

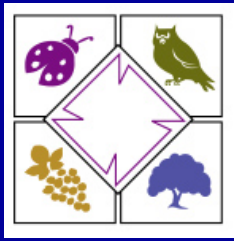
Central Coast Vineyard Team

Biologically Integrated Farming System Project

Using the Positive Points System to Reduce Pesticide Risk in Central Coast Vineyards

Kris O'Connor, M.S.

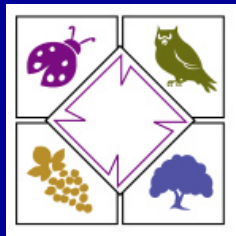
UC Davis
May 17, 2005



Central Coast Vineyard Team History & Mission

- **Non-Profit Grower Group (1995)**
- **Broad and Diverse Growers**
- **Engaged People with Different Perspectives**
- **Mission: Educate and Guide Towards Sustainable Practices**
- **Positive Points System – Whole Farm Approach to Improve Fruit Quality**



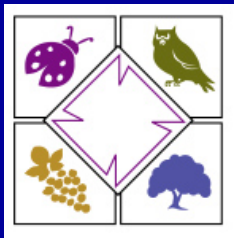


Biologically Integrated Farming System (BIFS)

2002 - 2005

- Goal: Increase the use of BIFS practices to help reduce pesticide risks
- Assist Growers Adopting New Practices based on PPS
- Intensive Pest Monitoring
- Track Pesticide Use
- BIFS Blocks in 3 counties
- BIFS Growers manage 20,000 acres





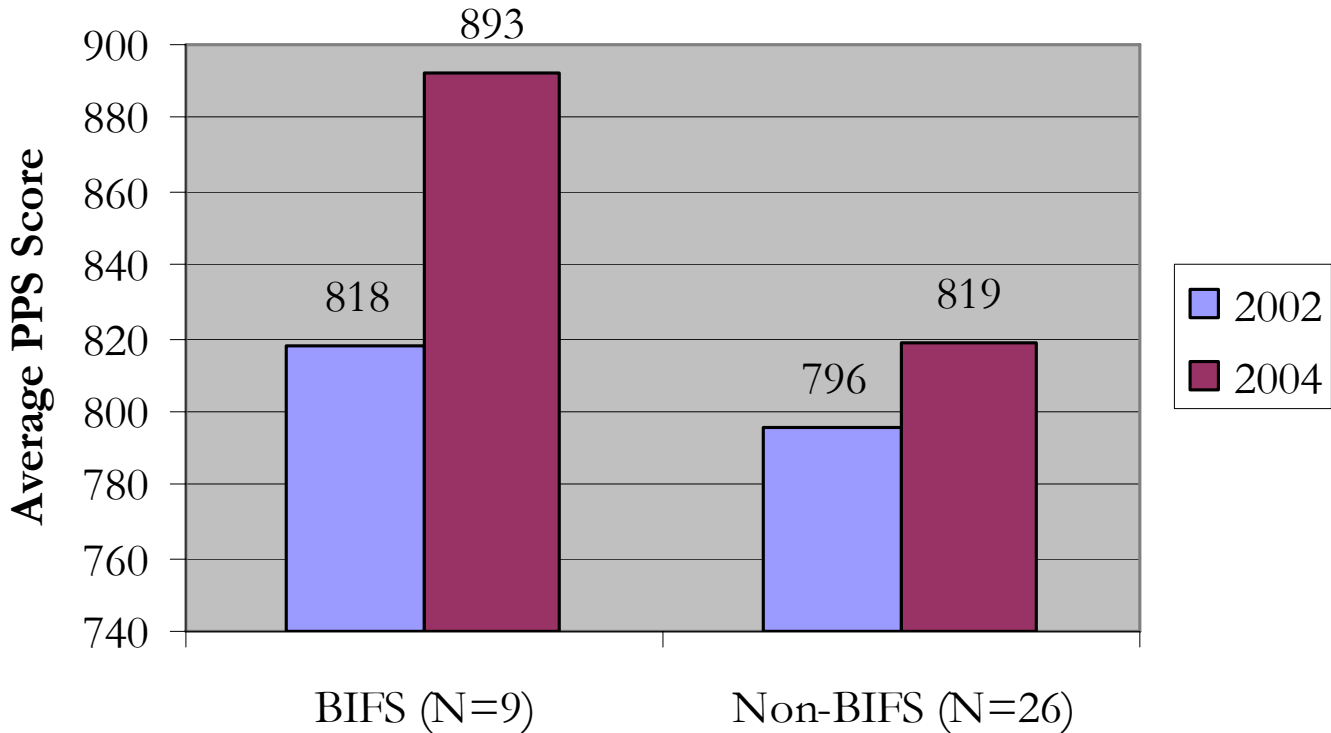
BIFS Implementation – Varied by Site, Issue, and Program

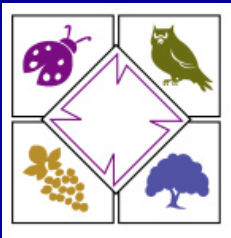
- Intensive weekly monitoring and recording
- Action plans based on target pest and material
- Reduce or eliminate high risk, broad spectrum materials
- Alternative weed practices
- Alternative, low risk materials
- Beneficial releases, insectary refuge, compost, cover crops
- Tolerate higher pest levels



