

2010 Iowa FFA Dairy Cattle Evaluation CDE Test

West Union, Iowa

September 18, 2010

Mark the best answer in the proper blank on the Scantron sheet.

25 Objective Questions -- 2 pts. each

1. At what age do dairy cattle develop upper incisors?
a. birth b. 3 days c. 3 months d. never
2. Which of the following represents the largest single cost associated with producing milk?
a. facilities b. feed c. labor d. veterinarian & drugs
3. Which stomach area absorbs the majority of the volatile fatty acids produced during
a. reticulum b. rumen c. omasum d. abomasum
4. Approximately what percent of sperm inseminated into the uterus is lost within 12 hours?
a. 40 b. 50 c. 60 d. 70
5. 'UHT' milk is pasteurized at what approximate minimum temperature in degrees Fahrenheit?
a. 145 b. 161 c. 191 d. 280
6. Ketosis is a nutritional disease in dairy cows caused primarily by _____ in the diet.
a. excess calcium b. calcium shortage c. excess protein d. energy shortage
7. 'Parturient paresis' is the name for a disease related to
a. calcium status of the cow around time of calving
b. infection of the mammary gland
c. lack of energy in the diet causing blood acidosis
d. infection of the uterus due to retained placenta
8. What is the main support system holding the udder close to the cow's body wall?
a. skin and subcutaneous connective tissue
b. lateral suspensory ligament
c. medial suspensory ligament
d. sustentacular apparatus
9. Which of the following hormones is not directly associated with reproduction?
a. testosterone b. adrenaline c. estrogen d. progesterone
10. What is the name of milk sugar?
a. dextrose b. fructose c. lactose d. sucrose
11. This substance forms in the tip of each teat when the cow is dry. It aids in sealing the teats to prevent infection of the udder.
a. mucus b. keratin c. skin d. opaque
12. What is the term given to a heifer born twin to a bull?
a. displaced abomasums b. gomer c. freemartin d. metritis
13. The only part of a milking machine that touches the cow is the:
a. pulsator b. vacuum pump c. inflation d. milk line

14. At birth, which stomach area is the largest in the calf?
a. reticulum b. rumen c. abomasum d. omasum
15. Which is a key factor for maintaining feed costs during time of low milk prices?
a. using poor quality forages
b. ignoring benchmarks
c. using costly by-product feeds
d. optimizing the cow's use of dietary starch
16. Which component in colostrum fed during the first day of life is most critical to the health and survival of the calf?
a. vitamin A b. immunoglobulin c. calcium d. vitamin D
17. Which of the following is an ovarian cyst?
a. pituitary b. viral c. follicular d. pancreatic
18. In the udder the milk is formed in tiny sacs know as _____.
a. alveoli b. lobules c. udder cisterns d. mammary sacs
19. Milk fever is a major cause of cows going down. What mineral deficiency most commonly causes this?
a. calcium b. magnesium c. zinc d. iron
20. What is the name of the process where warm milk is forced through tiny holes in order to break the fat particles into tiny pieces?
a. pasteurization b. conception c. homogenization d. fertilization
21. Which sector of dairy products grew an impressive 32% between 2004-2009 with total sales of \$4.1 billion?
a. ice cream and frozen dairy products b. organic milk
c. yogurt and yogurt drinks d. butter
22. A cow that stands with a flat back but arches her back when she walks and has a slightly abnormal gait is considered mildly lame. What locomotion score is this considered?
a. 1 b. 2 c. 3 d. 4
23. Fat has _____ times as much energy per pound as carbohydrates.
a. 75 b. 2.25 c. 1.25 d. 4.40
24. What is the time period that a cow carried a calf?
a. gestation b. lactation c. parturition d. rumination
25. Cows exposed to sunlight will readily make which vitamin on their own?
a. vitamin A b. vitamin D c. vitamin E d. vitamin K

**Turn Scantron Sheet Over to Mark the Appropriate
Answers to the questions that follow**

DHIA Questions -- 5 pts each

Refer to the **Appendix A (DHI-202 (both sides))** to answer the following questions.

51. What is the rolling yearly herd average for protein on 7-29-10?
a. 3.0 b. 886 c. 729 d. 736
52. What was the reason that the largest number of cows left the herd during the last year?
a. injury b. feet & legs c. reproduction d. udder
53. What is the projected ME 305 day milk production for first lactation animals?
a. 24440 b. 25950 c. 26186 d. 28426
54. What was the total number of pregnant cows on 7-29-10?
a. 180 b. 191 c. 391 d. 336
55. What is the days to first service in the current breeding herd?
a. 50 b. 79 c. 121 d. 74

Dairy Management Problems -- 5 pts each

56. Assuming the feed cost is 66% of the total production cost and the feed cost per head is \$1.41/day, calculate the total yearly production cost per head.

- a. \$2.12 b. \$779.77 c. \$803.51 d. \$555.82
57. What percent protein is the following ration?
- | | Pounds | %Protein |
|---------------------|--------|----------|
| Whole Cottonseed | 210 | 22 |
| Barley Pea silage | 650 | 4.9 |
| Ground shelled corn | 700 | 8.5 |
| Haylage | 1200 | 5.9 |
| Hay | 300 | 22 |
| Protein Mix | 350 | 42 |
| Mineral | 100 | 0 |
- a. 12.5% b. 12.2% c. 12.0% d. 11.8%

58. What is the component value of a hundred weight of milk if the farm produces 155,000 pounds of milk with the following:

- | Components | \$Basis Milk Value |
|-----------------|--------------------|
| Butterfat 4.41% | 1.616 per pound |
| Protein 3.65% | 3.979 per pound |
| Solids 5.91% | .0426 per pound |
| SCC 215,000 | .33 per cwt |
- a. \$20.12 b. \$20.92 c. \$21.09 d. \$22.23
59. You make 15% protein ration by grinding 8.4% protein corn and 37% complete protein mix. How many pounds of corn are needed to make a ton ration?
a. 462 b. 1477 c. 1538 d. 523
60. A cow consumes 62 pounds of corn silage that contains 61% moisture. How many pounds of dry matter does it contain?
a. 37.8 b. 24.2 c. 62 d. 23.1

Sire Evaluation Questions -- 5 pts each

Refer to Appendix B (August 2010 Genetic Evaluations for Production and Type) to answer the following questions.

61. Which sire would be expected to produce daughters that would increase the component value of milk?

- a. Spring Walk Icy Iceberg ET
- b. Wesgray Legacy Kaptain Et
- c. Sniders Tiller Altanic
- d. Edgewater meadows Yogi bear ET

62. What value determined the ranking of the AI sires for production?

- a. Reliability
- b. NM\$
- c. PTI
- d. Herds

63. Which sire would be expected to produce daughters to improve their udders?

- a. Sniders Ronalds Alstar
- b. Mytown Poker Bamboozle ET
- c. Golden J Les George
- d. Dix Lee Tiller Flash

64. Which sire would be expected to produce daughters who would produce the most milk?

- a. Sanders Tiller Altanic
- b. Mytown Poker Bingo ET
- c. Sniders Ronalds Alstar
- d. Sniders Option Aaron ET

65. Which sire would be expected to produce the greatest improvement in the type score of his daughter?

- a. Manfred Masterpiece
- b. Marral Royal Mentor
- c. Sniders Loral Archie
- d. Mytown Poker Bingo ET

Pedigree Questions -- 5 pts each

Refer to Appendix C (Heifer Pedigrees) to answer the following questions.

#1 Lot 4 #2 Lot 5 #3 Lot 8 #4 Lot 11

66. Which heifer did not have the same breeder?

- a. 1
- b. 2
- c. 3
- d. 4

67. Which heifer's dam produced the most milk in her first lactation?

- a. 1
- b. 2
- c. 3
- d. 4

68. Which heifer is the oldest?

- a. 1
- b. 2
- c. 3
- d. 4

69. Which heifer's dam has a sister named Dutch Hollow Galaxy Flora?

- a. 1
- b. 2
- c. 3
- d. 4

70. Which is the name of the paternal granddam of #4?

- a. Ahlem Lemvig Abe-Et
- b. Deboer Jenettas Jace Jasmin Et
- c. Dutch Hollow Onyx Flounce
- d. Dutch Hollow Legion May P

Please use Placing Class Card for the next three sections.

Phase E -- Pedigree Evaluation

Refer to Appendix C (Heifer Pedigrees) to rank the animals based on their pedigree and indicate your ranking on the answer sheet.

#1 Lot 4 #2 Lot 5 #3 Lot 8 #4 Lot 11

Phase F -- Sire Evaluation

You are a dairy producer who want moderate sized cows that have good, well-attached udders and sound feet and legs as these cows do best in your system. You also want heifers that excel in type as you plan on showing several females. Furthermore, you prefer cows with good production and high components. You currently have a large group of breeding age heifers that you would like to breed to the same bull with the hope of being one of the first dairy producers to have several milking daughters of the next "hot" bull. Consequently, you want to use one of the following four sires who only have a genomic proof. Which sire should be your first, second, third and fourth choice to use on these heifers?

| | | sire #1 | sire#2 | sire#3 | sire#4 |
|-----|-----------|---------|--------|--------|--------|
| | | Kyros | Romeo | Impact | Mike |
| No. | Herd | 0 | 0 | 0 | 0 |
| No. | Daughters | 0 | 0 | 0 | 0 |
| % | Rel | 82 | 75 | 73 | 69 |
| PTA | Milk | 1085 | 322 | 1006 | 576 |
| PTA | Fat | 63 | 43 | 33 | 36 |
| PTA | Fat% | .08 | .15 | -.07 | .05 |
| PTA | Pro | 41 | 43 | 31 | 20 |
| PTA | Pro% | .02 | .06 | -.02 | .00 |
| PTA | SCC | 3.03 | 2.88 | 3.00 | 2.82 |
| | PL | .7 | 3.5 | 1.2 | 2.5 |
| | DPR | -0.9 | -0.2 | .03 | -0.3 |
| | NM\$ | 321 | 368 | 252 | 272 |
| PTA | Type | 1.5 | 0.6 | .7 | -0.6 |
| JPI | | 149 | 128 | 106 | 86 |
| SCE | | 6 | 4 | 6 | 6 |
| PTA | ST | 2.2 | -1.2 | 0.7 | 0.9 |
| PTA | SR | 0.8 | -0.8 | 0.2 | -0.1 |
| PTA | DF | 1.6 | 0.3 | 1.2 | -1.1 |
| PTA | RA | L0.4 | L0.2 | L1.0 | H0.2 |
| PTA | FA | S0.5 | L0.5 | S0.3 | S0.0 |
| PTA | FU | 1.2 | 0.7 | 0.1 | -0.3 |
| PTA | RH | 1.6 | 0.8 | 0.3 | -0.8 |
| PTA | RW | 0.7 | -0.6 | 0.2 | 0.5 |
| PTA | UC | -0.1 | 0.2 | -0.5 | -1.4 |
| PTA | UD | S1.0 | S1.0 | 0.4 | S1.9 |
| PTA | TL | L0.6 | L0.9 | S0.5 | L0.9 |
| PTA | RL | S0.3 | S0.5 | P0.1 | P0.1 |
| PTA | RUW | 1.3 | 0.6 | 0.2 | -1.7 |
| PTA | TP | W0.1 | W0.2 | C0.4 | W1.5 |

Phase G -- Culling Class

You milk in a tie-stall barn and want to keep a milking cow in every stall and not have to shift cows in and out to get them all milked. All dry cows are housed elsewhere. You sell your milk based on components, with really nice premiums paid for selling high quality milk. You had a first-calf heifer calve this morning and you want to cull one of the following four cows to make room for this fresh heifer. Use the attached Cow Pages (Appendix D--DHI 103) to place the cows in the order that you would cull them from your herd. The first cow you would cull should be ranked #1 and the last cow you would cull should be ranked #4.

