

2019 Iowa FFA Dairy Cattle Evaluation CDE Test
Manchester, Iowa September 14, 2019

Mark the best answer in the proper blank on the scan form.

25 Objective Questions -- 2 pts. Each

1. What was the average U.S. mailbox milk price in 2018?
a. \$14.85 b. \$15.72 c. \$16.86 d. \$17.38
2. At what age do dairy cattle develop upper incisors?
a. Birth b. 3 days c. 3 months d. Never
3. What is the name of milk sugar?
a. Dextrose b. Fructose c. Lactose d. Sucrose
4. How many gallons of manure does an average cow pass every day?
a. 15 gallons b. 23 gallons c. 17 gallons d. 13 gallons
5. At birth, which stomach area is the largest in the calf?
a. Abomasum b. Omasum c. Reticulum d. Rumen
6. Which of the following hormones is not directly associated with reproduction?
a. Progesterone b. Adrenaline c. Estrogen d. Testosterone
7. Colostrum contains how many times more protein than regular milk?
a. Three b. Four c. One d. Two
8. Where is oxytocin stored and released?
a. Ovarian follicle b. Corpus luteum c. Pituitary gland d. Adrenal gland
9. Cows exposed to sunlight will readily make which vitamin on their own?
a. A b. D c. E d. K
10. The time period that a cow carries a calf is called?
a. Gestation b. Lactation c. Parturition d. Rumination
11. Dystocia refers to:
a. Energy consumption b. Herd health c. Mastitis d. Calving ease
12. On an annual basis, what percent of the total U.S. dairy herd is culled each year?
a. 20% b. 25% c. 30% d. 35%

13. Milk fever is a major cause of cows going down. What mineral deficiency most commonly causes it?
- a. Calcium
 - b. Iron
 - c. Magnesium
 - d. Zinc
14. This substance forms in the tip of each teat when the cow is dry. It aids in sealing the teats to prevent infection in the udder.
- a. Keratin
 - b. Mucus
 - c. Opaque
 - d. Skin
15. The amount of time a cow ruminates or chews her cud can be an indicator of cow health. Healthy cows tend to ruminate how many minutes per day?
- a. 600-720 minutes
 - b. 450-550 minutes
 - c. 250-350 minutes
 - d. 60-120 minutes
16. Which of the following is a source of non-protein nitrogen?
- a. Urea
 - b. Corn grain
 - c. Soybean meal
 - d. Linseed meal
17. "UHT" milk is pasteurized at what approximate minimum temperature in degrees Fahrenheit?
- a. 145 degrees
 - b. 161 degrees
 - c. 191 degrees
 - d. 280 degrees
18. Until how many hours old will a calf's intestine absorb the disease-fighting ingredients in colostrum?
- a. 48 hours
 - b. 24 hours
 - c. 12 hours
 - d. 4 hours
19. When evaluating calf health, what is the goal for heart rate?
- a. 40-80 beats per minute
 - b. 120-160 beats per minute
 - c. 80-120 beats per minute
 - d. 160-200 beats per minute
20. Most fatty acids that a cow can absorb in the small intestine are in what form?
- a. Linoleic acid
 - b. Oleic acid
 - c. Palmitic acid
 - d. Stearic acid
21. The majority of calfhood immunity is passed from the mother to the calf via what route?
- a. Umbilical cord
 - b. Placenta
 - c. Colostrum
 - d. Immunization
22. Which age group of cattle are most susceptible to milk fever?
- a. Breeding heifers
 - b. Calves
 - c. Second and greater lactation cows
 - d. First lactation cows
23. What are two main factors that dictate dry matter intake?
- a. Breed/time of year
 - b. Milk yield/body size
 - c. Milk yield/stage of lactation
 - d. Milk yield/time of year
24. What is the main support system holding the udder close to the cow's body wall?
- a. Skin & subcutaneous connective tissue
 - b. Sustentacular apparatus
 - c. Medial suspensory ligament
 - d. Lateral suspensory ligament

25. What is the term used to describe the utilization of a drug for a disease not mentioned on its label or at a higher or lower dose than recommended by the label?

- a. Flexible use rate
- b. Off-label use of drugs
- c. VCP subscribed drugs
- d. Extra-label use of drugs

DHIA Questions -- 5 pts each

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

26. Which breed is represented on the DHI-202 Herd Summary?

- a. Holstein
- b. Crossbred
- c. Guernsey
- d. Jersey

27. What age group represents the majority of the cows?

- a. 1st lactation
- b. 2nd lactation
- c. 3+ lactation
- d. Heifers

28. What is the main reason that cows left the herd?

- a. Low production
- b. Reproduction
- c. Udder
- d. Disease

29. What is the average body weight of the 2nd lactation cows?

- a. 880#
- b. 960#
- c. 1010#
- d. 1050#

30. What is the rolling herd average for protein on the 8-15-19 test date?

- a. 56#
- b. 744#
- c. 609#
- d. 1022#

Dairy Management Problems -- 5 pts each

31. What is the cost per cwt. of ground ear corn if ear corn sells for \$3.10/bu (70#/bu) and grinding is \$.41 per cwt?

- a. \$4.04
- b. \$4.27
- c. \$4.43
- d. \$4.84

32. You want to make a 15.5% protein ration using 9.1% protein corn and 43.5% protein soybean meal. You are feeding 400# of oats with 13% protein in the ration. How many pounds of corn are needed to make a one ton ration?

- a. 1627#
- b. 1273#
- c. 374#
- d. 327#

33. What is the percent protein in the the following ration?

| | lbs | |
|---------------------|------|-------|
| Corn Silage | 900 | 3.5% |
| Ground shelled corn | 825 | 9.1% |
| Whole cottonseed | 225 | 22.2% |
| Haylage | 1800 | 9.8% |
| Hay | 525 | 19.1% |
| Protein Mix | 350 | 42.5% |
| Minerals | 200 | 0% |

- a. 12.06% b. 12.92% c. 13.66% d. 13.91%

34. What is the component value of a hundredweight of milk if the farm produces 451,000 pounds of milk with the following:

| <u>Components</u> | | <u>\$Basis Milk Value</u> |
|-------------------|---------|---------------------------|
| Butterfat | 4.45% | 1.215 |
| Protein | 4.3% | 1.85 |
| Solids | 5.71% | .0415 |
| SCC | 240,000 | .31 |

- a. \$13.74 b. \$13.91 c. \$14.12 d. \$14.34

35. You purchased the following hay at the Rock Valley Hay Auction. Which is the most expensive per pound of protein?

| | | %protein |
|---------------------------------|--------------|----------|
| Large round 2nd cutting Alfalfa | \$130.00/ton | 15.1 |
| Large round 1st cutting Grass | \$128.00/ton | 14.1 |
| 3x4 bales 3rd cutting Alfalfa | \$142.50/ton | 16.8 |
| Small square 3rd cutting Grass | \$125.00/ton | 13.9 |

- a. Large round 2nd cutting Alfalfa c. 3x4 bales 3rd cutting Alfalfa
 b. Large round 1st cutting Grass d. Small square 3rd cutting Grass

Sire Evaluation Questions -- 5 pts each

Refer to **Appendix B (August 2019 Active AI Guernsey Sires)** to answer the following questions.

36. Which of the following bulls has the poorest longevity factor?
- a. Coulee Crest Conqueror Logo
 - b. Idle Neer Concert
 - c. Lang Haven Alstar Navarro - ET
 - d. Moziers Spider Kingston
37. Which sire should increase the component value of his daughters?
- a. Coulee Crest Fame Latimer - ET
 - b. Idle Neer Concert
 - c. Golden I London
 - d. Spring Walk SherbertsToro - ET
38. Which sire has the poorest transmitting ability for type?
- a. Knapps Challenge Ambition - ET
 - b. Pookie Lil Ernie
 - c. Rozelyn Goliaths Jonathan - ET
 - d. Springhill Jokes Jaquar - ET
39. Which sire has the best traits for the mammary system?
- a. Breezy Point Grumpy Orbit
 - b. Coulee Crest Grumpy Legend - ET
 - c. Indian Acres American Pie
 - d. Spring Walk Sherberts Toro - ET
40. Which sire has the best advantage in the combination of stature and feet/legs?
- a. Coulee Crest Fame Latimer - ET
 - b. Coulee Crest Grumpy Legend - ET
 - c. Dix Lee Jester Freedom
 - d. Ripley Farms Pie C Toby

Pedigree Questions -- 5 pts each

Refer to **Appendix C** to answer the following questions.

| | | |
|----|-------|----------------------------------|
| #1 | Lot 4 | Blue - Spruce B-King Bonnie - ET |
| #2 | Lot 5 | Old-N-Lazy PBR Wahoo - ET |
| #3 | Lot 6 | Pleasant - Knob D Gezelle - ET |
| #4 | Lot 8 | Maple - Dell Berkely Dasi - ET |

41. The P9 in heifer #1 pedigree means the top 90% of animals born within a given year of birth for what trait?
- a. Pedigree
 - b. Performance
 - c. Point Index
 - d. Production
42. Which heifer is the oldest?
- a. #1
 - b. #2
 - c. #3
 - d. #4
43. Which heifer is the lowest percent Ayrshire?
- a. #1
 - b. #2
 - c. #3
 - d. #4
44. This heifer's grand dam has the only show ring winner in the pedigree?
- a. #1
 - b. #2
 - c. #3
 - d. #4

45. What is the name of the paternal grand dam of heifer #2?
- a. Palmyra Bending Berkely - ET
 - b. Palmyra Poker LH Rosy - ET
 - c. Forever Schoon Ping
 - d. DeLa Remington Wing - ET

46. 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 | Blue - Spruce B-King Bonnie - ET |
| #2 | Lot 5 | Old-N-Lazy PBR Wahoo - ET |
| #3 | Lot 6 | Pleasant - Knob D Gezelle - ET |
| #4 | Lot 8 | Maple - Dell Berkely Dasi - ET |

47. Phase F -- Sire Evaluation

You are a Brown Swiss dairy producer who wants cows that have good, well-attached udders, sound feet and legs as well as dairy form and stature as these cows do best in your system. You have several customers who would like to enter the show circuit so you are placing a high emphasis on potential show ring winners. 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 on the next “hot” bull. Consequently you want to use one of the following four sires who only have a genomic proof. Using **Appendix D** (PBSS Young Sires) which sire should be your first, second, third and fourth choice to use on these heifers.