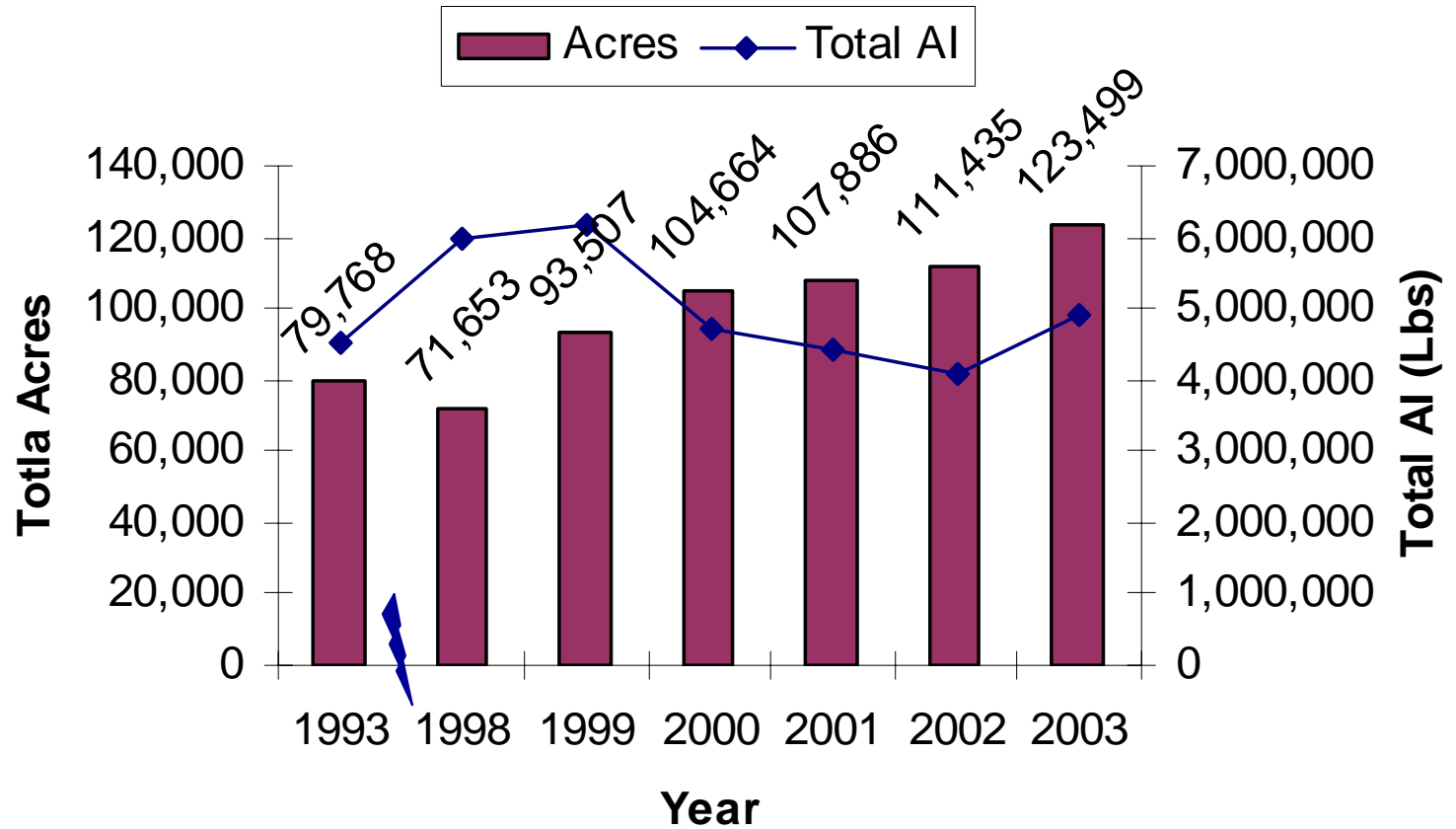


Changes in PPS Scores BIFS vs. Non-BIFS Growers (2002 – 2004)

