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Jerseys vs. Holsteins: Cost Comparison Summary 2016 California Cost of Milk Production

Overview

Again in 2016, Jerseys excelled over Holsteins for income over feed costs per hundredweight according to data published by the California Department of Food and Agriculture (CDFA). However, the report also emphasized that last year was the second consecutive year of losses for typical California producers regardless of breed.

In late May, CDFA released their annual Cost of Milk Production report. The survey compiled by the staff of the Cost of Production Unit was based on data collected from 14 Jersey and 73 Holstein herds. Herds that volunteer to participate in the analysis provide CDFA personnel with herd financial records that are subject to audit-level scrutiny to assure their accuracy. Using the herd-reported mailbox milk prices and cost data, Jerseys posted income over feed costs of \$7.70/cwt., compared to Holsteins at \$5.77/cwt., for an advantage of \$1.93/cwt. The Holstein price of \$14.57/cwt. showed a \$0.59 drop from the previous year. Jersey production per day increased 1.5%, while Holstein production increased 1.3% per day.

As highlighted in *Figure 1*, the Jersey price advantage for the California Mailbox price is \$3.31/cwt. Cheese plant A and B represent California regulated prices plus quality and component premiums. The cheese plant prices illustrate the importance of specific protein premiums to Jersey milk. The Federal Order price represents FMMO minimums for fat, protein, and other solids plus an average producer price differential (PPD).

Cost Categories

Feed Costs

Overall feed costs decreased 11.9% from 2015. For 2016 dry roughage, wet feed and concentrates costs were noticeably lower than 2015. Overall feed costs for Jerseys decreased \$1.63/cwt. from 2015 while Holstein

Revenue

2016 showed a drop of milk prices from the previous year. The California Mailbox prices shown in Figure 1 are reported by the CDFA in conjunction with the cost of production summary and are based on California's regulated minimum prices plus earned premiums, less

| Figure 1 - Revenue and Income | e | | | | | - 1// |
|--------------------------------|------|---------------|-----|-----------------|-----------|-------------------|
| <u>Revenue Per CWT</u> | | <u>Jersey</u> | | <u>Holstein</u> | <u>Je</u> | rsey Difference |
| California Mailbox | \$ | 17.88 | \$ | 14.57 | \$ | 3.31 |
| California Cheese Plant A | \$ | 18.53 | \$ | 14.79 | \$ | 3.74 |
| California Cheese Plant B | \$ | 18.50 | \$ | 14.84 | \$ | 3.65 |
| Federal Order Value | \$ | 19.83 | \$ | 16.11 | \$ | 3.72 |
| IOFC Per CWT | | <u>Jersey</u> | | <u>Holstein</u> | <u>Je</u> | rsey Difference |
| California Mailbox | \$ | 7.70 | \$ | 5.77 | \$ | 1.93 |
| California Cheese Plant A | \$ | 8.35 | \$ | 5.99 | \$ | 2.36 |
| California Cheese Plant B | \$ | 8.32 | \$ | 6.04 | \$ | 2.27 |
| Federal Order Value | \$ | 9.65 | \$ | 7.31 | \$ | 2.34 |
| Net Income Per Cow | | <u>Jersey</u> | | Holstein | <u>Je</u> | rsey Difference |
| California Mailbox | \$ | (155.62) | \$ | (148.40) | \$ | (7.22) |
| California Cheese Plant A | \$ | (141.19) | \$ | (226.72) | \$ | 85.53 |
| California Cheese Plant B | \$ | (147.86) | \$ | (214.35) | \$ | 66.48 |
| Federal Order Value | \$ | 108.05 | \$ | 97.82 | \$ | 10.23 |
| 2016 CA average prices: Fat \$ | 2.26 | 42, Overbas | e S | NF \$.6783, | Qı | uota SNF \$0.8733 |
| 2016 FMMO average prices: Fa | | | | | | |

total feed costs ran \$1.75/cwt. more than Holstein. Feed costs accounted for over 50% of total costs for both breeds.

costs went down \$1.26/cwt. Jersey

Income over Feed Costs Figure 1 also shows income over feed costs. For the California Mailbox price, Jerseys topped Holsteins by \$1.93/cwt. For

marketing costs and assessments. Milk component levels reported by the herds averaged 4.81% butterfat and 9.40% nonfat solids for Jerseys and 3.68% butterfat and 8.87% nonfat solids for Holsteins. The Jersey mailbox price of \$17.88/cwt. represented a \$0.41 drop from 2015.

the California cheese plants, the Jersey difference was \$2.36/cwt for Plant A and \$2.27/cwt for Plant B. On the Federal Order Value, Jerseys surpassed Holsteins by \$2.34/cwt. Income over feed costs for 2016 increased 18.9% from 2015 for Jerseys, and 13.3% for Holsteins.

