

INTTEGRATED **P**EST **M**ANAGEMENT REPORT

Integrated Pest Management





The United States Environmental Protection Agency describes Integrated Pest Management (IPM) as follows:

Integrated Pest Management (IPM) is an effective and environmentally sensitive approach to pest management that relies on a combination of common-sense practices. IPM programs use current, comprehensive information on the life cycles of pests and their interaction with the environment. This information, in combination with available pest control methods, is used to manage pest damage by the most economical means, and with the least possible hazard to people, property, and the environment.

IPM takes advantage of all appropriate pest management options including, but not limited to, the judicious use of pesticides. In contrast, *organic* food production applies many of the same concepts as IPM but limits the use of pesticides to those that are produced from natural sources, as opposed to synthetic chemicals.

Integrated Pest Management



Public Works Department IPM PROGRAM

- 4 Pest Control Advisors (PCA)
- 3 Pest Management Coordinators (PMC)
- 11 Qualified Applicators (QAL/QAC)
- 42 Trained Pesticide Handlers

Integrated Pest Management



Public Works Department IPM HIGHLIGHTS

- Large reductions in use since 1999
- Reduction in type of pesticides used
- Successful pilot projects
 - WeedSeeker technology
 - Mulch
 - Steam applications
 - Perches
 - Mowing

Integrated Pest Management



Public Works Department IPM HIGHLIGHTS

Annual Pesticide Use Summary



Integrated Pest Management



Public Works Department - Transportation Division

IPM HIGHLIGHTS

Annual Pesticide Use Summary

	1999	2000	2001	2002	2003	2004	2005	2006
Oust	21.33	0	0	0	0	0	0	0
Karmex	728	0	0	0	0	0	0	0
Surflan	488	0	0	0	0	0	0	0
Round Up	634	684	464	260	767.2	731.4	34.4	194.64
Merit	2.15	0	0	0.005	0.036	0.0125	0	0
Garlon*4	0	0.075	0.31	0.11	0.34	0	0.063	0.125
TOTAL	1873.48	684.075	464.31	260.115	767.576	731.4125	34.463	194.765

Integrated Pest Management



Public Works Department - Transportation Division INNOVATIVE SOLUTIONS



- **WeedSeeker® Technology**
 - Advanced optics and computer circuitry senses if a weed is present
 - Targeted use reduces herbicides used
 - Reduces waste
 - Reduces cost



