1997 Iowa FFA Dairy Cattle Production and Management Test
September 20, 1997
West Union, Iowa

Mark the correct answer in the proper blank on the answer sheer.

Objective questions - 2 points each:

1. Relative Feed Value (RFV) is an index of forage quality that is based on which of the following nutrient components:
   a) ADF and CP b) CP and NDF c) ADF and NDF d) ADF, NDF, & CP

2. Which of the following feeds usually contains the most energy?
   a) alfalfa hay b) corn silage c) corn grain d) soybean oil meal

3. Bovine somatotropin (BST) is also known as:
   a) somatic cells b) growth hormone c) steroid hormone d) oxytocin

4. Whole cottonseed is often fed to lactating cows because it is a good source of:
   a) digestible fiber b) energy or fat c) protein d) all three nutrients

5. Which of the following disorders or diseases does not usually cause a cow to go "off-feed"?
   a) milk fever b) mastitis c) dystocia d) displaced abomasum

6. Heifers should be fed so that they can be bred at what age?
   a) 9-12 months b) 13-15 months c) 21-24 months d) 27-30 months

7. The primary criteria for deciding when a heifer should be bred is:
   a) age b) body weight c) breed d) service sire to be used

8. Retained placenta (retained fetal membranes) can lead to:
   a) mastitis b) metritis c) hardware disease d) displaced abomasum

9. Cows generally reach peak milk production how soon after calving?
   a) 7-10 days b) 21 days c) 6-10 weeks d) 9 months

10. Which of the following represents the largest single cost associated with producing milk?
    a) facilities b) feed c) labor d) veterinarians & drugs

11. Cows can become infected with mastitis causing organisms that are on:
    a) milking equipment b) bedding in stalls c) hands of people d) all of these

12. An example of an environmental mastitis causing organism is:
    a) Mycoplasma b) Strep. uberis c) Staph. aureus d) All of these

13. Average daily weight gains (from birth to calving) of heifer calves should be around:
a) 1.0 lb/day b) 1.7 lb/day c) 2 0 lb/day d) over 2.5 lb/day

14. Good milking hygiene involves:
a) dipping teats before milking.
b) dipping teats after milking.
c) milking udders that are clean and dry
d) all of the above.
e) only b) and c) above

15. The best milk replacer is one that does not contain:
a) meat solubles b) dried whey c) casein d) soy protein isolates

16. Which of the following hormones is not directly associated with reproduction?
a) estrogen b) testosterone c) progesterone d) adrenaline

17. The two nutrients of most concern regarding manure application to land are:
a) Ca and P b) N and P c) Se and Vitamin E d) K and Mg

18. All livestock producers are encouraged to implement Best Management Practices (BMP) in regard to manure management as well as other management practices. Which of the following is <u>not</u> considered a BMP?
a) fencing animals away from streams
b) testing manure for nutrient content
c) applying manure to land when it is most convenient for the operator
d) testing soils for nutrient content
e) conservatively sizing manure storage

19. Studies in the U.S have shown that yield traits are _____ times more important economically for sire selection than are conformation and other non-yield traits.
a) 1.5 b) 2 c) 4 d) 10

20. Body condition of dairy cattle is often done to:
a) decide which animals to cull
b) decide when to dry a cow off
c) decide which cows to breed
d) evaluate the overall nutrition and feeding program
e) all of the above

21. Which of the following conformation traits is determined least by genetics, and so will show the smallest change through sire selection and is best changed by management?
a) udder depth b) stature c) foot angle d) dairy character

22. Because young A. I. Sires are comparable genetically to Active A. I. Bulls in the 60th percentile and semen from young A. I. Sires is priced lower than semen from Active A. I. Bulls, breedings to young A. I. Sires should constitute a minimum of _____ % of inseminations in the herd.
a) 10 b) 25 c) 45 d) 60

23. An example of a contagious mastitis causing organism is:
a) Mycoplasma b) Strep. ag. c) Staph. aureus d) All of these

24. The number one reason for reproductive losses is poor:
a) semen quality b) heat detection c) insemination techniques d) records

25. The only part of a milking machine that touches the cow is the:
a) vacuum pump b) pulsator c) milk line d) inflation

DHIA Questions - 5 points each

Use the attached DHI forms (103, 202, 220, 520, and 521) to answer the following five questions (26-30).

26. Which cow contributed the most somatic cells to the bulk tank (on the current test day)?
a) Nanbela b) Heddia c) Rennie d) Julli

27. What was the average milk production of the milking cows on the last test day?
a) 69.8 lb. b) 70.9 lb. c) 62.8 lb. d) 71.5 lb.

28. What is the average days open for all cows in the herd?
a) 150 days b) 305 days c) 101 days d) 142 days

29. What was the overall culling rate for the last year in this herd?
a) 25% b) 30% c) 49% d) 54%

30. Which of the following cows' daughters are likely to produce the lowest milk yield?
a) Jetta b) Jewel c) Mara d) Nanbela

Herdcode	Listed
	8-05-97

PEDIGREE AND PERFORMANCE EVALUATION - DHI-103

	Identification	Breed	Index Number	Birth date	Body wt.
TRUTHIE	13905042	H	950	9-12-88	1480

	% Rel	Milk	Fat %	Fat	Prot %	Prot	$$	Rank
PTA	55	+316	-.10	-11	+.03	+1	+3	25
ERPA		Milk		Fat		Prot	$$	
		+3228		+26		+61	+243	

Sample Day Data		Lact No.	6	Fresh Date	6-19-97
DIM	8				
Milk	80				
Fat %	5.9				
Prot %	3.3				
SCC	348				

SCC TO THE NEAREST 1,000

SIRE

Sire Name	Identification	Breed	NAAB Code
MILFORD FARMS STAR WAR	1756315	H	7H879

	% Rel	Milk	Fat %	Fat	Prot %	Prot	$$	Rank
PTA	99	+402	-.05	+5	+.03	+3	+22	1

DAM

Identification	Breed	Barn Name
9415580	H	TRUTH

PTA: Predicted Transmitting Ability
ERPA: Estimated Relative Producing Ability

	% Rel	Milk	Fat %	Fat	Prot %	Prot	$$	Rank
PTA	65	-837	-.07	-44	+.03	-23	-106	2

MGS

Maternal Grandsire Name	Identification	Breed	NAAB Code
PAWNEE FARM REFLECTION ADMIRAL	1383926	H	21H133

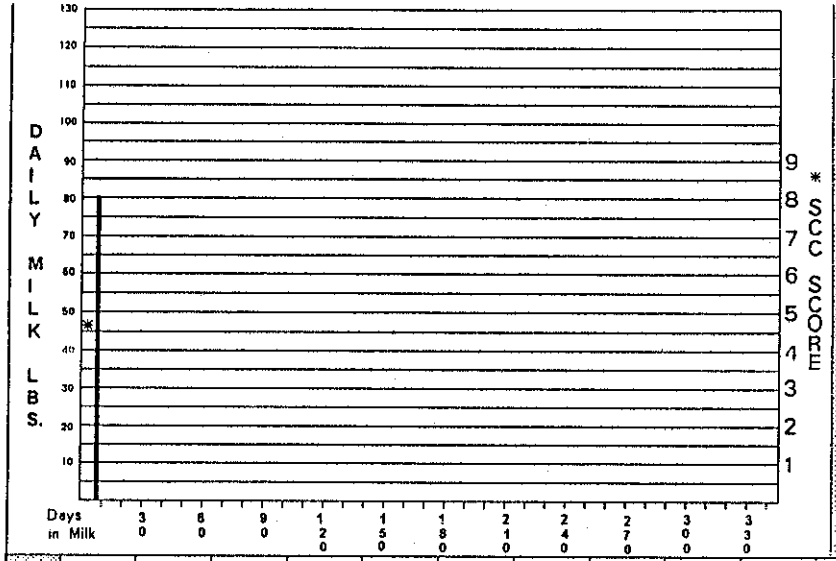
	% Rel	Milk	Fat %	Fat	Prot %	Prot	$$	Rank
PTA	99	-1281	+.08	-31	+.03	-36	-136	--

Lact No.	Test Plan	Freshening Date	Age	Days Dry	Days Open	No. Serv	305 Day Actual Milk	Fat %	Fat	Prot %	Prot	3X Days	Complete Lactation Days	Milk	Fat %	Fat	Prot %	Prot	CAR	305-2X-ME Milk	Fat	Prot	Diff. From HerdMates Milk	Fat	Prot
1	20	5-03-91	2-07				21160	3.4	718	3.2	667		344	23390	3.4	799	3.2	742		24550	833	771	-106	-68	+2
2	20	5-18-92	3-08	37		1	26410	3.3	869	3.0	804		333	27880	3.3	921	3.1	852		28000	930	850	+3318	+3	+77
3	20	6-03-93	4-08	48		2	26770	3.4	907	2.9	782		424	31330	3.4	1067	3.0	937		27840	943	807	+3993	+37	+53
													365	29660	3.4	1002	3.0	876							
4	20	9-10-94	5-11	40		2	26500	3.2	855	3.0	790		523	31500	3.2	1010	3.0	958		27560	872	810	+4535	-3	+72
													365	28270	3.2	914	3.0	853							
5	20	7-01-96	7-09	137	68	5							303	29840	3.4	1029	2.9	853		32096	1117	915	+7703	+188	+166
6	20	6-19-97	8-09	50	41	1							41	3107	6.0	185	3.3	104	5	19602	1009	661			
LIFETIME		Number of Lactations	6	Reproductive Efficiency	80	Average Milk/Day	58.6						1968	147047	3.4	5011	3.0	4446		26608	951	802	+3889	+31	+74
													TOTALS							AVERAGES					

LEFT HERD 7-29-97
CAR 5: SOLD - INJURY, HARDWARE, OTH.

Barn Name	TRUTHIE	Index Number	950	Identification	13905042

TRUTHIE

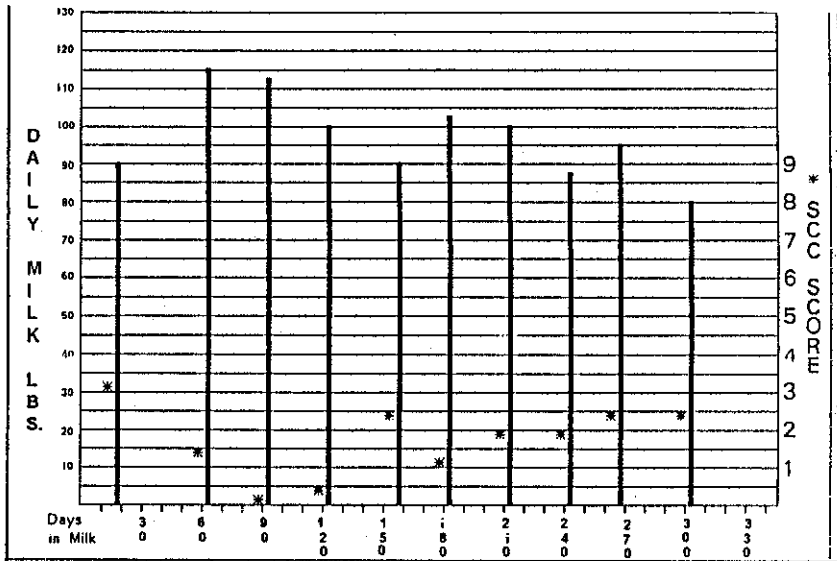


LACTATION

SAMPLE DAY DATA

FRESH DATE 6-19-97

DIM	8
Milk	80
Fat %	5.9
Prot %	3.3
SCC	348

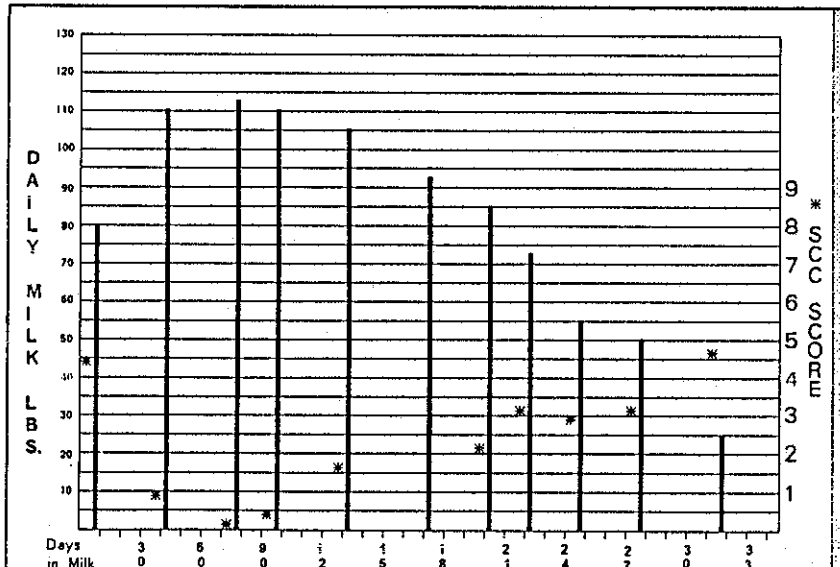


LACTATION

SAMPLE DAY DATA

FRESH DATE 7-01-96

DIM	18	60	93	124	158	184	212	240	268	302
Milk	90	116	113	101	91	104	100	88	97	80
Fat %	3.8	3.7	3.4	3.3	3.5	2.7	3.2	3.5	3.6	3.6
Prot %	3.0	2.7	2.7	2.8	2.7	3.0	2.9	2.9	3.0	3.0
SCC	123	38	14	20	76	33	57	54	76	71