- #1 Blue Ribbon #2 Comanche #3 Jeopardy #4 Zoolander

48. 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 high volumes of high quality milk with emphasis on reproductive efficiency. You had a first-calf heifer freshen this morning and you want to cull one of the following four cows to make room for this fresh heifer. Use the attached DHI-103 Cow Pages (**Appendix E**) 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 Index 10221 #2 Index 10470 #3 Index 10640 #4 Index 10969

Appendix A

HERD SUMMARY

42-77-0074

DHI-202

Test Date 08-15-2019
Samples at Lab 08-16-2019
Processed 08-16-2019

IO STATE DAIRY

0000

Electronic Meters

| | | | | | | | | | |
|-------|----|-----------|----------|--------|-----|-------|----|--------|---|
| Breed | JE | Type Test | DHI-APCS | Assoc. | 400 | Supv. | 97 | String | 3 |
|-------|----|-----------|----------|--------|-----|-------|----|--------|---|

Production, Income & Feed Cost Summary

| Daily Average per Cow on Test Day | Rolling Yearly Herd Averages | | | | |
|-------------------------------------|------------------------------|-------|-------|-------|-------|
| | Number | % | | | |
| Total Cows | 16 | 14.8 | | | |
| Cows in Milk | 14 | 88 | | | |
| Milk Lbs (All Cows) | 56.0 | 20039 | | | |
| Fat Lbs (All Cows) | 2.65 | 1022 | | | |
| Fat % | 4.7 | 5.1 | | | |
| Protein Lbs (All Cows) | 2.08 | 744 | | | |
| Protein % | 3.7 | 3.7 | | | |
| Milk Lbs (Milking Cows) | 64.0 | | | | |
| Milking Cows | All Cows | | | | |
| Lbs Consumed | Lbs Consumed | %ENE | | | |
| Other Succulents or Blended Rations | Lbs Consumed | %ENE | | | |
| Dry Forage | Lbs Consumed | %ENE | | | |
| Other Feeds | Lbs Consumed | %ENE | | | |
| Pasture | Days | %ENE | | | |
| Concentrates | Lbs Consumed | %ENE | | | |
| Value of Product \$ | 15.34 | 13.42 | | | |
| Cost of Concentrates \$ | | 4501 | | | |
| Total Feed Cost \$ | | | | | |
| Income Over Feed Cost \$ | | | | | |
| Feed Cost per CWT Milk \$ | | | | | |
| Milk Blend Price | Per CWT | % Fat | % Pro | % Fat | % Pro |

Reproductive Summary Of Current Breeding Herd

| | | | | | |
|--------------------------|---|--------------------------------|----|----------------------|----|
| Total Cows Breeding Herd | 6 | Voluntary Waiting Period (VWP) | 75 | Days to 1st Service | 75 |
| Number Under VWP | 6 | Number Over 100 Days | 50 | Open VWP to 100 Days | 2 |
| Number Under VWP | 6 | Number Cows | 50 | Open Over 100 Days | 33 |
| Number Under VWP | 6 | Number Cows | 50 | Open Over 100 Days | 33 |

Reproductive Summary Of Total Herd

| Services per Preg. Cows | Preg. Cows | All Cows | Projected Minimum | Days Open | Days to 1st Service | Avg. Days to 1st Service | Days Open at 1st Service | | Services per Preg. Cows | Preg. Cows | All Cows | Projected Minimum | Days Open | Days to 1st Service | Avg. Days to 1st Service |
|-------------------------|------------|----------|-------------------|-----------|---------------------|--------------------------|--------------------------|-----------------|-------------------------|------------|----------|-------------------|-----------|---------------------|--------------------------|
| | | | | | | | Number Under VWP | Number Over 100 | | | | | | | |
| 1st Lact | 3 | 1.3 | 12.1 | 87 | 73 | 73 | 3 | 4 | 1.3 | 1.3 | 12.1 | 87 | 73 | 73 | 73 |
| 2nd Lact | 4 | 1.0 | 13.8 | 138 | 75 | 75 | 4 | 6 | 1.0 | 1.0 | 13.8 | 138 | 138 | 75 | 75 |
| 3+ Lacts | 6 | 2.2 | 12.8 | 110 | 73 | 73 | 6 | 13 | 2.2 | 2.4 | 12.8 | 110 | 110 | 73 | 73 |
| All Lacts | 13 | 1.8 | 12.9 | 111 | 74 | 74 | 13 | 100 | 1.8 | 2.8 | 12.9 | 111 | 111 | 74 | 74 |
| % of All 1st Services | 100 | | 11.5 | | | | 100 | | | | 11.5 | | | | |

Birth Summary

| Dam's Lact Num | Males | | Females | | Offspring Born | | | | |
|----------------|-------|------|---------|------|----------------|---|---|-----|------|
| | Alive | Dead | Alive | Dead | 1 | 2 | 3 | 4-5 | %4-5 |
| 1 | 1 | 4 | 1 | 3 | 1 | 1 | 1 | 1 | 14 |
| 2+ | 1 | 10 | 4 | 1 | 1 | 1 | 1 | 1 | 14 |
| Total | 2 | 14 | 7 | 2 | 1 | 1 | 1 | 1 | 9 |

Cows To Be Milking, Dry, Calving By Month

| | Sep | Oct | Nov | Dec | Jan | Feb |
|------------------|-----|-----|-----|-----|-----|-----|
| * Milking | 15 | 14 | 13 | 14 | 13 | 12 |
| Dry | 1 | 2 | 3 | 2 | 3 | 4 |
| Cows to Calve | 1 | 1 | | 2 | 1 | 1 |
| Heifers to Calve | | | | | | |

* Assumes 0.9% per month culling rate.

Yearly Reproductive Summary

| Test Date | % Heats Obs. | Conception Rate | Preg Rate | Number Services | Number Confirm Preg | Number Calving | Total Preg Cows |
|-----------|--------------|-----------------|-----------|-----------------|---------------------|----------------|-----------------|
| 9-20-18 | 65 | 67 | 40 | 3 | 1 | 1 | 11 |
| 10-24-18 | 65 | 0 | 0 | 1 | 2 | 1 | 9 |
| 12-05-18 | 64 | 0 | 0 | 3 | 1 | 1 | 8 |
| 1-17-19 | 60 | 50 | 40 | 4 | 2 | 2 | 7 |
| 2-27-19 | 44 | 0 | 0 | 2 | 4 | 4 | 6 |
| 4-04-19 | 38 | 100 | 60 | 3 | 2 | 2 | 5 |
| 5-10-19 | 79 | 25 | 11 | 4 | 3 | 1 | 7 |
| 6-06-19 | 66 | 20 | 17 | 5 | 2 | 2 | 6 |
| 7-10-19 | 77 | 33 | | 6 | 1 | 2 | 6 |
| 8-15-19 | 57 | | | 4 | 3 | | 9 |
| Averages | 62 | 33 | 23 | 4 | 1 | 2 | 7 |
| Totals | | | | 35 | | 17 | |

Miscellaneous Herd Information

| | | |
|-----------------------------------|----------|-------------|
| Shipped-Test Day Comparison | Test Day | Yearly Avg. |
| | 896 | 791 |
| Sum of Test Day Wts | 896 | 791 |
| Reported Avg. Daily Bulk Tank Wts | | |
| % Deviation | | |

Remarks:

Cows milked 3 times daily for all or part of this yearly period.

Appendix B

August 2019 Active AI Guernsey Sires

Production

| Reg.# | NAAB Code | Bull Name | # | | Yield Deviation | | | | | | | | | | | | | | | |
|----------|------------|--------------------------------|-------|-----|-----------------|------|------|------|-----|--------|------|-----|------|-----|------|-------|------|----|------|----|
| | | | herds | dau | REL | PL | Milk | % | Fat | % Prot | NM\$ | DPR | REL | SCC | Milk | Fat | Prot | A2 | PTI | |
| 68047797 | 001GU00446 | RIPLEY FARMS PIE C TOBY | 18 | 41 | 84 | 3.4 | 443 | .06 | 30 | .04 | 22 | 324 | 0.0 | 52 | 2.67 | 613 | 41 | 30 | A2A2 | 98 |
| 68039423 | 054GU00481 | **GOLDEN I LONDON | 9 | 19 | 68 | 0.5 | 790 | -.05 | 27 | .00 | 26 | 204 | 0.1 | 31 | 2.90 | 1,255 | 36 | 40 | A2A2 | 92 |
| 68048419 | 001GU00448 | COULEE CREST CONQUEROR LOGO | 27 | 57 | 86 | 3.1 | 563 | -.02 | 21 | -.01 | 17 | 270 | 0.5 | 52 | 2.74 | 452 | 15 | 17 | A2A2 | 85 |
| 68045040 | 007GU00451 | COULEE CREST GRUMPY LEGEND-ET | 104 | 280 | 94 | 0.7 | 541 | -.06 | 14 | .03 | 23 | 97 | -1.8 | 77 | 3.08 | 616 | 13 | 23 | A2A2 | 78 |
| 68027067 | 031GU00627 | MOZIERS SPIDER KINGSTON | 29 | 78 | 90 | -0.5 | 811 | .06 | 47 | .03 | 32 | 227 | -0.9 | 61 | 3.20 | 965 | 55 | 36 | A1A2 | 77 |
| 68025916 | 001GU00441 | SPRING WALK SHERBERTS TORO-ET | 72 | 174 | 94 | 0.1 | 336 | .13 | 39 | .03 | 16 | 180 | -2.0 | 70 | 2.95 | 431 | 46 | 19 | A2A2 | 66 |
| 78004779 | 007GU00467 | PAOKIE LIL ERNIE | 18 | 32 | 77 | 1.3 | 486 | -.03 | 16 | -.05 | 7 | 128 | -0.1 | 43 | 2.95 | 318 | 7 | -1 | A2A2 | 60 |
| 68045934 | 001GU00445 | LANG HAVEN ALSTAR NAVARRO-ET | 18 | 37 | 84 | 1.8 | 777 | -.12 | 12 | -.03 | 19 | 142 | 0.8 | 53 | 3.13 | 734 | 5 | 19 | A2A2 | 50 |
| 78001154 | 076GU00810 | COULEE CREST FAME LATIMER-ET | 20 | 39 | 81 | 0.0 | 209 | -.08 | -5 | .04 | 14 | -34 | -1.9 | 49 | 3.02 | -204 | -25 | 5 | A2A2 | 50 |
| 78003274 | 031GU00634 | BREEZY POINT GRUMPY ORBIT | 18 | 32 | 78 | 2.4 | 296 | .00 | 13 | .02 | 13 | 222 | 1.3 | 48 | 2.99 | 613 | 30 | 20 | A2A2 | 49 |
| 68028106 | 100GU00886 | VALLEY GEM ROZELYN L DANIEL-ET | 12 | 37 | 84 | 1.8 | 176 | .00 | 7 | .01 | 7 | 89 | -0.9 | 53 | 3.00 | 95 | 5 | 7 | A2A2 | 47 |
| 68031529 | 007GU00458 | SPRINGHILL JOKES JAGUAR-ET | 37 | 71 | 88 | 1.8 | 149 | .00 | 6 | -.04 | -2 | 121 | 0.6 | 54 | 2.78 | 11 | 3 | -6 | A2A2 | 40 |
| 68048678 | 054GU00470 | **IDLE NEER CONCERT | 8 | 17 | 70 | 2.3 | 688 | -.07 | 18 | -.10 | 5 | 161 | -1.7 | 39 | 3.16 | 675 | 15 | 1 | A2A2 | 39 |
| 68016348 | 031GU00618 | INDIAN ACRES AMERICAN PIE | 91 | 263 | 96 | 4.0 | 334 | -.15 | -12 | -.04 | 3 | 94 | -0.5 | 83 | 2.74 | 306 | -16 | 1 | A2A2 | 37 |
| 68019633 | 031GU00620 | **KNAPPS CHALLENGE AMBITION-ET | 10 | 18 | 73 | 0.1 | 261 | -.07 | 0 | .05 | 18 | 66 | -0.1 | 41 | 2.98 | 591 | 7 | 29 | A2A2 | 26 |
| 68010155 | 031GU00621 | ROZELYN GOLIATHS JONATHAN-ET | 17 | 43 | 86 | 3.4 | -471 | .20 | 13 | .05 | -7 | 239 | 4.5 | 56 | 2.63 | -407 | 18 | -5 | A2A2 | 16 |
| 68033645 | 049GU00140 | DIX LEE JESTER FREEDOM | 8 | 16 | 67 | -1.3 | -188 | .00 | -8 | .04 | 0 | -91 | -0.7 | 34 | 2.90 | -33 | -9 | 7 | A2A2 | 2 |

