

SPURS

DPR's Next Generation Statewide Permit and Use Reporting System

4/23/2005



1

Pesticide Permitting Process

A 3-step process to meet CEQA compliance:

- Permit
- Notice of Intent (169,000 annually)
- Pre-Application Site Inspections (11,000 annually) - CACs are required to monitor no less than 5% of the most complex proposed applications identified on the permit/NOI.

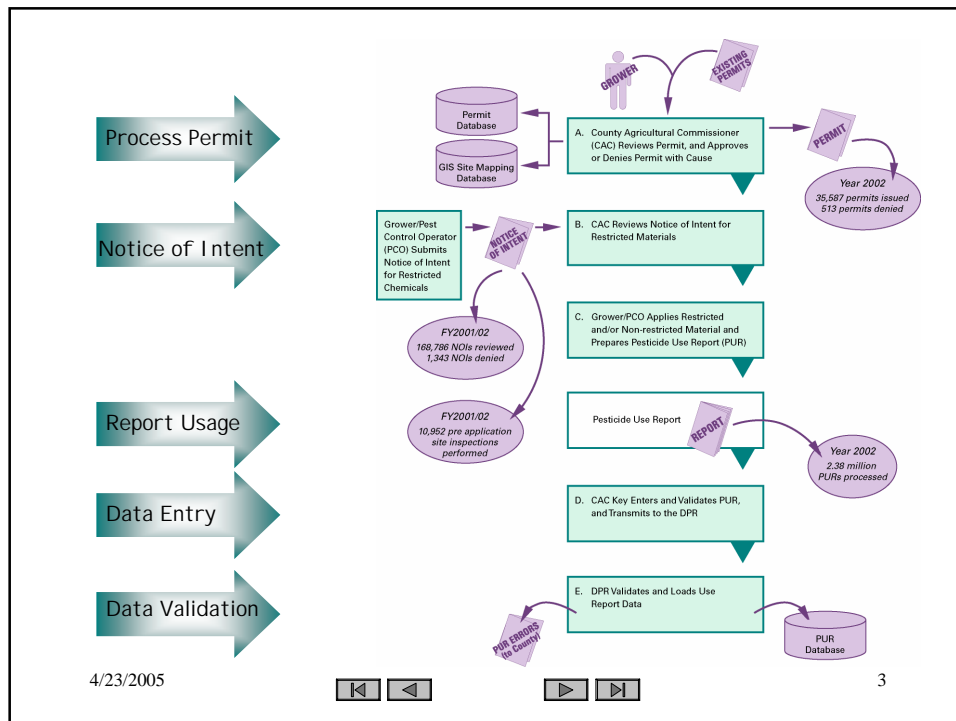
Other Requirements

- Operator Ids (11,000) - Required for the purchase and use of non-restricted materials.
- PUR (2.4 million records annually) - Pesticide use must be reported once an application has been made. This is the point at which exact information about the application is collected.

4/23/2005



2



Permit & PUR Customers/Stakeholders

- 44,000 annual and multi-year restricted material permit holders
- 11,000 annual non-restricted operator ID holders
- 5,000 license pest control advisers
- 3,400 ag pest control businesses
- 18,000 certified private applicators
- 500 licensed pilots
- 800 pesticide dealers
- DPR and CAC staffs
- Other governmental agencies, advocacy groups, researchers, and industry trade associations

4/23/2005



4

What is SPURS?

The **S**tatewide **P**ermit and **U**se **R**eporting **S**ystem will use **browser-based** Geographic Information System (GIS) technology and a complex set of **business rules** to manage DPR's restricted materials and pesticide use enforcement programs.