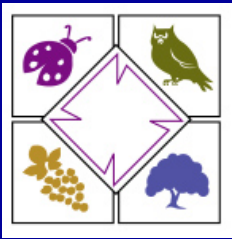




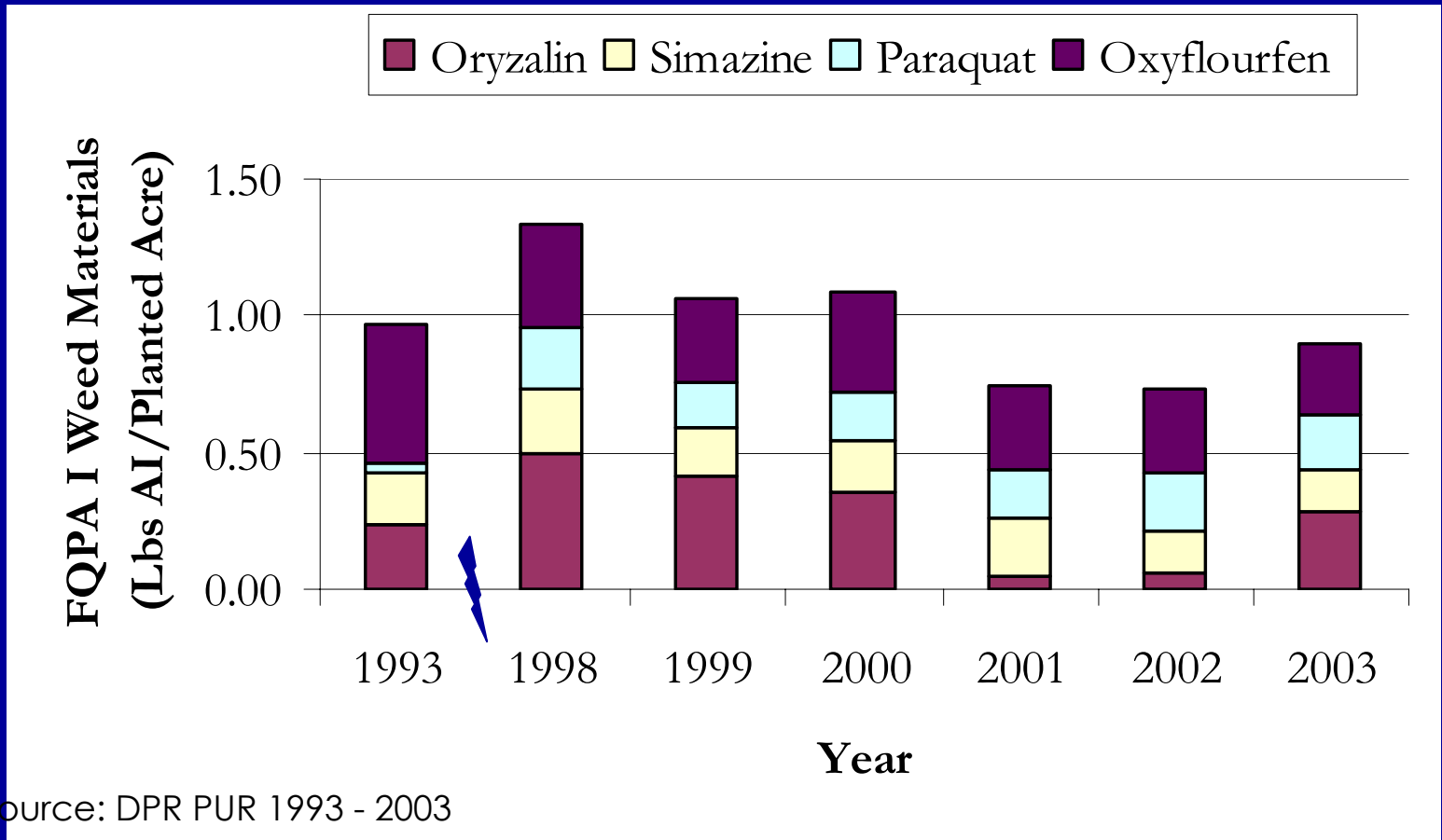
Historical Acres & Pesticide Use Central Coast Winegrapes



Source: DPR PUR 1993 - 2003



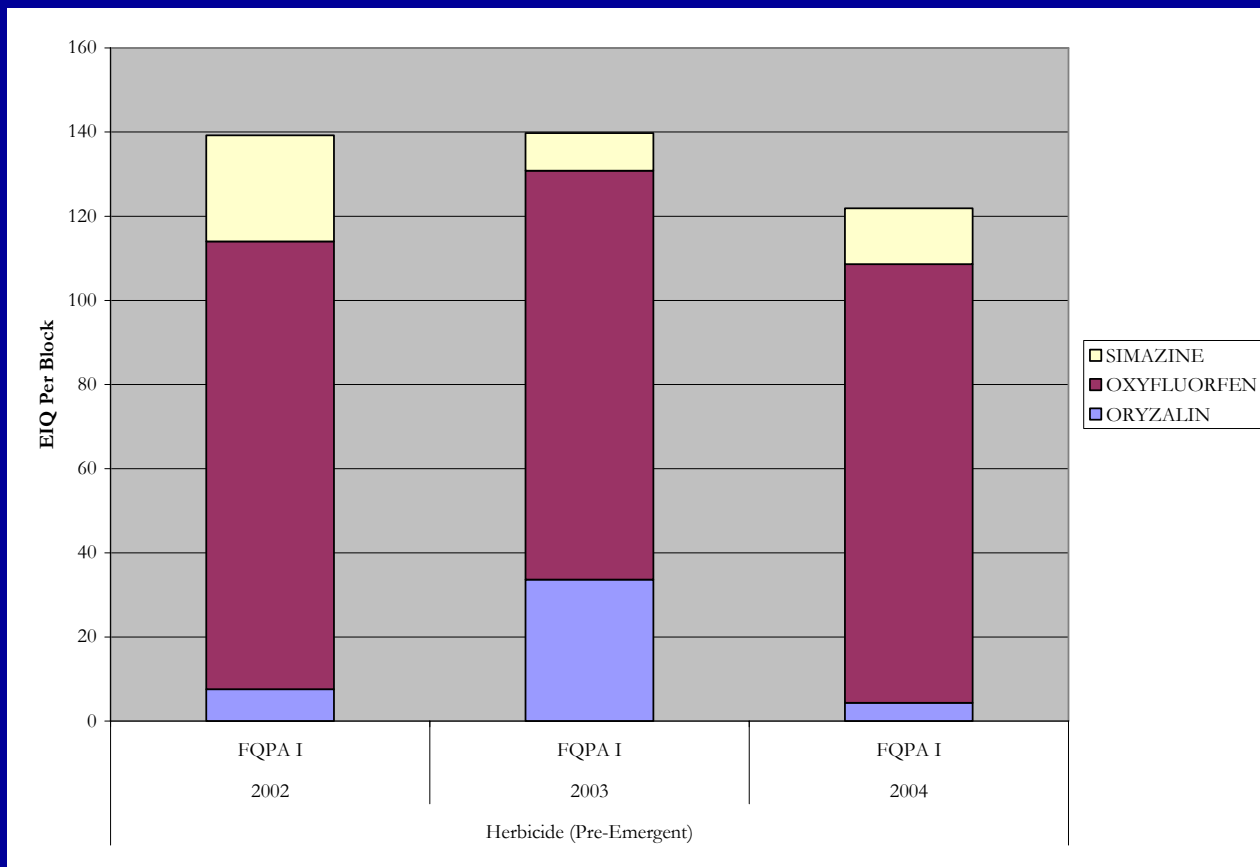
Central Coast Pesticide Use (FQPA I Weed Materials Per Acre Basis)