** These bulls have NOT been genomic tested. The other animals have been and their proof is a blend between genomic results and the daughter proof information.**

Type

| Name | # | Body Dairy RumpThurl | | | | | | | | | | | | | | Legs Legs Foot | | | | | | | | Fore Rear Rear Udder Udder Teat Teat | | | | | | | |
|--------------------------------|-----|----------------------|------|------|------|------|------|------|-------|------|-------|-------|------|------|-------|----------------|------|-------|-------|-------|-------|--------|--|--------------------------------------|--|--|--|--|--|--|--|
| | | Appr | REL | FLC | UDC | PTAT | Stat | Strn | Depth | Form | Angle | Width | Side | Rear | Angle | Attch | Hght | Width | Cleft | Depth | Place | Length | | | | | | | | | |
| RIPLEY FARMS PIE C TOBY | 30 | 82 | 2.6 | 0.2 | 0.5 | -1.0 | -1.2 | -1.1 | 0.0 | H1.6 | -1.2 | P0.4 | S1.4 | 0.5 | 0.4 | 0.2 | 0.0 | -0.1 | S0.5 | 0.0 | -0.3 | | | | | | | | | | |
| **GOLDEN I LONDON | 11 | 60 | 2.1 | 0.5 | 1.7 | 2.9 | 1.5 | 1.7 | 2.6 | H0.2 | 1.2 | S0.6 | S0.9 | 0.8 | 0.2 | 1.6 | 2.7 | 0.9 | D0.5 | 0.0 | 1.0 | | | | | | | | | | |
| COULEE CREST CONQUEROR LOGO | 41 | 82 | 0.7 | 1.3 | 0.6 | -1.6 | 0.5 | -0.8 | -1.9 | H1.3 | -0.2 | P0.4 | H0.1 | 0.5 | 2.1 | 1.9 | -1.2 | 0.4 | S1.8 | W0.1 | -1.6 | | | | | | | | | | |
| COULEE CREST GRUMPY LEGEND-ET | 214 | 92 | 2.3 | 1.6 | 1.6 | 1.7 | 1.2 | 0.9 | 1.0 | H0.4 | 1.2 | P0.4 | S0.8 | 0.8 | 1.8 | 1.3 | 0.7 | 1.0 | S1.6 | C1.4 | 1.2 | | | | | | | | | | |
| MOZIERS SPIDER KINGSTON | 51 | 86 | -0.2 | -0.4 | 0.1 | -0.5 | -0.2 | 0.4 | 1.4 | 0.0 | -0.3 | P0.1 | S0.3 | -0.4 | -0.1 | 1.4 | 0.9 | -1.3 | D1.2 | C0.1 | -1.2 | | | | | | | | | | |
| SPRING WALK SHERBERTS TORO-ET | 106 | 92 | 1.8 | 0.3 | 0.8 | 1.3 | -0.3 | -0.1 | 1.6 | L0.5 | 0.4 | S0.1 | S1.0 | 0.4 | -0.3 | -0.2 | 1.1 | 0.3 | D0.3 | C1.5 | 0.1 | | | | | | | | | | |
| PAOKIE LIL ERNIE | 11 | 63 | 1.8 | 1.0 | 1.1 | 0.4 | 0.6 | -0.1 | -0.6 | H0.8 | 0.4 | P0.8 | S0.3 | 0.8 | 1.7 | 1.4 | -0.4 | -0.2 | S1.3 | C0.6 | -0.2 | | | | | | | | | | |
| LANG HAVEN ALSTAR NAVARRO-ET | 17 | 76 | 0.4 | -0.6 | 0.5 | -0.7 | 0.3 | -0.4 | 0.0 | H0.1 | -0.5 | S0.2 | H0.3 | 0.6 | 0.2 | -0.3 | 0.0 | -0.8 | D1.1 | W0.2 | 0.3 | | | | | | | | | | |
| COULEE CREST FAME LATIMER-ET | 22 | 73 | 2.8 | 1.8 | 2.2 | 3.7 | 2.2 | 2.0 | 1.3 | H0.5 | 2.3 | P0.2 | S1.0 | 1.0 | 2.1 | 3.0 | 0.9 | 0.8 | S1.4 | C1.3 | 0.4 | | | | | | | | | | |
| BREEZY POINT GRUMPY ORBIT | 14 | 66 | -0.2 | 0.2 | 0.0 | -2.3 | -1.2 | -1.5 | -0.6 | H0.1 | -1.0 | P0.4 | H0.6 | 0.3 | 0.3 | -0.1 | -0.4 | -0.2 | S0.6 | C0.4 | -0.8 | | | | | | | | | | |
| VALLEY GEM ROZELYN L DANIEL-ET | 37 | 82 | 1.8 | 1.1 | 0.8 | 0.5 | 0.2 | 0.1 | 0.1 | L1.3 | 0.1 | S0.1 | S0.8 | 0.6 | 1.3 | 0.3 | 0.1 | 0.8 | S0.5 | C2.5 | -0.4 | | | | | | | | | | |
| SPRINGHILL JOKES JAGUAR-ET | 48 | 83 | 1.1 | 1.5 | 1.3 | -0.1 | -0.4 | -1.2 | -0.7 | H1.8 | 0.5 | S0.7 | S0.4 | 0.6 | 2.5 | 1.9 | -0.4 | -0.1 | S2.3 | C0.4 | -0.9 | | | | | | | | | | |
| **IDLE NEER CONCERT | 15 | 69 | 0.7 | 1.2 | 0.4 | -0.7 | -1.4 | -1.5 | 0.8 | H0.4 | -0.5 | S0.7 | S0.5 | 0.2 | 1.0 | 0.9 | 0.7 | 1.0 | S1.1 | C0.9 | -0.7 | | | | | | | | | | |
| INDIAN ACRES AMERICAN PIE | 237 | 96 | 2.3 | 1.0 | 0.6 | -0.3 | -0.2 | -0.9 | -0.7 | H2.5 | -0.4 | P0.9 | S1.1 | 0.4 | 1.9 | 1.7 | -0.4 | -0.7 | S2.2 | W0.4 | 0.3 | | | | | | | | | | |
| **KNAPPS CHALLENGE AMBITION-ET | 8 | 61 | 0.4 | 0.1 | 0.6 | 1.2 | -0.4 | 0.3 | 1.8 | L0.1 | -0.2 | S0.2 | S0.5 | -0.1 | -0.2 | 1.0 | 1.1 | 0.1 | D0.5 | C0.1 | 1.4 | | | | | | | | | | |
| ROZELYN GOLIATHS JONATHAN-ET | 26 | 78 | -2.4 | -0.7 | -2.1 | -5.8 | -2.3 | -3.2 | -2.7 | H1.5 | -3.4 | 0.0 | H1.2 | -0.6 | -0.5 | -2.2 | -1.8 | -0.7 | D0.4 | C0.6 | -2.4 | | | | | | | | | | |
| DIX LEE JESTER FREEDOM | 11 | 62 | 0.9 | 1.1 | 1.3 | 4.0 | 1.4 | 1.9 | 1.3 | L2 | 1.5 | P0.1 | S0.7 | 0.0 | 0.7 | 1.7 | 0.9 | 0.5 | S0.5 | C1.7 | 0.1 | | | | | | | | | | |

** These bulls have NOT been genomic tested. The other animals have been and their proof is a blend between genomic results and the daughter proof information.**

Active A.I. Average

17 bulls +365M -0.01% +14F +0.00% +13P +0.7PTAT +1.1FLC +0.7UDC +54PTI

Appendix C

4

SPRING CALF

\$ _____

BLUE-SPRUCE B-KING

BONNIE-ET

95.37% AYRSHIRE
840003143640977
03/05/19 FEMALE
95.37%
P7 +466

DE LA PLAINE B-KING

109500046C
+3.06SCC +0.1PL -1.8DPR 95.37%
PTA +593M +44F +27P 46R
PTA% +.11 +.04
PTAT +1.30T 37R 4/19

BLUE-SPRUCE CALIMERO 12443-ET

840003013883421
3-05 91 95.37%
DHI % FAT % PRT
1-11 2 305 14720 4.4 643 3.4 500
315 15100 4.4 662 3.4 514
3-00 2 305 18160 4.5 814 3.1 569
325 18690 4.5 835 3.2 589

