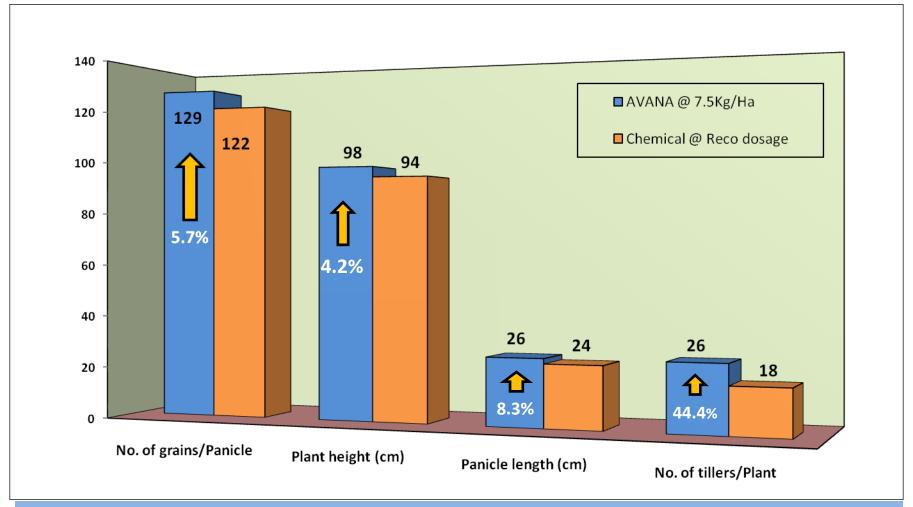




AVANA for Crop Production in Paddy



Phytotonic effects- Crop Booster



Trial Location: West Bengal, INDIA

Trial Highlights: AVANA boosted the growth of plants when compared to the chemical competitor



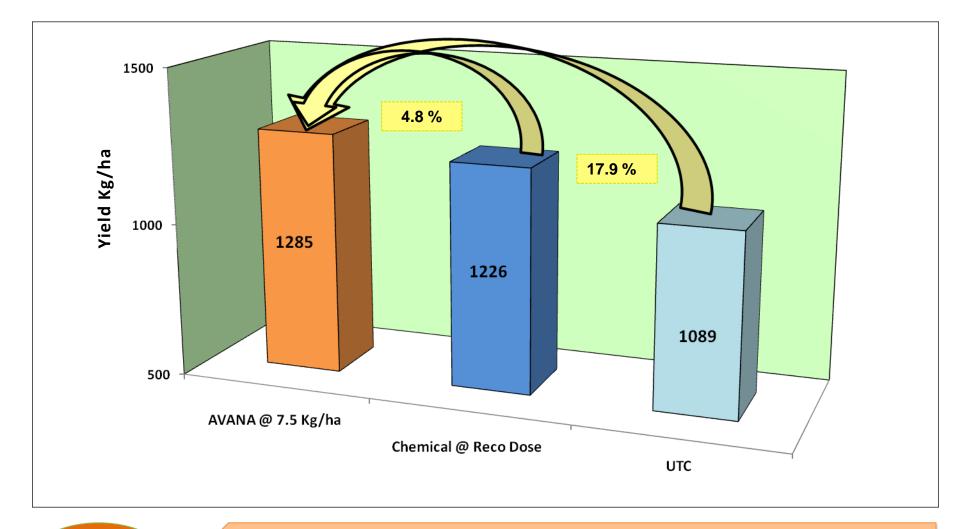
Result

Highlights

AVANA for Crop Production in Paddy

Phytotonic effects- Yield Enhancer





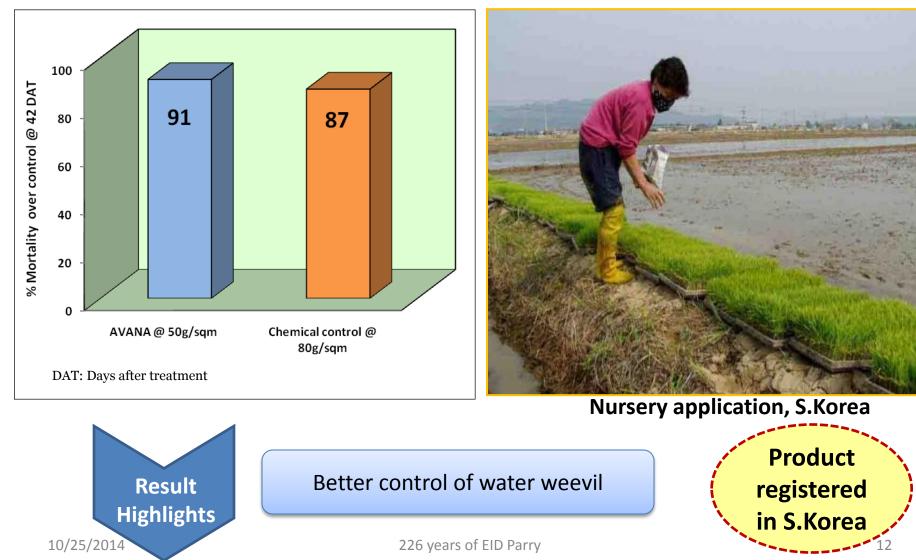
- Trial Location West Bengal INDIA
- AVANA showed 4.8% increase in yield over chemical control and 17.9% increase over UTC 226 years of EID Parry 11



