



**New Mexico FFA**

# **Dairy Cattle Evaluation**

**Career Development Event**

# Dairy Cattle Career Development Event

Revised 7/25/2023

---

## PURPOSE

To provide a competitive event for agricultural education students, emphasizing skills in dairy cattle selection and dairy herd management.

## OBJECTIVES

- To provide agricultural students with dairy interest and a practical experience which will serve them well in industry positions or in management of a modern dairy herd.
- To develop students' skills in observation, analysis and communication.
- To provide experience in evaluation of dairy cattle type, production records and dairy herd management.
- To encourage agricultural instructors to seek assistance from various resources in the dairy industry. (Example - dairy breed associations, artificial breeding associations, state extension dairy specialist, state DHI Associations, dairy equipment manufacturers, local dairy farmers and breeders, etc.)

## COMMON CORE REFERENCES

### 7th Grade

**MS-LS4-5.** Gather and synthesize information about the technologies that have changed the way humans influence the inheritance of desired traits in organisms.

### 8th Grade

**CCSS.ELA-Literacy.SL.8.4** Present claims and findings, emphasizing salient points in a focused, coherent manner with relevant evidence, sound valid reasoning, and well-chosen details; use appropriate eye contact, adequate volume, and clear pronunciation.

### 9-10th Grade

**CCSS.Math.Content.HSS-IC.B.6** Evaluate reports based on data

### 11-12th Grade

**HS-LS3-3.** Apply concepts of statistics and probability to explain the variation and distribution of expressed traits in a population.

## EVENT FORMAT

The Dairy Event will consist of:

- |           |   |                 |
|-----------|---|-----------------|
| <b>A.</b> | <b>General Knowledge Test (20 question, 5 pts each)</b> | <b>100 pts.</b> |
|           | 1. 50 Questions   |                 |

2. Utilize Virginia Tech Quiz Bowl resource, Odd year=Odd Chapters; Even years=even chapters

**B. Herd Record Exercise (20 questions, 5 pts each)**

**100 pts.**

1. Participants will analyze individual cow production records. (DHI) from a 50 to 75 cow herd.
2. In the herd record individual cows are to be selected according to their appropriate status for culling, breeding, or other management decision categories.
3. Each participant will answer 20 questions about individual cow production records.
4. The herd record evaluation is worth 100 points. Members will have 30 minutes to complete this exercise.
5. Students will answer with 3 digits in the herd record section of the scantron.

**C. Judging:**

**300 pts**

1. Six classes of four dairy animals will be each placed on dairy type. Classes will consist of heifers, young cows and mature cows. (Dry cows will not be used).
2. Participants will be permitted to view the animals from all angles but will not be permitted to handle them.
3. Participants will have a minimum of 12 minutes to place each class.
4. Each class is allowed 50 points for a correct placing.

**D. Two Sets of Oral Reasons**

**100 pts (50 points per class)**

1. Two of the above classes will be designated as reasons classes.
2. Oral reasons will be required on two classes which will be designated by the event supervisor prior to the actual judging of the class.
3. Oral reasons will be given immediately following the judging classes.
4. Participants will have at least 12 minutes to prepare each set of oral reasons. Not more than 2 minutes may be used to deliver the reasons before judges.
5. Participants may not use notes during delivery of reasons, with the exception of a card showing only their placing order.

## **Event Rules and Scoring**

**A Viewing Classes**

Participants will be allowed to view animals from all angles, but will not be allowed to handle them.

**B Team Members**

There may be four members to a team with the three highest individual total scores making the total for the team.

<b>C</b>	<b>Scoring Summary</b>	
	A. General Knowledge Exam.....	100 pts.
	B. Herd Record Evaluation.....	100 pts.
	C. Judging.....	300 pts.
	D. Oral	100 pts.
	<b>Total Possible Score.....</b>	<b>600 pts.</b>

## References

**Hoard's Dairyman**, P.O. Box 801, Fort Atkinson, WI 53538-0801 (920-951-563-5551)

**www.hoards.com**,

Annual Cow Judging Contest official entry form and booklet.

"Judging Guide" 1999 edition booklet, featuring Linear, analysis of scorecard, and 15 practice classes

"Focus on Linear Scoring", 1998 reference guide to linear instruction.