THIRD DAM:

BLUE-SPRUCE REMINGTON 8179, EX-91
3-04 2 298 21050 3.8 796 3.5 729

FOURTH DAM:

BLUE-SPRUCE RESTLESS BRIDGET
4-03 2 309 24650 3.8 935 3.1 752

BLUE SPRUCE FARM INC
1796 VT RTE 22A
BRIDPORT VT 05734
802-758-2179

2019 Grand National Ayrshire Sale

#1

CHALUKA VIRGILE-ET

105776780C
+3.24SCC +0.8PL -1.6DPR 90.75%
PTA +690M +58F +32P 83R
PTA% +.16 +.05
PTAT +.80T 69R 4/19

DE LA PLAINE BURDETTE BLING-ET

107961839C EX-94 2E CAN
2-01 2 305 18781 4.6 871 3.6 679
3-02 2 305 24385 4.3 1056 3.6 888
5-03 2 305 32999 4.3 1429 3.7 578

MARGOT CALIMERO

10310847C
+3.12SCC -2.3PL +0.2DPR 90.75%
PTA -347M -2F -5P 97R
PTA% +.06 +.03
PTAT +1.00T 96R 4/19
D/AV 19549M 4.0 775F 3.2 625P 8.6T

BLUE-SPRUCE BALTIMORE 9822

840003006538230 6-09 94
DHI % FAT % PRT
2-03 2 296 16453 4.4 726 3.4 562
3-03 2 305 21019 4.6 965 3.4 721
334 22260 4.6 1021 3.5 769
4-04 2 305 24275 3.9 955 3.2 786
327 25881 3.9 1020 3.3 842

1ST SPRING YRLG - 2012 EASTERN STATES NAT'L
NOM ALL-AMERICAN SPRING YEARLING - 2012
2ND JR 3-YR-OLD - 2014 EASTERN STATES NAT'L
RES INT CHAMP - 2014 EASTERN STATES NAT'L
1ST AGED COW - 2017 EASTERN STATES NAT'L
RES SR CHAMPION - 2017 EASTERN STATES NAT'L

Appendix C

SPRING CALF

5

\$ _____

OLD-N-LAZY PBR WAHOO-ET

PUREBRED AYRSHIRE
840003202759542
03/10/19 FEMALE
P9 +497

MATERNAL SISTERS:

OLD-N-LAZY GENTLE WIPEOUT-ET

1ST SPRING YEARLING - 2017 MID-ATLANTIC NAT'L
JUNIOR CHAMPION - 2017 MID-ATLANTIC NAT'L
1ST SPRING YEARLING - 2017 INTERNATIONAL
JUNIOR CHAMPION - 2017 INTERNATIONAL
UNAN ALL-AMERICAN SPRING YEARLING - 2017

P&A-MACK-ELS FREE BEER N WINGS, EX-90

2-03 2 365 21370 4.0 864 3.3 698

P&A-MACK-ELS FREE BEER WELCOME, VG-89

2-02 2 365 23100 3.9 912 3.1 719
HM ALL-AMERICAN JR 2-YEAR-OLD - 2017
UNAN JR ALL-AMERICAN JR 2-YEAR-OLD - 2017
NOM ALL-AMERICAN JR 3-YEAR-OLD - 2018
RES JR ALL-AMERICAN JR 3-YEAR-OLD - 2018

WOLF, KURT & MAIER, MICHAEL
24474 N BANKSTON RD
EPWORTH IA 52045

#2

PALMYRA BENDIG BERKELY-ET

69261805
PTA +3.07SCC -2.0PL -0.5DPR 94R
PTA -202M -4F -10P
PTA% +.02 -.02
PTAT +.90T 91R 4/19
D/AV 19375M 3.9 765F 3.1 604P 8.5T

PALMYRA POKER LH ROSY-ET

66596106 4-01 92 ELITE
GOLD % FAT % PRT
2-00 2 298 19900 4.5 896 3.3 654
3-00 2 305 22420 4.5 1012 3.5 789
365 26100 4.4 1161 3.5 910

MAPLEBURN REMINGTON-ET

10316238C
PTA +3.13SCC +0.3PL +0.9DPR 92R
PTA -626M -43F -16P
PTA% -.10 +.02
PTAT +1.40T 88R 4/19
D/AV 18560M 3.8 697F 3.2 593P 8.6T

FOREVER SCHOON PING

9591001C EX-95 4E CAN
DHI % FAT % PRT
2-03 2 305 16407 4.5 739 3.7 604
365 19628 4.6 902 3.7 732
3-08 2 305 23294 4.6 1060 3.5 805
365 26989 4.6 1239 3.5 946
5-02 2 305 23616 4.4 1045 3.5 825
365 27236 4.4 1210 3.6 972
8-03 2 305 23649 4.6 1096 3.4 807
365 27007 4.6 1246 3.5 935
9-08 2 305 23891 4.4 1041 3.4 822
365 27015 4.4 1186 3.5 948
LIFE 2163 140157 4.5 6345 3.6 5042

ALL-AMERICAN SR 3, 2011
RES ALL-CANADIAN SR 3, 2011
RES ALL-AMERICAN, 2010
GRAND CHAMPION, 2013 QUEBEC SPRING SHOW
ALL-CANADIAN, 2013

PALMYRA BERKELY REAGAN-ET

840003123620602
PTA +3.02SCC -0.1PL -1.2DPR 62R
PTA +547M +30F +20P
PTA% +.05 +.01
PTAT +1.30T 54R 4/19
D/AV 20395M 3.9 803F 3.2 652P 8.1T

DE LA PLAINE REMINGTON WING-ET

100618695 5-01 92 2E
DHI % FAT % PRT
3-06 3 305 18340 4.9 897 3.5 651
318 18950 4.9 931 3.6 674
4-11 3 305 27340 4.4 1204 3.2 887
322 28290 4.5 1274 3.3 934

2ND JR 3-YEAR-OLD - 2014 SOUTHERN NATIONAL

THIRD DAM: FOREVER SCHOON PRETTY

7441960 EX-93 2E CAN
2-05 2 305 17130 4.8 825 3.5 608
3-05 2 305 20695 4.8 1001 3.8 778
4-07 2 305 22646 4.4 1001 3.5 798
6-07 2 305 23702 4.7 1102 3.3 794

FOURTH DAM: FOREVER SCHOON BK PORSHA-ET

8237763 EX-90 CAN
3-02 2 267 18499 3.6 664 3.4 624
4-03 2 305 23634 3.7 875 3.1 723
7-00 2 305 22932 5.3 1210 3.2 743

2019 Grand National Ayrshire Sale

Appendix C

SPRING CALF

6

\$ _____

PLEASANT-KNOB D GEZELLE-ET

94.9% AYRSHIRE 03/14/19 FEMALE
840003203289748 94.9%
P- +447

NEXUS DREAMER

103734662C 89.81%
PTA +3.24SCC -3.6PL -4.5DPR 96R
PTA -87M +10F -2P
PTA% +.07
PTAT +1.00T 95R 4/19
D/AV 20193M 4.1 818F 3.2 642P 8.5T

ETHIER-ACRES BURDETTE GENEVA

100629910 7-03 93 3E
DHI % FAT % PRT
5-08 2 305 21270 3.6 760 2.9 615
311 21450 3.6 768 2.9 621
6-09 2 284 18893 4.0 764 3.0 560
PROJ 20337

1ST SR 2-YEAR-OLD - 2014 EASTERN STATES
NATIONAL JR
2ND SR 2-YEAR-OLD - 2014 EASTERN STATES
NATIONAL
RES INTERMEDIATE CHAMP-2014 EASTERN STATES
NAT'L JR
RESERVE GRAND CHAMPION-2014 EASTERN STATES
NAT'L JR

FOURTH DAM:

SCAPELAND HEINZ SPICE
4-06 2 284 22890 3.5 792 3.2 742

FIFTH DAM:

SCAPELAND L.D. SIZZLE
LIFE 1733 108390 3.6 3942 3.4 3728

RYMPH, ANDREW J
557 MOUNTAIN RD
GREENWICH NY 12834
518-692-8852

#3

MARGOT CALIMERO

10310847C 90.75%
PTA +3.12SCC -2.3PL +0.2DPR
PTA -347M -2F -5P 97R
PTA% +.06 +.03
PTAT +1.00T 96R 4/19
D/AV 19549M 4.0 775F 3.2 625P 8.6T

DU PETIT PONT TRADITION PASTEL

102205401C 88.87%
DHI % FAT % PRT
2-01 2 305 22891 3.5 794 3.3 756
3-07 2 305 27128 3.5 961 3.4 911
3-07 2 305 22544 3.5 778 3.3 750
341 23973 3.5 831 2.9 701
4-08 2 305 22201 3.7 831 3.2 701
365 23764 3.8 895 3.2 763
5-10 2 305 25959 4.5 1160 3.2 836
365 29668 4.6 1362 3.3 979
LIFE 1940 123882 4.0 4920 3.3 4127

PALMYRA TRI-STAR BURDETTE-ET

100419568
PTA +2.91SCC +0.8PL -0.8DPR
PTA +319M +9F +15P 99R
PTA% -.02 +.03
PTAT +1.80T 99R 4/19
D/AV 19804M 3.9 781F 3.2 631P 8.6T

SCAPELAND NEVADA GINGER

100511608 4-02 90 % FAT % PRT
DHI 2-03 2 305 16780 3.9 651 2.8 462
4-08 2 305 20870 4.6 952 2.8 577

Appendix C

SPRING CALF

8

\$ _____

MAPLE-DELL BERKELY DASI-ET

PUREBRED Ayrshire 03/26/19 FEMALE
840003204200744
P- +422

#4

PALMYRA JERRY BENDIG-ET

100323168
PTA +2.82SCC -0.7PL -3.2DPR 96R
PTA +758M +29F +19P
PTA% -.03
PTAT +.60T 94R 4/19
D/AV 19185M 3.9 742F 3.2 607P 8.5T

PALMYRA REALITY BONNIE-ET

65003767 4-05 88
GOLD
2-03 2 305 21020 4.7 987 3.2 679
3-08 2 305 24810 4.7 1166 3.3 818
3-08 2 305 24440 5.0 1230 3.3 815
4-08 2 305 24850 5.0 1250 3.3 829
4-08 2 305 21470 4.3 928 3.5 753
4-08 2 305 25080 4.3 1079 3.5 883