National All-Jersey Inc. 614-861-3636 VOICE

6486 East Main Street, Reynoldsburg, OH 43068 naj@usjersey.com www.usjersey.com 614-861-8040 FAX

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Hired Labor, Operating Costs & Milk Marketing Hired labor expense for Jerseys went up five cents to \$2.03, while the Holstein cost stayed the same at \$1.67/cwt.

| Percent of Milk Production (Grade A & B) | | | | | |
|--|---------------------|----------|--------|--------|--------|
| Herd Type | Sorting Parameters | December | | | |
| | Fat Test | 2005 | 2014 | 2015 | 2016 |
| Holstein | ≤ 3.99% | 91.2% | 84.2% | 78.5% | 78.2% |
| Mixed & Other | > 3.99% and ≤ 4.30% | 4.8% | 5.5% | 10.3% | 10.2% |
| Jersey | > 4.30% | 4.0% | 10.3% | 11.2% | 11.6% |
| Total | | 100.0% | 100.0% | 100.0% | 100.0% |

Operating costs, the broadest category, includes utilities, veterinary costs, bedding, fuel, taxes, insurance, depreciation and other items. For Jerseys, these costs increased 4.1% to \$3.82/cwt., while for Holsteins, these costs decreased by twelve cents to \$2.71/cwt. Hauling costs and assessments were virtually unchanged for both breeds.

Herd Replacement Costs

Of the five cost categories tracked by CDFA, replacement costs are the one most open to discussion. CDFA defines replacement costs as, "The number and value of cows entering the herd, minus the total receipts of cows culled and dead." The effect of this accounting procedure is that herds raising their own replacement animals are 'assessed' the market value of those heifers when they enter the milking herd regardless of the actual costs to raise them. The demand for Jerseys is high in California, and the market value for Jersey and Holstein heifers is nearly equal. For 2016 CDFA valued Jersey replacements at \$1,761 and Holsteins at \$1,860.

Using CDFA's methodology, replacement costs for Jerseys in 2016 were \$2.66/cwt., a decrease of \$0.25 from 2015 and \$0.66/cwt. greater than \$2.00/cwt. for Holsteins. On a per cow basis, the Jersey costs were

receives butterfat test data from all the individual Grade A and Grade B dairies. These fat tests were used to estimate the volume of milk produced by Holsteins, Jerseys, and Mixed and Other breed herds. Mixed herds can be crossbreds or herds that milk both Jerseys and Holsteins in the same facility. As is shown, Jersey's estimated percentage of California milk production has increased from 4.0% in 2005 to 11.6% last year, while Mixed and Other has increased from 4.8% to 10.2%. The strong interest in Jerseys has increased the value of Jerseys to the point they are nearly equal to that of Holsteins.

Summary

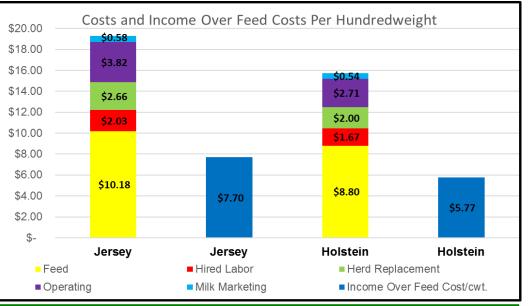
CDFA's Cost of Production Summary reflected what many producers already knew, that while last year was a better year than 2015, dairy economics were still very tough. The comparisons between California pricing, including cheese plant protein premiums, and federal order pricing highlight why California producers initiated steps to replace their state milk order program with a FMMO. However, the California state order does not allow milk to be sold for less than the regulated minimum price, whereas manufacturing milk in the FMMOs can be sold for less Class price. Below Class sales are not reflected in the FMMO prices, but do lower prices received by producers.

\$512.76 while Holstein herds averaged \$494.76 per cow.

Total Cost Comparison The total cost for Jerseys decreased \$1.70/cwt. in 2016 to \$19.26 and the total cost for Holsteins decreased \$1.41/cwt. to \$15.71.

