

DAIRY NOTES

UNIVERSITY OF CALIFORNIA

COOPERATIVE EXTENSION

KINGS COUNTY



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The High Volume, Low Speed Fan is Coming. Bigger than Godzilla!

A demonstration of high volume, low speed fans will be held on Thursday, May 13 from 1 to 2 pm at Bel Martin and Sons Dairy in Tulare. Some of you may remember seeing an earlier version of this fan, which was called the Superfan, at the JCJ Dairy several years ago.

High volume, low speed fans come in two versions: a 20 foot diameter ceiling fan (usually mounted 20 feet above the floor); or an 8 foot diameter, side upright fan (sitting on floor or hung from ceiling).

These fans move a large volume of air at low speed over a large area. They use less energy than small (36" or 48") high speed fans. The end result is improved air comfort and cooling effects for people or livestock. Applications for livestock might include corrals, freestall barns, calf areas and milking parlors. Other uses for cooling people could include shops, warehouses, packing houses, or any large room.

You are welcome to come out and see the fans. The Martin dairy is at 12131 Avenue 200. From the Hanford area, go south on 99 and exit on Paige Ave, and go east to Laspina. Turn right on Laspina and go past the Farm Equipment Show grounds and golf

course to the next stop sign. Turn left at the stop sign and go east about one mile to the farm.

Environmental Stewardship Shortcourse for Dairy Producers May 12, 19 & 23 at 10 -12 pm UC Extension Office in Visalia

Another round of the popular shortcourse is scheduled this month. Those of you who missed one of the 3-part series when it was previously offered, are welcome to attend the session you missed to complete the course and receive your certificate. First timers are encouraged to attend all three classes. The series covers subjects related to manure management including a review of water quality laws and requirements for compliance. There is no cost to attend, although you must be a dairy producer to participate. All classes will be held from 10 am until noon at the UC Cooperative Extension Office in Visalia. Call Tom Shultz (733-6363) at the UCCE Office in Visalia for reservations and directions

Environmental Stewardship Shortcourse for Allied Industry will be held on May 20th 1 to 5 PM at the UC Cooperative Extension Office in Visalia

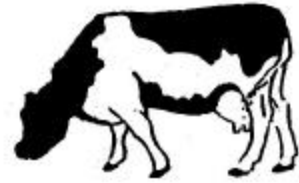
A shortcourse geared specifically for dairy allied industry people will be held in Visalia on May 20th.

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Registration fee for the program will be \$55. Call Tom Shultz (733-6363) at the UCCE Office in Visalia for reservations and directions.

Table 1. Data from 1998 Kings County silage corn trial.

Company	Brand	Avg. Plants/acre	%Dry Matter at Harvest	Tons/Acre		Plant Ht.(ft)	Ear Ht.(ft.)	Dry Matter Basis:	
				adjusted to 70% Moisture				CP %	ADF %
DeKalb	679	**	25.95	24.82	a	10.0	5.0	8.7	30.1
Baglietto	5630	30,666	22.28	24.24	a	10.3	5.0	9.6	33.1
SeedTec	ST 7638	29,500	25.38	24.00	ab	10.5	5.0	8.4	30.2
Simplot	Big Maxx XL	29,833	25.07	23.76	abc	10.8	5.3	8.1	30.9
Novartis	N83-N5	27,000	25.43	23.47	abcd	10.0	4.8	8.8	30.3
Pioneer	32K61	30,333	27.02	23.28	abcd	9.5	4.2	8.4	31.5
Mycogen	TMF 113	29,166	29.02	23.09	abcde	10.9	4.5	9.4	32.6
Guttwein	2696	26,166	25.11	22.96	abcde	10.0	4.3	9.1	31.0
Germain's	4748	27,666	25.37	21.73	bcdef	10.3	5.0	8.5	30.9
Cal Valley	3187	28,000	24.27	21.63	bcdef	8.8	4.5	9.3	32.4
Farmer's Wrhse.	9801	29,833	23.04	21.51	cdef	9.2	5.0	9.5	34.6
NC+	7117	27,000	21.96	21.15	defg	8.8	4.5	9.6	32.5
Asgrow	RX 813	28,333	27.63	20.83	efg	9.2	4.2	8.9	31.2
Cargill	7557	28,333	28.53	20.36	fg	8.5	4.0	8.5	31.2
Agripro	AP 9707	31,000	22.60	20.12	fg	9.0	4.5	10.2	32.8
DeKalb	687	28,833	24.24	18.93	g	9.2	4.4	10.4	32.4
Farm Valley	4656W	27,000	24.92	18.93	g	9.0	4.3	9.3	28.3
	CV %		5.5	6.7				4.9	5.6
	LSD (.05)		2.3	2.5				0.8	2.9

Planted June 26; Harvested October 8 & 9

Means are averages of 3 replications. CP = Crude Protein ADF = Acid Detergent Fiber

Values within a column followed by a common letter do not differ from each other at the 5% level of probability.

Table 2. Data from 1998 Tulare County Silage Corn Trial.