DES CHAMOIS POKER-ET

8401621C
PTA +2.87SCC +0.8PL -2.2DPR 98R
PTA +186M +21F +5P
PTA% +.07
PTAT +.60T 98R 4/19
D/AV 19267M 4.0 765F 3.1 606P 8.5T

MAPLE-DELL ZORRO DAFOURTH

100257070 6-06 95
GOLD
2-00 2 305 22380 4.3 958 3.3 737
3-00 2 310 22000 4.0 871 3.1 682
4-00 2 365 26200 4.6 1203 3.3 864
6-01 2 365 30950 4.5 1387 3.0 939
7-11 2 365 27930 4.3 1193 3.0 838
9-06 2 305 23220 4.7 1098 2.9 668
LIFE 2287 165180 4.4 7191 3.1 5148

NOM ALL-AMERICAN JR 2-YEAR-OLD - 2004
1ST JR 3-YEAR-OLD - 2005 MID-ATLANTIC NAT'L
INT CHAMPION - 2005 MID-ATLANTIC NATIONAL
2ND JR 3-YEAR-OLD - 2005 CENTRAL NATIONAL
RES ALL-AMERICAN JR 3-YEAR-OLD - 2005
1ST 4-YEAR-OLD - 2006 MID-ATLANTIC NAT'L
GRAND CHAMPION - 2006 MID-ATLANTIC NAT'L
2ND 4-YEAR-OLD - 2006 CENTRAL NATIONAL
RES GRAND CHAMPION - 2006 CENTRAL NATIONAL
RES ALL-AMERICAN 4-YEAR-OLD - 2006

PALMYRA BENDIG BERKELY-ET

69261805
PTA +3.07SCC -2.0PL -0.5DPR 94R
PTA -202M -4F -10P
PTA% +.02
PTAT +.90T 91R 4/19
D/AV 19375M 3.9 765F 3.1 604P 8.5T

MAPLE-DELL POKER DAISY-ET

65302774 6-01 93
GOLD
2-07 2 305 17760 4.4 775 3.5 625
3-09 2 277 16660 5.3 889 3.3 543
4-08 2 279 16660 5.3 883 3.3 556
5-08 2 305 19370 4.7 910 3.2 616
345 20460 4.6 939 3.2 652

1ST WINTER CALF - 2012 MID-ATLANTIC NAT'L JR
JR CHAMPION - 2012 MID-ATLANTIC NAT'L JR
3RD WINTER YRLG - 2013 MID-ATLANTIC NAT'L JR
3RD WINTER YRLG - 2013 MID-ATLANTIC NAT'L

MATERNAL SISTER TO DAM:

MAPLE-DELL DREAMER DESTINEE-ET, VG-87
1-09 2 303 15440 4.2 652 3.3 506
ALL-AMERICAN FALL YEARLING IN MILK - 2016
NOM ALL-AMERICAN SR 2-YEAR-OLD - 2017

PATRICK, DAVID
1960 DAISY RD 21797
WOODBINE MD
410-489-4160

2019 Grand National Ayrshire Sale

Appendix D

PRECIOUS BLUE RIBBON ET

Reg # 68154853 Studcode: 138B55377

Breeder: RANDOM LUCK, VOEGELI, RIEDLAND

Current Owner: RANDOM LUCK, VOEGELI, RIEDLAND
DARLINGTON WI



Bonanza x Vision x Jetway (M)

Production

(PTA-Lbs) 04/17

| | | | |
|---------|--------|---------|----------------|
| Milk | -476 | 39% Rel | 0 Dtrs/0 Herds |
| Protein | -15 | | |
| Fat | -9 | | |
| CFP | -24 | | |
| NM | -\$199 | 37% Rel | |
| CM | -\$205 | FM | -\$188 |
| GM | -\$217 | | |

Type

(PTA) 04/17 BSCBA Type Parent Averages

| | | | |
|------|-------|---------|----------------|
| PPR | -50 | | |
| Type | +0.6 | 38% Rel | 0 Dtrs/0 Herds |
| UDC | +0.82 | MO | +0.0 |
| MS | 108 | 39% Rel | |

Fitness

| | | | |
|-------------------------|------|---------|--------|
| Somatic Cell Score | 3.14 | 35% | |
| Productive Life | -1.2 | 31% Rel | |
| Livability | -0.6 | 22% | |
| Daughter Pregnancy Rate | -0.7 | 30% Rel | |
| Heifer Conception Rate | -2.3 | 17% | 0 Dtrs |
| Cow Conception Rate | -2.9 | 29% Rel | 0 Dtrs |

Calving Ease

(% DBH)

| | | | |
|-----------------------|-----|---------|--------|
| Sire Calving Ease | 6.1 | 51% Rel | 28 Obs |
| Daughter Calving Ease | 5.3 | 47% Rel | 0 Dtrs |



Dam: RANDOM LUCK V PRECIOUS 68107525

05/07 2E-E92

01/10 365d 2X 19600 4.1 798 3.3 638 DHIR

03/00 305d 2X 22850 4.5 1017 3.4 771 DHIA

05/00 365d 2X 28820 4.2 1201 3.2 921 DHIR

* SUMMER YRLG HFR ALL AMERICAN 2009

* JR 3 YR OLD RES ALL AMERICAN 2011

* SR BEST 3 FMLS MEMBER RES ALL AMERICAN 2011

* PROD OF DAM MEMBER RES ALL AMERICAN 2013

* SR BEST 3 FMLS MEMBER HM ALL AMERICAN 2014

* PROD OF DAM MEMBER HM ALL AMERICAN 2012

* AGED COW NOM ALL AMERICAN 2014

* 5 YR OLD NOM ALL AMERICAN 2013

* JR 2 YR OLD NOM ALL AMERICAN 2010

* SR BEST 3 FMLS MEMBER NOM ALL AMERICAN 2013

| Linear | -2 | -1 | 0 | 1 | 2 | |
|-----------------------|----|----|---|---|---|-------|
| Stature | | | | | | 1.4 T |
| Dairy Form | | | | | | 0.3 T |
| Strength | | | | | | 0.5 S |
| Rump Width | | | | | | 0.3 W |
| Rump Angle | | | | | | 0.1 H |
| Legs Side View | | | | | | 0.3 P |
| Legs Rear View | | | | | | 0.0 S |
| Foot Angle | | | | | | 0.2 L |
| Fore Udder Attachment | | | | | | 1.5 S |
| Rear Udder Height | | | | | | 0.7 H |
| Rear Udder Width | | | | | | 0.1 W |
| Udder Cleft | | | | | | 0.6 S |
| Udder Depth | | | | | | 1.6 S |
| Front Teat Placement | | | | | | 0.3 C |
| Teat Length | | | | | | 0.6 L |

Appendix D

NOLANDALE PEPPER COMANCHE ET

Reg No.: 6B161149 Studcode: 138B5497
Haplotype: BH1 carrier

Breeder:
NOLAN, BILL, CHAD, COREY & EMILY
Current Owner:
NOLAN, BILL, CHAD, COREY & EMILY
LEXINGTON IL



Chilli Pepper X Mailman X Horizon

| Production (PTA-Lbs) 04/17 CDCB Genomic Evaluation | | | |
|--|-------|------------------------|-------|
| Milk | -237 | 66% Rel 0 Dtrs/0 Herds | |
| Protein | -10 | % Protein | -0.01 |
| Fat | +5 | % Fat | +0.07 |
| CFP | -5 | | |
| NM | -\$2 | 60% Rel | |
| CM | -\$9 | FM | +\$13 |
| GM | +\$35 | | |

| Type (PTA) 04/17 CDCB/BSCBA Genomic Evaluation | | | |
|--|-------|------------------------|--|
| GPPR | | | |
| Type | +1.1 | 67% Rel 0 Dtrs/0 Herds | |
| UDC | +0.96 | MO | |

Fitness

| | | | |
|-------------------------|------|---------|--------|
| Somatic Cell Score | 3.06 | 63% | |
| Productive Life | +1.0 | 58% Rel | |
| Livability | -0.8 | 29% | |
| Daughter Pregnancy Rate | +2.1 | 55% Rel | |
| Heifer Conception Rate | -1.3 | 40% | 0 Dtrs |
| Cow Conception Rate | +0.2 | 43% Rel | 0 Dtrs |

Calving Ease

| (% DBH) | | | |
|-----------------------|-----|---------|--------|
| Sire Calving Ease | 4.9 | 42% Rel | 0 Obs |
| Daughter Calving Ease | 5.3 | 38% Rel | 0 Dtrs |



NORTH LANES MAILMAN COOKIE 927312

05/10 2E-E93 E93 E95 E91 E93 E93 (08/09)
02/07 340d 2X 20800 4.6 957 3.4 714 DHIR
03/08 305d 2X 21100 4.6 968 3.7 771 DHIR
05/06 365d 2X 26060 5.6 1458 3.8 995 DHIR
07/02 305d 2X 19840 4.5 902 3.5 693 DHIA
Lifetime: 1636d 106640m 5247f 3871p
* SR 3 YR OLD ALL AMERICAN 2007
* JR BEST 3 FMLS MEMBER ALL AMERICAN 2005
* FALL HFR CALF RES ALL AMERICAN 2004
* JR BEST 3 FMLS MEMBER RES ALL AMERICAN 2004
* SR 2 YR OLD HM ALL AMERICAN 2006
* FALL YRLG HFR HM ALL AMERICAN 2005
* 5 YR OLD NOM ALL AMERICAN 2009
* RES INT CHAMP CENTRAL NATIONAL 2007
* RES INT CHAMP EASTERN NATIONAL 2007
* 5th 5 YR OLD CENTRAL NATIONAL 2009

| Linear | -2 | -1 | 0 | 1 | 2 | |
|-----------------------|----|----|---|---|---|-------|
| Stature | | | | | | 3.3 T |
| Dairy Form | | | | | | 1.1 O |
| Strength | | | | | | 0.9 S |
| Rump Width | | | | | | 0.6 W |
| Rump Angle | | | | | | 0.2 H |
| Legs Side View | | | | | | 0.7 P |
| Legs Rear View | | | | | | 0.1 S |
| Foot Angle | | | | | | 0.7 S |
| Fore Udder Attachment | | | | | | 1.1 S |
| Rear Udder Height | | | | | | 1.6 H |
| Rear Udder Width | | | | | | 0.9 W |
| Udder Cleft | | | | | | 0.5 S |
| Udder Depth | | | | | | 0.3 S |
| Front Teat Placement | | | | | | 0.1 W |
| Teat Length | | | | | | 0.7 L |

