

APPENDIX B

Pesticide Use Report Improvement Plan

PESTICIDE USE REPORT IMPROVEMENT PLAN

Issue	Improvement Requirements	Status/Plan
I. Data Collection		
A. PUR regulations and requirements		
1. Unclear regulations	2	
2. Enforcement letters not unified into one document	1	
3. Inconsistency among counties	1	EMPM conducted a survey of county practices
4. Counties can re-use grower_ids	1	
General crop category vs. specific crop		
1. Qualifier codes	1, 5, 6	Commodity Code Workgroup will review & make recommendation.
2. Planting sequence	1, 5, 6	Commodity Code Workgroup will review & make recommendation.
C. Site location ID		
1. Require all reports of different applications to one field in a year to use the same site_loc_id	1	
D. Acres treated		
1. Spot treatments	1, 5	
2. Strip/band treatments	1, 5	
E. Acres planted		
F. Number of applications not consistently reported in the monthly summary		
G. Reporting amount, area, or volume treated in commodity fumigation		
H. Amount of product used: product vs. diluted amount		
I. PLSS reporting errors		
II. Data Quality		
A. Data validation at CAC offices (or field level)		
B. Poor data entry screen design		
C. Illegible PUR forms		
D. Duplicate submissions or data entry		
E. Lack of error corrections		
F. Convert amount used to either pounds or gallons		
III. Data Access		
A. Data formats		
1. Fixed field file structure on CD-Rom can be problematic		

Improvement Requirements:

1. New/amend policy
2. New/amend regulation
3. New/amend legislation
4. Change/expand label database
5. Change/expand the PUR program
6. Change/expand the permit program
7. Change/add technology

Issue	Improvement Requirements	Status/Plan
2. Provide data as an Oracle dump file	7	
B. Incomplete technical documentation		
1. Data dictionary with informational notes	7	
2. Example SQL and PL/SQL code	7	EMPM currently in process of developing standard queries.
C. Limited summary statistical data available		
1. Map on watershed basis using GIS	7	Proposed under the Integrated Pest. Resource Directory E-Government project.
2. Be able to sort lists on the Web site	7	Proposed under the Integrated Pest. Resource Directory E-Government project.
D. Active ingredient names		
1. Inconsistent names in various databases (DPR, US/EPA, USDA)	4	AI Workgroup to be formed.
2. Specific v. more general names (e.g. 2,3-D vs. list of all the different esters and salts of 2,4-D)	4, 7	AI Workgroup to be formed.
3. Categories for the different kinds of oils	4	AI Workgroup to be formed.
4. Include trade names		AI Workgroup to be formed.
E. Crop names: inconsistent names in various databases		Commodity Code Workgroup will review & make recommendation.
F. Adjuvant and inert ingredient reporting		
G. Inappropriate precision in reports		
H. Data integration: link the PUR with other databases (e.g., DPR's Illness Reporting System)		
1. Provide better links in the data set to information needed for modeling, e.g., environmental half lives	7	Proposed under the Integrated Pest. Resource Directory E-Government project.
2. Connect use and permit data	1, 7	
3. Identify toxicity category (e.g., carcinogens, etc.)	4, 7	
4. Relate to residue monitoring data at the field level	1, 7	
5. Relate sales data to use data	7	
I. Allow growers to view a history of their past use	7	
J. Release PUR data monthly	1	
K. Do not eliminate all outliers	1	
IV. Additional Data Needs		
A. Target pests		
1. Categorize target pests	1, 2, 3, 5, 7	
B. Date crop planted	1, 2, 3, 5, 7	
C. Date crop harvested	1, 2, 3, 5, 7	
D. Acres harvested	1, 2, 3, 5, 7	

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E. Crop yield	1, 2, 3, 5, 7	
F. Additional site information (change monthly reporting to site specific)		
1. Schools, day-care centers	1, 2, 3, 5, 7	AB 2260 requires commercial applications to be reported at public schools and public day care facilities beginning 1/1/02.
2. Federal land	1, 2, 3, 5, 7	
3. Rights-of-way	1, 2, 3, 5, 7	
4. Water bodies	1, 2, 3, 5, 7	
5. Indian tribal lands	1, 2, 3, 5, 7	
6. Homeowners	1, 2, 3, 5, 7	
7. Farm animals	1, 2, 3, 5, 7	
8. Institutions	1, 2, 3, 5, 7	
9. Organic fields	1, 2, 3, 5, 7	
10. GM crops	1, 2, 3, 5, 7	
11. Hospitals	1, 2, 3, 5, 7	
12. Proximity to sensitive sites, e.g., schools, organic fields, etc.	1, 2, 3, 5, 7	
13. Senior care centers	1, 2, 3, 5, 7	
14. Golf courses	1, 2, 3, 5, 7	
G. Identify cancellations of chemical or chemical/commodity combinations	4, 5, 7	
H. Label rate	4, 5, 7	
I. Pesticide type (insecticide, herbicide, etc. and class (OP, carbamate, etc.)	4, 5, 7	
J. Identify section 18 applications	4, 5, 7	
K. Geography: link PUR data to satellite imagery, aerial photography, and land use survey data sets	7	Currently underway at CAC offices & DPR on a limited basis.
L. Identify applicator (PCO) that made the application and PCA affiliation	1, 5	
M. Collect pesticide sales data by county	1, 2, 3, 7	
N. Collect more information on structural and industrial uses	1, 2, 3, 5, 7	
O. Identify genetically modified organisms (GMOs)	1, 2, 3, 5	
V. Miscellaneous		
A. Ongoing compliance monitoring	1	
B. Errors in sales database	1, 7	
C. Label database		
1. Errors in percent AI and specific gravity	1, 7	Requires quality control of the label database.
2. Crop names on labels	1, 7	PUR Workgroup will address and make a recommendation.
3. Maximum label rates	4, 7	
D. PUR error reporting and correction procedures		

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Issue	Improvement Requirements	Status/Plan
1. Procedure for reporting errors	1	Under development by PUR Workgroup.
2. Reporting errors found and corrections made to public	1	
3. Peer review of DPR error-checking procedures	1	
4. Find incentives to promote error correction	1	
E. Link use data with environmental media data	1, 7	Is being addressed by DPR's Cal/PIP project
F. Notification. Use real time reporting methods (e.g., schools)	1, 2, 3, 7	
G. Other data sources	7	

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