**CEV Multimedia, Inc.** P.O. Box 65265, Lubbock, TX 79464

1-800-922-9965

www.cev-inc.com

"Diary Cattle Judging: Cows - Video Active" # 486

"Diary Cattle Judging: Heifers - Video Active" # 487

"Diary Cattle Judging: Oral Reasons" # 489

"Judging Dairy Cows" 1987 #501

"Judging Dairy Heifers" 1987 #502

"Practice Dairy Cow Judging" 1989 #506

"Practice Dairy Heifer Judging" 1989 #507

"Linear Evaluation of Dairy Cattle: # 510

"Practice Dairy Cow Judging" 1993 I - #511; 1994 III - #514, #515

"Practice Linear Evaluation I" 1994 #516

"Linear Classification: Scoring of Linear Traits" #517

"Practice Linear Evaluation II" 1995 #520

**NCR (North Central Regional)** Publication Distribution, Printing & Pub Bldg.,

Iowa State University, Ames IS 50011-3171 (515) 294-5247

pubdist@exnet.iastate.edu

"Learning about Dairy...A Resource Guide for the 4-H Dairy Project"

Extension Bulletin NCR 593

**Instructional Materials Service (IMS)** Texas A&M Univ. 2588 TAMUS,  
College Station, TX 77843-2588 (409)845-6601  
[www.ims.tamu.edu](http://www.ims.tamu.edu)

"Diary Cattle Judging Cows" - Video #9552

"Diary Cattle Judging Heifers" -Video # 9553

"Diary Cattle Judging Fundamentals" Video # 9554A

"Diary Cattle Judging Oral Reasons" Video # 9554B

**Dennis Hartman** 2709 Mt. Vernon Lane, Blacksburg, VA 24060 (540)951-8047

"Techniques of Judging Dairy Cattle" 5th Edition

**Virginia Tech Dairy CDE Resources**

[https://www.youth.dasc.vt.edu/content/dam/youth\\_dasc\\_vt\\_edu/quiz-bowl/2023VADQBmaterials.pdf](https://www.youth.dasc.vt.edu/content/dam/youth_dasc_vt_edu/quiz-bowl/2023VADQBmaterials.pdf)

**Holstein Association** 1 Holstein Place, Brattleboro, VT 05302-0808 (802)254-4551

[www.holstein.com](http://www.holstein.com)

"Linear Classification Program"

"Pedigree Questions & Answers" and "building Your Knowledge of Sire Summaries" for pdf files of the workbooks. [www.holsteinfoundation.org](http://www.holsteinfoundation.org) then link to "programs" and then "workbooks" and scroll to "pedigree Questions & Answers" and "Build Your Knowledge of Sire Summaries."

**Agri-Graphics** 109 5th Ave., New Glarus, WI 53574 (608)527-5663

"Judging Slides and Audio Tapes, 15 classes"

**Additional Website Resource List**

American Dairy Science Association [www.adsa.uiuc.edu](http://www.adsa.uiuc.edu)

National Association of Animal Breeders [www.naab-css.org](http://www.naab-css.org)

Dairy Herd Improvement [www.dhia.org](http://www.dhia.org)

## NEW MEXICO STATE FFA DAIRY CATTLE EVENT - PEDIGREE CLASS

Revised 6/21/18

### PEDIGREE #1

**SIRE**

PTA +1893M +1F +23P TPI +647  
 PTA\$ +37CY +193F +138P  
 PTA -.48T -1.25UDC 99R

**PATERNAL GRANDSIRE**

PTA -354M -50F -39P TPI +159  
 PTA\$ -165CY -65F -106P  
 PTA -.89T -1.4UDC 99R

**DAM**

AGE	X	DAYS	MILK	%	FAT	%	PRT
2-01	3	287	15500	4.1	642	3.2	496
3-00	3	190	14440	4	583	3.3	477

**PATERNAL GRANDDAM**

AGE	X	DAYS	MILK	%	FAT
2-03	2	305	18440	3.6	658
3-02	2	305	19550	3.8	741
4-02	2	305	30650	3.3	1023
5-02	2	305	33560	2.9	968