- #1 Barn Name 7069
Most recent test: 66# milk, 2.7% F, 3.0% P, 800 SCC
- #2 Barn Name 7115
Most recent test: 97# milk, 3.6%F, 3.0% P, 107 SCC
- #3 Barn Name 7-7244
Most recent test: 91# milk, 3.3%F, 3.0% P, 3430 SCC
- #4 Barn Name 7513
Most recent test: 94# milk, 3.4%F, 3.0% P, 50 SCC

HERD SUMMARY DH1-202

| | | | |
|------------------------------|-----------------|-------------|---------|
| HERD CODE AND YEAR OF RECORD | 1992 | DATE TESTED | |
| STATE | CA | TEST YEAR | |
| DAIRY | 42 77 0074 | TEST MONTH | 7 29 10 |
| OWNER | JOE DISTRICK | | |
| ADDRESS | 52470 280TH ST. | | |
| PHONE | A 50014 | | |
| ADDRESS | 1 AMES | | |

ELECTRONIC METERS

| | | | |
|----|----|-----------------------------|-----|
| BR | 99 | TOTAL COWS IN BREEDING HERD | 121 |
| HO | 50 | COVS WITH VAC SERVICE | |
| | | DEER | 17 |
| | | DEER | 10 |
| | | DEER | 8 |

PRODUCTION, INCOME & FEED COST SUMMARY

| DESCRIPTION | DAILY AVERAGE PER COW OF TEST DATE | RELING YEARLY HERD AVERAGE |
|-----------------|------------------------------------|----------------------------|
| TOTAL COWS | 391 | 381.8 |
| COWS IN MILK | 335 | 86 |
| PROD. COWS | 66.5 | 24,440 |
| FAT PERCENT | 2.28 | 885 |
| PROTEIN PERCENT | 3.4 | 3.5 |
| PROTEIN PERCENT | 1.96 | 738 |
| PROTEIN PERCENT | 3.0 | 3.0 |
| MILKING COWS | 77.4 | |
| BLANKING COWS | | |
| BLANKING COWS | | |
| BLANKING COWS | | |

REPRODUCTIVE SUMMARY OF TOTAL HERD

| DATE OF SERVICE | SERVICE PER 100 DAYS | PROGESTED INTERVAL | RECORDED SERVICE PER 100 DAYS |
|-----------------|----------------------|--------------------|-------------------------------|
| 1 | 109 | 11 | 83 |
| 2 | 72 | 5 | 74 |
| 3 | 86 | 4 | 74 |
| 4 | 267 | 20 | 78 |
| 5 | 93 | 7 | 93 |
| TOTAL | | | 14.1 |

REPRODUCTIVE SUMMARY OF CURRENT BREEDING HERD

| COVS BRED BUT NOT DIAG. PREG. | COVS BRED BUT NOT DIAG. PREG. | COVS BRED BUT NOT DIAG. PREG. | COVS BRED BUT NOT DIAG. PREG. |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| 22 | 21 | 47 | 79 |
| 18 | 17 | 40 | |

BIRTH SUMMARY

| DATE OF BIRTH | NUMBER BORN | NUMBER SURVIVING | PERCENT SURVIVING |
|---------------|-------------|------------------|-------------------|
| 1 | 54 | 3 | 5.6 |
| 2 | 128 | 5 | 3.9 |
| TOTAL | 182 | 11 | 6.1 |

COWS TO BE MILKING, DRY, CALVING, BY MONTH

| MONTH | AUG | SEP | OCT | NOV | DEC | JAN |
|---------|-----|-----|-----|-----|-----|-----|
| MILKING | 339 | 331 | 321 | 319 | 310 | 297 |
| DRY | 54 | 55 | 58 | 53 | 55 | 61 |
| CALVING | 26 | 20 | 29 | 15 | 29 | 24 |

* ASSUMES 2.1% PER MONTH CULLING RATE.

YEARLY REPRODUCTIVE SUMMARY

| DATE OF TEST | NUMBER TESTED | NUMBER BREEDING | NUMBER PREG. | NUMBER CALVING | NUMBER SERVICE PER 100 DAYS |
|--------------|---------------|-----------------|--------------|----------------|-----------------------------|
| 9-11-09 | 68 | 25 | 17 | 103 | 29 |
| 10-13-09 | 78 | 25 | 21 | 90 | 18 |
| 12-15-09 | 57 | 27 | 20 | 171 | 34 |
| 1-14-10 | 59 | 29 | 18 | 84 | 33 |
| 2-19-10 | 57 | 25 | 15 | 93 | 25 |
| 4-09-10 | 60 | 28 | 17 | 137 | 46 |
| 5-18-10 | 61 | 27 | 15 | 124 | 30 |
| 6-28-10 | 69 | | | 135 | 31 |
| 7-29-10 | 72 | | | 89 | 35 |
| AVERAGES | 65 | 25 | 18 | 114 | 31 |
| TOTALS | 65 | 25 | 18 | 1026 | 42 |

MISCELLANEOUS HERD INFORMATION

| | | | |
|-----------------|-------|----------------|-------|
| SUMMER TEST DAY | 25950 | YEARLY AVERAGE | 25940 |
| TEST DATE | 97 | TEST YEAR | 8 |
| TEST MONTH | 9 | TEST DAY | 8 |
| TEST YEAR | 3 | TEST MONTH | 3 |

| | | | |
|------------|---|------------|---|
| TEST YEAR | 3 | TEST MONTH | 3 |
| TEST DAY | 8 | TEST YEAR | 3 |
| TEST MONTH | 9 | TEST MONTH | 3 |

REMARKS:

| | | | |
|------------|---|------------|---|
| TEST YEAR | 3 | TEST MONTH | 3 |
| TEST DAY | 8 | TEST YEAR | 3 |
| TEST MONTH | 9 | TEST MONTH | 3 |

5:00 AM Y N
5:15 PM Y Y

| | | | |
|------------|---------------|--------|------|
| REGIONS | DATE RECORDED | PERIOD | SIBS |
| 42-77-0074 | 7-29-10 | HQ | 1 |

STAGE OF LACTATION PROFILE

| PERIOD | STAGE OF LACTATION | | | |
|-----------------|--------------------|-----|-----|-----|
| | 1ST | 2ND | 3RD | 4TH |
| 1ST LACT | 12 | 11 | 38 | 25 |
| 2ND LACT | 10 | 15 | 31 | 8 |
| 3RD LACT | 14 | 11 | 34 | 21 |
| 4TH LACT | 35 | 37 | 103 | 55 |
| AVERAGE | 78 | 79 | 79 | 58 |
| STDEV | 100 | 103 | 85 | 61 |
| NO. OF COWS | 86 | 101 | 92 | 53 |
| NO. OF MILKINGS | 87 | 95 | 85 | 57 |

| PERIOD | STAGE OF LACTATION | | | |
|-----------------|--------------------|------|-----|-----|
| | 1ST | 2ND | 3RD | 4TH |
| 1ST LACT | 149 | 2-00 | 149 | 149 |
| 2ND LACT | 102 | 3-02 | 102 | 102 |
| 3RD LACT | 140 | 5-04 | 140 | 140 |
| 4TH LACT | 391 | 3-05 | 391 | 391 |
| AVERAGE | 78 | 79 | 79 | 58 |
| STDEV | 100 | 103 | 85 | 61 |
| NO. OF COWS | 86 | 101 | 92 | 53 |
| NO. OF MILKINGS | 87 | 95 | 85 | 57 |

SCC ACT

| PERIOD | NO. OF COWS | NO. OF MILKINGS | AVG. SCC |
|-----------------|-------------|-----------------|----------|
| 1ST LACT | 176 | 250 | 268 |
| 2ND LACT | 41 | 214 | 241 |
| 3RD LACT | 226 | 218 | 282 |
| 4TH LACT | 150 | 224 | 265 |
| AVERAGE | 9 | 9 | 23 |
| STDEV | 25 | 24 | 22 |
| NO. OF COWS | 25 | 24 | 22 |
| NO. OF MILKINGS | 25 | 24 | 22 |

IDENTIFICATION AND GENETIC SUMMARY

| NO. | NUMBER | AVG. AGE | YLV. ENTERED | NO. OF COWS | AVG. YIELD | AVG. BUTYR |
|----------|--------|----------|--------------|-------------|------------|------------|
| 1ST LACT | 149 | 2-00 | 149 | 97 | +1.02 | +1.42 |
| 2ND LACT | 102 | 3-02 | 102 | 100 | +0.87 | +1.56 |
| 3RD LACT | 140 | 5-04 | 140 | 140 | +4.5 | +9.4 |
| 4TH LACT | 391 | 3-05 | 391 | 4 | +3.27 | +7.3 |
| AVERAGE | 100 | 100 | 100 | 4 | +3.27 | +7.3 |

PRODUCTION BY LACTATION SUMMARY

| PERIOD | NO. OF COWS | NO. OF MILKINGS | AVG. YIELD | AVG. BUTYR |
|----------|-------------|-----------------|------------|------------|
| 1ST LACT | 149 | 24 | 90 | 87 |
| 2ND LACT | 102 | 38 | 104 | 101 |
| 3RD LACT | 140 | 84 | 114 | 103 |
| 4TH LACT | 391 | 42 | 102 | 98 |
| AVERAGE | 100 | 100 | 100 | 100 |

YEARLY SUMMARY OF COWS ENTERED AND LEFT THE HERD

| PERIOD | NO. OF COWS ENTERED | NO. OF COWS LEFT |
|----------|---------------------|------------------|
| 1ST LACT | 101 | 52 |
| 2ND LACT | 139 | 82 |
| 3RD LACT | 140 | 84 |
| 4TH LACT | 240 | 70 |
| AVERAGE | 129 | 34 |