Integrated Pest Management



Public Works Department - Water Resources

IPM HIGHLIGHTS

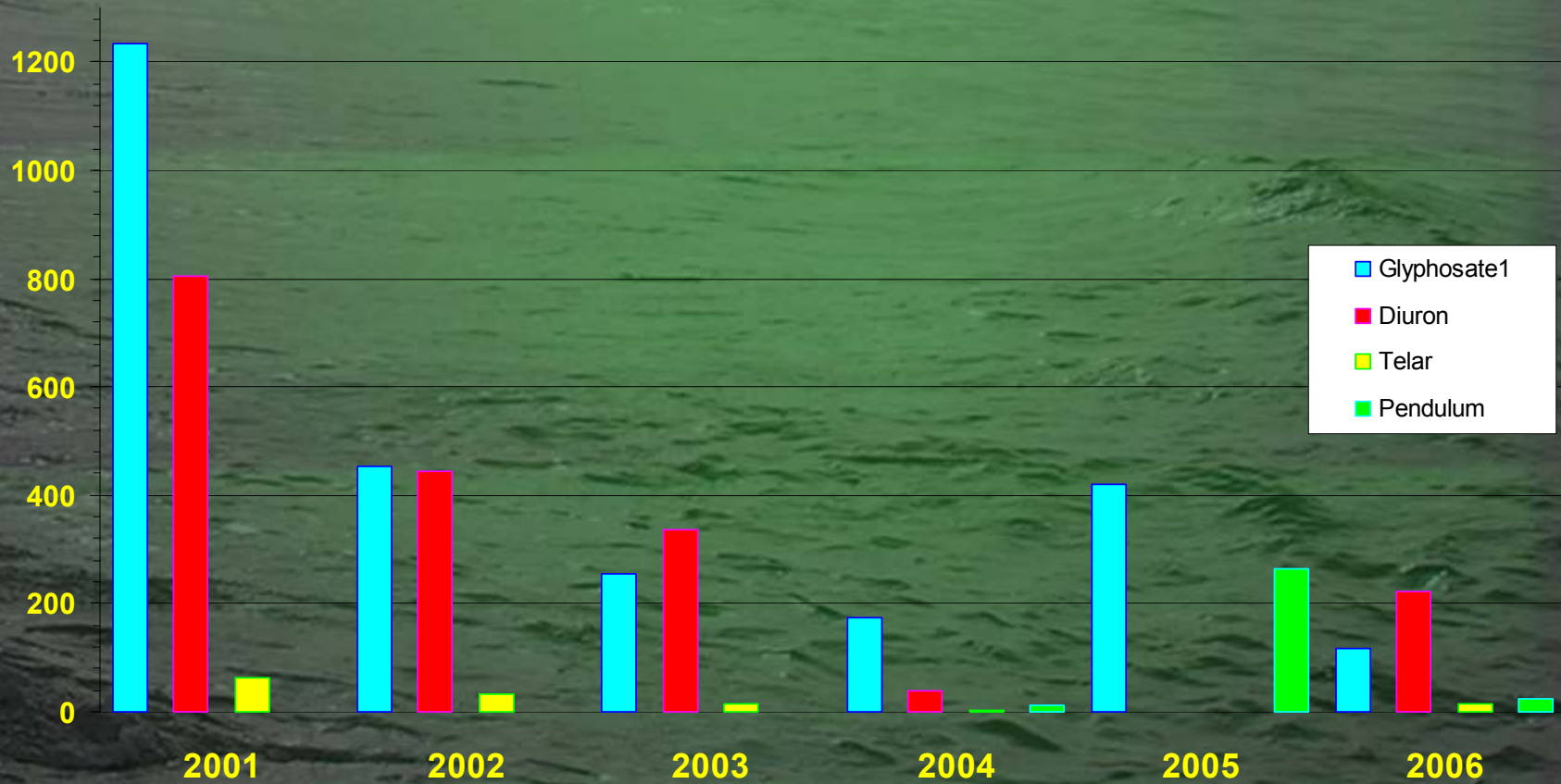
Santa Barbara County Public Works Department/Flood Control District								
Annual Pesticide Use Summary								
	Amount Used 2001 ²	Amount not to exceed in 2002 ³	Actual Use 2002	Amount not to exceed in 2003 ⁴	Actual Use 2003	Actual Use 2004	Actual Use 2005	Actual Use 2006
Glyphosate ¹	1233 gal.	986 gal.	452 gal.	789 gal.	256 gal.	174 gals.	419 gals.	116 gals.
Diuron	805 gals.	644 gals.	443 gals.	515 gals.	337 gals.	39 gals.		223 gals.
Telar	62 lbs.	50 lbs.	32 lbs.	40 lbs.	16 lbs.	3 lbs.		15.3 lbs.
Pendulum	No baseline use established					13 gals.	265 gals.	22.8gals.

1. Glyphosate is the active ingredient in both Round Up and Aqua Master (formerly Rodeo)
2. Amount used in 2001 is the basis for calculating reductions for the succeeding year.
3. 2001 base amount less 20%.
4. 2002 target less an additional 20%

Integrated Pest Management



Public Works Department - Water Resources IPM HIGHLIGHTS



Integrated Pest Management



Public Works Department - Water Resources

IPM SUMMARY

- Reductions in Herbicide have been successful thanks to;
 - Changes in practices
 - Purchase of mowers (replace mechanical mowing for chemical treatments)
 - Ultimately, it was from a commitment to make the reductions by staff.
- Only downside – increase occurrence of endangered species in some areas.

Integrated Pest Management



Public Works Department - Water Resources INNOVATIVE SOLUTIONS

Owl boxes



Integrated Pest Management



Public Works Department - Water Resources
INNOVATIVE SOLUTIONS

Levee Raptor Perch



Integrated Pest Management



Parks Department



Integrated Pest Management





Pesticides are not used at the following parks:

- Lookout Park, Summerland
- Arroyo Burro Park, Santa Barbara
- Santa Barbara County Courthouse Sunken Garden
- The unincorporated open space areas of the 2nd Supervisorial District
- Woof Pack Park, Santa Maria
- Technical Services Demonstration Garden, Santa Maria

Integrated Pest Management





Herbicides are not used Countywide:

- Within 50 feet of playgrounds
- On lawn areas
- Around picnic tables or group picnic areas

Integrated Pest Management





Pesticides are used when needed

- to treat botanical specimen plants and trees in order to protect their health and control exotic pests that attack them
- to control disease carrying vectors like rodents, fleas, and mosquitoes
- to control potentially dangerous insects such as yellow jackets and Africanized bees
- to prepare landscapes areas for new revegetation projects