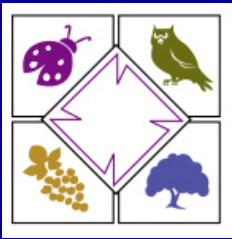
Source: DPR PUR 1993 - 2003



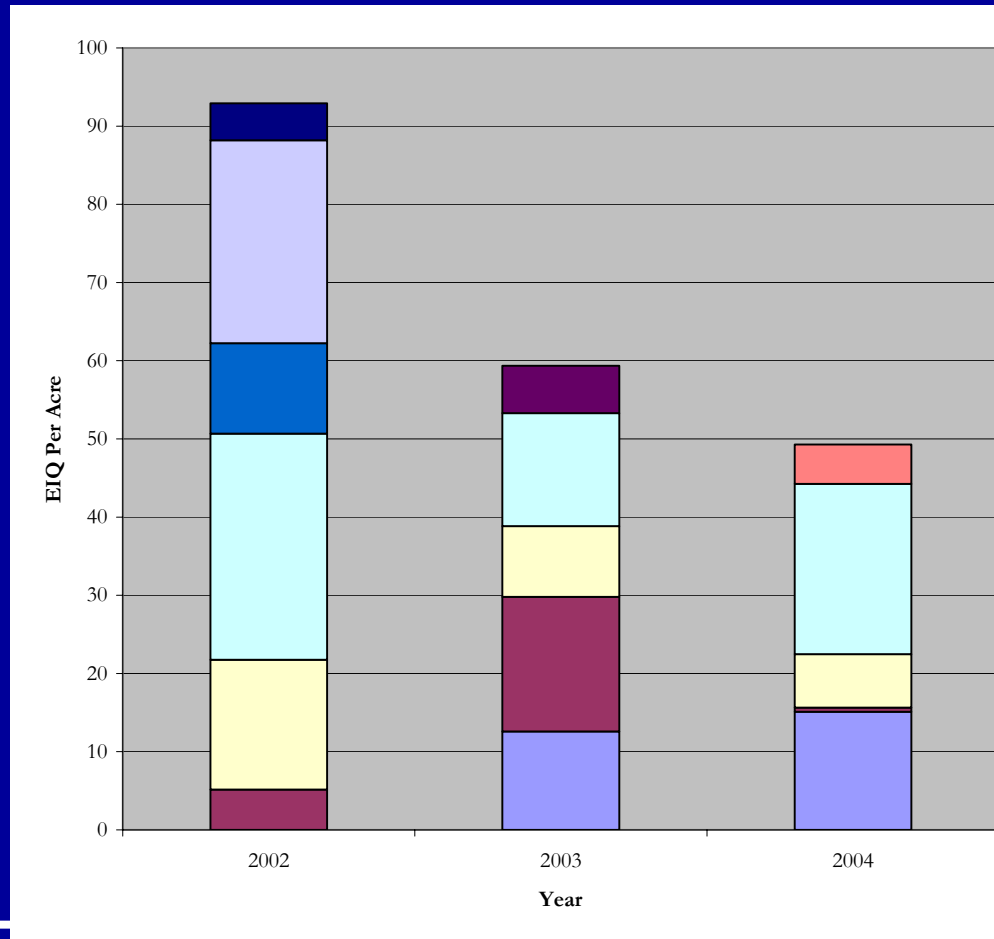
BIFS FQPA I Pre-Emergents (simazine, oxyfluorfen, oryzalin)



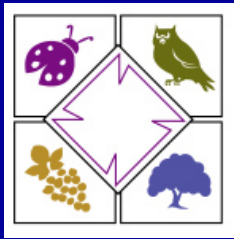
Good for Growers ✕ Good for the Environment ✕ Good for the Community