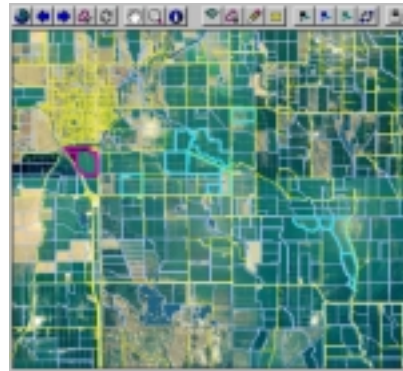


Photo courtesy of Glenn County Department of Agriculture

4/23/2005



5

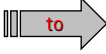
GIS – the Heart of SPURS

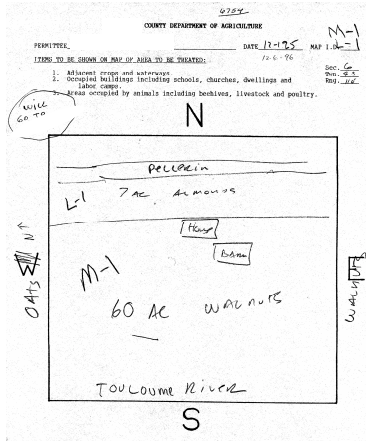
- Most CACs (46) are using GIS to map and track pesticide usage.
 - ✓ Various stages of development and maintenance
 - ✓ Staff resources and funding are major issues
- Permitted sites are collected into a Field Border Database.
- CACs use Field Border data for a wide range of programs, including Pest Management, Endangered Species, Ground Water Protection, Weed Mapping, Commodity Mapping, and Pest Detection.

4/23/2005



6

SPURS will transform Permit Maps from:
 A hand drawing  to
 A digital representation



4/23/2005

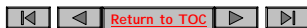


7

What improvements for permit holders would result from implementation of SPURS?

- Permit holders will have the opportunity to
 - use geographic data to proactively manage pesticide applications
 - submit permits and updates on-line
 - manage and submit Notices of Intent (NOI) on-line
 - file pesticide use reports (PUR) on-line
- Efficient tools and data will enhance compliance with increasingly complex human health and environmental programs that protect our workers, school children, water and air quality, e.g. agricultural discharge waivers, VOC compliance, etc.

4/23/2005



8

Statewide Benefits

- Provide DPR, CACs, and industry with analytical tools that will offer greater resources and flexibility to proactively deal with site-specific pesticide management.
- Provide tools and data to make better regulatory and risk mitigation decisions relative to pesticides:
 - Entering California's lakes and rivers to address ag waivers, ground and surface water issues
 - Contribution as volatile organic compounds (VOCs) to smog
 - Potential drift to sensitive sites (crops, endangered species, people, and environment)

4/23/2005



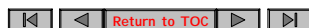
9

SPURS will use Rules and Buffer -based analysis to process NOI s



Courtesy of Kern County Department of Agriculture

4/23/2005



10

GLENN COUNTY DEPARTMENT OF AGRICULTURE

Field Borders | Permittee Information | Permitted Pesticides | Conditions / Contacts | Permit / Maps | Buffer Zones | Use Analysis | Reports / Labels | Options

Agricultural Landuse

Farm Name -- Permit Number
A & J ZWALD JOINT VENTURE -- T100383

Agricultural Field Information

- MILLS 2 - SUNFLOWER SEED - 45 Acres
 - S/RD 67 AND W/RD Y
 - SITE MILLS 2
 - SUNFLOWER SEED
 - NON-PERMIT AG PROD
 - SUPRAACIDE
 - SEVIN
 - METHOMYL
 - PARAQUAT
 - 45 - Acres
 - Conditions - ALL
 - 17 - 18N - 01W
 - District - 3
- MILLS 3 - CORN FOR/FOD - 46 Acres
- MILLS 4 - BEAN LIMA - 27 Acres
- MILLS 4A - SQUASH, WINTER - 10 Acres
- MILLS 4B - SQUASH, WINTER - 8 Acres
- MILLS 5 - CANTALOUPE - 5 Acres

Permitted Materials:

Number	Pesticide	Target Pests	F
<input type="checkbox"/> 8301	2,4-D AMINE	B WEEDS	L
<input type="checkbox"/> 8041	2,4-DB	B L WEEDS	L
<input type="checkbox"/> 19331	BOLERO	WATERGRASS	G
<input type="checkbox"/> 2000	DICAMBA	BL WEEDS	L
<input checked="" type="checkbox"/> 3141	GUTHION	INSECTS	W
<input type="checkbox"/> 7850	MCPA, DIMETHYLAMINE	B WEEDS	L
<input type="checkbox"/> 3824	METASYSTOXR	APHIDS	L
<input checked="" type="checkbox"/> 3830	METHOMYL	WORMS	L
<input type="checkbox"/> 3940	METHYL PARATHION	SHRIMP	L
<input type="checkbox"/> 16371	MONITOR	LYGUS	L
<input checked="" type="checkbox"/> 98999	NON-PERMIT AG PROD	VARIOUS	L
<input type="checkbox"/> 4491	PRPRAM	WATERGRASS	G

Update Site Pesticides

X: 598390.51 Y: 4375636.42 | T100383 - A & J ZWALD JOINT VENTURE -- MILLS 2 - SUNFLOWER SEED

4/23/2005

How will SPURS differ from the current Permit and Use Reporting system?

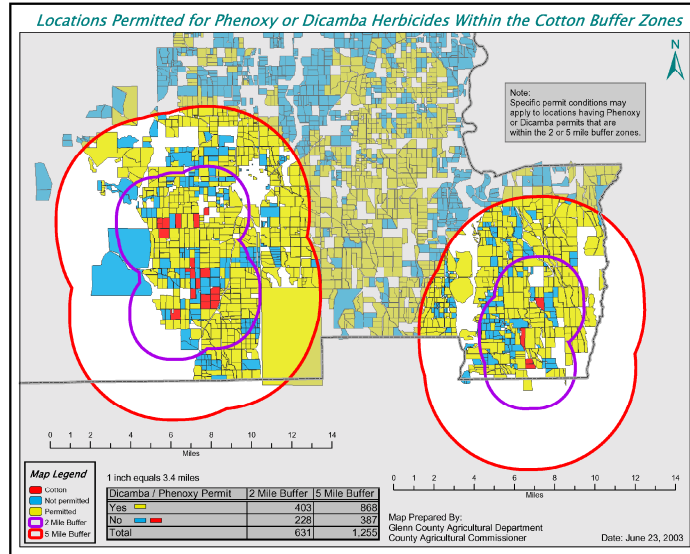
SPURS will employ rules-based technology

- pesticide specific buffer zones, usage caps based on acreage or amount of pesticide, application methods, etc
- SPURS will incorporate NOI processing functionality that, using flexible rules-based technology, will reduce the amount of routine paperwork and provide CAC staff with more time to perform pre-site inspections and outreach.
- A fully functioning and integrated GIS-based permitting system - SPURS - will provide the agricultural community with problem identification and problem-solving tools that can be used to enhance the pesticide permitting and tracking process.

4/23/2005

14

SPURS will use spatial analysis to provide management tools



4/23/2005

15

Issues and Concerns

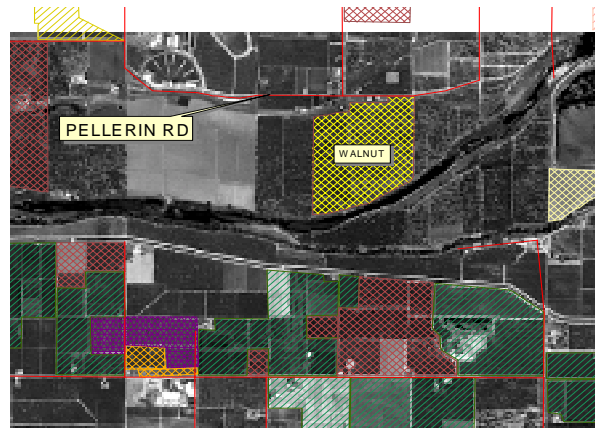
DPR and CACs working now to address:

- Ownership and stewardship of data
- Use of data
 - Timeliness and accuracy
- Data security
 - On-line transactions (I D)
 - Unauthorized access
- Homeland security

4/23/2005

16

Questions?



4/23/2005



17