PTA -709M -11F -14P CTPI +534  
 PTA +.22T +1.24UDC 61R

PTA +306M +3F +19P CTPI +829  
 PTA +.83T 82R

**MATERNAL GRANDSIRE**

PTA -755M +14F -3P TPI +776  
 PTA\$ +24CY -69F -38P  
 PTA +1.44T +1.43UDC 99R

**MATERNAL GRANDDAM**

AGE	X	DAYS	MILK	%	FAT
2-03	2	298	15140	3.2	485
3-03	2	279	19470	3.1	601
4-01	3	365	27630	3	829
5-09	3	365	28230	3.2	899

PTA -120M -22F -7P CTPI +463  
 PTA -.53T +.47UDC 70R

### PEDIGREE #2

**SIRE**

PTA +961M +20F +26P TPI +595  
 PTA\$ +79CY +85F +75P  
 PTA +1.89T +.07 UDC 99R

**PATERNAL GRANDSIRE**

PTA +343M +20F +6P TPI +510  
 PTA\$ +60CY +52F +45P  
 PTA +2.18T +.07UDC 99R

**DAM**

AGE	X	DAYS	MILK	%	FAT
2-00	2	356	17760	3.4	612
3-02	2	340	21500	3.5	751

**PATERNAL GRANDDAM**

AGE	X	DAYS	MILK	%	FAT
2-03	2	310	15270	3.8	579
3-02	2	313	18740	3.7	687
4-02	2	314	21510	3.6	777
5-02	2	305	21360	3.5	746

PTA +60M +11F +5P CTPI +459  
 PTA -.38T 49R

PTA -516M -16F CTPI +126  
 PTA +.59 T 47R

**MATERNAL GRANDSIRE**

PTA +555M +30F +30P TPI +357  
 PTA\$ +78CY +80F +79P  
 PTA -1.33 T 94R

**MATERNAL GRANDDAM**

AGE	X	DAYS	MILK	%	FAT
2-04	2	318	11980	4.1	496
3-02	2	265	9550	4.1	389
4-00	2	341	15090	3.7	559

PTA -1191M -25F CTPI -16  
 PTA +.26T 49R

Two Sire Selection Exercise 100 pts.

## NEW MEXICO STATE FFA DAIRY CATTLE EVENT - PEDIGREE CLASS

Revised 6/21/18

### PEDIGREE #3

**SIRE**

PTA +961M +20F +26P TPI +595  
 PTA\$ +79CY +85F +75P  
 PTA +1.89T +.07 UDC 99R

**PATERNAL GRANDSIRE**

PTA +343M +20F +6P TPI +510  
 PTA\$ +60CY +52F +45P  
 PTA +2.18T +.07UDC 99R

**DAM**

AGE	X	DAYS	MILK	%	FAT
2-00	2	365	20610	3.7	770

**PATERNAL GRANDDAM**

AGE	X	DAYS	MILK	%	FAT
2-02	2	310	15270	3.8	579
3-02	2	313	18740	3.7	687
4-02	2	314	21510	3.6	777
5-02	2	305	21360	3.5	746

PTA +591M +18F +18P CTPI +482  
 PTA +1.02T 44R

PTA -516M -16F CTPI +126  
 PTA +.59 T 47R

**MATERNAL GRANDSIRE**

PTA +1050M +25F +32P TPI +601  
 PTA\$ +84CY +89F +78P  
 PTA +1.89 T 99R

**MATERNAL GRANDDAM**

AGE	X	DAYS	MILK	%	FAT
2-00	2	356	17760	3.4	612
3-02	2	305	21500	3.5	751

PTA +60M +11F +5P CTPI +282  
 PTA -.38T 49R

### PEDIGREE #4

**SIRE**

PTA +1444M +18F +39P TPI +622  
 PTA\$ +105CY +113F +94P  
 PTA +1.44 T +.40 UDC 83R

**PATERNAL GRANDSIRE**

PTA +1120M +9F +25P TPI +503  
 PTA\$ +105CY +113F +94P  
 PTA +1.44T +.40UDC 83R

**DAM**

AGE	X	DAYS	MILK	%	FAT
2-02	2	236	12020	3.9	466
3-08	2	365	23320	3.9	921

**PATERNAL GRANDDAM**

AGE	X	DAYS	MILK	%	FAT
2-08	2	296	17940	3.3	646
3-07	2	305	26710	3.3	880
4-09	2	305	23380	3.3	782
6-07	2	304	24290	3.4	827

PTA +809M +32F +28P CTPI +507  
 PTA -.23T 45R

PTA +242M +9F +5P CTPI +316  
 53R

**MATERNAL GRANDSIRE**

PTA +1714M +60F +54P TPI +860  
 PTA\$ +196CY +197F +196P  
 PTA +1.05T +.07UDC 99R

**MATERNAL GRANDDAM**

AGE	X	DAYS	MILK	%	FAT
2-00	2	274	10080	3.8	386

PTA -564M -21F CTPI -39  
 PTA -1.27T 28R

Two Sire Selection Exercise: 100 pts.