California Herd Makeup

New to this year's report was an analysis of the makeup of California's milking herd. The chart at the top of the page shows how California producers are shifting to Jersey genetics. CDFA's Milk Pooling Branch



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National All-Jersey Inc. 614-861-3636 VOICE 6486 East Main Street, Reynoldsburg, OH 43068 naj@usjersey.com

www.usjersey.com 614-861-8040 FAX

Milk & Component Outlook - 2017 Prices through April

2017 AVERAGE STATISTICAL BLEND PRICE FOR EACH FEDERAL ORDER

| Northeast (Boston) | \$17.41 |
|-----------------------------|---------|
| Appalachian (Charlotte) | \$19.39 |
| Southeast (Atlanta) | \$19.18 |
| Florida (Tampa) | \$21.18 |
| Mideast (Cleveland) | \$16.55 |
| Upper Midwest (Chicago) | \$16.26 |
| Central (Kansas City) | \$16.40 |
| Southwest (Dallas) | \$17.21 |
| Arizona (Phoenix) | \$16.36 |
| Pacific Northwest (Seattle) | \$16.18 |
| ALL FMMO MARKET AVERAGE | \$17.61 |
| California 4b (Cheese Milk) | \$14.96 |
| California Overbase | \$15.27 |

Northeast (Boston) Appalachian (Charlotte) Southeast (Atlanta) Florida (Tampa) Mideast (Cleveland) Upper Midwest (Chicago) Central (Kansas City)

Southwest (Dallas) Arizona (Phoenix) Pacific Northwest (Seattle) ALL FMMO MARKET TOTAL

Total Grade A milk volume sold under FMMO.

2017 AVERAGE DOLLAR DIFFERENCE: JERSEY MILK WITH PREMIUMS VS. STATISTICAL BLEND PRICE

2017 MILK VOLUME

(Million #)

| .59 | Northeast (Boston) | \$4.17 |
|------|--|----------|
| 5.10 | Appalachian (Charlotte) | \$3.15 |
| .20 | Southeast (Atlanta) | \$3.02 |
| .40 | Florida (Tampa) | \$3.23 |
| .05 | Mideast (Cleveland) | \$4.48 |
| .58 | Upper Midwest (Chicago) | \$4.24 |
| .40 | Central (Kansas City) | \$3.94 |
| .86 | Southwest (Dallas) | \$3.65 |
| .90 | Arizona (Phoenix) | \$3.54 |
| .51 | Pacific Northwest (Seattle) | \$3.32 |
| .36 | ALL FMMO MARKET AVERAGE | \$3.67 |
| .40 | California 4b (Includes CY Premium) | \$5.44 |
| .74 | California Overbase | \$5.47 |
| | Prices reflect difference between Jersey price with premiums, and the statistical blend price. | |
| 7 | REGULATED MILK PRICES | 2017 |
| 4.98 | FMMO Milkfat | \$2.4313 |
| 3.79 | FMMO True Protein | \$1.9817 |
| 5.73 | FMMO Other Solids | \$0.3047 |
| 9.52 | CA 4b (Cheese Milk) Milkfat | \$2.3466 |
| 3.12 | CA 4b (Cheese Milk) SNF | \$0.7758 |
| | CA Overbase Milkfat | \$2.3463 |
| .46 | CA Overbase SNF | \$0.8115 |
| | | |

2017 AVERAGE JERSEY REGULATED BLEND PRICE

| Northeast (Boston) | \$21.34 |
|-----------------------------|---|
| Appalachian (Charlotte) | \$22.74 |
| Southeast (Atlanta) | \$22.20 |
| Florida (Tampa) | \$24.40 |
| Mideast (Cleveland) | \$20.45 |
| Upper Midwest (Chicago) | \$20.34 |
| Central (Kansas City) | \$20.40 |
| Southwest (Dallas) | \$20.86 |
| Arizona (Phoenix) | \$19.56 |
| Pacific Northwest (Seattle) | \$19.51 |
| ALL FMMO MARKET AVERAGE | \$21.18 |
| California 4b (Cheese Milk) | \$19.08 |
| California Overbase | \$19.42 |
| | Appalachian (Charlotte) Southeast (Atlanta) Florida (Tampa) Mideast (Cleveland) Upper Midwest (Chicago) Central (Kansas City) Southwest (Dallas) Arizona (Phoenix) <u>Pacific Northwest (Seattle)</u> ALL FMMO MARKET AVERAGE California 4b (Cheese Milk) |

Prices reflect FMMO minimum prices at Jersey component values.