4TH LACTATION

SAMPLE DAY DATA

FRESH DATE 9-10-94

DIM	8	41	75	96	131	172	201	222	249	277	315	347
Milk	82	112	114	110	105	93	86	74	55	50	25	32
Fat %	6.0	3.9	3.1	2.7	2.6	2.6	3.5	3.1	2.4	3.2	3.4	3.2
Prot %	4.2	2.7	2.9	2.8	2.9	2.9	3.0	3.1	3.1	3.1	4.1	3.1
SCC	303	27	14	20	47		62	132	100	132	348	132

Calving Record

Calf Information							Successful Breeding		
Lact No.	Birth Date	Calv. Ease	Liv	Sex	Identification	Barn Name	No.	Date	Service Sire
1	5-03-91		N						
2	5-18-92	1	N	M	BULL		1		7H2246
3	6-03-93	1	N	M	BULL		2		7H3340
4	9-10-94	1	N	F	42WHD8534	TWINBUL	2		9H1293
5	7-01-96	1	N	M	BULL		5		23H0453
6	6-19-97			F	42WHV2286		1	9-07-96	29H6995

Calving Ease

1=No problem
2=Slight problem
3=Needed assistance
4=Considerable force
5=Extreme difficulty

Livability

N=Normal live birth
B=Born dead or died as result of birth
Z=Died later from other causes
$=Sold or removed from herd

Identification	Index Number	Barn Name
13905042	950	TRUTHIE

HERD SUMMARY DHI-202

HERD CODE AND TYPE OF RECORD			SCHEDULING DAY	DATE TESTED		
ST.	CO.	HERD NO.		MO.	DAY	YEAR
42				7	31	97
DHIR						

PAGE 1

REPRODUCTIVE SUMMARY OF CURRENT BREEDING HERD

BR. OF HERD	TOTAL COWS IN BREEDING HERD
H	43

VOLUNTARY WAITING PERIOD (VWP)
45

COWS WITH NO SERVICE DATES OR DIAG. OPEN			
	OPEN VWP TO 100 DAYS	OPEN OVER 100 DAYS	NUMBER DIAG. OPEN
NUMBER COWS	8	7	
% OF BREEDING HERD	19	16	

COWS BRED BUT NOT DIAG. PREG. DAYS OPEN AT LAST SERVICE			
FEWER THAN VWP	VWP TO 100 DAYS	OPEN 100 TO 130 DAYS	OPEN OVER 130 DAYS
	10	7	11
	23	16	26

DAYS TO 1ST SERVICE
103

PRODUCTION, INCOME, & FEED COST SUMMARY

DESCRIPTION	DAILY AVERAGE PER COW ON TEST DAY		ROLLING YEARLY HERD AVERAGES	
TOTAL COWS	68		70.8	
COWS IN MILK	NUMBER	%	NUMBER	%
	67	99	63.7	90
MILK LBS. (ALL COWS)	69.8		23,002	
FAT LBS. (ALL COWS)	2.27		858	
FAT PERCENT	3.3		3.7	
PROTEIN LBS. (ALL COWS)	2.17		733	
PROTEIN PERCENT	3.1		3.2	
MILK LBS. (MILKING COWS)	70.9			
	MILKING COWS	ALL COWS		
SILAGE	LBS. CONSUMED		LBS CONSUMED	%ENE
			6,205	
OTHER SUCCULENTS OR BLENDED RATIONS	LBS. CONSUMED		LBS CONSUMED	%ENE
	52	51	13,223	
DRY FORAGE	LBS. CONSUMED		LBS CONSUMED	%ENE
	3	3	1,385	
OTHER FEEDS	LBS. CONSUMED		LBS CONSUMED	%ENE
PASTURE	PASTURE (YES OR NO)		DAYS	%ENE
	YES	YES	175	
CONCENTRATES	LBS. CONSUMED		LBS CONSUMED	%ENE
	20	19	6,316	
VALUE OF PRODUCT $	8.08	7.96	3,166	
COST OF CONCENTRATES $	.88	.90	499	
TOTAL FEED COST $	2.64	2.63	1,188	
INCOME OVER FEED COST $	5.44	5.33	1,978	
FEED COST PER CWT. MILK $	3.73	3.77	5.16	

MILK BLEND PRICE	PER CWT	%FAT	%PROT	PER CWT	%FAT	%PROT
	11.21	3.0	3.2	13.76	3.7	3.2

REPRODUCTIVE SUMMARY OF TOTAL HERD

	DAYS OPEN AT 1ST SERVICE			AVG. DAYS TO 1ST SERVICE	SERVICES PER PREGNANCY		PROJECTED MINIMUM	
	NUMBER FEWER THAN VWP	NUMBER FROM VWP TO 100 DAYS	NUMBER OVER 100 DAYS		PREG. COWS	ALL COWS	CALVING INTERVAL	DAYS OPEN
1ST LACT		16	6	91	2.1	3.1	13.6	134
2ND LACT		7	7	108	2.2	3.4	14.1	150
3+ LACTS		5	5	115	2.2	2.4	14.0	146
ALL LACTS		28	18	101	2.1	3.0	13.9	142
% OF ALL 1ST SERVICES		61	39		CURRENT ACTUAL CALVING INTERVAL		14.8	

SERVICE OR HEAT INTERVALS	
INTERVAL LENGTH	NUMBER INTERVALS
LESS THAN 18	
18-24	5
36-48	11
OTHER	19

SERVICES FOR PAST 12 MONTHS			
SERVICE NUMBER	NUMBER SERVICE	% SUCCESSFUL	SERVICE SIRE PTA $
1ST	33	45	+246
2ND	12	42	
3RD+	13	54	+243
TOTAL	115		+245

ABORTIONS	THIS MONTH	PAST YEAR
ACTUAL		
APPARENT		

BIRTH SUMMARY

DAM'S LACT NUM.	OFFSPRING BORN									
	MALES		FEMALES		CALVING DIFFICULTY SCORE					
	ALIVE	DEAD	ALIVE	DEAD	1	2	3	4	5	% 4+5
1	15	3	16	2	19	8	5			
2+	22		25	3	38	1	4			
TOTAL	37	3	41	5	57	9	9			

YEARLY REPRODUCTIVE SUMMARY

DATE OF TEST	% HEATS OBS.	NUMBER SERVICES	% SUCCESSFUL	NUMBER CONFIRM PREG.	NUMBER CALVING	TOTAL PREGNANT COWS
MONTH DROPPED		13			3	
8-29-96		7		2	5	
10-01-96		13		2	12	
11-01-96		8		3	5	
12-05-96		4		7	9	
12-31-96		14	36	1	7	
1-28-97		6	33		9	
2-25-97		13	46	3	4	
3-25-97		7	43	5	11	
4-28-97		14	50	4	11	
5-30-97	21	7	57	4	5	25
6-26-97	38	16			8	26
7-31-97	26	11		5	2	20
AVERAGES	28	10		3	7	6
TOTALS		120		36	88	

COWS TO BE MILKING, DRY, CALVING, BY MONTH

MONTH	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
* MILKING	63	57	62	64	69	76	73	68
DRY	4	8	6	8	11	10	16	21
COWS TO CALVE	1	2	4	4	3	6	4	11
HEIFERS TO CALVE	2		6	6	10	9	3	1

* ASSUMES 4.2% PER MONTH CULLING RATE.

MISCELLANEOUS HERD INFORMATION

SHIPPED-TEST DAY COMPARISON	TEST DAY	YEARLY AVERAGE
SUM OF TEST DAY WTS (LBS)	4626	4390
REPORTED AV. DAILY BULK TANK WTS (LBS)	4273	4231
% DEVIATION	+8.3	+3.8

ASSOC.	SAMPLES RECV. AT LAB		DRPC MAILED	
428				
SUPV.	MO.	DAY	MO.	DAY
102	8	5	8	5

	MILKING TIMES	WGH	SPL
1ST OR PRIOR AP	6:05 PM	Y	Y
2ND	7:30 AM	Y	Y
3RD			

REMARKS:

HERDCODE	DATE TESTED	BREED
	7-31-97	H

STAGE OF LACTATION PROFILE

		STAGE OF LACTATION (DAYS) 1 THRU 40	41 THRU 100	101 THRU 199	200 THRU 305	306 +	TOTAL OR AVERAGE
NUMBER MILKING	1ST LACT	1	5	10	7	5	28
	2ND LACT		2	5	7	4	18
	3+ LACTS	3	3	9	3	3	21
	ALL LACTS	4	10	24	17	12	67
AVERAGE DAILY MILK PRODUCTION	1ST LACT	80	75	77	49	51	65
	2ND LACT		59	84	69	55	69
	3+ LACTS	84	100	86	69	50	80
	ALL LACTS	83	79	82	61	52	71
% FAT & PROT. 1ST LACT	FAT %	3.2	3.6	3.0	3.6	4.1	3.5
	PROT %	2.9	3.0	3.1	3.6	3.6	3.3
% FAT & PROT. 2ND LACT	FAT %		2.3	2.4	3.6	4.5	3.3
	PROT %		3.2	3.1	3.2	3.7	3.3
% FAT & PROT. 3+ LACTS	FAT %	3.1	3.1	3.2	3.5	3.8	3.3
	PROT %	2.9	2.7	3.1	3.2	3.3	3.1
% FAT & PROT. ALL LACTS	FAT %	3.1	3.2	2.9	3.6	4.2	3.4
	PROT %	2.9	3.0	3.1	3.3	3.5	3.2
SCC ACT	1ST LACT	13	995	103	911	342	468
	2ND LACT		140	200	326	425	283
	3+ LACTS	450	2707	279	1073	384	844
	ALL LACTS	344	1304	193	669	381	517
SCC SCORE > 3.9	NUMBER	1	6	8	9	8	32
	PERCENT	25	60	33	53	67	48

WEIGHTED SCC (NEAREST 1,000)

IDENTIFICATION AND GENETIC SUMMARY

AGE GROUP	NUMBER ANIMALS	AVG. AGE YR-MO	NUM. IDENTIFIED BY SIRE	NUM. IDENTIFIED BY DAM	NUMBER ID. CHANGES	NO. ANIMALS WITH PTA$ / PA$	AVERAGE PTA$ / PA$ ANIMAL	AVERAGE PTA$ / PA$ SIRE
0-12	40	0-06	36	40		35	+134	+220
13+	50	1-10	50	50		50	+116	+187
REPLACEMENTS	90	1-02	86	90		85	+125	+204
1ST LACT	29	2-07	29	29		13	+74	+162
2ND LACT	18	3-09	18	18		17	+75	+117
3+ LACTS	21	6-04	20	21		20	+58	+87
ALL LACTS	68	4-01	67	68		50	+68	+123
%IDENTIFIED (PRODUCING FEMALES)			99	100		NUMBER HEIFERS IN 13+ AGE GROUP OVER 30 MONTHS OF AGE		1

HERD PTA $ OPTION	GENETIC PROFILE OF SERVICE SIRES: PROVEN A.I. SIRES	A.I. YOUNG SIRES	ALL OTHER SIRES
MFP			
% OF HERD BRED TO	100		
NUMBER OF BULLS USED	10		
AVERAGE PTA$ OR PA$	+240		
AV. PERCENTILE RANK (NET MERIT)	82		

CURRENT SOMATIC CELL COUNT SUMMARY

HERD PRODUCTION LOST FROM SCC THIS TEST PERIOD	MILK = 6,683
	$ = 749

	NUMBER OF COWS	AVERAGE AGE MONTHS	SUMMIT MILK	PROJ ME 305 DAY MILK	PROJ ME 305 DAY FAT	PROJ ME 305 DAY PROTEIN	DIFFERENCE FROM HERDMATES MILK	DIFFERENCE FROM HERDMATES FAT	DIFFERENCE FROM HERDMATES PROTEIN	BODY WEIGHT	% COWS SCC SCORE 0,1,2,3 BELOW 142,000	4 142,000-283,000	5 284,000-565,000	6 566,000-1,130,000	7,8,9 OVER 1,130,000
1ST LACT	29	31	76	22902	807	715	-1049	-79	-22	1210	50	18	7	11	14
2ND LACT	18	45	104	25753	887	798	+2787	+35	+85	1240	49	11	28	6	6
3+ LACTS	21	76	109	24665	880	754	+1892	+40	+40	1300	45	5	10	15	25
ALL LACTATIONS	68	49	93	24200	850	750	+905	-11	+26	1250	48	12	14	11	15

