



The Milk Lines



December 2001

CAFO

DAIRY DAY

BIFS PROJECT

OIL RECYCLE

CAFO

USEPA is making data and information available to be used in final CAFO (Confined Animal Feeding Operations) regulations. The previous comments of industry, USDA and general public have been summarized into a draft final document. Further comments are requested to ensure that final regulations are technically and economically feasible. These comments are due in by January 15th of 2002. For more information visit http://cfpub.epa.gov/npdes/afo/noda.cfm?program_id=7.

Dairy Day

The program for South Valley Dairy Day, January 30, 2002, and Mid-Valley Day, January 31, 2002, is included with this newsletter.

BIFS Project

The following update on the Dairy BIFS (Biologically Integrated Farming Systems) project has been supplied by Alison Eagle, coordinator of the UCCE project. This project involves eight dairies in the San Joaquin Valley, some of which are Tulare County dairies. Questions and comments can be sent to Alison Eagle, Kearney Ag Center, 9240 S. Riverbend, Parlier, CA 93648 or phone 559-646-6589 or ajeagle@uckac.edu.

One of the goals of the Dairy BIFS project is to reduce reliance on commercial fertilizer. This could only have

been done if manure nutrients were managed so growers were assured that manure would meet crop nutritional needs. An examination of commercial fertilizer application on BIFS dairies showed significant changes from before until this past summer in silage corn cultivation.

Table 1. Before BIFS project: Commercial fertilizer use on Dairy BIFS silage corn fields that use manure water (lb/acre).

Dairy	N	P ₂ O ₅	K ₂ O
1	100	78	0
2	71	25	25
5	150	10	0
6	200	100	150
7	40	0	0
8	80	91	119
10	150	0	0
11	100	0	0

Eight of the dairy/forage producers in the San Joaquin Valley in partnership on the Dairy BIFS project have been managing dairy manure nutrients on a corn/winter forage rotation. Flow meters and nutrient analysis of manure water have enabled these growers to measure total nutrient application to their fields in manure water.

Manure water contains the same essential plant nutrients as fertilizer, and most growers are finding that they have sufficient nutrients in the manure water. Therefore, commercial fertilizer applications have been reduced (compare Table 1 to Table 2).

Table 2. Two years into project (2001): Commercial fertilizer use on Dairy BIFS silage corn fields that use manure water.

Dairy	N	P ₂ O ₅	K ₂ O
1	0	0	0
2	0	0	0
5	0	0	0
6	125	0	0
7	0	0	0
8	30	0	0
10	0	0	0
11	0	0	0

Conventional applications of manure and/or fertilizer were compared with reduced applications of the same. Silage corn yields showed no significant differences between treatments for two years, thus encouraging participants in their improved management practices. Average silage corn yields for 2000 and 2001 are summarized in Table 3.

Table 3. Silage corn yield on Dairy BIFS fields, corrected to 70% moisture.

Dairy	Yield (tons/acre)	
	2000	2001
1	22	24
2	27	29
5	NA	26
6	27	32
7	30	31
8	28	30
10	24	26
11	34	35

Oil Recycle

Tulare County Youth Corps, a project of C-SET, received a two-year grant for \$166,800 from the California Integrated Waste Management Board (CIWMB) to collect used motor oil from the agriculture community of Tulare County.

The used oil collection program will serve Tulare County farms, dairies, and ranches that are 500 acres or smaller—free of charge. Participating agricultural enterprises will be able to responsibly dispose of up to 550 gallons in an initial pickup and up to 110 gallons each month (not to exceed 500 gallons per year, excluding the initial pickup). The program accepts only used motor oil that is not contaminated with gasoline, solvents, antifreeze, pesticides, polychlorinated biphenyls (PCBs), or other substances.

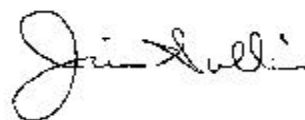
The goal of the program is to increase the recycling of used oil and avoid improper disposal, which can harm the environment. The oil from a single oil change (1 gallon) can ruin the taste of a million gallons of drinking water (1 part per million), and just one pint of oil can produce a one-acre oil slick on the surface of a body of water.

C-SET and the Tulare County Youth Corps proposed to carry out this program in response to 1995 data, which indicated that more than 60% of the oil sold was not recovered. Of the 263,314 gallons of bulk oil sold to the county's agriculture community, only 104,914 gallons were recovered by bulk oil dealers and used oil recycling centers through their recycling efforts.

The program will be operated by C-SET Youth Corps members. These young men and women, ages 16 to 24, are committed to meaningful work, community service, and education to assist them in becoming responsible citizens, while protecting and enhancing the environment, natural resources and Tulare County communities.

For more information or to schedule a pickup, contact C-SET's Used Oil Recycling Hotline at (559) 741-4620.

Merry Christmas and prosperous new year....



Jim Sullins
County Director

Dairy Day Programs

University of California Cooperative Extension and co-sponsoring allied dairy industries of Central California announce the following meetings:

South Valley Dairy Day

**Edison AgTAC
(across from the Tulare Farm
Equipment Show Grounds)
Tulare, California
Wednesday, January 30, 2002**

Mid-Valley Dairy Day

**County Ag Center
Crows Landing and Service Road
Modesto, California
Thursday, January 31, 2002**

This meeting is free of charge. For more information and making luncheon reservations, call one of the following Cooperative Extension offices by **Monday, January 28:**

Fresno County	(559) 456-7285
Madera County	(559) 675-7879
San Joaquin County	(209) 468-2085
Stanislaus County	(209) 525-6800
Kings County	(559) 582-3211 Ext. 2730
Merced County	(209) 385-7403
Tulare County	(559) 685-3303

Program

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| 9:45 a.m. | Introduction and Sponsor Recognition |
| 10:00 | UCCE Research Update |
| 10:45 | Practice Ideas for On-Dairy Biosecurity
<i>John Kirk, DVM, Extension Veterinarian, University of California Cooperative Extension</i> |
| 11:30 | Type of Cottonseed and Gossypol in Dairy Cattle Diets: Impacts on Lactation and Reproduction
<i>Jose Santos, DVM, Ph.D., School of Veterinary Medicine, UC Davis</i> |
| 12:15 p.m. | Lunch |
| 1:00 | Strategies for Getting High Producing Cows Pregnant
<i>Mike Overton, DVM, School of Veterinary Medicine, UC Davis</i> |
| 1:45 | Getting the Most from Your Dairy Beef
<i>Gary Smith, DVM, Colorado State University</i> |
| 2:30 | Injection Site Demonstration/Dissection
<i>Chuck Holmgren, DVM, and John Kirk, DVM, School of Veterinary Medicine, UC Davis</i> |