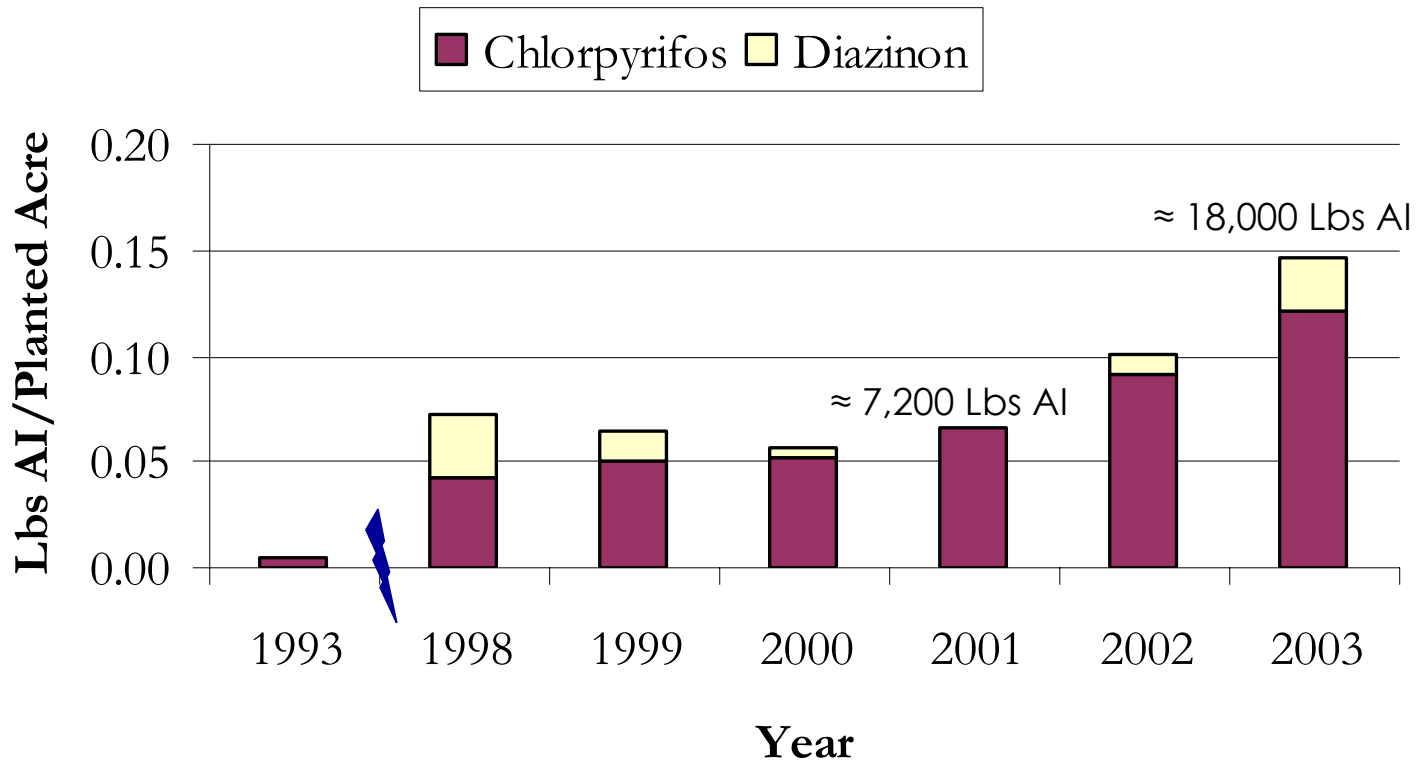
BIFS FQPA I Contact Herbicide Use (paraquat dichloride)



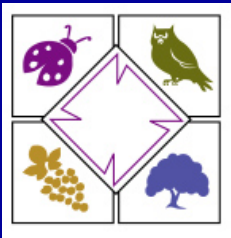
Good for Growers ✕ Good for the Environment ✕ Good for the Community



Central Coast Winegrape Pesticide Use Chlorpyrifos & Diazinon (per acre basis)