CURRENT SOMATIC CELL COUNT SUMMARY

| PERIOD | NO. OF COWS | NO. OF MILKINGS | AVG. SCC |
|----------|-------------|-----------------|----------|
| 1ST LACT | 149 | 24 | 90 |
| 2ND LACT | 102 | 38 | 104 |
| 3RD LACT | 140 | 84 | 114 |
| 4TH LACT | 391 | 42 | 102 |
| AVERAGE | 100 | 100 | 100 |

YEARLY PRODUCTION AND MASTITIS SUMMARY

| PERIOD | NO. OF COWS | NO. OF MILKINGS | AVG. YIELD | AVG. BUTYR |
|----------|-------------|-----------------|------------|------------|
| 1ST LACT | 149 | 24 | 90 | 87 |
| 2ND LACT | 102 | 38 | 104 | 101 |
| 3RD LACT | 140 | 84 | 114 | 103 |
| 4TH LACT | 391 | 42 | 102 | 98 |
| AVERAGE | 100 | 100 | 100 | 100 |

SCC ACT

| PERIOD | NO. OF COWS | NO. OF MILKINGS | AVG. SCC |
|-----------------|-------------|-----------------|----------|
| 1ST LACT | 176 | 250 | 268 |
| 2ND LACT | 41 | 214 | 241 |
| 3RD LACT | 226 | 218 | 282 |
| 4TH LACT | 150 | 224 | 265 |
| AVERAGE | 9 | 9 | 23 |
| STDEV | 25 | 24 | 22 |
| NO. OF COWS | 25 | 24 | 22 |
| NO. OF MILKINGS | 25 | 24 | 22 |

NEAREST SCC (NEAREST 1,000)

| PERIOD | NO. OF COWS | NO. OF MILKINGS | AVG. SCC |
|-----------------|-------------|-----------------|----------|
| 1ST LACT | 176 | 250 | 268 |
| 2ND LACT | 41 | 214 | 241 |
| 3RD LACT | 226 | 218 | 282 |
| 4TH LACT | 150 | 224 | 265 |
| AVERAGE | 9 | 9 | 23 |
| STDEV | 25 | 24 | 22 |
| NO. OF COWS | 25 | 24 | 22 |
| NO. OF MILKINGS | 25 | 24 | 22 |

YEARLY PRODUCTION AND MASTITIS SUMMARY

| PERIOD | NO. OF COWS | NO. OF MILKINGS | AVG. YIELD | AVG. BUTYR |
|----------|-------------|-----------------|------------|------------|
| 1ST LACT | 149 | 24 | 90 | 87 |
| 2ND LACT | 102 | 38 | 104 | 101 |
| 3RD LACT | 140 | 84 | 114 | 103 |
| 4TH LACT | 391 | 42 | 102 | 98 |
| AVERAGE | 100 | 100 | 100 | 100 |

AVERAGES

| PERIOD | NO. OF COWS | NO. OF MILKINGS | AVG. YIELD | AVG. BUTYR |
|----------|-------------|-----------------|------------|------------|
| 1ST LACT | 45 | 371 | 192 | 74.2 |
| 2ND LACT | 32 | 369 | 190 | 74.1 |
| 3RD LACT | 54 | 380 | 179 | 75.7 |
| 4TH LACT | 29 | 384 | 175 | 78.0 |
| AVERAGE | 41 | 383 | 187 | 78.2 |

Appendix B

| August 2010 Active AI Sires - Production | | | | | | | | | | | | | | | | | | | | | | |
|--|------------|-------------------------------|------|-------|-----|--------|-------|--------|-------|------|------|------|------|----|------|------|------|-----|---------|-----|-----|-----|
| Reg # | NAAB # | Name | Herd | Dtrs. | REL | Milk % | Fat % | Prot % | NM\$ | CM\$ | DPR | REL | SCS | PL | SCR | REL | Milk | Fat | Protein | PTI | | |
| 000000604670 | 007GL00395 | SNIDERS OPTION AARON-ET | 88 | 182 | 92 | 920 | 0.12 | 63 | -0.03 | 24 | 367 | 357 | -1.4 | 65 | 2.80 | 2.1 | 0.2 | 83 | 928 | 62 | 24 | 185 |
| 000000604761 | 007GL00398 | SNIDERS RONALDS ALSTAR | 33 | 53 | 85 | 992 | 0.00 | 43 | -0.06 | 21 | 486 | 453 | 2.2 | 55 | 3.03 | 5.2 | 0.6 | 60 | 1,092 | 44 | 25 | 149 |
| 000000604960 | 007GL00405 | GOLDEN J RONALD GRUMPY | 35 | 50 | 84 | 663 | 0.05 | 39 | 0.01 | 23 | 419 | 434 | 0.0 | 50 | 2.94 | 4.7 | 1.5 | 50 | 730 | 42 | 27 | 146 |
| 000068001358 | 001GL00433 | SPRING WALK VY ICEBERG-ET | 36 | 68 | 80 | 977 | 0.00 | 42 | -0.01 | 29 | 260 | 263 | -0.6 | 44 | 3.01 | 0.9 | | | 809 | 30 | 30 | 137 |
| 000068003602 | 007GL00417 | SNIDERS TILLER ALTMIC | 29 | 52 | 80 | 1,097 | -0.04 | 41 | -0.10 | 17 | 54 | -8 | -0.9 | 46 | 3.47 | -0.5 | | | 1,256 | 44 | 20 | 133 |
| 000000604588 | 014GL00309 | WESGRAY LEGACY KAPTAN-ET | 21 | 27 | 69 | 1,074 | 0.00 | 48 | -0.02 | 31 | 424 | 423 | 1.8 | 32 | 3.04 | 3.9 | | | 1,241 | 66 | 39 | 126 |
| 000000604588 | 200GL00111 | MYOVAN POKER BINGO-ET | 27 | 42 | 83 | 731 | 0.06 | 42 | 0.02 | 27 | 414 | 439 | 1.3 | 51 | 2.79 | 3.4 | | | 524 | 37 | 23 | 121 |
| 000000604917 | 007GL00402 | EDGEWATER MEADOWS YOGIBEAR-ET | 79 | 178 | 90 | 86 | 0.15 | 30 | 0.04 | 10 | 140 | 170 | -1.5 | 65 | 2.99 | 1.3 | | | 44 | 27 | 7 | 112 |
| 000068006130 | 001GL00434 | GOLDEN J LES GEORGE | 19 | 28 | 69 | 188 | 0.17 | 38 | -0.01 | 5 | 235 | 233 | -0.9 | 30 | 2.92 | 2.5 | | | 190 | 45 | 4 | 110 |
| 000000604587 | 001GL00424 | MYOVAN POKER BAMBOOLE-ET | 24 | 34 | 80 | 642 | 0.10 | 46 | 0.05 | 30 | 238 | 285 | 0.3 | 52 | 2.70 | -0.1 | | | 616 | 52 | 30 | 104 |
| 000000604312 | 200GL00109 | PINE RIDGE DOUBLE L-ET | 41 | 75 | 86 | 88 | 0.15 | 30 | -0.02 | 0 | 446 | 435 | 0.3 | 64 | 2.63 | 6.1 | | | 131 | 32 | -6 | 101 |
| 000000604633 | 007GL00394 | PENNY LANE ROYAL OAK TURLEY | 42 | 65 | 86 | 427 | 0.00 | 18 | 0.04 | 21 | 125 | 160 | -2.1 | 54 | 3.10 | 1.8 | | | 422 | 18 | 24 | 101 |
| 000000604878 | 007GL00412 | LANG HAVEN DECISIONS NATURAL | 29 | 49 | 81 | 253 | 0.05 | 19 | 0.07 | 20 | 219 | 270 | 0.4 | 45 | 2.94 | 2.2 | | | 144 | 17 | 20 | 99 |
| 000000604713 | 014GL00297 | JENS GOLD FORT HUDSON | 42 | 70 | 85 | 1,046 | -0.15 | 19 | -0.02 | 30 | 108 | 106 | -0.2 | 52 | 3.07 | -0.2 | | | 1,062 | 19 | 31 | 99 |
| 000000604730 | 200GL00113 | MAPLEHURST TILLER LANE | 28 | 65 | 82 | 663 | -0.04 | 22 | -0.03 | 16 | 11 | -4 | -1.8 | 45 | 2.98 | -1.5 | | | 674 | 21 | 16 | 75 |
| 000000604826 | 001GL00428 | FLAMBEAU MANOR TILLER LES-ET | 46 | 85 | 89 | -102 | 0.15 | 21 | 0.00 | -4 | 125 | 121 | -0.8 | 60 | 3.07 | 2.0 | | | -128 | 20 | -4 | 62 |
| 000068003052 | 076GL00805 | SNIDERS DEEMAND ADACKA-ET | 23 | 48 | 79 | 67 | 0.05 | 11 | -0.02 | -1 | -13 | -26 | -0.7 | 44 | 3.26 | 0.8 | | | 99 | 7 | -1 | 57 |
| 000068004747 | 200GL00401 | MILLBORNE BOLERO | 39 | 66 | 85 | 324 | -0.01 | 12 | -0.07 | -2 | 160 | 114 | -0.6 | 59 | 2.81 | 2.7 | | | 6 | 4 | -11 | 52 |
| 000068001915 | 014GL00305 | DIX LEE TILLER FLASH | 22 | 26 | 74 | 193 | 0.00 | 9 | 0.01 | 8 | -30 | -20 | -0.9 | 40 | 3.08 | -0.4 | | | 23 | 7 | 8 | 38 |
| 000000604451 | 076GL00803 | MARRRED MASTERPIECE | 42 | 87 | 87 | 733 | -0.10 | 14 | -0.03 | 19 | -271 | -281 | -2.8 | 52 | 3.24 | -6.2 | | | 812 | 17 | 20 | 35 |
| 000000604762 | 076GL00804 | SNIDERS LORAL ARCHIE | 40 | 76 | 87 | -617 | 0.15 | -3 | 0.10 | -3 | -15 | 47 | -0.1 | 54 | 3.30 | 1.1 | | | -697 | -6 | -4 | 32 |
| 000000602265 | 022GL00120 | FOUR WINDS MAGGIAN-ET | 328 | 927 | 97 | -233 | 0.04 | -4 | 0.03 | -3 | -59 | -44 | -1.4 | 87 | 2.95 | 0.5 | | | -110 | 1 | 1 | 10 |
| 000000604520 | 200GL00110 | COULEE CREST R O SILVERADO-ET | 104 | 242 | 91 | -558 | 0.17 | 3 | 0.00 | -18 | -250 | -256 | -4.1 | 65 | 2.89 | -2.3 | | | -700 | -2 | -24 | 8 |
| 000000604702 | 031GU00612 | MAR PAL ROYAL MENTOR | 55 | 131 | 91 | -462 | 0.03 | -15 | 0.04 | -8 | -126 | -103 | -1.7 | 61 | 2.98 | -0.2 | | | -457 | -14 | -7 | 7 |