Appendix D

KRUSES LEBRON JEOPARDY (W)

Reg # 68143267 Studcode: 138B55375
Abnormalities: WC = Weaver Carrier

Breeder: KRUSE, RICK

Current Owner: KRUSE, RICK
EARLVILLE IA



Lebron (W) x River x Starbuck

Production

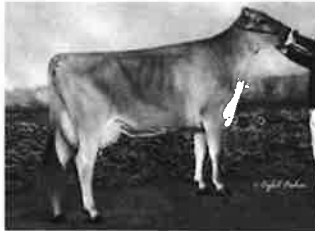
(PTA-Lbs) 04/17 CDCB Genomic Evaluation

| | | |
|---------|--------|------------------------|
| Milk | -595 | 66% Rel 0 Dtrs/0 Herds |
| Protein | -22 | % Protein -0.01 |
| Fat | -5 | % Fat +0.09 |
| CFP | -27 | |
| NM | -\$115 | 61% Rel |
| CM | -\$127 | FM -\$89 |
| GM | -\$140 | |

Type

(PTA) 04/17 CDCB/BSCBA Genomic Evaluation

| | | |
|------|-------|------------------------|
| GPPR | -54 | |
| Type | +1.0 | 67% Rel 0 Dtrs/0 Herds |
| UDC | +1.32 | MO +0.4 |
| MS | 103 | 37% Rel |



Dam: KRUSES RIVER JAMAICA ET 961097
MOM: KRUSES RIVER JAMAICA ET 961097

Fitness

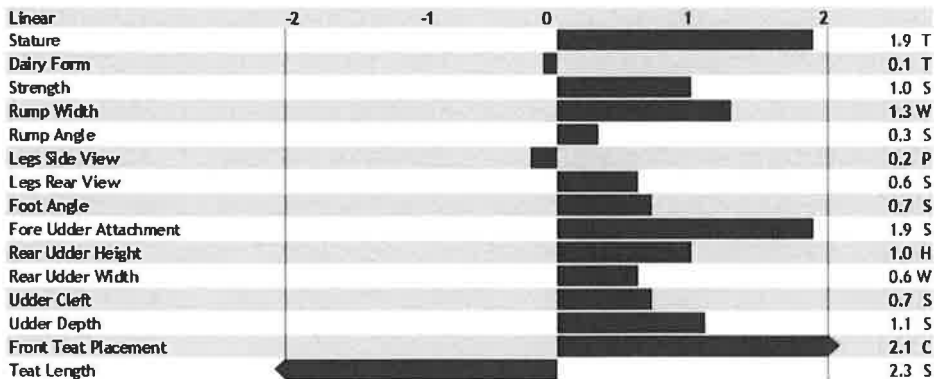
| | | |
|-------------------------|------|----------------|
| Somatic Cell Score | 3.19 | 63% |
| Productive Life | +0.2 | 58% Rel |
| Livability | +0.3 | 26% |
| Daughter Pregnancy Rate | -1.2 | 54% Rel |
| Heifer Conception Rate | -2.4 | 36% 0 Dtrs |
| Cow Conception Rate | -1.2 | 41% Rel 0 Dtrs |

04/10 E91
02/01 357d 2X 18220 4.7 852 3.4 616 DHIR
03/02 352d 2X 25310 4.3 1079 3.4 868 DHIR
04/04 365d 2X 29710 4.0 1186 3.4 1005 DHIR
05/07 157d 2X 11080 4.1 458 3.3 368 DHIR
* GRAND CHAMPION IA STATE FAIR 2011
* 1st SR 3 YR OLD IA STATE FAIR 2011

Calving Ease

(% DBH)

| | | | |
|-----------------------|-----|---------|--------|
| Sire Calving Ease | 5.8 | 60% Rel | 14 Obs |
| Daughter Calving Ease | 4.4 | 56% Rel | 0 Dtrs |



Appendix D

VB HP BON ZOOLANDER

Reg # 68154436 Studcode: 138B55376

Breeder: VOEGELI FARM, INC. & HILLPOINT PARTNERS

Current Owner: VOEGELI FARM, INC. & HILLPOINT PARTNERS
MONTICELLO WI



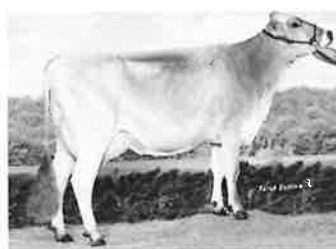
Bonanza x Pronto x Jetway (M)

| Production (PTA-Lbs) 04/17 CDCB Genomic Evaluation | | | |
|--|--------|------------------------|--------|
| Milk | -328 | 64% Rel 0 Dtrs/0 Herds | |
| Protein | -16 | % Protein | -0.03 |
| Fat | -12 | % Fat | +0.00 |
| CFP | -28 | | |
| NM | -\$193 | 60% Rel | |
| CM | -\$211 | FM | -\$154 |
| GM | -\$222 | | |

| Type (PTA) 04/17 CDCB/BSCBA Genomic Evaluation | | | |
|--|-------|------------------------|--|
| GPPR | | | |
| Type | +0.7 | 65% Rel 0 Dtrs/0 Herds | |
| UDC | +0.41 | MO | |

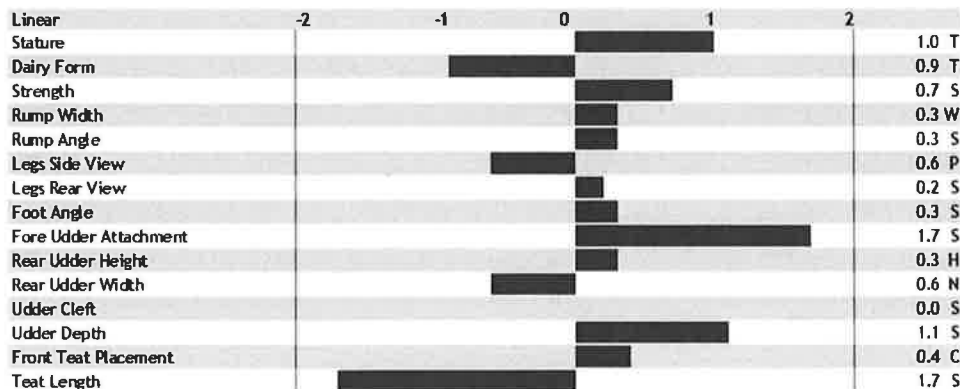
| Fitness | | | |
|-------------------------|------|---------|--------|
| Somatic Cell Score | 3.23 | 62% | |
| Productive Life | -1.5 | 58% Rel | |
| Livability | +0.6 | 32% | |
| Daughter Pregnancy Rate | -1.0 | 55% Rel | |
| Heifer Conception Rate | -3.8 | 38% | 0 Dtrs |
| Cow Conception Rate | -5.0 | 44% Rel | 0 Dtrs |

| Calving Ease (% DBH) | | | |
|-----------------------|-----|---------|--------|
| Sire Calving Ease | 6.4 | 45% Rel | 0 Obs |
| Daughter Calving Ease | 5.6 | 42% Rel | 0 Dtrs |



Dam: V B HILLPOINT PRONTO ZIP ET 68102868
06/05 2E-E93

02/03 324d 2X 23290 4.1 954 3.3 759 DHIR
03/04 332d 2X 29480 4.1 1221 3.2 935 DHIR
04/05 365d 2X 31880 4.0 1287 3.3 1063 DHIR
05/08 305d 2X 29840 4.0 1196 3.3 986 DHIR
05/08 365d 2X 35440 4.1 1450 3.3 1180 DHIR
Lifetime: 1671d 140960m 6030f 4700p
* NATIONAL TOTAL PERFORMANCE 2013
* COMP MERIT COW RES ALL AMERICAN 2013
* 4 YR OLD NOM ALL AMERICAN 2011
* 1st TOTAL PERF WINNER INTERNATIONAL 2013
* RES SR CHAMP SOUTHEAST NATIONAL 2011
* 2nd COMP MERIT COW INTERNATIONAL 2013
* 5th 5 YR OLD INTERNATIONAL 2012
* 1st 4 YR OLD SOUTHEAST NATIONAL 2011
* 2nd AGED COW WI STATE SHOW 2013
* 2nd AGED COW WI STATE FAIR 2013



Appendix E

COW PAGE
DHI-103

Test Date: 08-15-2019
Processed: 08-16-2019

42-77-0074
IO STATE DAIRY

String
1

| | | | | | | | | | | | | | |
|-------|--|---------|--|-----------------|--|------------|--|----------|--|--------------|--|----------|--|
| Breed | | Country | | Identification | | Birth Date | | Body Wt. | | Inbrd. Coef. | | DCR Milk | |
| HO | | USA | | 72753242 | | 10-28-14 | | 1460 | | 6.3 | | | |
| PTA | | | | 984000001159371 | | | | | | | | | |

| | | | | | | | | | | | | | |
|-------|--|---------|--|----------------|--|----------------|--|-------|--|------|--|-------|--|
| Breed | | Country | | Identification | | AI Code / Name | | Inbrd | | | | | |
| HO | | FRA | | 5008608488 | | 1HO03118 | | 5.6 | | | | | |
| PTA | | | | FULFILISY | | | | | | | | | |
| Milk | | %Fat | | Fat | | %Pro | | Pro | | %Rel | | %Rank | |
| +775 | | +14 | | +68 | | +01 | | +26 | | 99 | | 46 | |

| | | | | | | | | | | | | | | | |
|------|--|-----|--|------|--|------|--|-------|--|-----|--|-----|--|------|--|
| Milk | | Fat | | %Pro | | %Rel | | Milk | | Fat | | Pro | | \$ | |
| +105 | | +07 | | +03 | | 56 | | -1920 | | -54 | | -54 | | -658 | |

| | | | | | | | | | | | | | |
|-------|--|---------|--|-----------------|--|-------------------|--|-------|--|------|--|-------|--|
| Breed | | Country | | Identification | | Barn Name / Index | | Inbrd | | | | | |
| HO | | USA | | 71588952 | | 9328 | | 5.3 | | | | | |
| PTA | | | | 984000001157636 | | | | | | | | | |
| Milk | | %Fat | | Fat | | %Pro | | Pro | | %Rel | | %Rank | |
| +355 | | +02 | | +20 | | +03 | | +19 | | 83 | | 34 | |