## DAIRY CATTLE - HERD RECORD EVALUATION

Revised 6/21/18

- 1 This question asks for the cow which will be the next to calve. "Days bred" indicates the time since the last service, i.e. the gestation length to date. (If no breeding date has been reported or if the cow was declared "open", this figure is "zero".) Since the expected gestation length is 279 days for Holsteins, #443 is the most overdue.  
**Answer - C(443)**
- 2 The answer to this question can also be found most easily in the "days bred" column. If there are "Open" cows with high "days in milk". Cows with a high discrepancy between "days in milk" and "days bred" but currently "pregnant" would be less likely to be culled as the days bred gets higher. They were "problem breeders" but are currently pregnant. **Answer - E (710)**
- 3 To answer this question, one should look to the genetic statistics (Predicted Transmitting Ability for Milk/Dollars) and possibly adjust for current Relative Value. Since this is additional information (more current) to the cow's records included in the index, they may modify the PTA's to some extent, especially for those cow's with one one (or partial) record available when the PTA's were calculated. Cow # 708 ranks high in both PTA's and in current Relative Value. The highest PTA's cow is # 402, however, she is producing at 15% below herd average in her current lactation with a significant portion of the lactation completed. **Answer - A (708)**
- 4 Overweight cows can be identified by the "Body Condition Scores" which are too high. Any lactating cow greater than 3.5 is considered overweight. Dry cows in this range are also considered overweight by most nutritionists. **Answer - A (374)**
- 5 Lactating cows which are scored below 1.5 are generally considered too thin. Cows scoring at 1.5 are also considered too thin, especially if they are past their early lactation period and should be in a positive energy balance and gaining weight. Cows should score about 3.5 at calving time. **Answer - A (405)**
- 6 Culling on current production should begin with those cows significantly below the current herd average, i.e. low Relative Value. It is generally agreed that cows about 75% Relative Value and lower should be scrutinized severely when making up a culling list. **Answer - B (374)**
- 7 Contributions to the Somatic Cell Count in the bulk tank result from a combination of production level and somatic cell count of the individual cow's milk. **Answer - A (405)**
- 8 This question can be answered by the Test Day Production. **Answer - A (439)**
- 9 This question can be answered by the Test Day Production, % fat. **Answer - B (430)**
- 10 As in question # 8 and # 9, look at the Test Day Production. **Answer - B (526)**



## HERD RECORD EVALUATION - WITHOUT "DAYS BRED

Revised 3/5/20

Most current dairy herd records do not have a "days bred" column. Here is the rationale for answering the "next to calve" or "last to calve" question on the herd record without "days bred."

Next/Last to calve Question Rationale:

This question asks for the cow which will be the next to calve. "Days bred" indicates the time since the last service, i.e. the gestation length to date. (If no breeding date has been reported or if the cow was declared "open", this figure is "zero".) Since the expected gestation length is 279 days for Holsteins, #443 is the most overdue.