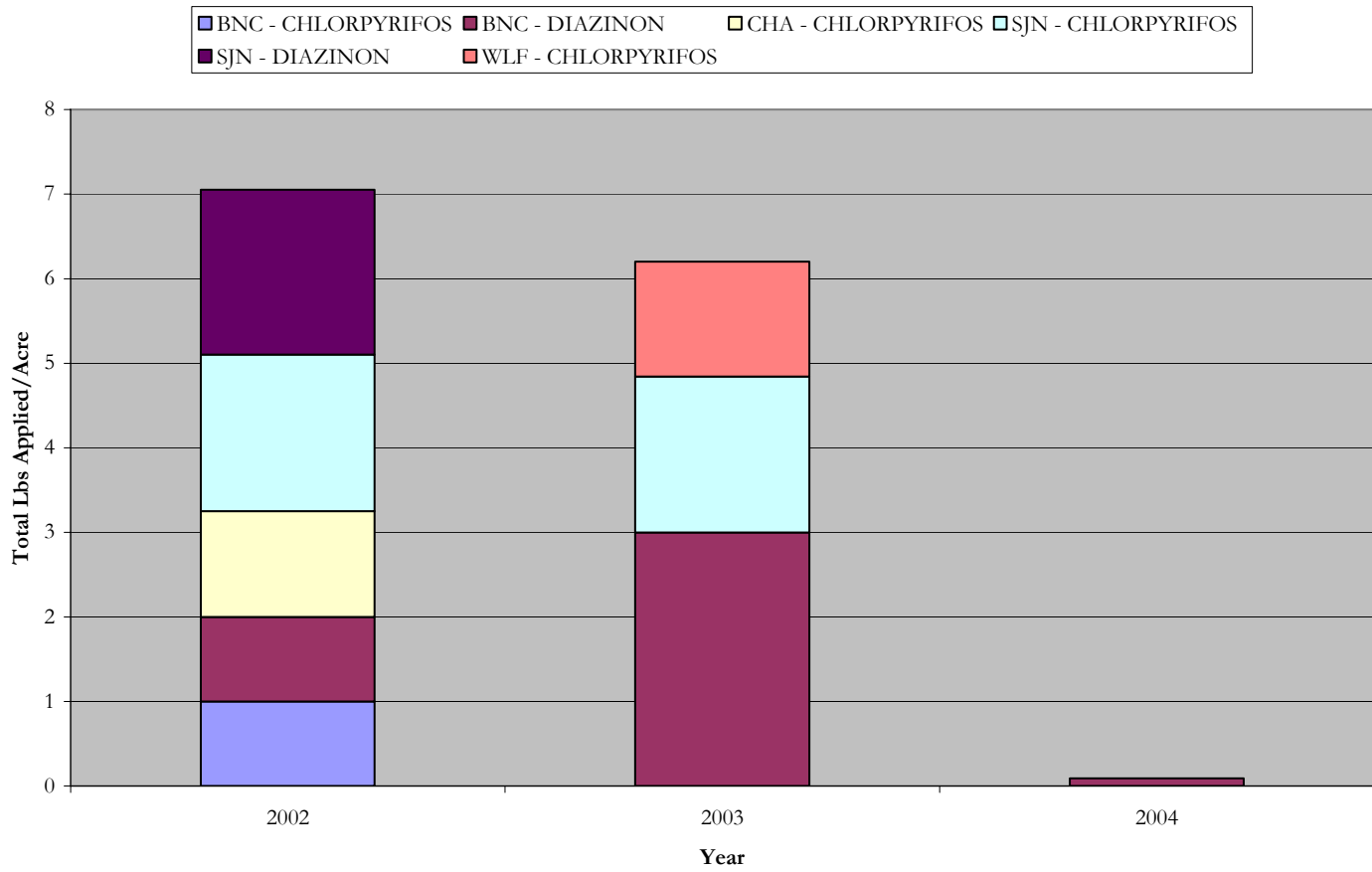


Source: DPR PUR 1993 - 2003

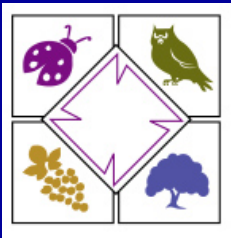


BIFS Pesticide Use

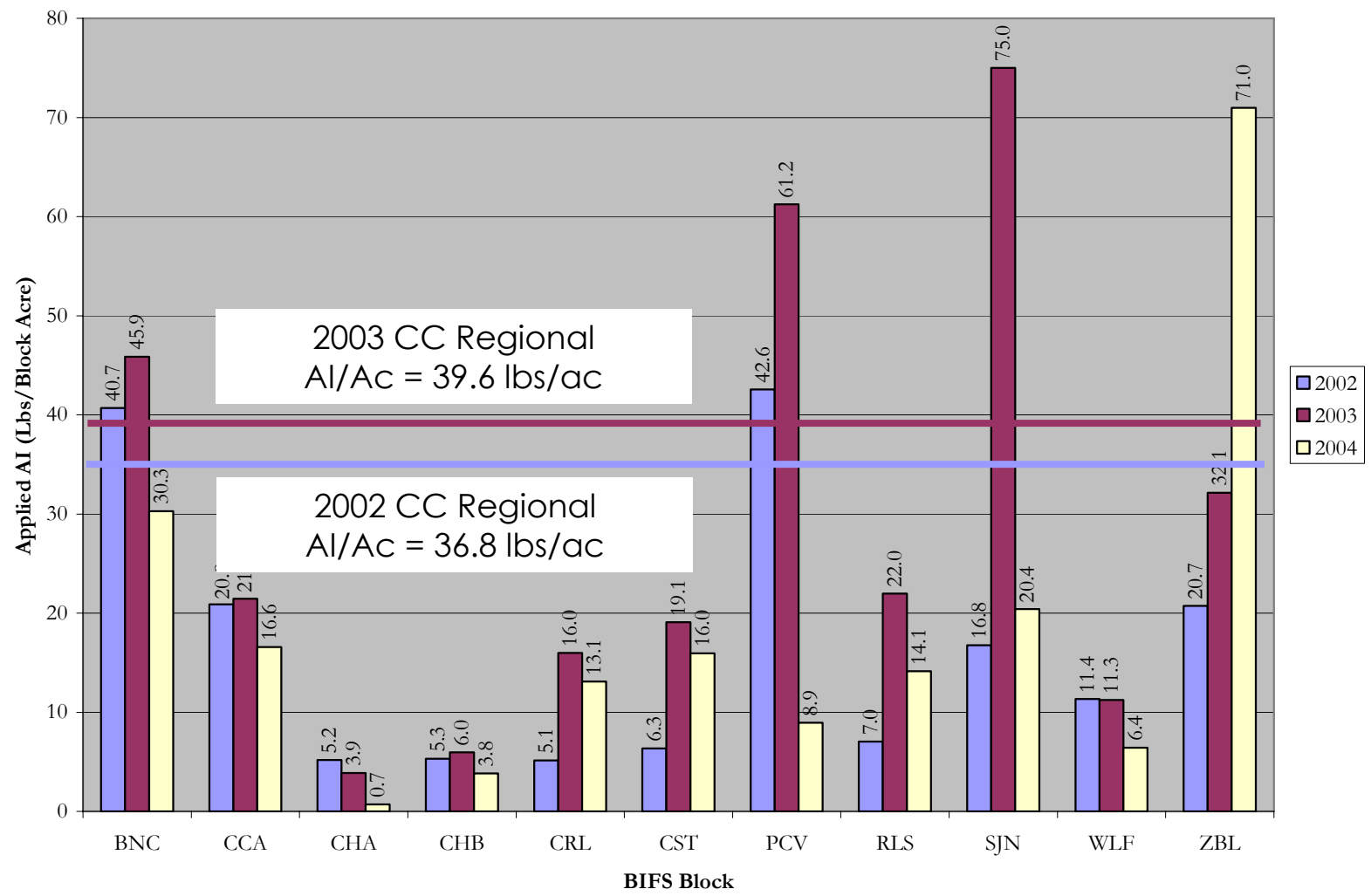
Chlorpyrifos & Diazinon Per Acre Basis



Good for Growers ✎ Good for the Environment ✎ Good for the Community