South Korea - AVANA for Crop protection in Paddy



Bio-efficacy trials against Rice water weevil (*Lissorhoptrus oryzophilus* Kuschel)

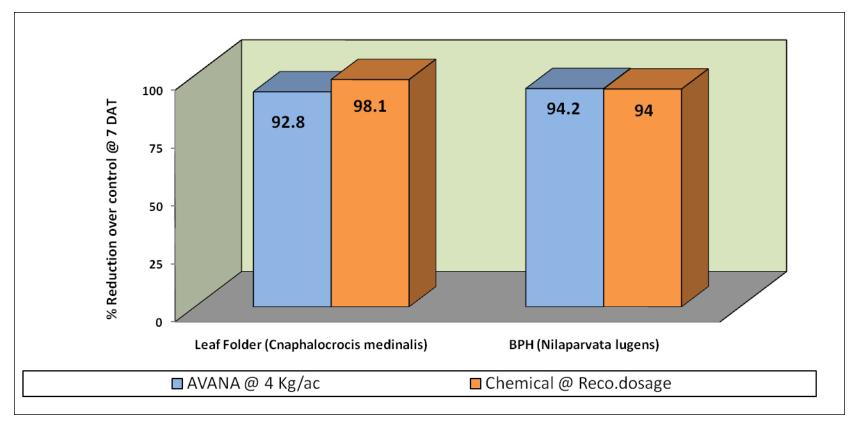




China - AVANA for Crop protection in Paddy



Bio-efficacy trials against Brown Plant Hopper (BPH) and Leaf Folder



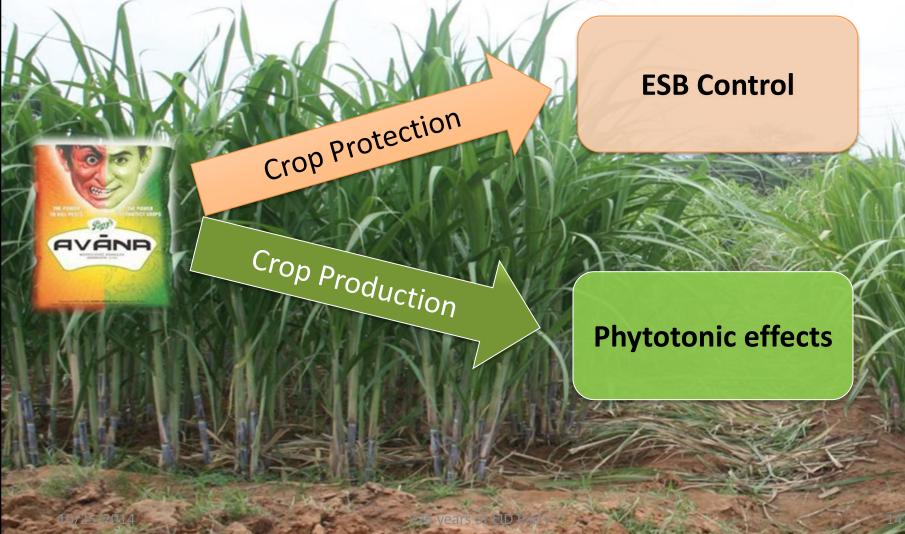
• Effective control of BPH and leaf folder.