Click on the Stud Code to be redirected to the bulls own AI Organization Page

Appendix B

August 2010 Genetic Evaluations For Type

| | # Dtr | REL | H/C | UDC | PTAT | ST | SR | BD | DF | RA | TW | RL | RV | FA | FU | RH | RV |
|------------|-------|-----|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 007GU00395 | 155 | 87 | 2.65 | 1.00 | 1.1 | 0.9 | 0.1 | -0.4 | 1.6 | H0.2 | -0.1 | S0.3 | S1.5 | 0.6 | 0.8 | 1.1 | 1.5 |
| 007GU00398 | 45 | 82 | 1.98 | 0.39 | 0.6 | -2.7 | -0.7 | -1.2 | 0.8 | H1.1 | -1.7 | P0.5 | S0.4 | 0.9 | 0.5 | 0.4 | 1.3 |
| 007GU00405 | 39 | 79 | 0.52 | 1.77 | 1.0 | 0.0 | -0.8 | -0.7 | 1.1 | H0.3 | 0.0 | P0.4 | H0.5 | 0.7 | 1.0 | 1.5 | 0.9 |
| 001GU00433 | 21 | 66 | 2.14 | 0.19 | 0.5 | -0.1 | -0.4 | -0.2 | 1.1 | H1.0 | 0.4 | P0.4 | S0.9 | 0.6 | 0.8 | 1.2 | 0.6 |
| 007GU00417 | 37 | 75 | 4.14 | 0.19 | 1.4 | 1.7 | 1.5 | 1.2 | 2.3 | H1.3 | 2.0 | P0.0 | S1.8 | 1.3 | 1.0 | 1.7 | 3.0 |
| 014GU00309 | 8 | 53 | -0.95 | -0.10 | 0.0 | -0.4 | -0.4 | -0.3 | -0.2 | H0.3 | -1.1 | S0.1 | H0.5 | -0.2 | 0.1 | 0.4 | -0.2 |
| 200GU00111 | 39 | 68 | 0.23 | -0.31 | -0.2 | -0.3 | -0.5 | -1.1 | 0.8 | H0.6 | -0.3 | S0.1 | S0.1 | 0.1 | -0.7 | 0.5 | 0.6 |
| 007GU00402 | 136 | 82 | 1.44 | 1.41 | 1.7 | 1.5 | 1.3 | 1.7 | 1.1 | H0.1 | 1.8 | P1.0 | S0.4 | 0.4 | 2.1 | 1.8 | 1.4 |
| 001GU00434 | 17 | 62 | 0.23 | 1.53 | 1.9 | 0.0 | 0.4 | -0.1 | 0.2 | H0.1 | 1.1 | S0.6 | H0.1 | 0.4 | 2.4 | 1.5 | 0.8 |
| 001GU00424 | 27 | 75 | -0.14 | -1.17 | -0.5 | 4.1 | 0.6 | 0.1 | 2.4 | L2.0 | 1.1 | P0.3 | H0.2 | 0.0 | -2.3 | 0.0 | 0.9 |
| 007GU00394 | 59 | 84 | 1.85 | 0.91 | 0.8 | 1.3 | 0.8 | 0.9 | 1.0 | H0.2 | 0.2 | S0.7 | S1.1 | 0.5 | 0.7 | 0.8 | 0.5 |
| 200GU00109 | 62 | 73 | -0.18 | 1.97 | 1.2 | -3.1 | -1.8 | -0.6 | 0.8 | H3.2 | -1.7 | S0.3 | S0.4 | -0.4 | 2.4 | 2.4 | 1.2 |
| 014GU00297 | 43 | 80 | 2.68 | -0.90 | 0.3 | 1.5 | 0.7 | 1.6 | 2.0 | L0.7 | 0.6 | P0.7 | S1.7 | 0.2 | -2.0 | -0.1 | 0.5 |
| 007GU00412 | 43 | 79 | 0.72 | 0.55 | 1.0 | 1.5 | 0.7 | 0.6 | 0.0 | H0.5 | 0.7 | P0.0 | S0.8 | -0.2 | 1.5 | 1.5 | 0.5 |
| 200GU00113 | 15 | 62 | 1.17 | 0.07 | 1.0 | 1.3 | 0.8 | 1.2 | 1.5 | H0.6 | 1.5 | P0.2 | S0.3 | 0.5 | -0.5 | 0.6 | 1.3 |
| 001GU00428 | 67 | 87 | 0.02 | 1.95 | 1.5 | 0.2 | -0.1 | -0.7 | -0.1 | L1.6 | 0.6 | S0.1 | H0.3 | 0.3 | 3.1 | 1.7 | 0.9 |
| 076GU00805 | 37 | 75 | 2.92 | 0.53 | 0.8 | 2.6 | 1.7 | 1.5 | 1.1 | L1.0 | 1.3 | S0.1 | S1.2 | 1.0 | 1.0 | 0.5 | 0.3 |
| 200GU00401 | 59 | 72 | 0.14 | 1.11 | 1.2 | 1.1 | -0.3 | 0.0 | 0.9 | L0.8 | -1.1 | P0.3 | S0.6 | -0.5 | 1.0 | 1.7 | 0.1 |
| 014GU00305 | 21 | 66 | 0.52 | -0.05 | 0.8 | 1.9 | 1.4 | 2.3 | 1.1 | L0.7 | 1.4 | S0.7 | S0.5 | 0.1 | -0.9 | -0.5 | 0.2 |
| 076GU00803 | 63 | 84 | 1.31 | -0.34 | 0.4 | 2.5 | 2.1 | 2.6 | 2.1 | H0.2 | 2.3 | S0.5 | S0.5 | 0.6 | -1.2 | 0.6 | 1.7 |
| 076GU00804 | 54 | 81 | 1.23 | 1.60 | 1.0 | 1.7 | 1.3 | 0.2 | -1.5 | L1.0 | 1.0 | P0.6 | S0.0 | 0.7 | 3.1 | 1.0 | -0.2 |
| 072GU00120 | 586 | 96 | 0.50 | 0.16 | 0.7 | 2.9 | 1.6 | 1.3 | -0.1 | H0.5 | 2.1 | S0.8 | H0.4 | 0.9 | 1.5 | 0.4 | -0.6 |
| 200GU00110 | 177 | 83 | 2.32 | 0.57 | 1.3 | 3.0 | 2.6 | 2.9 | 1.7 | L0.3 | 2.8 | P0.4 | S1.5 | 0.2 | 0.5 | 1.9 | 1.9 |
| 031GU00612 | 131 | 91 | 1.06 | 1.25 | 1.3 | 2.3 | 2.1 | 1.6 | -1.4 | L1.1 | 1.0 | P0.6 | S0.9 | -0.2 | 2.2 | 0.5 | 0.6 |

FLC = Foot & Leg Composite
 UDC = Udder Composite
 PTAT = PTA Type (Final Score)

ST = Stature
 SR = Strength
 BD = Body Depth
 DF = Dairy Form
 RA = Rump Angle - High Pins or Low Pins
 TW = Thurl Width
 RL = Rear Leg - Set or Posty
 RV = Rear Leg Rear View - Straight or Hooked In
 FA = Foot Angle
 FU = Fore Udder
 RH = Rear Udder Height
 RW = Rear Udder Width
 UC = Udder Cleft
 UD = Udder Depth - Deep or Shallow
 TP = Teat Placement - Close or Wide
 TL = Teat Length

New York Fall Sale

LOT 4 DUTCH HOLLOW IMAGINE LOLA-P USA 116783893

BORN 04/21/2009 TATTOO E923 / E923 P4
 FEMALE EFI. 8.2%

FRANGIONE, PAUL J OWNER
 WESTTOWN, NY
 845-726-0966

PA 99M 10F 2P
 135CM\$ 137NM\$ 139FM\$
 2.0PL 0.3PR 3.01SCS
 PA TYPE 0.3 JPI 28% 38
 ST SR DF RA RW RL FA
 -0.2 -0.7 0.1 10.1 -0.4 10.3 50.2
 FU RH RUW UC UD TP TL
 0.2 0.4 0.3 0.1 50.6 10.0 10.1

CHITTENDEN, ALAN OWEN BREEDER
 SCHODACK LANDING, NY

SELLING OPEN

SIRE:
 DUTCH HOLLOW IMAGINATION-P
 USA 115724200 G 200JE349
 USDA GPTA 08/01/2010
 73%R 48M 0.05% 10F 24%ILE
 73%R 0.02% 3P 130CM\$ 121NM\$ 113FM\$
 1.4PL 0.0DPR 2.97SCS
 AJCA 08/01/2010 ODAUS
 GPTAT 60%R 0.8 JPI 66%R 41

DAM:
 DUTCH HOLLOW HONOUR LISA-P
 USA 115571642 TATTOO E439 / E439
 DHIA HERD # 21-10-0357 CONTROL # 3439
 2-01 305 3 18690 4.9 924 3.3 618 100DCR 2134C
 305 2X ME AVG 1L 21169M 1074F 721P 2491C
 2-04 78%
 ST SR DF RA RW RL FA FU RH RUW UC UD TP TL
 28 26 28 30 28 26 28 26 36 25 24 26 26 22
 PPA 377M 36F 2P / YD -187M 24F -16P
 USDA PTA 08/01/2010 2RECS 54%R 77%ILE
 150M 10F 1P 139CM\$ 152NM\$ 165FM\$
 2.6PL 0.6PR 3.04SCS
 AJCA 08/01/2010 PTAT 45%R -0.3 JPI 47%R 34

SISTER(S):
 DUTCH HOLLOW LEGION LOLITA 82%
 1-10 305 3 20520 4.8 991 3.3 685 101DCR 2366C

SC GOLD DUST PARAMOUNT IATOLA-ET
 USA 112118277 G 29JE3301
 USDA GPTA 08/01/2010 5505DAUS 913HRDS 44%RIP
 99%R -181M 0.13% 16F 30%ILE
 99%R 0.05% 3P 185CM\$ 149NM\$ 117FM\$
 0.8PL 0.0DPR 2.98SCS
 AJCA 08/01/2010 2953DAUS
 GPTAT 99%R 1.7 JPI 98%R 62