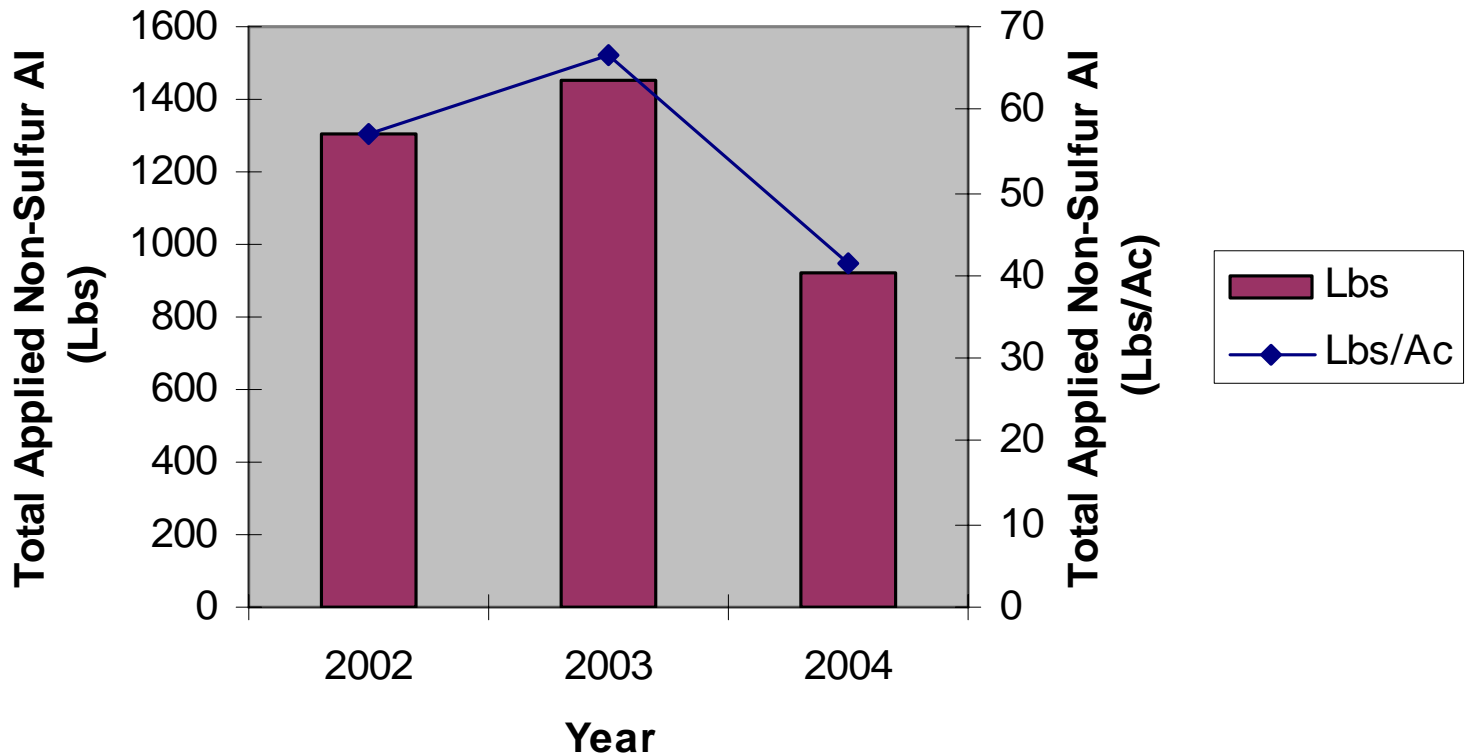


Pesticide Use BIFS vs. Central Coast (lbs/ac)

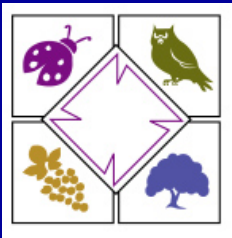




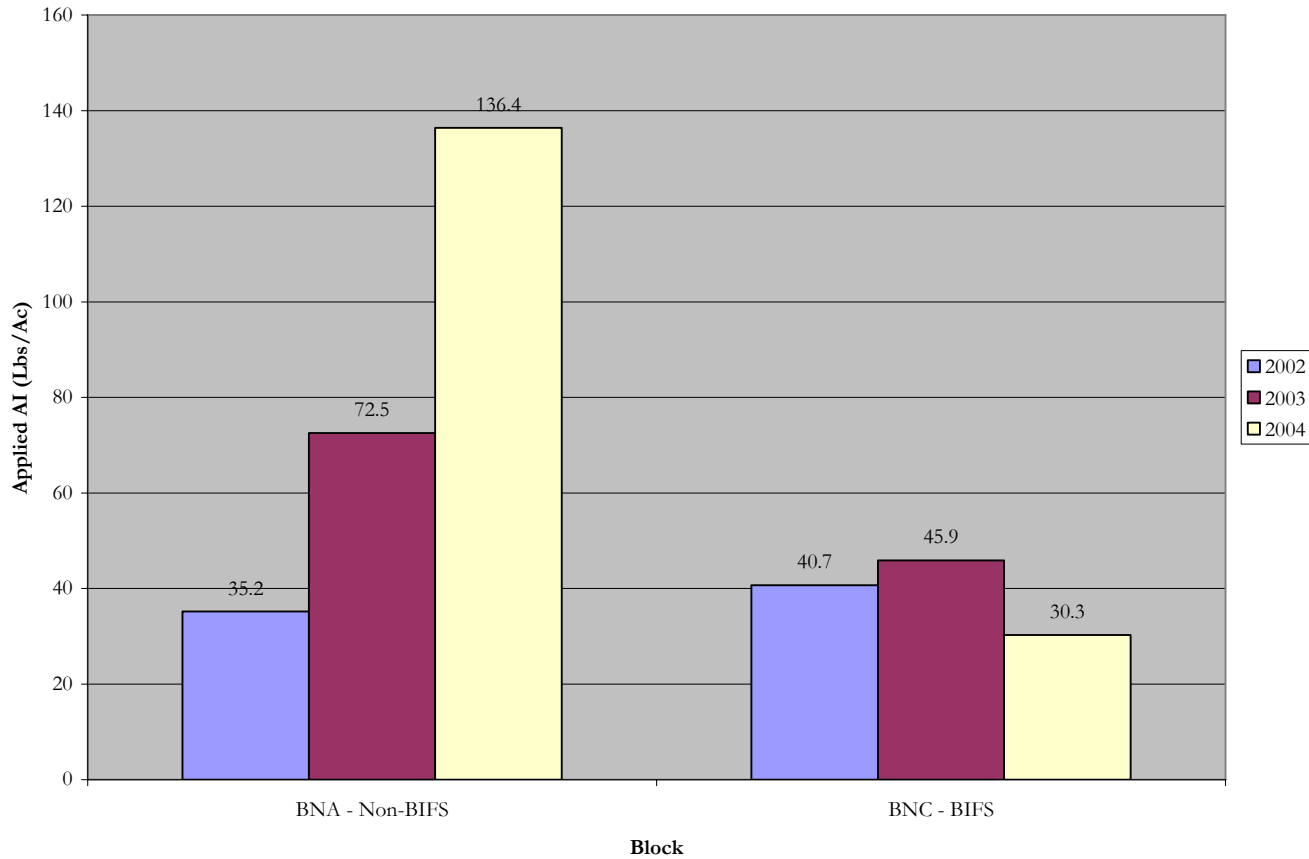
BIFS Pesticide Reduction (minus sulfur)