| | | | | | | | | | | | | | | | |
|-------|--|------|--|-----|--|-----|--|------|--|-----|--|-----|--|------|--|
| DIM | | Milk | | Fat | | Pro | | Milk | | Fat | | Pro | | \$ | |
| 86 | | 122 | | 101 | | 3.4 | | 5.2 | | 3.3 | | 3.4 | | +157 | |
| Fat % | | 4.1 | | 2.1 | | 3.4 | | 4.8 | | 3.5 | | 3.2 | | +503 | |
| Pro % | | 3.5 | | 3.0 | | 3.2 | | 3.5 | | 3.5 | | 3.2 | | +503 | |
| SCC | | 47 | | 132 | | 100 | | 87 | | 71 | | 141 | | | |

| | | | | | | | | | | | | | |
|-------|--|---------|--|----------------|--|----------------|--|-------|--|------|--|-------|--|
| Breed | | Country | | Identification | | AI Code / Name | | Inbrd | | | | | |
| HO | | USA | | 68886414 | | 11HO10997 | | 5.2 | | | | | |
| PTA | | | | PHONIC | | | | | | | | | |
| Milk | | %Fat | | Fat | | %Pro | | Pro | | %Rel | | %Rank | |
| +1012 | | +14 | | +77 | | +06 | | +48 | | 99 | | 39 | |

| Lact No. | Test Plan | Calving Date | Age at Calving | Days Dry | Days Open | NO. BR. | 305 Day Lactation | | | Days 3X | Complete Lactation | | | IME Lactation | | | Herdmate Deviation | | | | | | | | | | | | |
|----------|-----------|--------------|----------------|----------|-----------|---------|-------------------|-------|-------|---------|--------------------|---------|---------|---------------|---------|---------|--------------------|---------|---------|----------|---------|---------|--|-----|--|-------|--|-----|--|
| | | | | | | | Milk | % Fat | % Pro | | 305 Milk | 305 Fat | 305 Pro | 305 Milk | 305 Fat | 305 Pro | 305 Milk | 305 Fat | 305 Pro | 305 Milk | 305 Fat | 305 Pro | | | | | | | |
| 1 | 2 | 07-25-16 | 1-08 | 73 | 1 | 23,089 | 3.7 | 3.2 | 741 | 289 | 16,714 | 4.3 | 722 | 3.2 | 529 | 22,325 | 979 | 673 | -3516 | -1 | -123 | | | | | | | | |
| 2 | 2 | 07-05-17 | 2-08 | 56 | 159 | 24,729 | 3.7 | 3.3 | 812 | 320 | 24,958 | 3.7 | 934 | 3.2 | 805 | 25,151 | 931 | 791 | -1467 | -51 | -41 | | | | | | | | |
| 3 | 2 | 09-09-18 | 3-10 | 75 | 100 | 24,729 | 3.7 | 3.3 | 812 | 152 | 25,197 | 3.8 | 947 | 3.3 | 828 | 25,659 | 950 | 828 | -2697 | -165 | -52 | | | | | | | | |
| LIFETIME | | 3 | | 104 | | 61 | | 963 | | 66,869 | | 3.9 | | 2603 | | 3.2 | | 2162 | | 24,378 | | 953 | | 764 | | -2560 | | -72 | |

| | | | |
|----------------|--|----------|--|
| Barn Name | | 10221 | |
| Index | | 10221 | |
| Barn Name | | 10221 | |
| Index Number | | 10221 | |
| Identification | | 72753242 | |

* Dry thru Test Date: 08-15-19
Dried on 07-24-19
Number of Breedings = 2
Last Bred 12-18-18 To 734HO00089 HO Preg
Prev Bred 11-22-18 To 734HO00089 HO

Appendix E

COW PAGE
DHI-103

Test Date: 08-15-2019
Processed: 08-16-2019

42-77-0074
IO STATE DAIRY

String
1

| | | | |
|--------------|---------|-----------------|--------------|
| Barn Name | | Index | |
| 10470 | | 10470 | |
| Breed | Country | Identification | Birth Date |
| HO | USA | 74087140 | 05-30-15 |
| | | 984000001159370 | |
| | | Body Wt. | Inbrd. Coef. |
| | | 1330 | 5.7 |
| | | DCR Milk | |

| | | | | | | | | | |
|-------|------|---------|------|----------------|------|----------------|----|-------|-------|
| Breed | | Country | | Identification | | AI Code / Name | | Inbrd | |
| HO | | USA | | 71269324 | | 1HO11032 | | 6.5 | |
| | | | | MY WAY | | | | | |
| PTA | Milk | %Fat | %Pro | Fat | %Pro | Pro | \$ | %Rel | %Rank |
| | +309 | -01 | +10 | +05 | +23 | +349 | 98 | 24 | |

| | | | |
|--------------------------------|------|--------------------------------------|------|
| Predicted Transmitting Ability | | Estimated Relative Producing Ability | |
| Milk | %Rel | Milk | %Rel |
| -699 | +11 | -3093 | +5 |
| | +07 | | -46 |
| | -3 | | -716 |

| | | | | | | | | | |
|-------|------|---------|------|-----------------|------|-------------------|----|-------|-------|
| Breed | | Country | | Identification | | Barn Name / Index | | Inbrd | |
| HO | | USA | | 42TEH2042 | | 46-PG | | 5.7 | |
| | | | | 984000001157582 | | | | | |
| PTA | Milk | %Fat | %Pro | Fat | %Pro | Pro | \$ | %Rel | %Rank |
| | -913 | +14 | +2 | +05 | -14 | +15 | 74 | 13 | |

| | | | | | |
|---------------|-----|----------|-----|--------------|------|
| Test Day Data | | Lact No. | | Calving Date | |
| DIM | 8 | 50 | 93 | 134 | 170 |
| Milk | 79 | 106 | 92 | 60 | 64 |
| Fat % | 4.9 | 3.6 | 4.3 | 7.1 | 4.5 |
| Pro % | 4.1 | 3.3 | 3.5 | 3.7 | 3.7 |
| SCC | 152 | 87 | 348 | 985 | 528 |
| | | | | 71 | 5572 |
| | | | | 233 | 267 |
| | | | | 50 | 44 |
| | | | | 4.8 | 4.4 |
| | | | | 3.9 | 3.6 |
| | | | | 746 | 71 |
| | | | | 10-17-18 | |

| | | | | | | | | | |
|-------|-------|---------|------|-----------------|------|----------------|----|-------|-------|
| Breed | | Country | | Identification | | AI Code / Name | | Inbrd | |
| HO | | CAN | | 7264030 | | 11HO08161 | | 4.7 | |
| | | | | 124000007264030 | | ROXSIDE | | | |
| PTA | Milk | %Fat | %Pro | Fat | %Pro | Pro | \$ | %Rel | %Rank |
| | -1191 | +24 | +18 | +04 | -25 | +188 | 99 | 12 | |

| Lact No. | Test Plan | Calving Date | Age at Calving | Days Dry | Days Open | NO. BR. | 305 Day Lactation | | | Days 3X | Complete Lactation | | | ME Lactation | | | Herdmate Deviation | | | | | | | | | |
|----------|-----------|--------------|----------------|----------|-----------|---------|-------------------|-------|-------|---------|--------------------|--------|--------|--------------|------|------|--------------------|------|------|-------|--------|------|-----|-------|------|-----|
| | | | | | | | Milk | % Fat | % Pro | | DIM | Milk | Fat % | Pro % | Pro | Milk | Fat | Pro | Milk | Fat | Pro | | | | | |
| 1 | 2 | 07-12-17 | 2-01 | 194 | 194 | 1 | 19,962 | 4.7 | 3.5 | 702 | 383 | 413 | 25,701 | 4.8 | 1221 | 3.5 | 899 | 792 | 1095 | 792 | 23,170 | 1095 | 792 | -3467 | +115 | -40 |
| 2 | 2 | 10-17-18 | 3-04 | 49 | 71 | 5 | | | | 114 | 287 | 20,142 | 4.6 | 920 | 3.6 | 722 | 774 | 997 | 774 | 997 | 21,921 | 997 | 774 | -5811 | -99 | -99 |
| | | | | | | | | | | | Totals | | | Averages | | | | | | | | | | | | |
| | | | | | | | | | | | 700 | 45,843 | 4.7 | 2141 | 3.5 | 1621 | 22,546 | 1046 | 783 | -4639 | +8 | -70 | | | | |

| | | | | | | | |
|---|--|----------------------|--|-------------------------|--|------------------|--|
| LIFETIME | | Number of Lactations | | Reproductive Efficiency | | Average Milk/Day | |
| 2 | | 90 | | 58 | | 58 | |
| * Dry thru Test Date: 08-15-19 | | | | | | | |
| Dried on 07-31-19 | | | | | | | |
| Number of Breedings = 1 | | | | | | | |
| Last Bred 12-27-18 To *78LIM18001 XX Preg | | | | | | | |
| Barn Name | | Index Number | | Identification | | 74087140 | |
| 10470 | | 10470 | | 10470 | | 74087140 | |

