

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	
B. Crop or site identification		
1. General crop category vs. specific crop	1, 5, 6	Commodity Code Workgroup will review & make recommendation.
2. Qualifier codes	1	
3. Planting sequence	1	
C. Site location ID		
1. Require all reports of different applications to one field in a year to use the site_loc_id	1	
D. Acres treated		
1. Spot treatments	1	
2. Strip/band treatments	1	
E. Acres planted	1, 6	
F. Number of applications not consistently reported in the monthly summary	1	
G. Reporting amount, area, or volume treated in commodity fumigation	1	
H. Amount of product used: product vs. diluted amount	1	Rate/acre validation expanded for 1998 PUR.
I. PLSS reporting errors	7	Additional error check added for 1999 PUR.
II. Data Quality		
A. Data validation at CAC offices (or field level)	7	
B. Poor data entry screen design	7	Concept accepted to review the permit/PUR program.
C. Illegible PUR forms	7	Fillable forms on external web 9/2000.
D. Duplicate submissions or data entry	7	Additional error check added for 2000 PUR.
E. Lack of error corrections	7	Correction rate for 1999 PUR currently at 99.45%.
F. Convert amount used to either pounds or gallons	7	
III. Data Access		
A. Data formats		

Improvement Requirements:

1. New/amend guideline/policy
2. New/amend regulation
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4. Change/expand label database
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1. Fixed field file structure on CD-Rom can be problematic	7	
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	1	AI Workgroup to be formed.
E. Crop names: inconsistent names in various databases	1	Commodity Code Workgroup will review & make recommendation.
F. Adjuvant and inert ingredient reporting	1	
G. Inappropriate precision in reports	1	
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	

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D. Acres harvested	1, 2, 3, 5, 7	
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	5	
H. Label rate	4, 5	
I. Pesticide type (insecticide, herbicide, etc. and class (OP, carbamate, etc.))	4	
J. Identify section 18 applications	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	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	

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D. PUR error reporting and correction procedures		
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	

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