DUTCH HOLLOW LEGION MAY-P 88%
 USA 114168081 TATTOO D896 / D896
 DHIA HERD # 21-10-0357 CONTROL # 2896
 1-10 305 3 18660 4.9 923 3.3 623 100DCR 2152C
 2-10 305 3 24720 4.4 1089 3.6 892 100DCR 2979C
 4-03 305 3 25830 4.1 1062 3.4 868 102DCR 2900C
 305 2X ME AVG 3L 22513M 1008F 781P 2632C
 PPA 2214M 68F 75P / YD 1902M 53F 58P
 USDA PTA 08/01/2010 4RECS 59%R 80%ILE
 705M 24F 19P 158CM\$ 164NM\$ 174FM\$
 1.7PL -1.0PR 3.07SCS
 AJCA 08/01/2010 PTAT 54%R 1.4 JPI 53%R 69

DUTCH HOLLOW HONOUR-P
 USA 111627994 G 1JE522
 USDA GPTA 08/01/2010 364DAUS 187HRDS 40%RIP
 97%R 1031M -0.17% 15F 34%ILE
 97%R -0.07% 23P 129CM\$ 175NM\$ 235FM\$
 2.1PL -0.2DPR 3.30SCS
 AJCA 08/01/2010 134DAUS
 GPTAT 91%R 0.4 JPI 92%R 80

DUTCH HOLLOW JEROME LOLA 85%
 USA 003960291 TATTOO C634 / C634
 DHIA HERD # 21-10-0357 CONTROL # 1044
 1-11 305 2 15940 5.1 808 3.8 600 DHIR 1952C
 2-11 305 2 15750 5.3 839 4.0 626 DHIR 2038C
 3-11 305 2 20370 4.9 999 3.7 757 100DCR 2462C
 5-00 305 2 21070 4.8 1013 3.6 762 100DCR 2635C
 6-01 290 2 21290 5.4 1159 3.6 770 99DCR 2662C
 7-00 305 2 21520 5.0 1079 3.5 761 100DCR 2630C
 8-00 305 2 22370 5.1 1133 3.6 795 99DCR 2748C
 9-00 297 3 17860 5.7 1023 3.7 663 98DCR 2293C
 9-11 305 3 19290 5.6 1084 3.7 717 100DCR 2480C
 305 2X ME AVG 10L 18918M 997F 702P 2382C
 PPA -599M 42F OP / YD -932M 8F -15P
 USDA PTA 08/01/2010 5RECS 62%R 70%ILE
 -528M -2F -11P 140CM\$ 122NM\$ 103FM\$
 2.9PL 1.2PR 2.84SCS
 AJCA 08/01/2010 PTAT 52%R -0.8 JPI 53%R 5
 SIRE: BARBS MBSB JEROME JPI -40 5%ILE

SISTER(S):
 DUTCH HOLLOW CENTURION LILAC 83%
 1-09 305 2 15310 4.2 645 3.7 565 100DCR 1768C

NEXT DAM:
 DUTCH HOLLOW DESTINY LILA 80%
 4-02 305 2 19560 4.8 938 3.6 713 DHIR 2318C
 SIRE: GREENRIDGE DUNCAN DESTINY-ET JPI -116 0%ILE

4TH DAM:
 DUTCH HOLLOW RADIO LILIAN 71%
 2-01 281 2 11410 5.3 600 3.9 445 DHIR 1448C

Appendix C

Page 1

September 18, 2010 Whitney Point, New York

New York Fall Sale

LOT 5 DUTCH HOLLOW JAY VICTORIA USA 116823591

BORN 04/28/2009 TATTOO E932 / E932 P7
 FEMALE EFI 7.1%

FRANCIONE, PAUL J OWNER
 WESTTOWN, NY
 845-726-0966

PA 434M 39F 18P
 218CM\$ 193NM\$ 173FM\$

CHITTENDEN, ALAN OWEN BREEDER
 SCHODACK LANDING, NY

1.1PL -0.3PR 3.04SCS

PA TYPE 0.4 JPI 26%R 69

| ST | SR | DF | RA | RW | RL | FA |
|------|-----|-----|------|------|------|------|
| 0.3 | 0.3 | 0.8 | LO.9 | 0.2 | SO.2 | SO.3 |
| FU | RH | RW | UC | UD | TP | TL |
| -0.2 | 0.4 | 0.2 | -0.3 | DO.6 | CO.3 | LO.2 |

SELLING OPEN

SIRE:

DRB ABE JAY
 USA 067125299 G 14JES15
 USDA GPTA 08/01/2010
 69%R 396M 0.22% 59F 80%ILE
 69%R 0.08% 30P 407CM\$ 327NM\$ 259FM\$
 2.0PL -0.8DPR 2.91SCS
 AJCA 08/01/2010 ODAUS
 GPTAT 57%R 0.5 JPI 63%R 116

DAM:

DUTCH HOLLOW IMPACT VICKI
 USA 115762028 TATTOO E498 / E498
 DHIA HERD # 21-10-0357 CONTROL # 3498
 1-09 305 3 18380 5.3 977 3.4 616 101DCR 2127C
 305 2X ME AVG 1L 22151M 1207F 763P 2636C
 2-00 80%
 ST SR DF RA RW RL FA FU RH RUW UC UD TP TL
 24 25 30 26 28 26 27 22 32 35 26 24 29 30
 PPA 1386M 50F 22P / YD 603M 57F 1P
 USDA GPTA 08/01/2010 1RECS 48%R 52%ILE
 472M 18F 6P 29CM\$ 58NM\$ 86FM\$
 0.1PL 0.2PR 3.17SCS
 AJCA 08/01/2010 GPTAT 40%R 0.3 JPI 41%R 21

AHLEM LEMVIG ABE-ET

USA 111334898 G 122JES198
 USDA GPTA 08/01/2010 4690DAUS 390HRDS 22%RIP
 99%R 696M 0.13% 57F 84%ILE
 99%R 0.05% 34P 412CM\$ 355NM\$ 313FM\$
 3.0PL -0.9DPR 3.02SCS
 AJCA 08/01/2010 3391DAUS
 GPTAT 99%R 0.0 JPI 98%R 130

DEBOER JENETTAS JACE JASMIN-ET

USA 113667626 TATTOO M2154 / M2154 85%
 DHIA HERD # 21-55-0454 CONTROL # 4637
 1-09 305 2 18090 5.1 924 3.4 615 94DCR 2124C
 3-01 305 2 19520 5.3 1038 3.6 702 94DCR 2427C
 4-02 298 2 21690 5.0 1094 3.4 746 98DCR 2578C
 5-02 305 2 15840 5.2 817 3.5 548 97DCR 1893C
 305 2X ME AVG 4L 20598M 1056F 717P 2478C
 PPA 966M 94F 38P / YD 641M 59F 31P
 USDA GPTA 08/01/2010 5RECS 63%R 83%ILE
 302M 24F 12P 199CM\$ 182NM\$ 166FM\$
 1.9PL -0.1PR 2.96SCS
 AJCA 08/01/2010 GPTAT 57%R 1.0 JPI 58%R 66

DUTCH HOLLOW IMPACT-ET

USA 114698591 G 76JE158
 USDA GPTA 08/01/2010 16DAUS 2HRDS 50%RIP
 73%R 1006M -0.07% 33F 56%ILE
 73%R -0.02% 31P 260CM\$ 252NM\$ 252FM\$
 1.2PL 0.3DPR 3.00SCS
 AJCA 08/01/2010 16DAUS
 GPTAT 68%R 0.7 JPI 67%R 106

DUTCH HOLLOW BOMBER VICTORIA

USA 114698630 TATTOO E089 / E089 75%
 DHIA HERD # 21-10-0357 CONTROL # 3089
 2-01 305 3 17630 4.7 822 3.3 586 100DCR 2024C
 3-05 305 3 19650 4.5 875 3.3 642 102DCR 2216C
 4-05 305 3 19730 4.9 973 3.3 658 102DCR 2272C
 305 2X ME AVG 3L 18194M 856F 609P 2105C
 PPA 456M -14F -23P / YD -292M -20F -38P
 USDA PTA 08/01/2010 3RECS 60%R 20%ILE
 81M -1F -13P -134CM\$ -71NM\$ -18FM\$
 -0.2PL 0.2PR 3.16SCS
 AJCA 08/01/2010 PTAT 53%R -0.5 JPI 53%R -48
 SIRE: WF BROOK BOMBER JPI -16 1%ILE

SISTER(S):

DUTCH HOLLOW PARAMOUNT VACA 81%
 2-10 287 3 20880 4.8 993 3.3 684 95DCR 2362C
 DUTCH HOLLOW BIG TIME VANNA 90%
 5-00 305 3 23800 5.0 1200 3.4 816 102DCR 2819C

NEXT DAM:

DUTCH HOLLOW YASSA VACATION 91%
 6-07 305 3 26630 4.7 1241 3.2 862 98DCR 2976C
 SIRE: OSCEOLA KHAN YASSA-ET JPI -17 4%ILE

4TH DAM:

DUTCH HOLLOW SHERLOCK VAGABON 85%
 4-00 305 2 18260 4.9 903 3.5 646 DHIR 2099C

Appendix C

Page 2

September 18, 2010 Whitney Point, New York

New York Fall Sale

LOT 8 DREAMROAD JACINTO DORIS USA 067087507

BORN 06/25/2009 P4
 FEMALE ...EPI... 7.8% AMERICAN ID. 507 / 507

FRANGIONE, PAUL J OWNER
 WESTTOWN, NY
 845-726-0966

PA 106M 4F 11P
 144CM\$ 121NM\$ 109FM\$
 2.5PL -0.6PR 3.09SCS
 PA TYPE 0.1 JPI 37% 43
 ST SR DF RA RW RL FA
 -1.2 -0.2 0.2 10.2 -0.5 50.2 50.1
 FU RH RUW UC UD TP TL
 0.3 0.1 -0.1 -0.2 50.5 50.0 50.1

FERRY PHILLIPS JR MR & MRS BREEDER
 JOHNSTOWN, NY

SELLING OPEN

SIRE:

MASON LEMVIC JACINTO-ET
 USA 112037374 G 7JE667
 USDA GPTA 08/01/2010 3075DAUS 507HRDS 61%RIP
 99%R -147M 0.08% 9F 19%ILE
 99%R 0.08% 10P 147CM\$ 106NM\$ 85FM\$
 2.2PL -0.70PR 3.30SCS
 AJCA 08/01/2010 1275DAUS
 GPTAT 99%R 0.9 JPI 97%R 47

DAM:

EDGEWATERS BOLD DELIA
 USA 114289656 TATTOO D140 / D140
 DHIA HERD # 21-26-0831 CONTROL # 225
 1-10 294 2.13530 4.2 562 3.4 460 100DCR 1535C
 2-09 281 2.15570 4.2 652 3.6 555 99DCR 1813C
 3-08 294 2.16160 4.2 685 3.6 579 102DCR 1899C
 4-07 305 2.20530 4.2 865 3.5 728 102DCR 2393C
 305 2X ME AVG 4L 19966M 828F 693P 2284C
 2-04 81% 2-10 86% 3-05 90% 5-02 91%
 ST SR DF RA RW RL FA FU RH RUW UC UD TP TL
 39 38 48 20 42 29 34 35 44 40 34 19 20 32
 PPA 1186M -2F 42P / YD 957M -3F 34P
 USDA PTA 08/01/2010 4RECS 57%R 73%ILE
 358M -1F 12P 141CM\$ 135NM\$ 132FM\$
 2.7PL -0.4PR 2.88SCS
 AJCA 08/01/2010 PTAT 52%R -0.8 JPI 52%R 38

ISDK FYN LEMVIC
 JEDNK000000300003 G 1643E1
 USDA GPTA 08/01/2010 28065DAUS 2801HRDS 4%RIP
 99%R -148M 0.28% 45F 32%ILE
 99%R 0.10% 14P 235CM\$ 162NM\$ 102FM\$
 0.9PL -1.90PR 3.02SCS
 AJCA 08/01/2010 8326DAUS
 GPTAT 99%R 0.1 JPI 99%R 57

MASON DECLU JUNE 92%
 USA 003955493 G TATTOO / M612
 DHIA HERD # 82-52-0260 CONTROL # 612
 2-03 305 2.24150 4.2 1025 4.0 959 DHIR 2894C
 3-08 305 2.21190 4.2 897 3.7 793 99DCR 2469C
 305 2X ME AVG 2L 25207M 1056F 982P 2972C
 PPA 4132M 116F 165P / YD 3292M 77F 132P
 USDA GPTA 08/01/2010 2RECS 89%R 38%ILE
 229M -32F 6P -8CM\$ 5NM\$ 27FM\$
 1.8PL 0.8PR 3.18SCS
 AJCA 08/01/2010 GPTAT 85%R 0.9 JPI 86%R 17

MVF BOLD VENTURE DANIEL
 USA 000656178 G 1JE1325
 USDA GPTA 08/01/2010 8611DAUS 1358HRDS 4%RIP
 99%R 1174M -0.10% 33F 33%ILE
 99%R -0.07% 27P 141CM\$ 166NM\$ 190FM\$
 1.2PL -2.0DPR 2.90SCS
 AJCA 08/01/2010 4966DAUS
 GPTAT 99%R -1.0 JPI 99%R 57

SEACORD-FARM VIEW VERONICA 85%
 USA 111385577 TATTOO / J135
 USDA PTA 08/01/2010 ORECS 49%R 31%ILE
 -497M -28F -5P 19CM\$ -20NM\$ -56FM\$
 1.8PL 0.5PR 2.89SCS
 AJCA 08/01/2009 PTAT 38%R 0.0 JPI 44%R 1
 SIRE: DAR VIEW SKY LINE FROSTY JPI 13 9%ILE

SISTER(S):
 SEACORD FARM HALLMARK HILDA 90%
 4-04 305 2.17560 4.3 762 3.6 634 94DCR 2098C
 SEACORD-FARM FREEDOM FARRAH 91%
 4-06 305 2.20460 4.8 992 3.5 714 98DCR 2467C

NEXT DAM:
 SEACORD FARM SUNSET SUSAN 90%
 7-06 305 2.20720 4.7 980 3.7 763 94DCR 2626C
 LIFETIME OVER 150,000 LBS. OF MILK
 SIRE: FOREST GLEN LESTER SUNSET JPI -59 0%ILE

4TH DAM:
 LEW LAND ROYAL FARRAH 78%
 8-04 305 2.14390 5.2 753 3.6 524 DHIA 1704C

Appendix C

Page 3

New York Fall Sale

LOT 11 DUTCH HOLLOW IMAGINE FLAG USA 116855709

BORN 06/11/2009 TATTOO E967 / E967 P1
 FEMALE EFI 7.3%

FRANGIONE, PAUL J OWNER
 WESTTOWN, NY
 845-726-0966

PA -504M -11F -17P
 21CM\$ 27NM\$ 29FM\$
 1.6PL 0.7PR 2.91SCS
 PA TYPE 0.4 JPI 28%R -15
 ST SR DF RA RW RL FA
 -0.3 -0.5 0.1 HO.7 0.0 PO.3 SO.3
 FU RH RUW UC UD TP TL
 0.8 0.4 0.2 0.0 S1.0 CO.3 SO.4

CHITTENDEN, ALAN OWEN BREEDER
 SCHODACK LANDING, NY

SELLING OPEN

SIRE:

DUTCH HOLLOW IMAGINATION-P
 USA 115724200 G 200JE349
 USDA GPTA 08/01/2010
 73%R 48M 0.05% 10F 24%ILE
 73%R 0.02% 3P 130CM\$ 121NM\$ 113FM\$
 1.4PL 0.0DPR 2.97SCS
 AJCA 08/01/2010 ODAUS
 GPTAT 60%R 0.8 JPI 66%R 41

DAM:

DUTCH HOLLOW COALITION FLUFF
 USA 115762000 TATTOO E495 / E495
 DHIA HERD # 21-10-0357 CONTROL # 3495
 1-11 257 3 13420 4.8 640 3.2 435 98DCR 1501C
 305 2X ME AVG 1L 17826M 876F 595P 2055C
 2-00 77%
 ST SR DF RA RW RL FA FU RH RUW UC UD TP TL
 26 20 28 22 22 25 36 25 34 30 22 28 30 22
 PPA -2551M -78F -93P / YD -2096M -63F -85P
 USDA PTA 08/01/2010 1RECS 51%R 21%ILE
 -1056M -32F -36P -89CM\$ -67NM\$ -56FM\$
 1.7PL 1.3PR 2.84SCS
 AJCA 08/01/2010 PTAT 44%R 0.0 JPI 44%R -70

SISTER(S):

DUTCH HOLLOW GALAXY FLORA 81%
 3-00 298 3 18180 4.7 863 3.7 677 102DCR 2320C

SC GOLD DUST PARAMOUNT IATOLA-ET
 USA 112118277 G 29JE3301
 USDA GPTA 08/01/2010 5505DAUS 913HRDS 44%RIP
 99%R -181M 0.13% 16F 30%ILE
 99%R 0.05% 3P 185CM\$ 149NM\$ 117FM\$
 0.8PL 0.0DPR 2.98SCS

AJCA 08/01/2010 2953DAUS
 GPTAT 99%R 1.7 JPI 98%R 62

DUTCH HOLLOW LEGION MAY-P

USA 114168081 TATTOO D896 / D896 88%
 DHIA HERD # 21-10-0357 CONTROL # 2896
 1-10 305 3 18660 4.9 923 3.3 623 100DCR 2152C
 2-10 305 3 24720 4.4 1089 3.6 892 100DCR 2979C
 4-03 305 3 25830 4.1 1062 3.4 868 102DCR 2900C
 305 2X ME AVG 3L 22513M 1008F 781P 2632C
 PPA 2214M 68F 75P / YD 1902M 53F 58P
 USDA PTA 08/01/2010 4RECS 59%R 80%ILE
 70SM 24F 19P 158CM\$ 164NM\$ 174FM\$
 1.7PL -1.0PR 3.07SCS
 AJCA 08/01/2010 PTAT 54%R 1.4 JPI 53%R 69

FAMILY HILL CIR COALITION-ET

USA 114874470 G 7JE839
 USDA GPTA 08/01/2010 155DAUS 77HRDS 62%RIP
 92%R -1619M 0.22% -37F 9%ILE
 92%R 0.03% -52P 15CM\$ 17NM\$ -5FM\$
 3.9PL 2.10PR 2.68SCS
 AJCA 08/01/2010 96DAUS
 GPTAT 87%R 0.9 JPI 85%R -70

DUTCH HOLLOW ONYX FLOUNCE

USA 112613884 TATTOO D512 / D512 85%
 DHIA HERD # 21-10-0357 CONTROL # 2512
 2-01 305 3 18660 4.7 877 3.5 644 100DCR 2225C
 3-02 305 3 22080 5.0 1103 3.5 774 99DCR 2675C
 4-04 305 3 20730 4.7 977 3.6 739 100DCR 2555C
 5-04 305 3 21010 4.7 994 3.6 764 100DCR 2642C
 6-07 264 3 14480 5.0 725 3.4 492 101DCR 1699C
 305 2X ME AVG 5L 19078M 926F 675P 2332C
 PPA 193M 7F 4P / YD -557M -32F -18P
 USDA PTA 08/01/2010 5RECS 64%R 11%ILE
 -502M -28F -18P -148CM\$ -134NM\$ -126FM\$
 -0.1PL 1.2PR 3.01SCS
 AJCA 08/01/2010 PTAT 53%R -1.2 JPI 55%R -63
 SIRE: SUNBOW DECLON ONYX JPI -67 0%ILE

NEXT DAM:

DUTCH HOLLOW MALCOLM FLAIR 87%
 6-11 305 2 22770 4.8 1092 3.0 673 100DCR 2320C
 SIRE: DUNCANS PRINCE MALCOLM JPI -51 0%ILE

4TH DAM:

DUTCH HOLLOW BUCKEYE FASHION 91%
 3-02 305 2 17250 4.7 804 3.6 629 DHIR 2045C

Appendix C

Page 4

September 18, 2010 Whitney Point, New York

Appendix D

COW PAGE DH1-103

Herdcodes: Listed
 42-77-0074 8-03-10
 O STATE DAIRY

| 7069 | | | | Identification | | | | Breed | | | | Index Number | | | | Birth date | | | | Body wt. | | | | | | | | | | | | | | | | | | | |
|----------|--|--|--|----------------|--|--|--|-------|--|--|--|--------------|--|--|--|------------|--|--|--|----------|--|--|--|----------|--|--|--|------|--|--|--|------|--|--|--|--|--|--|--|
| 82434493 | | | | | | | | HO | | | | | | | | 7039 | | | | | | | | 9-09-08 | | | | | | | | 1330 | | | | | | | |
| P %Rel | | | | MILK | | | | Fat% | | | | Fat | | | | Prot% | | | | Prot | | | | Merit \$ | | | | Rank | | | | | | | | | | | |
| 57 | | | | +81 | | | | -13 | | | | -32 | | | | -01 | | | | +1 | | | | -31 | | | | 31 | | | | | | | | | | | |
| MILK | | | | Fat | | | | Prot | | | | Merit \$ | | | | Rank | | | | | | | | | | | | | | | | | | | | | | | |
| -1748 | | | | | | | | -128 | | | | | | | | -30 | | | | -259 | | | | | | | | | | | | | | | | | | | |

| Sample Day | Data | Lact No. | 2 | Fresh Date | 2-01-10 |
|------------|------|----------|------|------------|---------|
| DIM | 19 | 86 | 107 | 148 | 179 |
| MILK | 100 | 97 | 86 | 76 | 86 |
| Fat% | 4.3 | 2.2 | 2.8 | 3.0 | 2.7 |
| Prot% | 2.7 | 3.0 | 3.4 | 2.9 | 3.0 |
| SCC | 2788 | 857 | 9052 | 698 | 800 |