Appendix E

COW PAGE
DHI-103

Test Date: **08-15-2019**
Processed: **08-16-2019**

42-77-0074
IO STATE DAIRY

String
1

| | | | | | | | | | | | | | |
|--------------------------------------|--|---------|--|-----------------|--|------------|--|----------|--|--------------|--|----------|--|
| Breed | | Country | | Identification | | Birth Date | | Body Wt. | | Inbrd. Coef. | | DCR Milk | |
| HO | | USA | | 74087310 | | 10-24-15 | | 1330 | | 6.3 | | | |
| PA | | USA | | 984000001156143 | | | | | | | | | |
| Barn Name | | | | Index | | | | 10640 | | | | | |
| Predicted Transmitting Ability | | Fat | | %Pro | | Pro | | \$ | | %Rel | | Rank | |
| -230 | | +06 | | +02 | | -2 | | +307 | | 82 | | 64 | |
| Estimated Relative Producing Ability | | Milk | | Fat | | Pro | | \$ | | %Rel | | Rank | |
| -918 | | -2898 | | -51 | | -84 | | -918 | | 82 | | 64 | |

| | | | | | | | | | |
|-------|--|---------|--|-----------------|--|----------------|--|-------|--|
| Breed | | Country | | Identification | | AI Code / Name | | Inbrd | |
| HO | | USA | | 840003011816338 | | 1HO11889 | | 7.8 | |
| PA | | USA | | AVENGER | | | | | |
| Milk | | %Fat | | Fat | | %Pro | | Pro | |
| -70 | | +10 | | +24 | | +03 | | +6 | |
| %Rel | | 99 | | %Rank | | 35 | | | |

| | | | | | | | | | |
|-------|--|---------|--|-----------------|--|-------------------|--|-------|--|
| Breed | | Country | | Identification | | Barn Name / Index | | Inbrd | |
| HO | | USA | | 68988533 | | 8540 | | 6.0 | |
| PA | | USA | | 984000001156185 | | | | | |
| Milk | | %Fat | | Fat | | %Pro | | Pro | |
| -270 | | +09 | | +14 | | +02 | | -3 | |
| %Rel | | 84 | | %Rank | | 26 | | | |

| | | | | | | | | | |
|-------|--|---------|--|----------------|--|----------------|--|-------|--|
| Breed | | Country | | Identification | | AI Code / Name | | Inbrd | |
| HO | | USA | | 133389654 | | 7HO07853 | | 4.2 | |
| PA | | USA | | MICHAEL | | | | | |
| Milk | | %Fat | | Fat | | %Pro | | Pro | |
| -189 | | +07 | | +11 | | +01 | | -4 | |
| %Rel | | 99 | | %Rank | | 8 | | | |

| | | | | | | | | | | |
|---------------|-----|-----|----------|-----|-----|-----|--------------|--|----------|--|
| Test Day Data | | | Lact No. | | 2 | | Calving Date | | 10-27-18 | |
| DIM | 40 | 83 | 124 | 160 | 196 | 223 | 257 | | | |
| Milk | 103 | 99 | 79 | 76 | 73 | 47 | 38 | | | |
| Fat % | 4.0 | 3.7 | 4.7 | 4.1 | 4.2 | 5.1 | 4.8 | | | |
| Pro % | 3.0 | 3.2 | 3.2 | 3.4 | 3.4 | 3.5 | 3.5 | | | |
| SCC | 81 | 44 | 57 | 57 | 81 | 76 | 87 | | | |

| | | | | | | | | | |
|-------|--|---------|--|----------------|--|----------------|--|-------|--|
| Breed | | Country | | Identification | | AI Code / Name | | Inbrd | |
| HO | | USA | | 133389654 | | 7HO07853 | | 4.2 | |
| PA | | USA | | MICHAEL | | | | | |
| Milk | | %Fat | | Fat | | %Pro | | Pro | |
| -189 | | +07 | | +11 | | +01 | | -4 | |
| %Rel | | 99 | | %Rank | | 8 | | | |

| Lact No. | Test Plan | Calving Date | Age at Calving | Days Dry | Days Open | NO. BR. | 305 Day Lactation | | | Days 3X | Complete Lactation | | | ME Lactation | | | Herdmate Deviation | | |
|----------|-----------|--------------|----------------|----------|-----------|---------|-------------------|-------|--------|----------|--------------------|------|-------|--------------|-----|------|--------------------|-----|------|
| | | | | | | | Milk | % Fat | % Pro | | DJM | Milk | Fat % | Pro % | CAR | Milk | Fat | Pro | Milk |
| 1 | 2 | 11-15-17 | 2-00 | 64 | 64 | 1 | 257 | 281 | 19,612 | 4.0 | 792 | 3.2 | 621 | 22,825 | 938 | 720 | -4660 | -57 | -135 |
| 2 | 2 | 10-27-18 | 3-00 | 65 | 75 | 1 | 104 | 284 | 21,208 | 4.3 | 902 | 3.3 | 697 | 23,686 | 999 | 757 | -3987 | -96 | -115 |
| | | | | | | | Totals | | | Averages | | | | | | | | | |
| LIFETIME | | | | | | | 2 | 565 | 40,820 | 4.1 | 1694 | 3.2 | 1318 | 23,256 | 969 | 739 | -4323 | -77 | -125 |

| | | | | | | | | | | | |
|--------------------------------|--|--|-------------------|-------|--|-------------------------|--|----------|--|--|--|
| * Dry thru Test Date: 08-15-19 | | | Dried on 08-07-19 | | | Number of Breedings = 1 | | | Last Bred 01-10-19 To 734HO00082 HO Preg | | |
| Barn Name | | | | Index | | | | 10640 | | | |
| 10640 | | | | 10640 | | | | 74087310 | | | |

Appendix E

COW PAGE
DHI-103

Test Date: **08-15-2019**
Processed: **08-16-2019**

42-77-0074
IO STATE DAIRY

String
1

| | | | |
|--------------|---------|-----------------|--------------|
| Barn Name | | Index | |
| 10969 | | 10969 | |
| Breed | Country | Identification | Body Wt. |
| HO | USA | 3134107055 | 1210 |
| | | 984000001156112 | |
| | | Birth Date | Inbrd. Coef. |
| | | 07-21-16 | 5.9 |
| | | DCR Milk | |

| | | | |
|------------------|---------|-----------------|-----------------------|
| CO-OP DAKOMIN-ET | | | |
| Breed | Country | Identification | AI Code / Name |
| HO | USA | 840003013001380 | 501HO12054 DAKOMIN |
| | | %Pro | Pro |
| | | +1392 | +46 |
| | | %Fat | \$ |
| | | -07 | +636 |
| | | %Rel | %Rank |
| | | 99 | 65 |

| | | | |
|--------------------------------|------|------|-------|
| Predicted Transmitting Ability | | | |
| Milk | %Fat | %Rel | %Rank |
| +897 | -01 | +33 | 81 |
| | | +411 | 55 |
| | | +307 | -3 |
| | | +0 | +0 |
| | | +53 | |

| | | | |
|-------|---------|----------------|-------------------|
| Dam | | | |
| Breed | Country | Identification | Barn Name / Index |
| HO | USA | 72753143 | 10122 |
| | | 10122 | |
| | | %Pro | Pro |
| | | +1482 | +41 |
| | | %Fat | \$ |
| | | -16 | +213 |
| | | %Rel | %Rank |
| | | 54 | 45 |

| | | | |
|---------------|-----|--------------|----------|
| Test Day Data | | | |
| | | Lact No. | 1 |
| | | Calving Date | 07-15-18 |
| DIM | 32 | 68 | 102 |
| Milk | 102 | 87 | 72 |
| Fat % | 3.5 | 3.1 | 3.9 |
| Pro % | 2.7 | 2.9 | 3.0 |
| SCC | 123 | 87 | 50 |

| | | | |
|-------|---------|----------------|--------------------|
| MGS | | | |
| Breed | Country | Identification | AI Code / Name |
| HO | USA | 70419476 | 1HO10868 FORTIN |
| | | %Pro | Pro |
| | | +1479 | +31 |
| | | %Fat | \$ |
| | | -11 | +238 |
| | | %Rel | %Rank |
| | | 94 | 14 |

| Lact No. | Test Plan | Calving Date | Age at Calving | Days Dry | Days Open | NO. BR. | 305 Day Lactation | | | Days 3X | Complete Lactation | | | ME Lactation | | | Herdmate Deviation | | | | | | | |
|----------|-----------|--------------|----------------|----------|-----------|---------|-------------------|-------|-------|---------|--------------------|------|----------|--------------|------|--------|--------------------|--------|------|-----|------|----|----|--|
| | | | | | | | Milk | % Fat | % Pro | | DIM | Milk | Fat % | Pro % | Milk | Fat | Pro | Milk | Fat | Pro | | | | |
| 1 | 2 | 07-15-18 | 1-11 | 157 | 1 | 23,383 | 3.7 | 873 | 3.1 | 731 | 208 | 367 | 25,394 | 3.8 | 954 | 3.1 | 799 | 28,963 | 1078 | 874 | +613 | -6 | +0 | |
| | | | | | | | | | | | | 365 | 25,368 | 3.8 | 953 | 3.1 | 798 | | | | | | | |
| | | | | | | | | | | Totals | | | Averages | | | | | | | | | | | |
| | | | | | | | | | | 367 | 25,394 | 3.8 | 954 | 3.1 | 799 | 28,963 | 1078 | 874 | +613 | -6 | +0 | | | |

| | | | |
|--|--|----------------|--|
| * Dry thru Test Date: 08-15-19 | | Barn Name | |
| Dried on 07-17-19 | | 10969 | |
| Number of Breedings = 4 | | Index | |
| Last Bred 12-19-18 To 734HO00088 HO Preg | | 10969 | |
| Prev Bred 11-29-18 To 734HO00082 HO | | Identification | |
| Prev Bred 10-18-18 To 734HO00088 HO | | 3134107055 | |

2019 Iowa FFA Dairy Cattle Evaluation CDE Key

Test Key

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

DHIA Questions

26. D
27. C
28. B
29. B
30. B

Dairy Management

31. D
32. A
33. A
34. B
35. B

Sire Evaluation Questions

36. D
37. D
38. C
39. B
40. A

Pedigree Evaluation

41. C
42. A
43. C
44. C
45. B

46. Phase E Pedigree Placing

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

- 2- P9 + 497
Sire - high prod - type 1.30
Dam - Highest milk, fat, protein
- 1- P7 + 466
Sire - high prod - type
Dam - 17000,700,560
- 3- P- + 447
Sire - Neg milk, fat +10
Dam - 20000, 750, 600
- 4- P- + 422
Sire - Neg milk, protein,
Dam - 19000, 850, 650

47. Phase F Sire Selection

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

All bulls have negative values on the production traits.

Focus on MS - F/L - Show ring potential

- 3- UDC +1.32 , Type 1.0, MS 103
Positive - all traits, Big stature
- 2- UDC +.96, Type 1.1,
Stature - dairy form, udder - positive
neg - Leg, rump, Best production traits
Maybe best combination bull
- 1- UDC +.82, Type +.6, MS 108
Positive - Stature - FU, Udder depth
Neg - Dairy form, Legs
- 4- UDC +.41, Type +.7, Positive - FU attach
Neg - Dairy form, Leg, RU

48. Phase G Culling

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

- 2- Lowest 305 prod milk
Lowest herdmate dev -4639 milk
H-VH SCC, Records decline
Lowest Rep Eff -90
- 3- Herdmate dev 2nd low -4323 milk, -77 fat,
-125 protein
High quality milk, Rep Eff - 100
- 4- High SCC
4 times bred to settle
Ceased prod 13#/end
+613 Herdmate milk, -6 fat, 0 prot
- 1- Herdmate dev - 3rd low -2560 milk, -72 fat
-72 protein
Some high SCC, 2 times bred
Close bottom pair