Integrated Pest Management



Alternate Weed Control Methods



Propane
Flame Unit



Aquacide Weed
Control System



Ceramic
Infra-Weeder



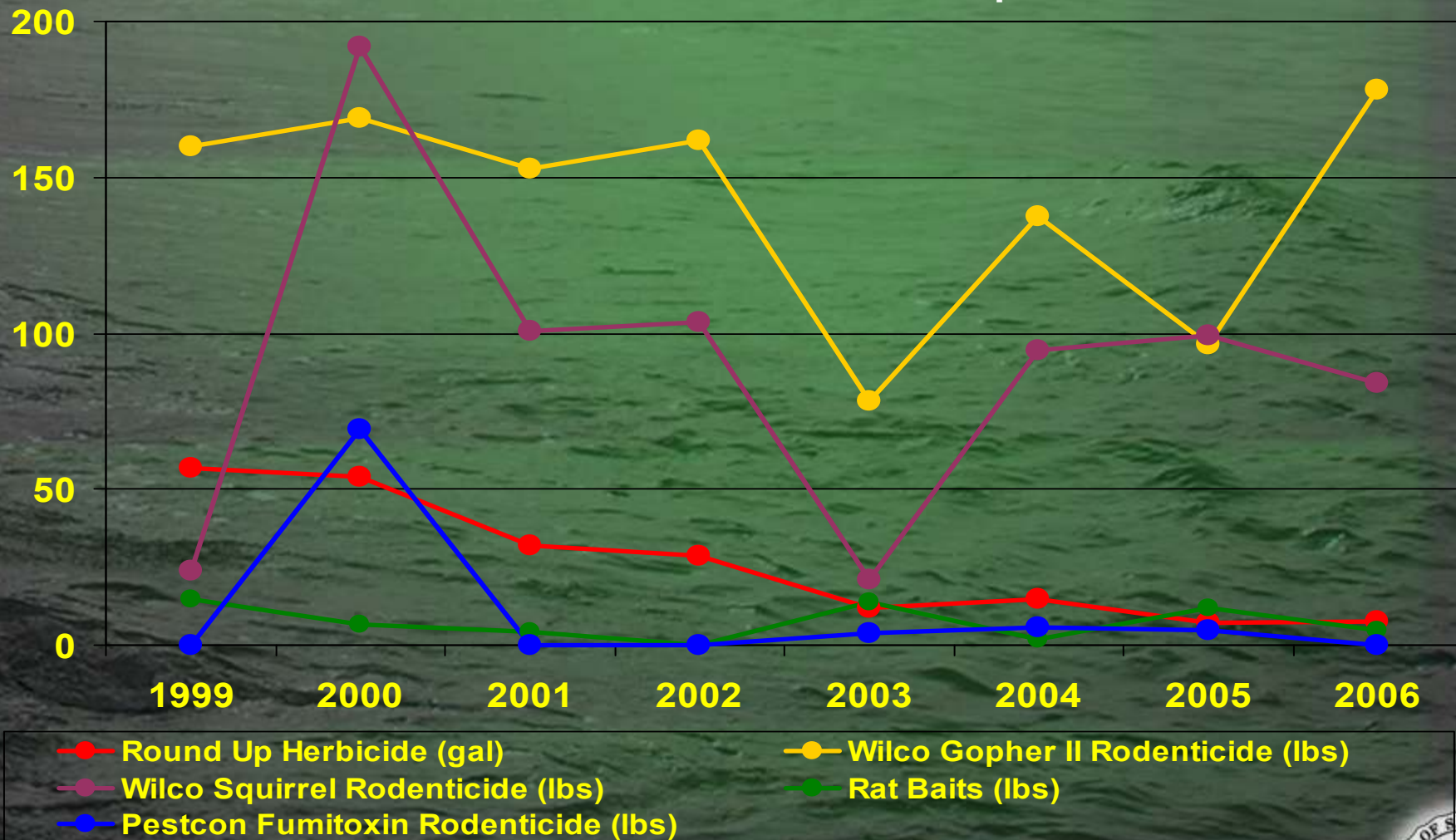
Aquacide Weed
Control System



Parks Department PESTICIDE / HERBICIDE USE



Table 2 1999 to 2006 Gallons or Pounds per Year



Integrated Pest Management



Landscaped areas without benefit of planned IPM



County Administration Building



Goleta Beach



Santa Barbara Courthouse Sunken Garden

Pesticide Free