DRY COW PROFILE

YEARLY SUMMARY OF COWS ENTERED AND LEFT THE HERD

	NUMBER DRY PERIODS	DAYS DRY	NUMBER DRY LESS THAN 40 DAYS	NUMBER DRY 40-70 DAYS	NUMBER DRY OVER 70 DAYS	COWS ENTERED HERD NUM.	COWS ENTERED HERD %	COWS LEFT HERD NUM.	COWS LEFT HERD %	NUMBER OF COWS LEFT THE HERD: DAIRY	LOW PROD.	REPO.	MAST.	UDDER	FEET & LEGS	INJ, HDWR OR OTHER	DISEASE	DIED	NOT RPTD
1ST LACT						37	52	13	18				3			6		4	
2ND LACT	17	51	2	15		1	1	13	18			3	1			3	2	4	
3+ LACTS	21	61	2	13	6			9	13			2	2			1	2	2	
ALL LACTATIONS	38	57	4	28	6	38	54	35	49			5	6			10	4	10	

YEARLY PRODUCTION AND MASTITIS SUMMARY

DATE OF TEST	DAYS IN TEST PERIOD	NUMBER COWS IN HERD ON TEST DAY	TEST DAY AVERAGES (MILKING COWS) DAYS IN MILK	TEST DAY AVERAGES (MILKING COWS) MILK	STANDARDIZED 150 DAY MILK	TEST PERIOD PERSIST. INDEX	TEST DAY AVERAGES (ALL COWS) % IN MILK	MILK	% FAT	% PROT.	ROLLING YEARLY HERD AVERAGE MILK	FAT	PROT.	SOMATIC CELL COUNT SUMMARY % COWS SCC SCORE 0,1,2,3 BELOW 142,000	4 142,000 283,000	5 284,000 565,000	6 566,000 1.13 M	7,8,9 OVER 1.13 M	AVG. SCC SCORE	WT. AVG ACTUAL SCC	NUMBER LEFT HERD DIED	SOLD
MONTH DROPPED	28	68	246	60.5	71.0	106	97	59.6	3.9	3.2	22105	867	720	60	11	9	11	9	3.8	422	1	
8-29-96	42	70	256	61.4	75.2	106	84	51.8	3.8	3.2	21871	863	713	46	22	12	8	12	3.7	398		
10-01-96	33	73	230	62.9	75.8	101	85	54.3	4.0	3.3	21794	861	711	61	15	11	4	9	3.4	298		1
11-01-96	31	71	220	60.2	75.0	93	89	54.2	4.0	3.2	21920	867	714	69	18	5	4	4	2.8	162		6
12-05-96	34	73	194	68.1	80.0	102	84	56.9	3.9	3.3	22094	872	717	54	12	11	9	14	3.8	496	1	1
12-31-96	26	75	189	74.5	86.0	105	83	61.6	3.6	3.2	22147	870	716	55	10	9	5	21	4.0	673		1
1-28-97	28	74	179	74.6	82.1	94	84	62.5	3.8	3.2	22233	868	718	58	14	5	7	16	3.8	596	1	3
2-25-97	28	74	177	73.7	80.3	98	81	60.7	3.8	3.2	22161	863	714	49	13	7	9	22	4.3	836	1	2
3-25-97	28	72	150	79.2	80.7	102	85	68.2	3.8	3.2	22167	861	714	68	10	2	8	12	3.5	559		2
4-28-97	34	70	155	81.1	83.2	106	90	74.1	3.6	3.1	22278	861	716	66	13	8	8	5	3.0	274	4	4
5-30-97	32	68	158	78.9	81.2	100	90	70.7	3.6	3.1	22426	861	719	53	18	7	10	12	3.7	341	1	3
6-26-97	27	69	158	72.2	75.6	97	96	68.9	3.2	3.1	22607	859	723	60	11	8	11	10	3.3	390	2	1
7-31-97	35	68	190	70.9	77.8	105	99	69.8	3.3	3.1	23002	858	733	48	12	14	11	15	3.9	497		1
AVERAGES	32	71	188	71.5	79.4	101	90	62.8	3.7	3.2				57	14	8	8	13	3.6	460	10	25

MONTHLY REPORT DHI-220

Herdcode	Breed	Assoc.	Supervisor	Record Plan	Sample Date
	H		102	20 DHIR	7-31-97

Test Interval			Received	Processing Center		
Cow Months	Length	From	at Lab	Barn Sheet Recd.	Last Data Recd.	Mailed
68.9	35	6-27	8-05	8-04	8-05	8-05

DUE DATE CODES
* CONF. PREG.
\- NOT CONF. PREG

ACTION CODES
B = TO BREED
D = TO DRY
F = LEAD FEED
P = PREG. CHECK

Breed / Birth	Cow Identification / Sire Identification	SCC Actual & Milk Wts. by Test Day: Test Date 1-28 (Milk / SCCA)	Test Date 2-25 (Milk / SCCA)	Test Date 3-25 (Milk / SCCA)	Test Date 4-28 (Milk / SCCA)	Test Date 5-30 (Milk / SCCA)	Test Date 6-26 (Milk / SCCA)	Sample Day Data: Milk Lbs. / SCCA	Fat % / Prot. %	Income/ Feed Cost / Summit Milk	Barn Name / Index Number	Lact. No. / Days Dry	Fresh Date / Age at Calving	Days in Milk / Days 3X	Milk Pounds	Fat Lbs. / Fat %	Prot. Lbs. / Prot. %	CAR	Income Over Feed Cost / Perst. %	305-2X-ME Difference From Herdmates: Milk	Fat	Prot.	Times Bred	Date Bred / Service Sire Identification	Due Date / Action Needed
H	13305775	69	60	54	50	DRY	T-F	98.5	2.2	6.51	BIANNE	7	6-22	40	3585	87	113		176						
1	11H2410	214	985	214	214			123	2.9		929	46	9-06			2.4	3.2								B 8 06
H	360551420	119	112	106	111	104	76	82.0	4.0	7.97	CAMMIE	2	9-26	309	32989	1122	1057		3137	36255	1209	1134	3	4-02	1*07
1	1H406	38	35	33	41	71	54	87	3.3	130	1125	51	3-09			3.4	3.2		101	+11172	+280	+362		7H4149	
H	15536206	96	96	90	92	58	73	69.7	4.3	6.76	CHRIS	1	9-25	310	25738	1103	810		2564	31989	1327	964	4	7-28	5-04
2	11H2847	1300	1056	985	696	746	460	800	3.4	84	1		2-02			4.3	3.1		101	+6746	+406	+185		1H2085	P 9 01
H	15699708		74	95	86	77	40	68.7	3.3	5.35	CHRISTY	1	1-28	185	13342	450	403		977	24522	821	749	2	7-21	4-27
2	9H1289		2263	115	38		23	50	3.2	90	17		2-00			3.4	3.0		121	+2223	+26	+40		9H1768	P 8 25
H	15175944	62	61	57	61	54	55	52.5	4.5	5.22	CRISANA	2	8-25	341	21908	974	788		2458	23168	1008	810	5	5-04	2-08
3	9H1294	76	107	76	71	214	187	985	3.5	79	1122	37	3-08			4.4	3.6		100	-2494	+63	+32		11H3073	P
H	14514814	150	145	133	121	78	92	88.1	3.2	5.76	CRISTIA	2	11-21	253	29980	1052	840		2204	33556	1137	948	2	6-09	3-16
1	1H7380	76	107	87	87	696	41	71	3.0	149	1074	55	5-05			3.5	2.8		102	+9941	+272	+216		11H3073	P
H	15541580	69	63	62	56	50	45	44.2	4.7	4.21	DANNA	1	9-09	326	19572	857	669		2081	22364	952	746	2	7-28	5-04
3	2201004	31	44	62	141	66	25	19	3.5	69	1163		2-07			4.4	3.4		100	-3403	+11	-45		1H2085	P 9 01
H	15536210					47	63	71.5	3.1	4.70	DOMIE3	1	5-22	71	4245	159	134		143	19230	691	591			
2	2201004					214	100	214	3.0	67	3		2-09			3.7	3.2			-1826	-41	-62			B
H	15172632	DRY	DRY	110	122	99	90	71.4	2.1	5.00	DOMINA	3	3-01	153	15248	436	500		1225	22566	628	786	1	6-17	3-24
1	7H1897			152	107	123		200	3.5	116	1097	61	5-00			2.9	3.3		96	+452	-149	+71		11H3686	P
H	15172638	131	114	108	106	89	84	77.2	4.5	6.79	DOMINI	2	11-26	248	25938	1143	820		2225	30792	1320	970	2	6-13	3-20
1	9H1294	54	27	44	50	93	57	66	3.5	133	1118	45	4-00			4.4	3.2		102	+7080	+461	+239		11H3686	P
H	15703015						53	75.3	3.7	6.03	ELISA	1	6-15	47	2824	103	83		111	22398	846	666			
2	9H1401							566	3.0	64	26		2-04			3.6	2.9			+60	+51	-17			B
H	370551419	T-F	72	95	86	81	65	61.0	4.0	5.52	ELISE	3	1-24	189	14340	540	465		1125	19776	757	656	1	4-13	1-18
1	9H1294		27	17	31	41	283	1056	3.5	90	1121	55	4-01			3.8	3.2		102	-2233	-33	-47		7H4149	P
H	370581414	69	70	68	53	54	62	48.0	3.2	3.52	ELLENA	1	11-10	264	16245	625	522		1201	21149	779	681	5	6-26	4-02
3	2201004	44	44	41	38	50	606	57	3.6	71	1178		2-05			3.8	3.2		98	-2900	-97	-59		9H1768	P 7 31
H	370581075	84	71	68	64	DRY	DRY	52.3	4.3	4.14	ELSIE	3	7-02	30	1365	65	49		78	BWT:	1210				
1	14H1127	57	62	87	33			1838	3.2		1133	35	4-02			4.8	3.6								B 8 16
H	14830702	113	108	108	100	85	80	75.0	4.5	6.96	ESTEE	2	1-12	201	19197	852	620		1686	24982	1118	829	1	5-20	2-24
1	7H1897	41	27	857	23	44	22	100	3.4	110	1112	58	4-05			4.4	3.2		103	+2764	+316	+120		11H3073	P
H	15541585	83	81	81	90	83	73	74.7	3.9	7.30	HEDDANA	1	8-29	337	26784	1003	890		2568	30533	1126	982	3	3-11	12*16
2	9H1351	152	44	66	76	187	187	152	3.6	79	1171		2-05			3.7	3.3		100	+5325	+189	+214		11H3686	
H	14503092	DRY	DRY	46	130	121	125	100.0	3.3	8.10	HEDDIA	4	3-10	144	14926	511	428		1297	25174	887	759	1	6-05	3-12
1	7H1557			230	19	35	33	132	2.8	125	1024	97	7-01			3.4	2.9		98	+2535	+67	+45		11H3073	P
H	15172634	92	92	103	85	74	67	63.2	3.2	5.48	HEDIANA	3	1-04	209	17200	519	541		1268	21926	673	705	1	4-28	2*02
3	1H406	2786	2111	857	746	2599	746	650	3.3	97	1113	53	4-03			3.0	3.1		103	-262	-120			11H3686	
H	15547919			DRY	74	98	89	85.8	1.8	5.55	HEDPANE	2	4-20	103	8975	254	265		482	22087	616	706	1	7-10	4-16
1	7H3340				66	87	81	162	3.2	93	1149	53	3-06			2.8	3.0		102	-1365	-195	-26		11H3686	P 8 14

Billing for period following 7-31-97	DRPC Fees 34.25	State Fees 10.48	Lab Fees 23.45	Local Fees 6.80	Total Amount 74.98

Herdcode	Breed	Assoc.	Supervisor	Record Plan	Sample Date
	H		102	20 DHIR	7-31-97

Test Interval			Received at Lab	Processing Center		
Cow Months	Length	From		Barn Sheet Recd.	Last Data Recd.	Mailed
68.9	35	6-27	8-05	8-04	8-05	8-05

