

Nutrient and Waste Management

Nutrient and Waste Management

V(A). Planned Program (Summary)

1. Name of the Planned Program

Nutrient and Waste Management

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
101	Appraisal of Soil Resources	20%		20%	
102	Soil, Plant, Water, Nutrient Relationships	10%		10%	
133	Pollution Prevention and Mitigation	20%		20%	
205	Plant Management Systems	10%		10%	
403	Waste Disposal, Recycling, and Reuse	30%		30%	
601	Economics of Agricultural Production and Farm Management	10%		10%	
Total		100%		100%	

V(C). Planned Program (Inputs)

1. Actual amount of professional FTE/SYs expended this Program

Year: 2008	Extension		Research	
	1862	1890	1862	1890
Plan	1.4	0.0	1.2	0.0
Actual	2.6	0.0	0.5	0.0

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

Extension		Research	
Smith-Lever 3b & 3c 54339	1890 Extension	Hatch 19388	Evans-Allen 0
1862 Matching 54339	1890 Matching 0	1862 Matching 19388	1890 Matching 0
1862 All Other 116287	1890 All Other 0	1862 All Other 146388	1890 All Other 0

V(D). Planned Program (Activity)

1. Brief description of the Activity

Nutrient Management Team organized and delivered the 2008 biannual Nutrient Management Conference and presented educational programs as part of composting schools, pasture management workshops, Potato Conference, a regional FWAA conference, and three field days. A training for Certified Irrigation Designers was delivered and certification credits awarded to participants.

Team members were involved in numerous research/demonstration projects investigating anaerobic digesters, drag hose injection, copper removal systems, corn P uptake, and field trials for numerous crops including onions, wheat, sugarbeets, and alfalfa seed.

The team also initiated recycling programs in local schools and a pilot project for Master Composters.

The team published the first issue of a new Nutrient Digest newsletter, and reported eight other articles written for trade publications. Team members published eight articles included in abstracts and proceedings, two peer-reviewed Extension publications, and three refereed journal articles.

2. Brief description of the target audience

Dairy producers and their associations, beef cattle producers and any other livestock producers, small farmers, irrigation designers, farmers using organic fertilizers, crop consultants and advisors, elementary school administrators, teachers, and students, agency regulators, and county and State officials.

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	500	750	20	20
2008	4734	74214	1365	220

2. Number of Patent Applications Submitted (Standard Research Output)

Patent Applications Submitted

Year	Target
Plan:	0
2008:	0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

	Extension	Research	Total
Plan	0	0	
2008	5	1	6

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

NWM Conference.

Year	Target	Actual
2008	1	45

Output #2

Output Measure

NM Field Day.

Year	Target	Actual
2008	1	0

Output #3

Output Measure

NWM Training and Recertification.

Year	Target	Actual
2008	40	0

Output #4

Output Measure

Odor Workshops.

Year	Target	Actual
2008	50	0

Output #5

Output Measure

CCA Credits, Online Testing.

Year	Target	Actual
2008	20	12

Output #6

Output Measure

Precision Ag Field Day.

Not reporting on this Output in this Annual Report

Output #7

Output Measure

CID Training.

Year	Target	Actual
2008	40	41

Output #8

Output Measure

Industrial and Municipal Land App. Training.

Not reporting on this Output in this Annual Report

Output #9

Output Measure

R&E Center Field Days.

Year	Target	Actual
2008	1	3

Output #10

Output Measure

Commodity Schools.

Year	Target	Actual
2008	700	761

Output #11

Output Measure

MiG Workshops.

Nutrient and Waste Management

Year	Target	Actual
2008	40	0

Output #12

Output Measure

Extension publications (peer reviewed; CIS, Bulletins, etc.)

Year	Target	Actual
2008	0	5

V(G). State Defined Outcomes

O No.	Outcome Name
1	O: Adequate skilled workforce to work on waste management problems.I: Number of people certified (irrigation designers, waste management planners, etc.)..
2	O: Producers apply recommended nutrient management principles on farms.I: Percentage of course attendees that develop NM plans with recommended practices.
3	O: Water quality is protected through compliance with nutrient management regulations.I: Number of NMP violations cited (from yearly survey).
4	O: Producers adopt practices to reduce the risk of lagoon discharges.I: Reduced number of discharges or freeboard conditions based yearly survey.
5	O: Producers and consultants have access to relevant, research-based information.I: Number of publications distributed, downloaded, accessed.
6	O: Pasture managers use nutrient management practices that contribute to the efficient and effective use of nutrients.I: Number of students adopting recommended practices (soil testing, MiG, etc.; survey).
7	O: An increase in the number of trained graduate students prepared to enter the workforce. I: Number of M.S. and Ph.D. candidates relevant to this topic team.
8	O: Improve application of odor and emissions control principles for confined animal operations.I: Percent adoption of odor and emissions control practices by course attendees.
9	O: Reduced nutrient levels in soil and water.I: Number of sensitive areas with improved average soil and water test values.
10	O: Irrigators understand how to Improve water and nitrogen use efficiency under reduced water conditions.I: Number of People attending UI extension classes in water and nitrogen-use efficiency.

Outcome #1

1. Outcome Measures

Not reporting on this Outcome for this Annual Report

2. Associated Institution Types

3a. Outcome Type:

3b. Quantitative Outcome

Year	Quantitative Target	Actual
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3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
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V(H). Planned Program (External Factors)

External factors which affected outcomes

Other (loss of personnel and restart with new team members)

Brief Explanation

V(I). Planned Program (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

After Only (post program)

Evaluation Results

Key Items of Evaluation