Zero Waste A Sustainable Initiative



Josh Heptig

Golf Superintendent San Luis Obispo County Parks

Why Zero Waste?

The goals of Zero Waste are

- 1. Reduce consumption
- 2. Minimize waste
- 3. Maximize recycling
- 4. Promote products that are made to be repaired, reused, or recycled back into nature or the marketplace

Objectives of the Zero Waste Park at Dairy Creek

- 1. Educate and Demonstrate how to reduce food waste to landfills
- 2. Reduce water use, chemical, and fertility usage on our golf course











- I. Education Through Demonstration
 - 1. Ask customers to help with the process











- I. Education Through Demonstration
 - 2. Utilize community organizations





- I. Education Through Demonstration
 - 3. Group presentations and tours



I. Education Through Demonstration

- 4. Media exposure/PR (non-golfers)
- > Rotary International presentations
- Botanical Garden Group tours
- Audubon Wildlife groups
- Newspaper articles
- Radio talk shows
- Blog sites
 - <u>www.slocountygolfcourses.blogspot.com</u>
 - <u>www.greengolferfoundation.blogspot.com</u>
- You Tube

II. The Process

- 1. Infrastructure needs and development
- 2. Implementation
- 3. Education
- 4. Results

- ii. Estimates suggest a 20% reduction in water costs, we estimate 10% = \$7,600 (electrical only)
- iii. Donations/grants/materials = \$33,000
- iv. Results in ROI of 4.3 years; 2.5 ROI with fertilizers and pesticides, but still no actual water costs included.

- I. Reduced Inorganic Fertility
 - 1. Compost Provides N, P, K and various microbial populations
 - 2. Worm castings Provide higher source of P through the digestive process of the worms, high in microbes,

fast turn around time.

3. Compost tea – Liquid fertility with exponential growth for microbes.

II. Resource Maximization

- 1. Reduce Convert F&B operations to minimize/eliminate non-compostable and non-recyclable materials
- 2. Reuse Sort all products to create a stream for compost, recycle, and trash
- 3. Recycle Use this as the last resort

III. Community Involvement

- 1. Non-profit
- 2. Institutions of higher learning
- 3. Environmental groups
- 4. Special interest

Reach out to these groups for assistance and combine resources

III. Community Involvement

• The San Luis Obispo Integrated Waste Management Authority was awarded grant funding to provide recycling containers for all golf courses in SLO County (\$110,000) with our project as the driver

- Large part of Earth Day Celebration
- Providing example of how to handle food waste within our communities
- 27,000 POUNDS OF FOOD WASTE ELIMINATED FROM LANDFILLS!

IV. Golf Industry Importance

- 1. Global leadership
- 2. Pro-activity
- 3. Improved public image
- 4. Grow the game of golf



Zero Waste Park at DCGC What's Next???



Questions?