SCC TO THE NEAREST 1,000

| SHE NAME | | | | | | | | | | | | | | | |
|-------------------|--|--|--|------|--|--|--|----------|--|--|--|------|--|--|--|
| HIDDEN-V/ SW BEST | | | | | | | | | | | | | | | |
| P %Rel | | | | MILK | | | | Fat% | | | | Fat | | | |
| 99 | | | | +200 | | | | +13 | | | | +41 | | | |
| Prot% | | | | Prot | | | | Merit \$ | | | | Rank | | | |
| | | | | +08 | | | | +24 | | | | +72 | | | |
| 22 | | | | | | | | | | | | | | | |

| DAM | | | | | | | | | | | | | | | |
|--------------|--|--|--|------|--|--|--|----------|--|--|--|------|--|--|--|
| 124815891 HO | | | | | | | | | | | | | | | |
| P %Rel | | | | MILK | | | | Fat% | | | | Fat | | | |
| 88 | | | | +831 | | | | -24 | | | | -33 | | | |
| Prot% | | | | Prot | | | | Merit \$ | | | | Rank | | | |
| | | | | +14 | | | | -27 | | | | 32 | | | |

| MATERNAL GRANDSIRE NAME | | | | | | | | | | | | | | | |
|-------------------------|--|--|--|------|--|--|--|----------|--|--|--|------|--|--|--|
| J-L-G GEOMETRIC-ET | | | | | | | | | | | | | | | |
| P %Rel | | | | MILK | | | | Fat% | | | | Fat | | | |
| 99 | | | | +160 | | | | -10 | | | | -20 | | | |
| Prot% | | | | Prot | | | | Merit \$ | | | | Rank | | | |
| | | | | +1 | | | | -224 | | | | 0 | | | |

| Lact No. | Test Plan | Freshening Date | Age | Days Dry | Days Open | No. Serv | 305 Day Actual | | | | 3X Days | Complete Lactation | | | | 305-2X-ME | | | | Diff. from HerdMates | | | | | | | | | | | | | | | | | | | | | | |
|----------|-----------|-----------------|------|----------|-----------|----------|----------------|------|-----|-------|---------|--------------------|-------|-----|-------|-----------|------|-------|-------|----------------------|-------|------|-------|--|--|--|-----|--|--|--|-------|--|--|--|------|--|--|--|-----|--|--|--|
| | | | | | | | Milk | Fat% | Fat | Prot% | | Milk | Fat% | Fat | Prot% | Milk | Fat% | Fat | Prot% | Milk | Fat% | Fat | Prot% | | | | | | | | | | | | | | | | | | | |
| 1 | 02 | 1-20-09 | 2-07 | | 93 | 1 | 22356 | 3.1 | 683 | 3.2 | 706 | 329 | 23644 | 3.1 | 731 | 3.2 | 749 | 25709 | 779 | 801 | -1014 | -155 | +12 | | | | | | | | | | | | | | | | | | | |
| 2 | 02 | 2-01-10 | 3-07 | 48 | 153 | 1 | | | | | | 179 | 14780 | 3.1 | 451 | 3.0 | 441 | 21459 | 842 | 845 | -4203 | -228 | -101 | | | | | | | | | | | | | | | | | | | |
| | | | | | | | TOTALS | | | | 508 | | | | 38424 | | | | 23584 | | | | 711 | | | | 723 | | | | -2509 | | | | -191 | | | | -45 | | | |
| | | | | | | | AVERAGES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|--|---------|--|-------|--|---------|--|--------------|--|--------|--|------|--|--|--|----------------|--|--|--|----------|--|--|--|
| * LACT IN PROGRESS THRU SMP L | | 7-29-10 | | SMP L | | M: 65.9 | | F: 2.7 | | P: 3.0 | | | | | | | | | | | | | |
| Barn Name | | | | 7039 | | | | Index Number | | | | 7039 | | | | Identification | | | | 82434493 | | | |

Herdcode 42-77-0074
 Listed 3-03-10
 O STATE DA RY

COW PAGE DH-103

Page 2

Appendix D

| 7 | 1 | 5 | Identification | Breed | Ind ex Number | Birth date | Body wt. |
|---|-------|-------|----------------|-------|---------------|------------|----------|
| P | % Rel | Milk | 32434539 | HQ | 7115 | 7-22-06 | 1330 |
| A | 57 | +1032 | | | | | 93 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| Sample Day Data | | Lact No. | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11-03-09 |
|-----------------|-----|----------|-----|-----|-----|-----|-----|---|---|---|----|----------|
| Dis | 41 | 70 | 109 | 155 | 194 | 235 | 288 | | | | | |
| Milk | 114 | 110 | 114 | 107 | 109 | 101 | 97 | | | | | |
| Fat% | 3.7 | 3.1 | 3.8 | 3.4 | 3.2 | 3.4 | 3.5 | | | | | |
| Prot% | 2.8 | 2.7 | 2.9 | 2.9 | 2.9 | 3.0 | 3.0 | | | | | |
| SCC | 97 | 44 | 283 | 50 | 93 | 107 | | | | | | |

SCC TO THE NEAREST 1,000

| S | | I | | R | | E | | A | | M | | D | |
|----------------|-----------|---------|-----------|-----------|-----|------------|------|---|--|---|--|---|--|
| Identification | CARNATION | MANFRED | VIREAS-ET | 128530148 | HQ | 14HC003814 | | | | | | | |
| % Rel | 99 | +705 | +05 | +40 | +01 | +24 | +375 | | | | | | |

| D | | A | | M | | G | | M | | S | |
|----------------|-----------|------|------|-----|-----|----|------|---|--|---|----|
| Identification | 134404208 | HQ | 2328 | | | | | | | | |
| % Rel | 52 | +544 | -01 | +17 | -04 | +8 | +109 | | | | 95 |

| NURS | | ESDALE | | KISMET | | ELATION-ET | | 2280338 | | HQ | | 7H05247 | |
|----------------|----|--------|-----|--------|-----|------------|----|---------|--|----|--|---------|---|
| Identification | | | | | | | | | | | | | |
| % Rel | 99 | +355 | -07 | -8 | -05 | +0 | +7 | | | | | | 9 |

| Lact No. | Test | Freshening Date | Age | Days Dry | Days Open | No. Serv | 305 Day Actual | | | | 3X Days | Complete Lactation | | | | 305-2X-ME | | | | Diff. From HerdMates | | | | |
|----------|------|-----------------|------|----------|-----------|----------|-----------------|------|-------|-------|---------|--------------------|-------|-------|------|-----------|-------|-------|------|----------------------|-------|------|------|------|
| | | | | | | | Milk | Fat% | Fat | Prot% | | Prot | Days | Milk | Fat% | Fat | Prot% | Prot | A | R | Milk | Fat | Prot | Milk |
| 1 | 02 | 11-15-08 | 2-03 | 42 | 99 | 1 | 28429 | 3.8 | 1085 | 2.9 | 831 | 313 | 28998 | 3.8 | 1109 | 2.9 | 849 | 34115 | 1271 | 978 | +5402 | +292 | +141 | |
| 2 | 02 | 11-05-09 | 3-03 | | 148 | 1 | | | | | | 283 | 28518 | 3.5 | 1002 | 2.9 | 820 | 35123 | 1199 | 986 | +7653 | +254 | +185 | |
| | | | | | | | TOTALS | | | | | | | | | | | | | | | | | |
| | | | | | | | AVERAGES | 579 | 57516 | 3.7 | 2111 | 2.9 | 1899 | 34819 | 1236 | 982 | +7033 | +275 | +153 | | | | | |

* LCT IN PROGRESS THRU SMPLE 7-29-10
 SMPLE M: 96.8 F:13.6 P:3.0

| Barn Name | 7115 | Index Number | 7115 | Identification | 62434539 |
|-----------|------|--------------|------|----------------|----------|
| | | | | | |

COW PAGE DH1-103

Herdcode: 42-77-0074
Listed: 8-03-10
STATE DAIRY

| 7-7244 | Identification | Breed | Index Number | Birth date | Body wt. |
|--------|----------------|-------|--------------|------------|----------|
| 7-7244 | 52434938 | HQ | 7244 | 12-12-05 | 1330 |
| P | % Rel | Fat % | Fat | Prot % | Merit \$ |
| T | 55 | -9 | -01 | -3 | +01 |
| A | Milk | | | +2 | -80 |
| R | | | | Prot | \$S |
| A | | | | +25 | -37 |

| Sample Day | Date | Lact No. | Fresh Date | 3-05-10 |
|------------|------|----------|------------|---------|
| DML | 36 | 75 | 115 | 147 |
| Milk | 100 | 96 | 94 | 91 |
| Fat % | 3.8 | 3.5 | 3.4 | 3.3 |
| Prot % | 2.8 | 2.8 | 2.9 | 3.0 |
| SCC | 857 | 13 | 214 | 3430 |

| S | Site Name | Identification | Brd | MAAB Code |
|-----|-----------|----------------|-------|-----------|
| SPR | NGHILL-OH | ROQUOIS-ET | | |
| P | % Rel | Milk | Fat % | Fat |
| T | 99 | +887 | -10 | +3 |
| A | | | | +05 |
| | | | | +18 |
| | | | | -130 |
| | | | | 2 |

| D | Identification | Breed | Barn Name | PTA: Predicted Transmitting Ability |
|----------|----------------|--------|-----------|--|
| 60889851 | HQ | 7-6071 | | ENRA: Estimated Relative Producing Ability |
| P | % Rel | Milk | Fat % | Fat |
| T | 64 | -473 | -02 | -23 |
| A | | | | -02 |
| | | | | -18 |
| | | | | -44 |
| | | | | 29 |

| M | Maternal Grandstire Name | Identification | Brd | MAAB Code |
|---------|--------------------------|----------------|-------|-----------|
| REGREST | BRANDON-ET | 2269192 | HQ | 7H005234 |
| P | % Rel | Milk | Fat % | Fat |
| T | 99 | +533 | -10 | -8 |
| A | | | | -10 |
| | | | | -4 |
| | | | | -38 |
| | | | | 7 |