Cow 377 is Pregnant and was bred on 8-3

Cow 434 has no status listed and was bred on 9-20

Cow 443 is pregnant was bred on 7-29. (Oldest

Cow 445 is pregnant and was bred on 8-10

Cow 450 is pregnant and was bred on 9-17

# DAIRY CATTLE CAREER DEVELOPMENT EVENT

Revised 6/21/18

- 1 Select the cow which will be the next to calve, assuming the breeding dates are accurate.  
A. 377      B. 434      C. 443      D. 445      E. 450
- 2 Indicate the cow which is most likely to become a candidate for culling due their reproductive status.  
A. 433      B. 452      C. 453      D. 488      E. 710
- 3 Indicate the cow most likely to be considered as a donor in an embryo transfer program when their reproductive status is appropriate.  
A. 708      B. 404      C. 405      D. 455      E. 481
- 4 Indicate the cow that is significantly overweight.  
A. 374      B. 430      C. 434      D. 465      E. 433
- 5 Indicate which cow is most significantly underweight.  
A. 405      B. 467      C. 437      D. 738      E. 374
- 6 Indicate which cow is the best candidate for culling because of a low production level.  
A. 563      B. 374      C. 708      D. 453      E. 688
- 7 Indicate which cow is contributing the most to a high somatic cell count in the bulk tank.  
A. 405      B. 430      C. 445      D. 739      E. 433
- 8 Indicate which cow has the highest milk production.  
A. 439      B. 448      C. 450      D. 530      E. 529
- 9 Indicate which cow has the greatest test for fat percentage.  
A. 349      B. 430      C. 481      D. 433      E. 437
- 10 Indicate which cow has the highest protein percentage.  
A. Two Sire S      B. 526 100      C. 713      D. 536      E. 732