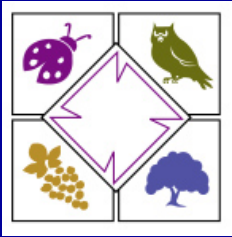
Good for Growers ✕ Good for the Environment ✕ Good for the Community



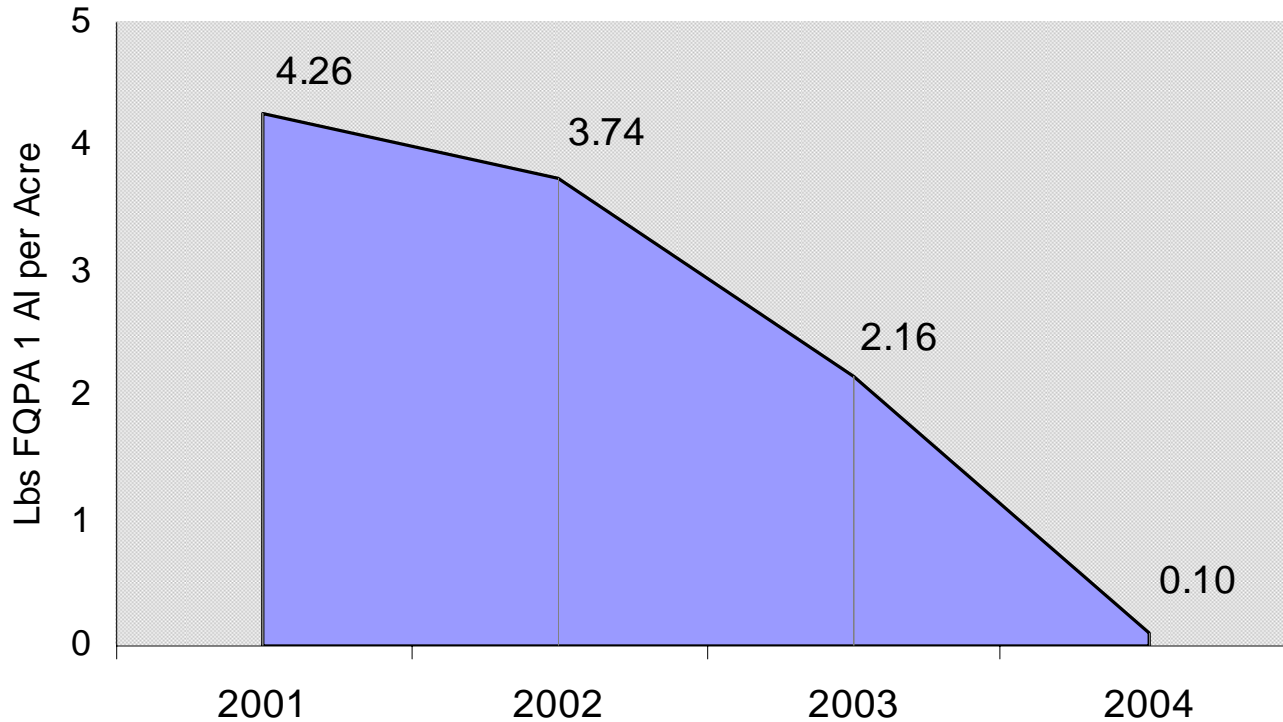
BIFS vs. Non-BIFS at BN Vyd



Good for Growers ✕ Good for the Environment ✕ Good for the Community



FQPA I Reduction at SJN



Good for Growers ✕ Good for the Environment ✕ Good for the Community

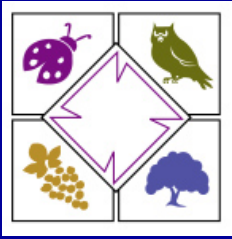


Outreach and Education

Outreach and Education

- Tailgate Meetings
 - 55 Meetings & 1,383 attendees
 - Avg Acreage = 7,100 ac/mtg
- Newsletters
 - Quarterly – 1,800 recipients
- Presentations & Events
 - 108 events & 20,000 reached
- Articles
 - 15 articles – various publications

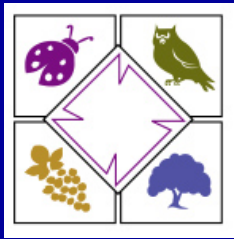




Project Reflection

- Challenges
 - Broad Geographic Area
 - Limited Opportunities for Certain Growers
- Strengths
 - Growers
 - Pesticide Database
 - Outreach





CENTRAL COAST VINEYARD TEAM

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