MONTHLY REPORT DHI-220

DUE DATE CODES
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ACTION CODES
B = TO BREED
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Breed / Batch	Cow Identification / Sire Identification	SCC Actual & Milk Wts. by Test Day: Test Date 1-28 / Milk / SCCA	Test Date 2-25 / Milk / SCCA	Test Date 3-25 / Milk / SCCA	Test Date 4-28 / Milk / SCCA	Test Date 5-30 / Milk / SCCA	Test Date 6-26 / Milk / SCCA	Sample Day Data: Milk Lbs. / SCCA	Fat % / Prot. %	Income/ Feed Cost / Summit Milk	Barn Name / Index Number	Lact. No. / Days Dry	Fresh Date / Age at Calving	Days in Milk / Days 3X	Milk Pounds	Fat Lbs. / Fat %	Prot. Lbs. / Prot. %	CAR	Income Over Feed Cost / Perst. %	305-2X-ME Difference From Herdmates: Milk	Fat	Prot.	Times Bred / Service Sire Identification	Date Bred	Due Date / Action Needed
H	14514810	45	DRY	104	113	114	86	82.2	2.3	5.10	HEDINIA	3	3-08	146	14614	525	440		1106	23094	758	733			
1	21H1567	141		31	18	31	18	29	3.1	113	1070	37	5-10			3.6	3.0		103	+812	-36	+26			B
H	14830722	64	41		DRY	118	137	121.2	2.7	9.15	HELETIA	4	5-11	82	9980	296	290	E	637	26880	835	785			
1	11H1709	100	174			38	13		2.7	129	1064	43	6-02			3.0	2.9		101	+2586	+30	+58			B
H	15541582	54	DRY	77	116	117	87	86.5	1.9	5.59	HELIANE	2	3-19	135	13365	395	401		995	25952	720	807	1	7-11	4-17
1	7H3532	107		566	31	50	41	325	3.1	116	1168	48	3-00			3.0	3.0		105	+1301	-153	+39	11H3686		P 8 15
H	15541571	61	56	DRY	77	119	84	100.3	2.5	7.97	HELLETI	2	4-21	102	9709	287	312		633	24542	745	827			
1	7H3340	460	528		44	50	29	107	3.3	101	1152	54	3-06			3.0	3.2		114	-239	-141	+25			B
H	15541574	95	101	89	93	87	71	63.3	4.0	5.15	HELLI	1	10-17	288	25529	900	807		2138	30524	1053	933	1	12-24	9*30
2	7H3340	100	81	81	62	62	76	123	3.7	101	1153		2-11			3.5	3.2		101	+5032	+101	+161	7H4149		D 8 01
H	15536227		58	64	78	65	78	69.0	3.7	5.94	HELOISA	1	2-09	173	11712	437	392		936	22103	819	753	1	6-10	3-17
2	9H1293		123	33	50	57	81	81	3.4	71	9		2-04			3.7	3.3		99	-60	+12	+43	11H3686		P
H	15699705						67	73.6	4.4	6.57	HELTIAN	1	6-13	49	3242	156	113		232	22441	972	708			
2	9H1289						38	27	3.1	70	20		2-04			4.8	3.5			+85	+125	+7			B
H	13930948	123	130	113	122	90	89	90.3	3.5	6.43	HESPERA	4	11-26	248	26754	1043	750		1892	30803	1168	882	2	7-29	5-05
1	7H1557	3200	2599	3430	985	1300	1056	1715	2.9	117	990	92	7-04			3.9	2.8		104	+7103	+303	+149	11H3562		P 9 02
H	15178813	94	93	85	93	75	48	55.5	3.2	4.58	HESPRIA	2	12-23	221	17325	552	563		1486	22310	706	732	2	7-10	4-16
3	7H3340	62	41	47	54	141	162	81	3.3	93	1144	51	3-05			3.2	3.2		107	-1069	-150	+5	11H3562		P 8 14
H	14523209	52	DRY	T-F	110	108	75	92.0	2.6	6.89	HESSIE	3	3-21	133	12772	409	374		963	22932	728	733			
1	9H1057	81			41	57	107	17	3.1	109	1078	50	5-07			3.2	2.9		113	-1213	-164	-38			B
H	14830691	DRY	DRY	98	122	112	120	112.0	4.2	10.98	HESTER	3	3-05	149	16451	654	468		1430	27759	1156	854			
1	23H275			31	23	44	50	100	3.0	117	1106	92	4-10			4.0	2.8		104	+4682	+292	+123			B
H	15546184				84	86	78	76.7	2.6	5.38	HESTERA	1	4-04	119	9407	245	284		641	23997	687	746			
2	9H1289				33	44	17	20	3.0	85	13		2-04			2.6	3.0		104	+416	-122	+21			B
H	14830699	99	101	87	79	70	73	53.9	3.8	4.19	HETTA	3	10-20	285	25073	867	739		1887	27117	913	787	2	1-20	10*27
3	7H1897	31	27	123	33	214	348	492	3.4	112	1108	51	4-05			3.5	2.9		100	+1492	-39	+9	7H4149		D 8 28
H	15546179	38	58	64	58	56	48	53.0	3.2	4.38	HETTE	1	1-20	193	10423	308	354		782	18208	555	618	1	5-25	3*01
3	9H1401	162	54	71	214	174	152	230	3.4	61	12		2-02			3.0	3.4		108	-3677	-220	-81	1H2085		
H	15541588				82	82	94	90.5	1.9	5.92	JELLY	1	4-13	110	9324	241	272		621	25062	631	740			
2	9H1351				33	87	27	23	2.9	88	1174		2-11			2.6	2.9		104	+1183	-164	+15			B
H	14351253	72	57	51	50	39	38	31.3	3.6	1.40	JENELLA	4	6-14	413	29862	1103	852		2409	26240	990	741	5	3-27	1*01
3	7H978	162	200	230	174	1213	985	919	3.1	102	983	91	7-01			3.7	2.9		100	+1374	+38	-33	1H2085		
H	15172647	97	107	96	87	77	57	62.2	3.3	4.48	JENETTA	2	10-16	289	26164	755	789		2116	30098	849	880	1	4-14	1*19
1	9H1293	696	857	1838	746	1393	2786	1715	3.2	110	1135	47	3-05			2.9	3.0		103	+4581	-108	+105	11H3073		
H	15693777	66	78	77	79	76	60	44.0	4.1	3.19	JETTA	1	10-31	274	20047	711	630		1482	25267	881	785	1	1-31	11*07
3	11H2847	132	3940	31	492	800	650	1300	3.4	87	1179		2-05			3.5	3.1		98	-348	-73	+9	11H3243		D 9 08
H	15546070			77	77	69	69	64.5	3.4	4.16	JEWEL	1	2-23	159	11180	425	325		708	19339	717	562	1	5-29	3-05
2	2201004			29	33	71	27	35	2.9	77	1165		3-00			3.8	2.9		98	-2360	-72	-120	11H3073		P

Billing for period following	7-31-97	DRPC Fees	34.25	State Fees	10.48	Lab Fees	23.45	Local Fees	6.80	Total Amount	74.98

Herdcode	Breed	Assoc.	Supervisor	Record Plan	Sample Date
	H		102	20 DHIR	7-31-97

Test Interval			Received at Lab	Processing Center		
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68.9	35	6-27	8-05	8-04	8-05	8-05

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Breed / Birth	Cow Identification / Sire Identification	SCC Actual & Milk Wts. by Test Day: Test Date 1-28	Test Date 2-25	Test Date 3-25	Test Date 4-28	Test Date 5-30	Test Date 6-26	Sample Day Data: Milk Lbs. / SCCA	Fat % / Prot. %	Income/ Feed Cost / Summit Milk	Barn Name / Index Number	Lact. No. / Days Dry	Fresh Date / Age at Calving	Days in Milk / Days 3X	Milk Pounds	Fat Lbs. / Fat %	Prot. Lbs. / Prot. %	CAR	Income Over Feed Cost / Perst. %	305-2X-ME Difference From Herdmates: Milk	Fat	Prot.	Times Bred	Date Bred / Service Sire Identification	Due Date / Action Needed
H	13905013	73	68	65	60	47	59	51.0	4.5	4.67	JOANNE	5	4-07	481	36127	1434	1207		3192	25190	962	836	3	12-30	10*06
3	21H1567	162	141	132	62	132	62	460	3.7	101	963	52	7-03			4.0	3.3		100	+1121	+13	+77		29H6995	D 8 07
H	15699711							79.7	3.2	5.94	JULANI	1	6-22	40	2805	98	87		176						
2	1H2085							13	2.9		21		2-04			3.5	3.1								B 8 06
H	15536216					62	74	72.8	3.6	5.85	JULLI	1	4-26	97	6274	222	190		406	20255	758	628	i	7-17	4-23
2	2201004					373	2111	4223	3.0	73	4		2-08			3.5	3.0		105	-1867	-22	-46		11H3686	P 8 21
H	15541589	49	42	57	51	38	46	32.0	3.9	2.02	JULLIA	1	9-26	309	15983	605	490		1465	19498	720	582	3	3-24	12*29
3	2229775	200	87	66	54	81	44	200	3.1	70	1175		2-04			3.8	3.1		100	-6400	-232	-217		7H4149	
H	15693780	94	81	86	72	83	65	62.5	2.8	4.70	JUSSIE	1	9-30	305	24074	913	757		2211	30093	1105	911	2	2-07	11*14
2	11H2847	33	87	123	187	230	348	566	3.4	93	1180		2-03			3.8	3.1		101	+4653	+171	+126		7H4149	D 9 15
H	15565497	95	109	126	106	95	74	89.2	3.5	7.38	LADORE	2	12-10	234	23189	761	660		1831	29863	981	859	2	4-10	1*15
1	11H1253	214	1393	57	187	71	81	303	2.8	107	1130	49	3-08			3.3	2.8		109	+6458	+122	+130		11H3686	
H	42WGT1087	43	41	34	16	DRY	DRY	99.7	2.8	7.11	LETTA	3	7-11	21	1738	54	54		83	BWT:	1210				
1		123	152	123	187			44	2.7		1111	52	5-00			3.1	3.1								B 8 25
H	360551662	63		DRY	50	84	78	65.0	3.6	4.55	MAGENTA	2	4-15	108	7458	292	218		507	17598	706	499	1	7-15	4-21
1	9H939	400			6400	325	214	429	2.6	81	1138	48	3-10			3.9	2.9		95	-4700	-143	-180		7H4482	P 8 19
H	370581409					56	74	35.3	2.5	i.26	MARA	2	5-24	69	4045	133	123		150	13187	509	430			
2	7H3305					919	71	348	3.2	64	100		3-10			3.3	3.0			-4956	-136	-144			B
H	370581410	DRY	74	98	100	101	91	83.0	2.1	5.70	MARIA	2	2-19	163	15134	414	470		1081	24139	618	757	1	7-15	4-21
1	7H3305		303	29	50	200	20	41	3.1	99	1142	64	3-07			2.7	3.1		100	+1689	-154	+45		7H4525	P 8 19
H	15565478	123	112	122	118	96	84	37.5	2.9	0.58	MIMI	2	11-28	246	25293	934	730		1823	27195	970	784	2	4-02	1-07
1	7H1965	25	246	27	18	41	13	20	3.1	120	1110	61	4-05			3.7	2.9		92	+3560	+107	+54		11H3686	P
H	15541619	67	62	68	70	59	57	53.0	2.0	3.11	MISSY	1	12-20	224	13831	282	456		824	20023	400	675	1	3-11	12*16
2	2229775	57	47	71	25	41	66	35	3.4	64	1177		2-07			2.0	3.3		101	-3301	-441	-52		11H3073	
H	370581411	47	38	47	43	48	39	34.7	5.3	2.96	NANBELA	1	10-01	304	13251	677	514		1350	15408	767	577	1	12-28	10*04
3	1H1605	141	100	93	1300	566	4526	3940	3.9	51	1160		2-09			5.1	3.9		101	-10668	-195	-208		11H3243	D 8 05
H	15541610	38			DRY	DRY	53	82.0	2.0	5.05	NANELIA	2	6-02	60	3548	99	109		72	20006	607	624			
1	2201004	107					214	50	3.1	67	1170	60	3-02			2.8	3.1			-1247	-83	-38			B
H	15565480	108	90	80	69	56	43	23.2	5.3	1.83	NELLA	2	9-13	322	26555	992	850		2640	29207	1055	898	1	12-07	9*13
3	9H1294	47	100	93	123	246	93	264	4.4	106	1134	38	3-08			3.7	3.2		100	+3803	+119	+114		11H3243	D
H	15591206		61	79	68	78	70	77.1	2.6	5.55	NOELLE	1	2-16	166	11904	431	345		837	24146	773	724	1	6-04	3-11
2	9H1351		71	81	35	81	66	214	3.1	73	14		2-02			3.6	2.9		109	+1560	-23	+11		11H3073	P
H	15541602				67	73	98	110.7	2.9	8.25	RENNIA	1	4-19	104	8804	305	249		576	25067	842	726	2	7-10	4-16
2	2201004				93	54	27	66	2.8	85	1158		3-03			3.5	2.8		113	+980	-3	+3		11H3562	P 8 14
H	370437627		DRY	DRY	DRY	100	83	103.8	3.2	6.93	RENNIE	8	5-09	84	7656	245	200		336	23903	838	664			
1	29H3183					2599	2425	2786	2.6	102	900	74	10-03			3.2	2.6		115	+579	+30	-22			B
H	14830676	77	96	92	86	89	72	69.3	3.4	5.76	ROMIA	3	9-02	333	31423	1163	951		3121	31217	1144	931	2	2-21	11*28
1	11H1862	66	566	66	71	132	66	87	3.2	114	1090	44	4-08			3.7	3.0		100	+5862	+213	+149		1H2085	D 9 29