Revise	X-b dare bred	r e d	H P O	Test Day production.....						\$	Current Lactation.....					...Mature Equivalent...					PTA					
				BC	milk	fat %	protie %	pers	s c s		No.	date	code	days bred	age calvin	#	days in milk	milk	fat #	prot #	milk #	fat #	prot #	Rel. Value %	milk	\$\$\$
	1-3	2	O							333	4-25	8	0	6-9	5	180	16180	551	457	21290	725	607	93	+632	+74	
67				2.5	26.4	4.3	2.5		2	3.43	349	4-22	1	0	5-9	4	20	840	38	22	12130	486	331	55	+1131	+94
974	11-2	2	P	4.5	42.2	3.4	3.4	84	6	5.74	374	6-9	1	181	6-7	4	337	18570	692	611	17120	643	564	76	+113	+14
	8-3	3	P	4.0							377	3-5	6	282	6-3	4	359	28590	983	946	25490	857	832	114	+353	+40
8		0	O	2.0	81.9	3.8	3.0	83	0	11.13	402	3-5	1	0	4-10	3	66	6940	286	213	18810	751	598	85	+2118	+276
81	2-19	2	P	1.5	90.7	3.0	2.8	83	3	12.12	404	11-19	1	82	4-5	3	174	19400	658	549	27490	897	790	120	+1932	+209
2267	3-9	2		1.0	92.8	3.1	2.9	120	8	12.46	405	11-23	1	64	4-5	3	170	19280	626	546	27770	686	798	121	+2134	+216
38	1-29	6	P	3.5	55.2	3.3	3.6	91	2	7.48	419	6-9	1	103	3-5	2	337	26150	907	875	26950	931	874	119	+1362	+152
223	1-2	2	P	3.5	43.9	2.4	3.0	69	4	5.7	420	8-8	1	130	3-7	2	277	22600	643	659	26800	750	763	114	+2096	+198
	2-13	4									428	4-25	8	54	3-3	2	262	1857	618	618	23360	779	762	102	+1339	+157
122	1-4	2	P	4.0	31.7	5.8	4.1	75	3	4.79	430	9-10	1	128	3-3	2	244	14960	683	526	18570	856	639	86	+782	+114
77	2-20	3		3.5	48.9	3.4	3.4	61	3	6.66	431	9-23	1	81	3-2	2	231	16780	712	540	22050	899	688	100	+1618	+203
37	3-31	3	O	3.0	61.3	2.5	3.1	62	2	8	432	11-17	1	0	3-2	2	176	16120	531	482	23870	734	704	103	+1694	+170
130	2-24	2	O	2.5	68.0	4.4	3.5	125	3	9.68	433	10-2	1	0	3-1	2	222	17700	705	586	24310	970	784	110	+1172	+194
	9-20	4									434	4-28	6	234	2-5	1	455	23190	922	786	22570	900	689	89	+1676	+191
22	1-10	1	P	2.0	86.9	4.0	3.5	112	1	12.16	435	11-21	1	122	3-2	2	175	16970	663	558	27460	1066	890	123	+1412	+176
166	2-11	1	P	2.0	96.8	2.8	3.3	94	4	12.81	437	11-12	1	90	3-1	2	181	18770	583	608	30060	893	959	129	+1799	+200
9				2.0	106.6	3.7	3.0	101	0	14.42	439	3-8	1	0	3-3	2	65	7370	290	221	23870	903	724	107	+1896	+189
	7-29	4	P	3.5							443	2-7	6	287	2-0	1	362	17790	842	636	19930	929	676	96	+1628	+206
	8-10	1	P	4.0							445	3-23	6	260	2-2	1	322	15960	582	536	19250	698	633	86	+1507	+189
186	3-12	4		3.0	48.3	3.9	3.4	124	4	6.73	448	9-22	2	61	2-5	1	232	12840	509	417	18510	720	596	83	+1561	+190
153	12-10	1	P	2.0	79.1	2.5	3.2	97	4	10.32	449	6-29	6	153	2-2	1	317	21980	574	719	25270	662	808	107	+1991	+187
	9-17	3	P	3.5							450	4-2		238	2-1	1	288	13380	417	387	17560	548	492	76	+1406	+120
22	2-5	2	O	3.0	64.9	3.3	3.0	94	1	8.79	452	10-4	2	0	2-2	1	220	14390	492	428	22370	745	656	98	+1979	+209
27	2-4	2	O	2.5	51.4	3.6	3.1	84	1	7.06	453	10-7	2	0	2-2	1	217	14450	488	431	21610	727	634	95	+1779	+182
17	12-24	1	P	2.5	63.0	3.5	3.2	90	0	8.61	455	10-9	2	139	2-0	1	215	14800	603	481	23600	919	751	106	+2133	+215
19	3-1	2	P	2.0	76.4	3.4	3.3	109	1	10.4	460	11-20	2	72	1-11	1	173	13090	492	406	25730	925	792	114	+220	+239
75	1-7	1	P	2.5	66.3	2.8	3.0	94	3	8.77	461	10-31	2	125	1-10	1	193	14300	394	424	25470	703	763	109	+1911	+192
21	2-6	2	P	4.0	26.9	3.9	3.5	61	1	3.75	463	9-30	2	95	1-9	1	224	10570	414	344	16300	639	517	73	NA	
71				2.5	54.8	2.7	3.0		2	6.25	464	4-20	2	0	2-1	1	22	1830	51	58	18660	603	569	81	NA	
262	4-30	1		2.5	63.6	3.6	3.1	122	4	8.74	465	2-18	2	12	1-11	1	83	4690	223	144	18830	767	576	85	NA	
273				1.5	70.9	3.3	2.8		4	8.59	467	4-23	2	0	2-0	1	19	2150	74	64	22020	739	620	96	NA	
12	4-8	3		1.5	91.3	2.4	2.7	86	0	11.85	479	1-6	1	34	3-4	2	126	12940	420	374	24750	747	720	107	+1456	+142
16	3-2	1	P	1.0	91.5	2.1	2.9	96	0	11.7	481	12-21	1	71	3-1	2	142	14930	433	432	26760	729	782	114	+1896	+198
27	2-17	1	P	2.5	43.9	2.0	3.5	52	1	5.59	482	12-30	1	84	3-2	2	133	11150	268	374	18270	466	616	77	+1318	+148
152	1-27	1	O	2.5	58.6	3.8	3.6	73	4	8.12	505	11-9	1	0	3-9	2	184	15710	653	535	21550	866	728	97	+1458	+182
188	12-16	1	P	2.0	72.4	3.2	3.3	117	4	9.76	517	9-17	2	147	2-0	1	237	16420	510	549	25430	777	828	110	+1028	+153
55	1-15 æc	1	P	3.0	100 pts.	4.2	4.0	116	2	6.63	526	10-30	2	117	2-4	1	194	9340	395	365	15800	652	609	72	+1795	+217
199	1-20	1	P	3.0	47.4	3.9	3.3	113	4	6.6	527	10-31	2	112	2-4	1	193	9350	375	307	15910	621	516	71	694	+82
548	4-13	3		2.5	56.0	3.3	3.4	98	5	7.59	528	10-4	2	29	2-3	1	220	15360	504	528	22730	730	769	99	+1536	+183
9	2-6	2	P	1.5	82.9	3.1	3.4	100	0	11.13	529	10-7	2	95	2-3	1	217	16090	566	546	25790	857	860	113	+1452	+179
39	1-6	1	P	2.0	74.9	3.1	3.5	93	2	10.05	530	10-11	2	126	2-3	1	213	15770	530	545	25080	804	853	109	+1325	+156