| Lact No. | Test Plan | Freighting Date | Age | Days Dry | Days Open | No. Serv | 305 Day Actual | 3x Days | Complete Lactation | 305-2X-ME | Diff. From Herdmates | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------|-----------------|--------|----------|-----------|----------|----------------|---------|--------------------|--------------------|----------------------|----------------|-------|------|-----------|------|----|------|-----|----------------------|------|--------------------|------|-----|--------|------|-----------|-----|--------|----------|------|----------------------|--|--|--|--|------|-------|-----|--------|------|------|------|-------|-----|--------|------|------|------|-------|-----|--------|------|---|------|-----|--------|------|---|------|-----|--------|------|------|-----|--------|----------|------|----|-----|-----|-----|-----|-----|-------|-----|------|-----|------|--------|-----|-----|------|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 1 | 02 | 1-25-09 | 2-01 | 43 | 123 | 2 | 21399 | 4.0 | 857 | 3.4 | 720 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 02 | 3-05-10 | 3-02 | 43 | 119 | 2 | 21399 | 4.0 | 857 | 3.4 | 720 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th colspan="5">305 Day Actual</th> <th colspan="5">3x</th> <th colspan="5">Complete Lactation</th> <th colspan="5">305-2X-ME</th> <th colspan="5">Diff. From Herdmates</th> </tr> <tr> <th>Milk</th><th>Fat %</th><th>Fat</th><th>Prot %</th><th>Prot</th> <th>Days</th><th>Milk</th><th>Fat %</th><th>Fat</th><th>Prot %</th><th>Prot</th> <th>Days</th><th>Milk</th><th>Fat %</th><th>Fat</th><th>Prot %</th><th>Prot</th> <th>A</th><th>Milk</th><th>Fat</th><th>Prot %</th><th>Prot</th> <th>A</th><th>Milk</th><th>Fat</th><th>Prot %</th><th>Prot</th> <th>Milk</th><th>Fat</th><th>Prot %</th><th>Merit \$</th><th>Rank</th> </tr> </thead> <tbody> <tr> <td>95</td><td>4.0</td><td>857</td><td>3.4</td><td>720</td> <td>508</td><td>37498</td><td>4.0</td><td>1482</td><td>3.2</td><td>1215</td> <td>258854</td><td>981</td><td>807</td><td>-353</td><td>+72</td><td>+38</td> <td></td><td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td><td></td> </tr> </tbody> </table> | | | | | | | | | | | | 305 Day Actual | | | | | 3x | | | | | Complete Lactation | | | | | 305-2X-ME | | | | | Diff. From Herdmates | | | | | Milk | Fat % | Fat | Prot % | Prot | Days | Milk | Fat % | Fat | Prot % | Prot | Days | Milk | Fat % | Fat | Prot % | Prot | A | Milk | Fat | Prot % | Prot | A | Milk | Fat | Prot % | Prot | Milk | Fat | Prot % | Merit \$ | Rank | 95 | 4.0 | 857 | 3.4 | 720 | 508 | 37498 | 4.0 | 1482 | 3.2 | 1215 | 258854 | 981 | 807 | -353 | +72 | +38 | | | | | | | | | | | | | | | |
| 305 Day Actual | | | | | 3x | | | | | Complete Lactation | | | | | 305-2X-ME | | | | | Diff. From Herdmates | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Milk | Fat % | Fat | Prot % | Prot | Days | Milk | Fat % | Fat | Prot % | Prot | Days | Milk | Fat % | Fat | Prot % | Prot | A | Milk | Fat | Prot % | Prot | A | Milk | Fat | Prot % | Prot | Milk | Fat | Prot % | Merit \$ | Rank | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 95 | 4.0 | 857 | 3.4 | 720 | 508 | 37498 | 4.0 | 1482 | 3.2 | 1215 | 258854 | 981 | 807 | -353 | +72 | +38 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| LIFETIME | Number of Lactations | 2 | Reproductive Efficiency | 95 | Average Milk/Day | 53.0 |
|----------------------|----------------------|--------------|-------------------------|----------------|------------------|--------|
| LCT IN PROGRESS THRU | SMPL | 7-29-10 | | | | |
| SMPL M: 90.7 | F: 3.3 | P: 3.0 | | | | |
| Barn Name | 7-7244 | Index Number | 7244 | Identification | 52434938 | 7-7244 |

Appendix D

COW PAGE DH1-103

Herdcode: Listed
 42-77-0074 8-03-10
 O STATE DAIRY

| P | % Rel | Milk | | Fat % | | Prot % | | Milk \$ | | Mknt \$ | | Rank |
|------|-------|----------|------|-------|------|--------|------|----------|---|---------|--|------|
| | | + | - | + | - | + | - | + | - | | | |
| 7513 | | 53428828 | | HQ | | 7513 | | 10-15-07 | | 1210 | | |
| 1 | 52 | +2058 | -.04 | +53 | -.01 | +82 | +259 | | | 89 | | |
| A | | Milk | | Fat | | Prot | | Mknt \$ | | Rank | | |
| | | +6332 | | +152 | | +159 | +980 | | | | | |

| DIA | 95 | Milk | | Fat % | | Prot % | | Milk \$ | | Mknt \$ | | Rank |
|-----|-----|------|-----|-------|-----|--------|-----|---------|--|---------|--|------|
| | | + | - | + | - | + | - | | | | | |
| 23 | 87 | 118 | 152 | 201 | 240 | 281 | 312 | | | | | |
| 105 | 107 | 108 | 108 | 105 | 94 | | | | | | | |
| 4.8 | 3.3 | 3.4 | 2.7 | 2.3 | 2.8 | 3.4 | | | | | | |
| 2.8 | 2.9 | 2.7 | 2.9 | 3.1 | 3.0 | 3.0 | | | | | | |
| 29 | 31 | 35 | 17 | 23 | 18 | 17 | 50 | | | | | |

SCC TO THE NEAREST 1,000

| S | % Rel | Milk | | Fat % | | Prot % | | Milk \$ | | Mknt \$ | | Rank |
|-----------|-------|--------|-------|-------|------|--------|------|---------|--|---------|--|------|
| | | + | - | + | - | + | - | | | | | |
| 131823833 | | 3-5383 | | HQ | | 312 | | | | | | |
| 1 | 99 | +1985 | +1.02 | +80 | -.03 | +55 | +384 | | | 79 | | |

| D | % Rel | Milk | | Fat % | | Prot % | | Milk \$ | | Mknt \$ | | Rank |
|----|-------|------|---|-------|---|--------|---|---------|--|---------|--|------|
| | | + | - | + | - | + | - | | | | | |
| 58 | | +539 | | -.04 | | +8 | | +1.05 | | +30 | | -181 |

| M | % Rel | Milk | | Fat % | | Prot % | | Milk \$ | | Mknt \$ | | Rank |
|----|-------|-------|---|-------|---|--------|---|---------|--|---------|--|------|
| | | + | - | + | - | + | - | | | | | |
| 96 | | +1148 | | -.08 | | +24 | | +1.02 | | +40 | | +11 |

| Lact No | Test Plan | Freshening Date | Age | Days Dry | Days Open | No. Serv | 305 Day Actual | | | 3X Days | Complete Lactation | | | 305-2X-ME | | | Diff. From Herdmates | | | | | | |
|---------|-----------|-----------------|------|----------|-----------|----------|----------------|-------|--------|-----------------|--------------------|-------|--------|-----------|-------|--------|----------------------|--------|------|------|--------|------|------|
| | | | | | | | Milk | Fat % | Prot % | | Milk | Fat % | Prot % | Milk | Fat % | Prot % | | | | | | | |
| 102 | | 9-21-09 | 1-11 | | 312 | 1 | 31736 | 3.3 | 1082 | 2.9 | 933 | 312 | 32403 | 3.3 | 1085 | 2.9 | 953 | 41574 | 1349 | 1185 | +12883 | +304 | +317 |
| | | | | | | | TOTALS | | | AVERAGES | | | | | | | | | | | | | |
| | | | | | | | 104 | 112.5 | 312 | 32403 | 3.3 | 1085 | 2.9 | 953 | 41574 | 1349 | 1185 | +12883 | +304 | +317 | | | |

* LCT IN PROGRESS THRU SMP L 7-29-10

SMP L M: 94.0 F: 3.4 P: 3.0

| | | | | | |
|-----------|------|--------------|------|----------------|----------|
| Barn Name | 7513 | Index Number | 7513 | Identification | 53428828 |
|-----------|------|--------------|------|----------------|----------|

2010 Iowa FFA Dairy Cattle Evaluation CDE Key

Test Key

1. D
2. B
3. B
4. C
5. D
6. D
7. A
8. C
9. B
10. C
11. B
12. C
13. C
14. C
15. D
16. B
17. C
18. A
19. A
20. C
21. C
22. B
23. B
24. A
25. B

DHIA Questions

51. D
52. C
53. D
54. B
55. B

Dairy Management

56. B
57. C
58. D
59. C
60. B

Sire Summary

61. D
62. C
63. C
64. A
65. B

Pedigree Evaluation

66. C
67. A
68. A
69. D
70. D

Phase E Pedigree Placing

Placing 2 - 1 - 3 - 4 Cuts 5 - 2 - 6

- 2 - Highest NM\$, FM\$, CM\$, PA type, JPI
- 1 - 2nd high NM\$, FM\$, close numbers to #3 for CM\$, JPI
- 3 - Close to #1 except lower PA type
- 4 - Lowest numbers for NM\$, FM\$, CM\$
Lowest JPI, high PA type

Phase F -- Sire Evaluation

Placing 1 - 2 - 3 - 4 Cuts 5 - 2 - 3

- 1 - Highest PTA milk, 2nd NM\$, Increase component value, Highest PTA type, Highest JPI, Strong udder traits
- 2 - Highest value components, Highest net merit \$
Low SCC, most udder traits are good but lowest milk production, SCE lowest % difficult birth
- 3 - 2nd high PTA milk, lowest NM\$, Lowest component values, good values on udder traits
- 4 - Lowest PTA values on udder traits, Lowest JPI, 3rd in milk, 3rd NM\$, Lowest in protein

Phase G -- Culling Class

Placing 1 - 3 - 2 - 4 Cuts 4 - 6 - 2

- 1 - Lowest production records
Lowest differences over herdmates--negative values, extremely high SCC scores, Positive breeds back on regular basis
- 3 - Lower production record, variable SCC scores - extremely high last test, breeds back on regular basis, positive differences over herdmates
- 2 - 2nd best production record, 2nd best value over herdmates, SCC scores vary, some moderate, some low, breeds back regularly - makes a closer bottom pair
- 4 - Best overall production record (ME)
Best positive value over herdmates (especially protein), High quality milk (lowest SCC scores) ,
Negative --open 312 days