AVANA in Sugarcane

for Protection & Production

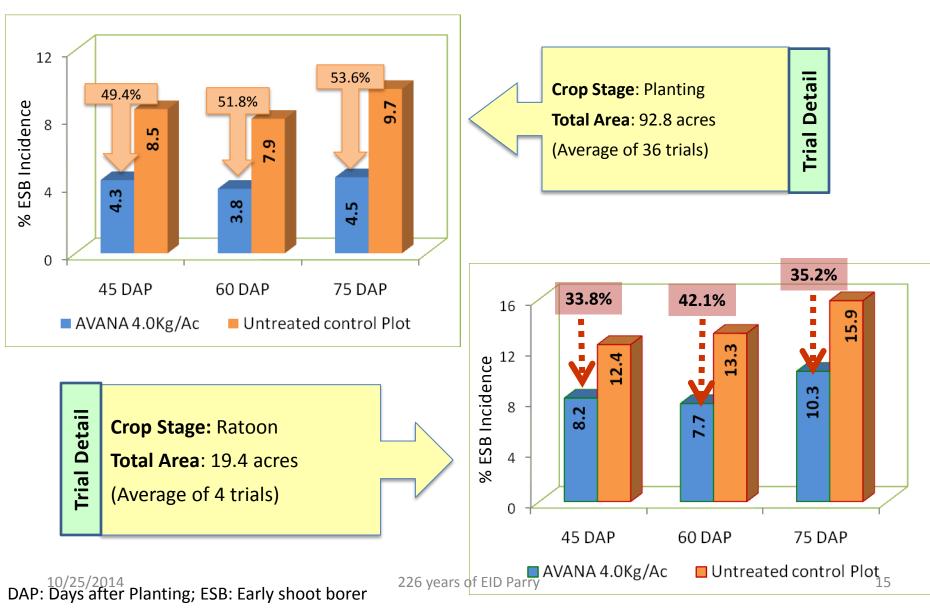




AVANA for Crop protection in Sugarcane



Bio-efficacy Trial against Early Shoot Borer (Chilo infuscatellus)

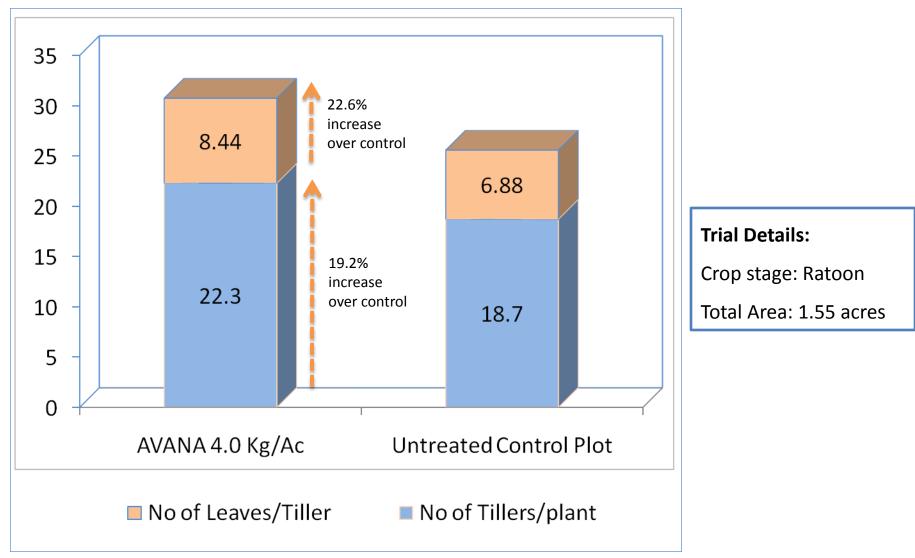




AVANA for Crop production in Sugarcane



Phytotonic effects

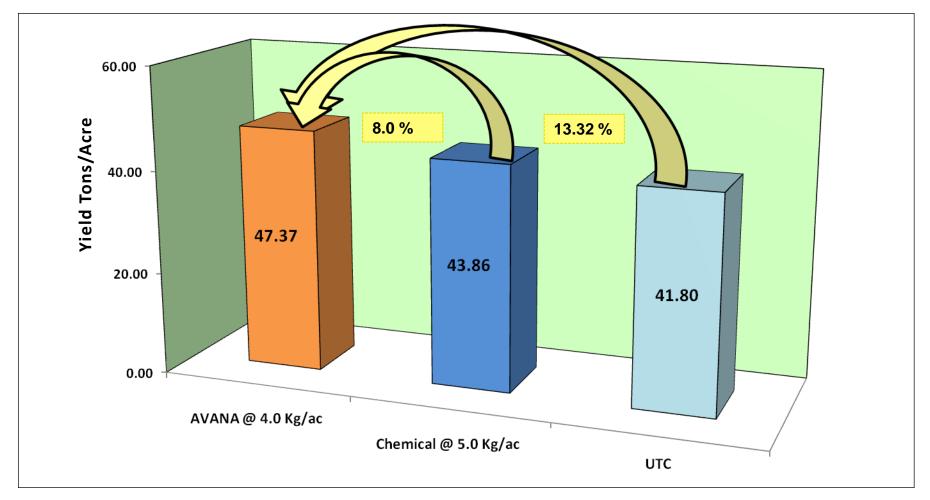


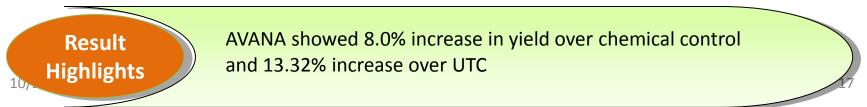


AVANA for Crop Production in Sugarcane

(Windowski) murugappa

Phytotonic effects- Yield Enhancer















□ Controls wide range of pest problems in Paddy and Sugarcane along with additional benefit of phytotonic effects.







- □ Controls wide range of pest problems in Paddy and Sugarcane along with additional benefit of phytotonic effects.
- □ Effective crop protection for long periods.







- Avana controls wide range of pest problems in Paddy and Sugarcane along with additional benefit of phytotonic effects.
- □ Effective crop protection for long periods.
- □ Commercially viable solution for safe and sustainable organic agriculture.









Thank You for your kind attention !!!