scc	X-b dare bred	r e d	H P O	Test Day production.....						\$	Current Lactation.....					...Mature Equivalent...					PTA					
				BC	milk	fat %	protie %	pers	s c s		No.	date	code	days bred	age calvin	#	days in milk	milk	fat #	prot #	milk #	fat #	prot #	Rel. Value %	milk	\$\$\$
254	2-3	1	O	3.0	50.4	4.2	3.4	89	4	7.11	536	11-11	2	0	2-2	1	182	9080	406	279	16430	714	503	75	+104	+169
415	3-5	1	P	2.0	74.1	3.8	3.3	107	5	10.27	437	12-5	2	68	2-6	1	156	11910	452	407	22740	858	806	102	+115	+129
177	1-19	1	P	2.0	73.0	3.4	3.0	116	4	9.94	538	12-6	2	113	2-4	1	157	10510	375	314	21360	745	656	94	+121	+126
1320	3-22	1		3.0	54.4	3.9	3.6	102	7	7.58	539	12-26	2	51	2-5	1	127	9130	368	309	18490	741	635	83	+995	+130
75	2-24	2	P	3.0	50.4	3.8	3.3	78	3	6.99	541	12-11	2	77	2-4	1	152	10630	412	334	19140	752	612	86	+113	+144
	3-31	1									542	4-11	9	12	2-3	1	126	7880	274	233	18020	661	544	80	+175	+188
73	3-12	2		1.5	82.7	2.8	2.9	105	3	10.94	543	12-8	2	61	2-3	1	155	12870	383	382	25470	755	777	110	+721	+61
30	3-31	1	O	2.0	82.5	2.6	3.0	71	1	10.81	645	2-4	1	0	7-11	6	97	10060	355	289	20190	662	587	88	+262	+19
122	3-1	4	P	4.5	30.2	4.0	3.4	75	3	4.22	660	7-5	1	72	6-6	5	311	19760	733	635	20300	750	652	90	+907	+73
81	1-20	1	P	3.0	56.0	2.6	2.9	55	3	7.34	681	11-22	1	112	5-0	4	171	16250	471	515	21020	595	681	90	+111	+109
39	1-16	2	O	2.0	89.6	3.3	3.1	93	2	12.14	688	9-17	1	0	4-6	3	237	21920	875	654	27220	1046	812	122	+971	+97
39	4-8	4	P	3.5	42.8	3.6	3.0	62	2	5.88	690	8-15	1	34	4-5	3	270	22520	872	643	25560	979	722	114	+101	+106
53	5-5	3		2.5	77.7	3.4	3.3	94	2	10.58	691	9-26	1	7	4-6	3	228	19500	807	621	24570	977	782	111	+250	+59
98	1-15	2	P	2.5	60.6	3.3	3.4	93	3	8.21	694	7-22	1	117	4-2	3	294	21850	810	705	24250	899	774	108	+122	+145
110	1-20	1	P	1.5	98.0	2.9	2.9	105	3	13.03	698	11-10	1	112	4-3	3	183	19660	599	556	28040	836	802	121	+178	+189
27	3-7	2		1.5	99.3	3.0	3.1	88	1	13.27	708	11-4	1	66	3-5	2	189	21720	760	671	31920	1057	977	140	+194	+239
506	3-19	3	O	3.0	51.8	3.9	3.6	116	5	7.21	710	8-16	1	0	3-0	2	269	20910	790	685	36460	991	843	118	+141	+171
384	1-17	2	P	1.5	92.1	2.9	3.2	106	5	12.25	711	9-25	1	115	3-1	2	229	23630	750	773	33040	1012	1053	143	+155	+172
57	3-7	2	P	3.0	59.6	3.6	3.6	80	2	8.19	712	9-23	1	66	3-0	2	231	17850	644	621	24350	863	822	108	+100	+111
86				1.0	105.8	2.4	2.9	79	3	13.46	713	3-19	1	0	3-6	2	54	7280	212	223	23950	717	746	103	+142	+170
358	3-31	3		2.5	84.8	2.7	3.1	91	5	11.17	714	12-11	1	0	3-1	2	152	16510	444	505	27230	754	839	116	NA	
113	1-20	1	P	2.5	97.6	2.9	3.0	123	3	12.98	715	12-12	1	112	3-0	2	151	14230	454	419	26120	818	776	113	+147	+148
36				3.0	57.7	2.0	3.5	76	2	7.34	717	1-2	1	0	3-0	2	132	12280	338	372	21270	579	630	90	+157	+180
28				3.0	102.6	4.3	3.2		1	13.59	719	4-30	1	0	3-3	2	12	2580	113	84	24210	894	734	108	+104	+99
	1-18	2	O								721	4-11	8	0		1	267	1350	518	430	NA					
33	3-7	4	P	3.0	64.8	3.3	3.4	94	1	8.78	726	8-22	2	66	2-0	1	263	17420	634	538	25340	904	765	112	NA	
0	3-2	1									729	4-11	8	26	2-0	1	221	11550	359	367	19310	590	600	83	+105	+110
22	3-11	3	P	3.5	62.1	3.7	3.6	100	1	8.57	730	9-11	2	62	2-0	1	243	16480	675	543	23380	917	762	105	NA	
11	2-24	2	P	3.0	44.3	2.9	3.0	74	0	5.89	732	10-13	2	77	1-11	1	211	14940	483	443	22860	719	664	99	NA	
27	4-18	2		3.0	50.8	3.1	3.1	81	1	6.82	735	12-5	2	24	1-10	1	158	10170	366	308	19610	685	615	86	+1477	+154
92					3.5	50.8	4.3	2.7	3	6.47	737	4-25	2	0	2-2	1	17	1450	65	41	18190	699	468	82	NA	
29				2.0	83.5	3.4	3.0	138	1	11.37	738	2-7	2	0	1-11	1	94	6570	271	194	23650	875	696	105	NA	
1100	5-2	1		2.0	73.2	2.2	3.1	72	6	9.41	739	2-10	2	10	1-9	1	91	8080	224	247	25120	686	763	107	NA	