Billing for period following	7-31-97	DRPC Fees	34.25	State Fees	10.48	Lab Fees	23.45	Local Fees	6.80	Total Amount	74.98

MONTHLY REPORT DHI-220

Herdcode	Breed	Assoc.	Supervisor	Record Plan	Sample Date
	H		102	20 DHIR	7-31-97

Test Interval			Received	Processing Center		
Cow Months	Length	From	at Lab	Barn Sheet Recd.	Last Data Recd.	Mailed
68.9	35	6-27	8-05	8-04	8-05	8-05

DUE DATE CODES
* CONF. PREG.
- NOT CONF. PREG

ACTION CODES
B = TO BREED
D = TO DRY
F = LEAD FEED
P = PREG. CHECK

Breed / Batch	Cow Identification / Sire Identification	SCC Actual & Milk Wts. by Test Day: Test Date 1-28 / Milk / SCCA	Test Date 2-25 / Milk / SCCA	Test Date 3-25 / Milk / SCCA	Test Date 4-28 / Milk / SCCA	Test Date 5-30 / Milk / SCCA	Test Date 6-26 / Milk / SCCA	Sample Day Data: Milk Lbs. / SCCA	Fat % / Prot. %	Income/ Feed Cost / Summit Milk	Barn Name / Index Number	Lact. No. / Days Dry	Fresh Date / Age at Calving	Days in Milk / Days 3X	Milk Pounds	Fat Lbs. / Fat %	Prot. Lbs. / Prot. %	C A R	Income Over Feed Cost / Perst. %	305-2X-ME Difference From Herdmates: Milk	Fat	Prot.	Times Bred	Date Bred / Service Sire Identification	Due Date / Action Needed
H 2	370595165 9H1293						66 115	80.0 50	3.1 3.0	6.01 72	ROSABEL 25	1	6-07 2-04	55	3656	108 3.0	116 3.2		172	23531 +734	790 +17	715 +11			B
H 2	370581077 7H3392				75 57	87 76	85 44	88.3 71	3.4 2.8	6.69 86	ROSBUDA 1164	1	4-17 3-02	106	8731	287 3.3	261 3.0		588 106	22541 -604	804 -27	665 -34	1	6-18 1H2085	3-25 P
H 1	42WFN1837 29H3183	DRY	DRY	63 93	111 47	114 66	90 47	106.2 115	3.5 2.7	7.88 112	ROSEBUD 915	8 40	3-08 9-05	146	13701	446 3.3	364 2.7		770 114	25230 +2520	891 +68	724 +12	1	6-10 11H3562	3-17 P
H 1	42WGB9105 7H1557	DRY	DRY	76 41	95 44	105 152	73 44	70.0 47	3.5 3.0	5.21 99	ROSEY 995	6 67	3-07 7-05	147	12229	469 3.8	374 3.1		961 102	19568 -2221	761 -38	629 -63			B
H 3	370551663 21H1202	83 1131	70 348	74 2425	71 348	72 1213	59 650	60.0 460	4.2 3.4	5.92 104	SUKANA 1143	2 52	9-29 3-03	306	24737	975 3.9	790 3.2		2477 101	28625 +3123	1098 +162	877 +91	5	6-25 9H1768	4-01 P
H 1	42WGN1334 1H7380	90 3200	124 1393	111 1056	110 1056	92 1131	93 1213	84.0 1131	3.5 3.0	7.07 117	TREASY 1079	4 60	1-14 5-05	199	20018	770 3.8	627 3.1		1752 103	25854 +3601	975 +175	817 +109	1	5-20 11H3073	2-24 P
H 3	15541575 7H3295	70 123	74 115	56 141	59 566	54 132	41 187	34.2 373	3.7 4.3	2.86 67	TRICANE 1155	1	8-03 2-08	363	22208	749 3.4	761 3.4		2117 100	24391 -1190	799 -158	789 +9	3	1-18 7H4149	10*25 D 8 26
H 3	15536226 9H1401	55 460	50 214	51 1131	50 3676	47 460	37 5972	39.7 1838	3.7 3.6	3.18 51	TRICEY 8	11 88	11-02 2-00	272	12230	497 4.1	417 3.4		1103 103	16414 -7748	651 -230	550 -192	1	1-30 11H3243	11*06 D 9 07
H 2	15541584 7H1897				63 348	78 566	75 1056	67.3 325	2.5 3.1	3.96 76	TRICTIA 1167	1	4-11 3-01	112	7757	193 2.5	245 3.2		412 98	18966 -3375	562 -213	607 -82	1	6-19 1H2085	3-26 P
H 1	14830688 11H1862	50 1056	32 4526	DRY	DRY	DRY	73 100	75.7 2599	3.5 2.8	5.68 74	TRINETA 1094	3 88	6-20 5-04	42	3146	155 4.9	106 3.4		196	18733 -1463	767 +2	554 -58			B 8 04
H 3	15175942 1H406	69 107	60 246	58 264	50 162	41 429	DRY	-DRY-		-0.64	TRUTHAN 1119	1 44	3-07 3-04						-26	21790 -3298	758 -219	650 -150	2	10-27 11H3243	8*03 F
		****	A V E R A G E S				****						B/WT			COWS		%IN MLK						
	BATCH 1							83.4	3.1 3.0	6.26		58	1280 5-03	158		30			100	25576 +2153	885 +45	783 +54			
	BATCH 2							72.6	3.2 3.1	5.46			1210 2-08	149		21			100	23497 +507	812 -8	724 +13			
	BATCH 3							42.4	3.9 3.5	3.47		52	1220 3-06	287		17			94	22840 -1914	839 -78	727 -38			

Billing for period following 7-31-97	DRPC Fees 34.25	State Fees 10.48	Lab Fees 23.45	Local Fees 6.80	Total Amount 74.98

Herdcode	Breed	Assoc.	Supervisor	Record Plan	Sample Date
	H		102	20 DHIR	7-31-97

Test Interval			Received at Lab	Processing Center		
Cow Months	Length	From		Barn Sheet Recd.	Last Data Recd.	Mailed
68.9	35	6-27	8-05	8-04	8-05	8-05

MONTHLY REPORT DHI-220

DUE DATE CODES
* CONF. PREG.
- NOT CONF. PREG.

ACTION CODES
B = TO BREED
D = TO DRY
F = LEAD FEED
P = PREG. CHECK

Breed / Batch	Cow Identification / Sire Identification	SCC Actual & Milk Wts. by Test Day: Test Date 1-28 / Milk / SCCA	Test Date 2-25 / Milk / SCCA	Test Date 3-25 / Milk / SCCA	Test Date 4-28 / Milk / SCCA	Test Date 5-30 / Milk / SCCA	Test Date 6-26 / Milk / SCCA	Sample Day Data: Milk Lbs. / SCCA	Fat % / Prot. %	Income/ Feed Cost / Summit Milk	Barn Name / Index Number	Lact. No. / Days Dry	Fresh Date / Age at Calving	Days in Milk / Days 3X	Milk Pounds	Fat Lbs. / Fat %	Prot. Lbs. / Prot. %	CAR	Income Over Feed Cost / Perst. %	305-2X-ME Difference From Herdmates: Milk	Fat	Prot.	Times Bred	Date Bred	Due Date / Service Sire Identification / Action Needed
		****	A V E R A G E S				****						B/WT			COWS		%	IN MLK						
	AVG IN MLK							70.9	3.3 / 3.1	5.40		57	1240 / 4-00	190		67			100	24238 / +687	851 / +1	751 / +21			
	HERD AVG							69.8	3.3 / 3.1	5.31		56	1240 / 3-12	187		68			99	24200 / +628	850 / -2	750 / +18			
		****	L A C T A T I O N S				****	STATUS-DATE																	
H 1		119 / 38	112 / 35	106 / 33	111 / 41	104 / 71	76 / 54	IN MILK			CAMMIE 1125	2 / 51	9-26 / 3-09	305	32662	1109 / 3.4	1047 / 3.2		101	36255 / +11172	1209 / +280	1134 / +362			
H 2		96 / 1300	96 / 1056	90 / 985	92 / 696	58 / 746	73 / 460	IN MILK			CHRIS 1	1	9-25 / 2-02	305	25388	1088 / 4.3	798 / 3.1		101	31989 / +6746	1327 / +406	964 / +185			
H 3		69 / 31	63 / 44	62 / 62	56 / 141	50 / 66	45 / 25	IN MILK			DANNA 1163	1	9-09 / 2-07	305	18637	814 / 4.4	636 / 3.4		100	22364 / -3403	952 / +11	746 / -45			
H 2		83 / 152	81 / 44	81 / 66	90 / 76	83 / 187	73 / 187	IN MILK			HEDDANA 1171	1	8-29 / 2-05	305	24426	923 / 3.8	807 / 3.3		100	30533 / +5325	1126 / +189	982 / +214			
H 3		49 / 200	42 / 87	57 / 66	51 / 54	38 / 81	46 / 44	IN MILK			JULLIA 1175	1	9-26 / 2-04	305	15852	600 / 3.8	486 / 3.1		100	19498 / -6400	720 / -232	582 / -217			
H 2		94 / 33	81 / 87	86 / 123	72 / 187	83 / 230	65 / 348	IN MILK			JUSSIE 1180	1	9-30 / 2-03	305	24074	913 / 3.8	757 / 3.1		101	30093 / +4653	1105 / +171	911 / +126			
H 3		108 / 47	90 / 100	80 / 93	69 / 123	56 / 246	43 / 93	IN MILK			NELLA 1134	2 / 38	9-13 / 3-08	305	26078	968 / 3.7	830 / 3.2		100	29207 / +3803	1055 / +119	898 / +114			
H 1		77 / 66	96 / 566	92 / 66	86 / 71	89 / 132	72 / 66	IN MILK			ROMIA 1090	3 / 44	9-02 / 4-08	305	29450	1100 / 3.7	891 / 3.0		100	31217 / +5862	1144 / +213	931 / +149			
H 3		83 / 1131	70 / 348	74 / 2425	71 / 348	72 / 1213	59 / 650	IN MILK			SUKANA 1143	2 / 52	9-29 / 3-03	305	24677	972 / 3.9	788 / 3.2		101	28625 / +3123	1098 / +162	877 / +91			
H 4		100 / 57	88 / 54	97 / 76	80 / 71		80 / 348		SOLD	7-29	TRUTHIE 950	6 / 50	6-19 / 8-09	41	3107	185 / 6.0	104 / 3.3	5	273	19602 / -2767	1009 / +255	661 / -36			

Billing for period following	7-31-97	DRPC Fees	34.25	State Fees	10.48	Lab Fees	23.45	Local Fees	6.80	Total Amount	74.98

SOMATIC CELL COUNT PROFILE DHI-520

11/95

HERDCODE

SCC OPTION: SCORE/ACTUAL
ACTUAL (NEAREST 1000)

DATE OF TEST
07 31 97

HERD AVG SCC COUNT
497

SCC SCORE TO ACTUAL CONVERSION CHART

SCCS	Cell Cnt (1000)	SCCS	Cell Cnt (1000)	SCCS	Cell Cnt (1000)
0	0-18	4	141-283	8	2,263-4,523
1	19-35	5	284-565	9	4,524-9,999
2	36-71	6	566-1,130		
3	72-141	7	1,131-2,262		