Company	Brand	Avg. Plants per acre	% Moisture at harvest	Tons/Acre @ 70%		Plant Ht. (ft)	Ear Ht. (ft)	Dry Matter Basis	
				moisture				CP %	ADF %
Cargill	9027	30,720	67.4	29.95	a	12.4	5.6	7.5	30.8
Pioneer	32K61	29,597	67.8	29.00	ab	10.6	5.1	7.8	30.0
Farmer's Wrhse.	9801	31,420	73.1	28.75	abc	10.5	5.6	8.5	33.8
Pioneer	3223	29,340	69.6	28.65	abc	11.1	5.9	8.3	33.3
Gutwein	2696	27,885	71.8	28.44	abcde	10.6	5.4	8.2	31.9
DeKalb	679	28,597	68.7	27.31	abcde	11.4	5.9	8.1	32.2
Agripro	AP 9707	31,003	74.1	27.25	abcde	10.6	5.4	9.0	31.2
Farm Valley	4656 WX	29,178	72.6	27.23	abcde	10.2	5.4	9.2	30.2
ABT-Germain's	4748	29,720	70.2	27.09	abcde	11.1	6.0	7.9	31.7
Asgrow	RX 813	31,017	67.7	26.85	abcde	10.5	5.1	8.8	33.2
Simplot	Big Maxx XL	29,847	69.8	26.42	bcde	11.8	6.0	8.4	34.0
NC+	7665	30,452	74.9	26.14	bcde	10.8	5.6	8.6	32.5
Cal Valley	3171	31,030	70.0	25.74	bcde	10.5	5.5	8.6	29.5
Baglietto	5630	29,310	71.2	25.57	cde	11.2	6.0	8.9	31.4
SeedTec	ST 7638	29,315	69.8	25.32	de	12.4	6.5	8.0	32.5
Novartis	N83-N5	29,783	68.9	24.11	ef	11.6	5.6	8.2	32.2
Exogen	404	27,857	72.8	21.99	f	9.6	4.4	9.7	30.5

CV %	1.5	1.7	8.55	2.9	4.8	3.3	5.4
LSD (.05)	0.6	0.0	3.27	0.5	0.4	0.5	2.8

Planted June 23, 1998, and harvested September 30-October 2, 1998.

Means are averages of 4 replications. CP = Crude Protein ADF = Acid Detergent Fiber

Values within a column followed by a common letter do not differ from each other at the 5% level of probability.

Corn Silage Variety Trial Results

Results from the 1998 Kings and Tulare silage trials are attached. When reviewing the data, keep in mind that corn hybrid performance will differ depending on many factors including soil, irrigation, management and year. Due to El Nino, planting was later than normal in the 1998 season. The relative performance of some of the varieties that were included in both trials was different between the Kings and Tulare location. Ask your seed representative for data from different locations and consider several years performance before deciding on a new variety. Variety trials like these would not be possible without the willing cooperation of local farmers. We are grateful to Gil den Dulk of Hanford and Steve Milanesio of Tulare for their tremendous support in enabling us to provide you with this information. We are also appreciative of the careful harvesting by Danell Bros. and Netto Ag. Please thank these people when you see them!

LOW INTEREST LOANS AVAILABLE

Cut your production costs and improve your dairy operation at the same time by investing in energy efficient systems

As a dairy producer in California, you will want to check out the California Energy Commission's two new low interest loan programs. These loans can help you improve your dairy operation at the lowest possible cost. This is a terrific opportunity that you don't want to miss.

The first loan program is available for those who want to invest in purchasing new adjustable speed drives for your vacuum and/or milk pumps. In addition, we can also provide loan funds for the replacement of your existing vacuum or milk pumps purchased with adjustable speed drives. This technology has become commercially available in the last few years, and research has shown it can be a great cost saver. Running your pump motors at variable speed matches the needs of your milking system instead of

running at constant high speed, so you continuously save on energy costs. Your vacuum pumps can run at greatly reduced speeds most of the time, speeding up only when a milking unit falls off, or during wash up when airflow requirements are often higher.

You must act *fast*, however, to participate in this program. Beginning April 1, 1999, loan applications will be funded on a first-come, first-served basis.

The second loan program is for those who want to invest in commercially available energy efficient technologies that have yet to be widely adopted in California. Do you have a new idea for an energy efficient system? If you have always wanted to try a creative project that will improve energy efficiency in your milking barn operation, design or construction, now is the time to act. Loan applications will be available after April 1, 1999. Don't delay though - **your application must be received by 5:00 pm, July 1, 1999, to be eligible.**

We want to use your project as an education demonstration site. This doubles the benefit to the dairy industry - you gain a more efficient operation, and other dairy professionals will see firsthand how well it works. Professional consulting services are even available to help you monitor and evaluate the performance of your new energy efficiency investments. Best of all, this service is provided to you at no cost. That's right, it's **FREE!**

Your operation will benefit from either, or both, of these great loans. You can borrow up to a total of \$150,000, so if you want to participate in both programs, the total of the two loans can't go over this amount. Even better, this money is being offered at a 3.3 percent interest rate. You would normally have to pay 7.5 percent for a loan like this. Take advantage of this opportunity **now**. For more information, please contact: Elizabeth Boynton, Phone (916) 654-4089, Fax (916) 654-4304 or email: lboynton@energy.state.ca.us.

Carol Collar
Dairy Farm Advisor