Somatic H Heat Date Body Somatic Status Codes

Cell Condition Cell

CountP Pregnant Score 1 Cow freshened 4 enter Herd in Milk 7 Sold for  
 (100's) O Open (liner)2 Heifer Freshced5 Aborted8 Sold for Beef  
 3 Enter Herd Dry6 Dry 9 Died

660 pts.

## National FFA Dairy Cattle Event

Revised 6/21/18

Situation: Semen from these four bulls has been purchased. The bulls were selected to improve the next generation of this herd. RANK the four bulls as they best meet the following objectives in mating with the cow described below. This herd owner has a purbred Jersey herd of 394 cows in which production and type traits are emphasized equally because many offspring are sold through consignment sales. Milk is marketed for cheese production. The main type traits emphasized are udder support and attachment plus correct structure "(including stature). Current rolling herd average is 18195M, 850F and 690P."

Cow To Be Mated		Bulls To Consider			
Current	Traits	1	2	3	4
Record					
(2 yr 10mo ME)					
	RPT	87	86	84	95
20560	MILK	2064	2070	1688	2068
4.5	FAT%	-0.14	-0.3	0.5	-0.14
934	FAT%	75	49	87	75
	PROT\$	264	263	250	242
3.8	PROT%	-0.05	0.01	0	-0.12
781	PROT	70	80	64	59
	CY\$	279	290	270	243
	PTI	315	346	324	311
Linear Score					
38	STATURE	-1.3	1.7	4.6	3.1
32	STRENGTH	-0.3	1.7	2.8	2.1
33	BODY DEPTH	0.5	2.3	3	2.6
20	DAIRY FORM	3	4	4.7	5
25	RUMP ANGLE	H2.6	L.1	L3.4	L2.6
26	THURL WIDTH	0.3	1.7	2.2	1.9
29	REAR LEGS	S2.1	P.4	S0.1	S0.5
21	FOOT ANGLE	L1.0	S1.2	S0.4	S0.7
45	FORE UDDER	-0.2	1.7	0.1	0.7
38	REAR UDDER HT	1.6	3.3	2.9	2.9
36	REAR UDDER WD	1.8	3.5	3.7	3.8
33	UDDER CLEFT	0.3	0.4	1.3	2.1
38	UDDER DEPTH	D2.2	D1.2	D1.5	D1.4
14	TEAT PLACEMENT	C.9	C1.9	C1.1	C2.5
26	TEAT LENGTH	L.8	L2.5	S0.2	S0.5

"Rump Angle (H-High, L-Low), Rear Legs (S-Sickle, P-Posty)"

"Foot Angle (S-Steep, L-Low), Udder Depth (D-Deep, S-Shallow)"

"Teat Placement (W-Wide, C-Close). Teat Length (L-Long, S-Short)"

Two Sire Selection Exercise:

100 pts.