SORTED BY % OF BULK TANK SCC

BARN NAME OR COW INDEX	TEST DAY MILK		SOMATIC CELL COUNT						MASTITIS INFECT *	% BULK TANK SCC	AV. SCC W/O THIS COW & COWS ABOVE THIS COW	LACT AVG SCC SCORE	#SCC TESTS THIS LACT.	#TESTS OVER 3.9 SCC SCORE	DAYS IN MILK	DUE DATE	LACT NO	RATING
	PREVIOUS	CURRENT	TEST DATE 02-25	TEST DATE 03-25	TEST DATE 04-28	TEST DATE 05-30	TEST DATE 06-26	THIS TEST										
JULLI	74	73		17		373	2111	4223	CHR	13	438	6.9	4	3	97	4-23-98	1	D
RENNIE	83	104			18	2599	2425	2786	CHR	12	383	7.7	4	3	84		8	C
TRINETA	73	76				19	100	2599	NEW	8	345	5.4	3	1	42		3	D
HESPERA	89	90	41	3430	985	1300	1056	1715	CHR	6	316	7.1	10	9	248	5-05-98	4	A
NANBELA	39	35	54	93	1300	566	4526	3940	CHR	5	286	4.7	11	4	304	10-04-97	1	E
ELSIE		52						1838	NEW	4	267	7.2	1	1	30		3	
JENETTA	57	62	20	1838	746	1393	2786	1715	CHR	4	245	5.6	11	8	289	1-19-98	2	A
TREASY	93	84	13	1056	1056	1131	1213	1131	CHR	4	227	6.7	8	7	199	2-24-98	4	A
TRICEY	37	40	41	1131	3676	460	5972	1838	CHR	3	211	6.8	10	9	272	11-06-97	1	E
JETTA	60	44	54	31	492	800	650	1300	CHR	2	199	4.4	10	5	274	11-07-97	1	B
ELISE	65	61	13	17	31	41	283	1056	CHR	2	185	2.6	7	2	189	1-18-98	3	D
CRISANA	55	53	33	76	71	214	187	985	NEW	2	174	3.1	12	2	341	2-08-98	2	B
CHRIS	73	70	23	985	696	746	460	800	CHR	2	163	5.4	12	10	310	5-04-98	1	A
JENELLA	38	31	492	230	174	1213	985	919	CHR	1	156	4.4	15	7	413	1-01-98	4	B
HEDIANA	67	63	13	857	746	2599	746	650	CHR	1	148	6.6	8	7	209	2-02-98	3	D
ELISA	53	75				19		566	NEW	1	139	5.5	2	1	47		1	C
JUSSIE	65	63	23	123	187	230	348	566	CHR	1	132	3.7	10	4	305	11-14-97	1	A
HETTA	73	54	25	123	33	214	348	492	CHR	1	126	2.4	11	3	285	10-27-97	3	B
JOANNE	59	51	33	132	62	132	62	460	NEW	1	121	2.9	17	1	481	10-06-97	5	B
SUKANA	59	60	23	2425	348	1213	650	460	CHR	1	115	5.8	11	9	306	4-01-98	2	A
MAGENTA	78	65		17	6400	325	214	429	CHR	1	109	5.7	5	4	108	4-21-98	2	E
HELIANE	87	87	15	566	31	50	41	325	NEW	1	103	3.0	.6	2	135	4-17-98	2	C
TRICTIA	75	67		17	348	566	1056	325	CHR	1	99	5.4	.5	4	112	3-26-98	1	E
LADORE	74	89	31	57	187	71	81	303	CHR	1	93	3.5	9	3	234	1-15-98	2	A
TRICANE	41	34	1393	141	566	132	187	373	CHR	0	90	4.3	13	6	363	10-25-97	1	C
MARA	74	35			18	919	71	348	NEW	0	87	4.5	4	2	69		2	E
NELLA	43	23	23	93	123	246	93	264	NEW	0	85	2.5	12	2	322	9-13-97	2	A
HETTE	48	53	13	71	214	174	152	230	NEW	0	83	3.4	8	2	193	3-01-98	1	E
DOMIE3	63	72			18	214	100	214	NEW	0	79	3.7	4	2	71		1	D
NOELLE	70	77	71	81	35	81	66	214	NEW	0	76	2.7	7	1	166	3-11-98	1	C
DOMINA	90	71	15	152	107	123		200	NEW	0	72	3.5	5	1	153	3-24-98	3	D
JULLIA	46	32	23	66	54	81	44	200	NEW	0	71	2.5	12	2	309	12-29-97	1	D
HEDIANE	89	86		17	66	87	81	162		0	68	2.9	4	0	103	4-16-98	2	D
HEDDANA	73	75	27	66	76	187	187	152		0	65	2.8	11	1	337	12-16-97	1	A
HEDDIA	125	100	15	230	19	35	33	132		0	63	2.2	5	1	144	3-12-98	4	B
HELLI	71	63	47	81	62	62	76	123		0	61	2.5	10	0	288	9-30-97	1	A
BIANNE		99				19		123		0	58	3.3	1	0	40		7	
ROSEBUD	90	106	15	93	47	66	47	115		0	55	2.5	5	0	146	3-17-98	8	B
HELLETI	84	100		17	44	50	29	107		0	53	2.0	4	0	102		2	C
ESTEE	80	75	13	857	23	44	22	100		0	51	2.2	7	1	201	2-24-98	2	A
HESTER	120	112	15	31	23	44	50	100		0	48	1.8	5	0	149		3	A
ROMIA	72	69	23	66	71	132	66	87		0	47	2.6	11	1	333	11-28-97	3	A
CAMMIE	76	82	23	33	41	71	54	87		0	45	2.0	11	1	309	1-07-98	2	A
HELOISA	78	69	123	33	50	57	81	81		0	43	2.4	6	0	173	3-17-98	1	C
HESPRIA	48	56	115	47	54	141	162	81		0	42	2.6	8	0	221	4-16-98	2	D

* NEW * Animals with SCC Score > 4 (200,000) for the first time this lactation.
* CHRONIC * SCC Score > 4 (200,000) this test, and 2+ consecutive test dates this lactation
* PRV * SCC Score > 4 (200,000) 2+ consecutive test dates this lactation.

SOMATIC CELL COUNT PROFILE DHI-520

11/96

HERDCODE

SCC OPTION, SCORE/ACTUAL: ACTUAL (NEAREST 1000)

DATE OF TEST: 07 31 97

HERD AVG. SCC COUNT: 497

SCC SCORE TO ACTUAL CONVERSION CHART

SCCS	Cell Cnt (1000)	SCCS	Cell Cnt (1000)	SCCS	Cell Cnt (1000)
0	0-18	4	141-283	8	2,263-4,523
1	19-35	5	284-565	9	4,524-9,999
2	36-71	6	566-1,130		
3	72-141	7	1,131-2,262		

SORTED BY % OF BULK TANK SCC

BARN NAME OR COW INDEX	TEST DAY MILK		SOMATIC CELL COUNT						MASTITIS INFECT *	% BULK TANK SCC	AV. SCC W/O THIS COW & COWS ABOVE THIS COW	LACT AVG SCC SCORE	#SCC TESTS THIS LACT.	#TESTS OVER 3.9 SCC SCORE	DAYS IN MILK	DUE DATE	LACT NO.	RATING
	PREVIOUS	CURRENT	TEST DATE 02-25	TEST DATE 03-25	TEST DATE 04-28	TEST DATE 05-30	TEST DATE 06-26	THIS TEST										
CRISTIA	92	88	41	87	87	696	41	71		0	40	2.7	9	1	253	3-16-98	2	A
ROSBUDA	85	88		17	57	76	44	71		0	38	2.3	4	0	106	3-25-98	1	C
DOMINI	84	77	41	44	50	93	57	66		0	37	2.0	9	0	248	3-20-98	2	A
RENNIA	98	111		17	93	54	27	66		0	34	2.1	4	0	104	4-16-98	1	C
ELLENA	62	48	41	41	38	50	606	57		0	33	2.5	9	0	264	4-02-98	1	D
CHRISTY	40	69	13	115	38		23	50		0	32	3.0	5	1	185	4-27-98	1	C
NANELIA	53	82				19	214	50		0	31	3.1	2	0	60		2	E
ROSABEL	66	80				19	115	50		0	29	2.6	2	0	55		1	C
ROSEY	73	70	15	41	44	152	44	47		0	27	2.2	5	0	147		6	D
LETTA		100						44		0	25	1.8	0	0	21		3	
MARIA	91	83	303	29	50	200	20	41		0	23	2.4	6	2	163	4-21-98	2	D
JEWEL	69	65		29	33	71	27	35		0	22	1.5	5	0	159	3-05-98	1	D
MISSY	57	53	66	71	25	41	66	35		0	21	2.0	8	0	224	12-16-97	1	E
HEDINIA	86	82	15	31	18	31	18	29		0	20	1.0	5	0	146		3	C
HELTIAN	67	74				19	38	27		0	19	1.4	2	0	49		1	B
JELLY	94	91		17	33	87	27	23		0	17	1.6	4	0	110		1	D
MIMI	84	38	41	27	18	41	13	20		0	17	1.7	9	1	246	1-07-98	2	A
HESTERA	78	77		17	33	44	17	20		0	16	1.1	4	0	119		1	C
DANNA	45	44	23	62	141	66	25	19		0	15	1.5	11	0	326	5-04-98	1	B
HESSIE	75	92	15		41	57	107	17		0	13	1.9	4	0	133		3	C
JULIANI		80				19	29	13		0	0	0.7	2	0	40		1	
COWS IN MILK-NO SCC REPORTED																		
HELETIA	137	121			18	38	13				0	0.9	3	0	82		4	B

* NEW * Animals with SCC Score > 4 (200,000) for the first time this lactation.
* CHRONIC * SCC Score > 4 (200,000) this test, and 2+ consecutive test dates this lactation
* PRV * SCC Score > 4 (200,000) 2+ consecutive test dates this lactation.

11/96

HERDCODE	DATE OF TEST
	07 31 97

SOMATIC CELL COUNT SUMMARY DHI-521

Herd Average SCC By Test Day										
	Test Day 12-05	Test Day 12-31	Test Day 01-28	Test Day 02-25	Test Day 03-25	Test Day 04-28	Test Day 05-30	Test Day 06-26	Test Day 07-31	Reg Av. Top 25%
Weighted Av. SCC	496	673	596	836	559	274	341	390	497	162
Av. Linear Score	3.8	4.0	3.8	4.3	3.5	3.0	3.7	3.3	3.9	2.1

SCC Summary				
SCC Actual	SCC Score	Animals	Herd %	Reg. Top 25%
< 100	< 3.1	27	41	70
100-200	3.1-4.0	9	14	15
201-400	4.1-5.0	9	14	6
401-800	5.1-6.0	8	12	4
> 800	> 6.0	13	19	3

Milk Loss Per Day		
	Per Milking Cow	Per Herd
Lbs	2.8	190
Dollar	$0.32	$21.40

Stage Of Lactation Profile								
	Lact #	Days in Milk This Test Day					Total	Reg Av. Top 25%
		1 - 40	41 - 100	101 - 199	200 - 305	306 +		
Number Cows	1	1	5	10	7	5	28	31
	2		2	5	7	4	18	23
	3+	3	3	9	3	3	21	33
	All	4	10	24	17	12	67	87
Average Milk	1	80	75	77	49	51	66	49
	2		59	84	69	55	66	66
	3+	84	100	86	69	50	77	71
	All	82	78	82	62	52	71	63
Average SCC Score or Actual	1	13	995	103	911	342	461	140
	2		140	200	326	425	295	180
	3+	450	2707	279	1073	384	379	225
	All	344	1304	193	669	381	497	162
% >4.0 SCC Score (200,000 Actual)	1		60	30	57	40	42	10
	2		50	40	28	75	44	12
	3+	33	100	22	100	66	50	16
	All	25	66	29	52	58	45	15
Number New Infect.	1		2	2		1	5	
	2		1	1		2	4	
	3+	1	1	1		1	4	
	All	1	4	4		4	13	
Number Chronic Infect.	1		1	1	4	2	8	
	2			1	2	1	4	
	3+		1	2	3	1	7	
	All		2	4	9	4	19	

Dairy Management Problems - 5 points each

The following information should be used in calculating answers for questions 31-33.

A herd is fed the following ration in a TMR:

	as-fed basis			100% dry matter basis	
Feed	lb/cow/day	Cost	% moisture	% CP	Mcal of NE-l
Corn silage	30	$25.00/ton	65	8	.65
Alfalfa haylage	30	$60.00/ton	55	20	.68
Corn grain	15	$2.80/bu	90	10	.92
Soybean meal	4	$260.00/ton	90	49	.84
Whole cottonseed	5	$220.00/ton	90	23	1.01

31. How many pounds of dry matter would each cow be fed per day?

a) 84.0 b) 46.5 c) 45.6 d) 44.0

32. What is the percent crude protein (100% dry matter basis) of this ration?

a) 15.6 b) 16.9 c) 17.9 d) 21.0

33. What is the cost per cow per day for this ration (as-fed basis)?

a) $2.65 b) $2.95 c) $3.10 d) $3.25

Use the following information to calculate answers for questions 34 and 35:

Most Iowa dairy producers are now paid for their milk under a system that pays for various components rather than volume. A producer is paid the following amounts:

$ 1.55 per pound of protein
$ 1.17 per pound of milk fat
$ 0.36 per pound of other solids
$ 0.01 per cwt. for every 10,000 SCC below 400,000

One producer marketed 350,000 lb. of milk that contained 3.22% protein, 3.97% milk fat, 5.66% other solids, and 170,000 SCC.

34. What is the total value of the milk marketed?

a) $40,857.25 b) $41,854.75 c) $39,855.00 d) $38,856.55

35. How much additional income did this producer receive for producing high quality milk?

a) $80.50 b) $805.00 c) $8,050.00 d) $80,500.00

Holstein Sire Summary

NAAB CODE	SIRE NAME		NM $$	RK	PRO LBS	PRO %	R	MILK	FAT LBS	FAT %	MF $$	MFP $$	SCS	R	PL	R	SAMPLING INFO NO. HRDS	NO. DAUS	CD	BREED ASSOC TYPE DATA PTAT	R	TPI™	NAAB C.E % DB	R
	USDA - DHIA GENETIC EVALUATIONS PREDICTED TRANSMITTING ABILITIES																							
7H4637	LADYS-MANOR WINCHESTER-ET	*TL	265	99	84	-0.04	80	3004	102	-0 03	367	343	3 32	64	2 5	44	44	55	S	1 18	76	1607	8	70
11H3243	MAIZEFIELD BELLWOOD-ET	*TL	260	99	85	0 01	90	2655	101	0.01	333	333	3 01	78	1 9	65	98	122	S	1 12	86	1564	8	99
29H7673	EASTVIEW INFLUENCE MATTIE G	*TL	253	99	92	0 08	82	2363	84	-0.01	292	324	3 17	67	2 2	45	51	75	S	1 59	79	1677	11	86
1H967	ZIELLAND ZEBO	*TL	247	99	81	-0 05	79	2968	96	-0 05	359	331	3 03	59	0 9	55	20	40	O	1 97	72	1640	10	98
7H4295	EMERALD-ACRES-SA THAD-ET	*TL	247	99	76	0 02	81	2262	91	0.04	288	295	3 10	67	3 3	58	27	82	O	1 69	78	1581	10	98
76H137	DERRWYN SELECT-ET	*RC	245	99	86	0.00	78	2707	85	-0.06	325	324	3.25	60	1 7	43	32	44	S	0 75	77	1468	10	66
7H4624	DE-SU AEROSTAR SPACE-ET	*TL	244	99	94	0 07	78	2475	77	-0.06	297	326	3 23	61	1 5	43	39	45	S	0 60	76	1548	7	67
7H4638	RICECREST TESK TERRY	*TL	241	98	82	0.01	80	2533	68	-0 11	295	297	3.14	65	2 8	47	49	58	S	2 12	83	1583	8	76
14H2090	HA-HO CUBBY MANFRED-ET	*TL	240	98	83	0 04	83	2346	88	0 01	293	309	3 32	66	2 4	55	45	56	S	1 10	80	1542	7	77
7H4523	KERNDTWAY GOLDFINGER	*TL	236	98	83	0 03	85	2447	81	-0 04	297	307	3 31	69	2 1	58	48	59	S	0 72	81	1484	7	69
7H4654	REIFF-FARM MASCOT JAVLIN-ET	*TL	229	98	79	0 02	78	2403	81	-0 03	293	297	3 09	62	1 6	44	40	47	S	1 11	74	1468	10	69
7H3847	AMELDIN II PONTIAC HUNTER	*TL	223	98	73	0 00	88	2362	68	-0 08	279	274	2 99	75	2 2	62	71	81	S	0 47	81	1360	10	99
1H4333	PAULO-BRO RTL DEMAND TCG-ET	*TL	221	98	84	0 02	69	M 2485	70	-0 09	292	301	3 07	61	0 6	50	119	133	S	1 69	70	1589	7	63
1H4316	CORNER-PINES AMBITION-ET	*TL	221	98	73	0.07	86	1782	81	0 07	234	266	3 16	72	3 0	60	64	71	S	0 57	83	1402	9	78
7H4211	END-ROAD BLACKSTAR MAJIC-ET	*TL	221	98	69	-0.03	83	2448	84	-0.02	300	281	3 27	67	2 3	62	31	54	O	1 66	78	1440	7	98
9H1736	NORRIELAKE LEAD ELEMENT-ET	*TL	142	50	56	0 06	89	1374	65	0 07	183	207	3 35	75	0 1	64	71	89	S	0 71	86	1203	8	80
122H1116	ARLINDA RIK-ET		142	50	50	0 09	85	988	71	0 16	151	187	3 25	71	1 1	56	45	84	S	0 53	85	1163	6	68
9H1698	BESHORE LEADMAN PLUNK-ET	*TL	142	50	48	-0 03	87	1719	30	-0 15	187	173	3 25	73	2 0	62	58	67	S	0 73	83	1099	6	97
2144	ZONNEVELD PRIDE-ET	*TL	142	50	48	0 00	73	1555	28	-0 13	170	167	2 99	61	1 7	47	22	54	M					
7H4164	SECOND-LOOK JOLT	*TL	142	50	43	0 05	82	1050	64	0 12	151	170	3 18	65	2 0	56	37	42	S	2 70	77	1352	11	98

Use the information in the table above (taken from the of the August, 1997 Holstein Sire Summary) to determine the best answer to questions 36-40.

Sire Evaluation Questions - (5 points each)

36. The PTAM for Arlinda Rik-ET is +988 and for Maizefield Bellwood is +2655. On average, daughters of Bellwood are expected to produce:
    a) 1677 lb. more milk during each lactation than daughters of Rik in herds that have average production.
    b) progeny that are expected to produce 834 lb more milk on average during each lactation than granddaughters of Rik.
    c) more than 1677 lb more milk during each lactation than daughters of Rik in herds that have high production.
    d) all of the above
    e) none of the above

37. The owner of a commercial Holstein herd is comparing 4 bulls as potential service sires for milking cows. The herd sells milk on a Multiple Component pricing system, and is looking to maximize net income for the herd. The four bulls being considered are: Zielland Zebo, Emerald-Acres-SA Thad-ET, Ameldin II Pontiac Hunter, and De-Su Aerostar Space-ET.
    a) Thad should be used as a service sire because he is "plus" for both fat % and protein %. Thus his daughters are expected to produce more total net income from milk sales.
    b) This herd owner should buy semen from Zebo, because Zebo has the highest NM$.
    c) Reliability is highest for Hunter, so he is the best bull choice for this commercial herd.
    d) Although Space is -0.06 for PTA%F, he is the highest bull for PTA%P, and would help the herd improve protein %. These genetic data show that Space is the best choice to increase the farms net profitability.

38. We know that SCS is an indicator of mastitis, however, there is very little variability among bulls in the Sire Summary for PTA SCS. In a sire selection program for a commercial dairy herd,
    a) the PTA SCS is an important selection criteria, but it is considered in TPI, so it can be ignored when bulls are compared.
    b) this low variability among bulls indicates that including PTA SCS in a selection program will have little impact on net profitability, and is unimportant for sire selection decisions.
    c) the PTA SCS for Ha-Ho Cubby Manfred-ET is higher than the PTA SCS for Ameldin II Pontiac Hunter, and this indicates that daughters of Ha-Ho Cubby Manfred-ET will be more resistant, and so will have fewer cases of mastitis.
    d) Both a) and c) are correct.
    e) None of the above.

39. A small herd in NE Iowa earns more than 93% of dairy income from milk sales. The herd owner would like to begin breeding heifers to AI bulls, and has suggested the following potential service sires. Indicate the bull that likely would be the best choice for this situation
    a) Maizefield Bellwood-ET
    b) Arlinda Rik-ET
    c) Angus bull
    d) Eastview Influence Mattie G

40. As more information is learned about lower reliability bulls, PTA's for these bulls may change in subsequent Sire Summaries. Identify the bull whose Productive Life PTA may change the most during subsequent summaries
    a) End-Road Blackstar Majic-ET
    b) Ameldin II Pontiac Hunter
    c) Maizefield Bellwood-ET
    d) Norrielake Lead Element-ET

Pedigree Evaluation - 50 points

The pedigrees of four animals are listed on the following pages. Rank these animals based on their pedigrees and indicate your ranking on the answer sheet in the "judging scorecard" in the third column under the Pedigree Evaluation heading.

OFFICIAL AJCA PERFORMANCE PEDIGREE

DATE ISSUED 12-12-96 (T 419672)

FEMALE
AMES BERRETTA PAULINE
003976975 ****
BORN 06-29-96 *P9*
TATTOO A1541 A1541 ****

OWNER 21565
DAIRY SCIENCE DEPT
123 KILDEE HALL
AMES IA 50011-0001

BREEDER 21565
DAIRY SCIENCE DEPT
123 KILDEE HALL
AMES IA 50011-0001

PA +1394M +36F +55P +172PS +195CYS
+2.5 TYPE +313PTI

REG. NUMBER	BIRTHDATE	TATTOO

ST	SR	BD	DF	RA	TW	RL	FA
+1.3	+0.2	0.0	+2.8	L0.8	+0.3	P1.0	S1.1

FU	RH	RW	UC	UD	TP	TL
+0.2	+2.1	+2.1	+0.8	D0.1	C1.4	L0.8

SOLDIERBOY BOOMER SOONER OF CJF
000640211 7J159
USDA 7/96 15457 DAUS 1732 HRDS 12% R
99%R +1599M -.34% + 22F 58%ILE
99%R -.11% + 43P +154PS +148CYS
AJCA 7/96 10307 DAUS 100%U
PTAT 99%R +2.9 PTI 99%R +245

OSB E SETTLER SHADOW MAGGIE 9
003459978 OSB D192
2-00 304 2 15530 5.0 778 3.7 576 DH
3-00 305 2 20040 5.1 1020 3.8 754 DH
4-03 305 2 26200 4.3 1125 4.01040 DH
5-06 305 2 25000 4.3 1068 4.11031 DH
6-11 305 2 27340 4.3 1179 4.21154 DH
8-10 305 2 25870 4.0 1036 3.91018 DH
305 2X ME AVG 6L 24,889M 1095F 97
PPA +4494M +198F +198P +647PS +757CY
USDA PTA 7/96 5RECS 65%R 99%ILE
+1014M + 42F + 55P +160PS +202CYS
AJCA 7/96 PTAT 51%R +0.6 PTI 62%R +

MASON BOOMER SOONER BERRETTA
000651835 YSP 7J254
USDA 7/96 793 DAUS 302 HRDS 24% RIP
97%R +1417M -.23% + 31F 97%ILE
97%R +.07% + 64P +184PS +222CYS
AJCA 7/96 562 DAUS 100%USA
PTAT 95%R +3.6 PTI 96%R +389

AMES HERMITAGE PAULINE
003832126 A1219 A1219
DHI HERD #42-85-0274 CONTROL #07920
1-10 305 3 18030 4.0 725 3.5 629 DHIR
305 2X ME AVG 1L 19,082M 767F 666P
2-00 77% 2-08 78%

ST	SR	BD	DF	RA	TW	RL	FA
28	31	33	27	27	25	29	22

FU	RH	RW	UC	UD	TP	TL
23	29	28	27	24	22	21

PPA +3335M + 70F +103P +358PS +369CYS
USDA PTA 7/96 1REC 43%R 99%ILE
+1370M + 41F + 45P +160PS +169CYS
AJCA 7/96 PTAT 49%R +1.4 PTI 42%R +237

REBOB DUNCAN HERMITAGE-ET
000646854 7J207
USDA 7/96 4272 DAUS 1060 HRDS 27% F
99%R +1051M +.02% + 52F 46%ILE
99%R +.00% + 39P +144PS +158CYS
AJCA 7/96 2210 DAUS 97%U
PTAT 99%R +1.3 PTI 99%R +232

AMES SOONER PAULINE
003721318 A1024 A1024
DHI HERD #42-85-0274 CONTROL #07
2-00 305 3 16070 4.0 649 3.5 562 D
3-00 119 3 5620 4.7 265 3.6 200 D
305 2X ME AVG 1L 17,543M 698F 6
PPA +2942M + 42F + 78P +283PS +271C
USDA PTA 7/96 2RECS 49%R 96%ILE
+1261M + 21F + 38P +130PS +133CY
AJCA 7/96 PTAT 47%R +1.9 PTI 47%R

OFFICIAL AJCA PERFORMANCE PEDIGREE

DATE ISSUED 12-12-96 (1 419672)

FEMALE
AMES ALF DELLA
003976972 ****
BORN 06-20-96 *P8*
TATTOO A1535 A1535 ****

PA +710M +53F +39P +128P$ +158CY$
+1.3 TYPE +253PTI

ST	SR	BD	DF	RA	TW	RL	FA
-0.1	+1.1	+0.7	+0.8	LO.3	+0.5	SO.2	SO.4

FU	RH	RW	UC	UD	TP	TL
+0.8	+1.1	+1.1	+1.5	SO.7	C1.2	LO.3

OWNER 21565
DAIRY SCIENCE DEPT
123 KILDEE HALL
AMES IA 50011-0001

(2)

BREEDER 21565
DAIRY SCIENCE DEPT
123 KILDEE HALL
AMES IA 50011-0001

REG. NUMBER BIRTHDATE TATTOO

J. S. QUICKSILVER ROYAL
000634142 3J234
USDA 7/96 12290 DAUS 2013 HRDS 1% R
99%R + 76M +.16% + 26F 08%ILE
99%R +.10% + 17P +48P$ +72CY$
AJCA 7/96 6510 DAUS 100%U
PTAT 99%R +0.4 PTI 99%R +115

GREENRIDGE FW CHIEF ALTHEA-ET 9
003507678 GR1868

2-02	305	3	17750	5.0	881	3.9	686	DH
3-02	305	2	18950	4.7	892	3.8	712	DH
4-11	305	2	20560	4.7	970	3.9	809	DH
6-00	305	2	20360	4.5	913	3.8	777	DH
8-04	41	2	3360	4.3	144	3.7	124	DH
10-04	305	2	21240	4.1	862	3.9	832	DH

305 2X ME AVG 5L 21,036M 948F 80
PPA +4047M +203F +183P +607P$ +714CY
USDA PTA 7/96 4RECS 84%R 99%ILE
+1247M + 70F + 66P +207P$ +256CY$
AJCA 7/96 PTAT 50%R +0.2 PTI 77%R +

COMFORT ROYAL ALF-ET
000651068 YSP 1J382
USDA 7/96 37 DAUS 25 HRDS 8% RIP
75%R +1042M +.06% + 58F 82%ILE
75%R +.08% + 52P +168P$ +203CY$
AJCA 7/96 25 DAUS 100%USA
PTAT 56%R +1.2 PTI 69%R +318

AMES BROOK DELLA
003613404 A1192 A1192
DHI HERD #42-85-0274 CONTROL #07913

2-00	305	3	14530	5.2	753	3.7	542	DHIR

305 2X ME AVG 1L 14,772M 759F 547P
2-03 86%

ST	SR	BD	DF	RA	TW	RL	FA
20	21	32	33	31	20	32	18

FU	RH	RW	UC	UD	TP	TL
35	34	32	37	27	38	22

PPA + 521M +112F + 39P +162P$ +201CY$
USDA PTA 7/96 1REC 45%R 84%ILE
+ 578M + 48F + 25P +89P$ +112CY$
AJCA 7/96 PTAT 47%R +1.4 PTI 43%R +188

MOLLY BROOK BRASS MAJOR
000644248 29J2865
USDA 7/96 2971 DAUS 747 HRDS 35% R
99%R +1093M +.11% + 68F 73%ILE
99%R +.01% + 42P +162P$ +179CY$
AJCA 7/96 1763 DAUS 100%U
PTAT 98%R +3.7 PTI 98%R +324

AMES ROYAL DELLA 7
003526975 A9691 A9691
DHI HERD #42-85-0274 CONTROL #07

2-04	292	2	10660	5.6	598	4.1	438	DH
3-04	305	2	13370	5.5	739	4.2	560	DH
4-05	305	3	16750	5.5	917	4.0	676	DH
5-07	299	3	11250	5.4	613	4.1	466	DH
6-07	50	3	2240	4.8	108	4.0	89	DH

305 2X ME AVG 4L 12,367M 673F 5
PPA -1499M + 27F - 10P -64P$ -10CY$
USDA PTA 7/96 5RECS 56%R 45%ILE
- 248M + 26F + 10P +22P$ +50CY$
AJCA 7/96 PTAT 50%R -0.7 PTI 52%R

OFFICIAL AJCA PERFORMANCE PEDIGREE

DATE ISSUED 12-12-96 (T 419672)

FEMALE
AMES ALF DEEDEE
003976971 ****
BORN 06-16-96 *P4*
TATTOO A1529 A1529 ****

OWNER 21565
DAIRY SCIENCE DEPT
123 KILDEE HALL
AMES IA 50011-0001
BREEDER 21565
DAIRY SCIENCE DEPT
123 KILDEE HALL
AMES IA 50011-0001

(3)

REG NUMBER BIRTHDATE TATTOO

PA +505M +43F +29P +96P$ +119CY$
+0.4 TYPE +187PTI

ST	SR	BD	DF	RA	TW	RL	FA
+0.7	+1.2	+0.7	-0.4	LO.3	+0.8	SO.3	SO.1

FU	RH	RW	UC	UD	TP	TL
+0.1	+0.4	+0.3	+0.6	DO.1	CO.7	LO.3

J. S. QUICKSILVER ROYAL
000634142 8J234
USDA 7/96 12290 DAUS 2013 HRDS 1% RI
99%R + 76M +.16% + 26F 08%ILE
99%R +.10% + 17P +48P$ +72CY$
AJCA 7/96 6510 DAUS 100%US
PTAT 99%R +0.4 PTI 99%R +115

GREENRIDGE FW CHIEF ALTHEA-ET 9
003507678 GR1868
2-02 305 3 17750 5.0 881 3.9 686 DHI
3-02 305 2 18950 4.7 892 3.8 712 DHI
4-11 305 2 20560 4.7 970 3.9 809 DHI
6-00 305 2 20360 4.5 913 3.8 777 DHI
8-04 41 2 3360 4.3 144 3.7 124 DHI
10-04 305 2 21240 4.1 862 3.9 832 DHI
305 2X ME AVG 5L 21,036M 948F 80
PPA +4047M +203F +183P +607P$ +714CY
USDA PTA 7/96 4RECS 84%R 99%ILE
+1247M + 70F + 66P +207P$ +256CY$
AJCA 7/96 PTAT 50%R +0.2 PTI 77%R +

COMFORT ROYAL ALF-ET
000651068 YSP 1J382
USDA 7/96 37 DAUS 25 HRDS 8% RIP
75%R +1042M +.06% + 58F 82%ILE
75%R +.08% + 52P +168P$ +203CY$
AJCA 7/96 25 DAUS 100%USA
PTAT 56%R +1.2 PTI 69%R +318

AMES BRIGADIER DEEDEE
003700504 A1012 A1012
DHI HERD #42-35-0274 CONTROL #07895
1-11 305 3 12970 5.3 682 3.9 509 DHIR
3-00 305 3 16800 5.0 845 3.7 614 DHIR
4-02 300 3 14320 5.3 763 3.8 548 DHIR
305 2X ME AVG 3L 14,248M 736F 538P
2-09 64% 3-06 76%

ST	SR	BD	DF	RA	TW	RL	FA
35	32	25	26	28	32	16	35

FU	RH	RW	UC	UD	TP	TL
27	25	28	23	25	19	37

PPA + 562M + 67F + 19P +102P$ +106CY$
USDA PTA 7/96 3RECS 51%R 47%ILE
- 32M + 27F + 5P +25P$ +35CY$
AJCA 7/96 PTAT 49%R -0.5 PTI 48%R + 55

BUSH RIVER BRIGADIER-ET
000641781 29J2840
USDA 7/96 5734 DAUS 1214 HRDS 3% R
99%R + 324M +.28% + 56F 12%ILE
99%R +.04% + 18P +32P$ +96CY$
AJCA 7/96 3530 DAUS 100%U
PTAT 99%R +1.0 PTI 99%R +141

AMES JIM DEEDEE 7
003414390 A9293 A9293
DHI HERD #42-35-0274 CONTROL #078
1-11 305 2 10700 4.5 478 3.8 405 DH
3-00 305 2 12880 4.8 618 3.8 495 DH
4-01 281 2 14020 4.7 660 3.8 534 DH
5-01 297 2 11170 4.6 512 3.8 422 DH
6-02 305 3 15590 4.3 678 3.7 574 DH
7-05 272 3 14190 4.5 644 3.7 530 DH
305 2X ME AVG 8L 13,743M 640F 51
PPA - 610M - 34F - 22P -85P$ -92CY$
USDA PTA 7/96 5RECS 57%R 14%ILE
- 423M - 11F - 10P -42P$ -39CY$
AJCA 7/96 PTAT 43%R -0.8 PTI 51%R

OFFICIAL AJCA PERFORMANCE PEDIGREE

DATE ISSUED 05-15-96 (T 406665)

FEMALE
AMES GLENWOOD JOY
003950743 ****
BORN 02-12-96 *P6*
TATOO A1502 A1502 ****

PA +1263M +39F +34P +136P$ +132CY$
+1.8 TYPE +220PTI

OWNER 21565
DAIRY SCIENCE DEPT
123 KILDEE HALL
AMES IA 50011-0001

(4)

BREEDER 21565
DAIRY SCIENCE DEPT
123 KILDEE HALL
AMES IA 50011-0001

ST	SR	BD	DF	RA	TW	RL	FA
+1.4	+0.1	+0.4	+2.7	H0.1	+0.5	0.0	0.0

FU	RH	RW	UC	UD	TP	TL
0.0	+1.3	+1.3	-0.4	S0.3	W0.2	L0.7

REG NUMBER BIRTHDATE TATOO

HIGHLAND MAGIC DUNCAN
000635862 7J177
USDA 1/96 10436 DAUS 1488 HRDS 1% R
99%R + 745M +.08% + 47F 29%ILE
99%R +.00% + 27P +108P$ +117CY$
AJCA 1/96 8073 DAUS 100%U
PTAT 99%R +1.9 PTI 99%R +213

TOP B WANDAS WILEEN OF GLENWOOD 8
003386212 G32E
1-10 305 2 12840 4.9 624 3.4 439 DH
2-11 305 2 17410 5.5 954 3.5 607 DH
4-01 305 2 11750 4.6 543 3.5 410 DH
5-02 305 2 13270 4.5 601 3.4 450 DH
305 2X ME AVG 4L 15,171M 731F 51
PPA +2147M + 85F + 27P +198P$ +141CY
USDA PTA 1/96 4RECS 70%R 85%ILE
+ 842M + 30F + 15P +82P$ +67CY$
AJCA 1/96 PTAT 50%R +1.4 PTI 67%R +

DUNCAN DUKE OF GLENWOOD
000649231 YSP 29J2910
USDA 1/96 345 DAUS 185 HRDS 79% RIP
94%R +1671M -.10% + 63F 91%ILE
94%R -.14% + 41P +183P$ +171CY$
AJCA 1/96 124 DAUS 100%USA
PTAT 86%R +2.5 PTI 88%R +293

AMES SOONER JOY
003700505 A1013 A1013
DHI HERD #42-85-0274 CONTROL #07896
2-09 305 3 18750 3.6 671 3.4 640 DHIR
3-10 280 3 17520 4.0 708 3.4 595 DHIR
305 2X ME AVG 2L 16,492M 618F 553P
2-09 74% 3-06 81%

ST	SR	BD	DF	RA	TW	RL	FA
34	31	28	31	32	28	32	35

FU	RH	RW	UC	UD	TP	TL
33	26	25	28	35	23	26

PPA +2142M - 21F + 38P +141P$ +101CY$
USDA PTA 1/96 3RECS 50%R 88%ILE
+ 854M + 14F + 27P +90P$ +94CY$
AJCA 1/96 PTAT 49%R +1.0 PTI 50%R +147

SOLDIERBOY BOOMER SOONER OF CJF
000640211 7J159
USDA 1/96 14305 DAUS 1677 HRDS 11% F
99%R +1570M -.33% + 22F 66%ILE
99%R -.11% + 42P +151P$ +145CY$
AJCA 1/96 9419 DAUS 100%
PTAT 99%R +3.0 PTI 99%R +243

AMES HAUG JOY
003479337 A9597 A9597
DHI HERD #42-85-0274 CONTROL #07
2-01 305 2 13290 5.1 681 4.0 525 D
3-01 305 2 15220 5.2 795 4.2 633 D
4-08 305 3 16170 4.9 798 3.9 637 D
5-10 305 3 18750 4.6 869 3.9 724 D
6-11 187 3 9790 4.8 473 4.0 393 D
305 2X ME AVG 5L 16,240M 796F 6
PPA +1152M +121F + 85P +268P$ +352C
USDA PTA 1/96 5RECS 52%R 78%ILE
+ 117M + 42F + 21P +67P$ +96CY$
AJCA 1/96 PTAT 46%R -1.4 PTI 51%R