2017 AVERAGE PERCENT DIFFERENCE: JERSEY MILK WTH PREMIUMS VS. STATISTICAL BLEND PRICE

| 7 | Northeast (Boston) | 23.9% |
|---|--|----------|
| 5 | Appalachian (Charlotte) | 15.8% |
| 2 | Southeast (Atlanta) | 15.7% |
| 3 | Florida (Tampa) | 15.3% |
| 3 | Mideast (Cleveland) | 27.0% |
| 1 | Upper Midwest (Chicago) | 25.9% |
| 1 | Central (Kansas City) | 24.0% |
| 5 | Southwest (Dallas) | 21.2% |
| 1 | Arizona (Phoenix) | 21.7% |
| 2 | Pacific Northwest (Seattle) | 20.5% |
| 7 | ALL FMMO MARKET AVERAGE | 21.1% |
| 1 | California 4b (Includes CY Premium) | 36.4% |
| 7 | California Overbase | 35.8% |
| | Percent difference in Jersey price with premiums, over the statistical blend price. | |
| | AVERAGE JERSEY PRICE ADJUSTMENT PER CWT: | 2017 |
| 3 | FMMO Milkfat Adjustment | \$2.80 |
| 7 | FMMO True Protein Adjustment | \$1.20 |
| 7 | FMMO Other Solids Adjustment | (\$0.01) |
| 6 | CA 4b (Cheese Milk) Milkfat | \$3.48 |
| 3 | CA 4b (Cheese Milk) SNF | \$0.65 |
| 3 | CA Overbase Milkfat | \$3.48 |
| 5 | CA Overbase SNF | \$0.67 |
| | | |

Prices reflect Federal Order minimum blend prices for city shown.

2017 AVERAGE JERSEY BLEND WITH ESTIMATED PROTEIN OR CHEESE YIELD PREMIUMS

| Northeast (Boston) | \$21.59 |
|---|-----------|
| Appalachian (Charlotte) (includes protein prem.) | \$23.10 |
| Southeast (Atlanta) | \$22.20 |
| Florida (Tampa) | \$24.40 |
| Mideast (Cleveland) (includes protein premium) | \$21.05 |
| Upper Midwest (Chicago) (includes cy premium |) \$20.58 |
| Central (Kansas City) | \$20.40 |
| Southwest (Dallas) | \$20.86 |
| Arizona (Phoenix) (includes protein) | \$19.90 |
| Pacific Northwest (Seattle) | \$19.51 |
| ALL FMMO MARKET AVERAGE | \$21.36 |
| California 4b (Includes CY Premium) | \$20.40 |
| California Overbase | \$20.74 |
| ncludes a protein premium of \$0.05 for every 0.01% increas n protein over the market average. | e |
| ESTIMATED JERSEY MILK COMPOSITION | 2017 |
| Butterfat | 4.98 |
| TRUE Protein | 3.79 |
| Other Solids | 5.73 |
| Solids Not Fat (SNF) | 9.52 |
| Cheese Yield (90% Fat Recovery, 38% Moisture) | 13.12 |
| CME Block Cheese Price | \$1.46 |
| | |

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Milk & Component Outlook - April 2017 Jersey Price Comparisons

APR '17 STATISTICAL BLEND PRICE

| Northeast (Boston) | \$16.39 |
|-----------------------------|---------|
| Appalachian (Charlotte) | \$19.34 |
| Southeast (Atlanta) | \$17.97 |
| Florida (Tampa) | \$20.08 |
| Mideast (Cleveland) | \$15.61 |
| Upper Midwest (Chicago) | \$15.37 |
| Central (Kansas City) | \$15.42 |
| Southwest (Dallas) | \$16.32 |
| Arizona (Phoenix) | \$15.35 |
| Pacific Northwest (Seattle) | \$15.23 |
| ALL FMMO MARKET AVERAGE | \$17.45 |
| California 4b (Cheese Milk) | \$14.30 |
| California Overbase | \$15.80 |
| | |

Prices reflect Federal Order minimum blend prices for city shown.

APR '17 JERSEY BLEND WITH ESTIMATED PROTEIN OR CHEESE YIELD PREMIUMS

| Northeast (Boston) | \$20.15 |
|--|---------|
| Appalachian (Charlotte) (includes protein prem.) | \$22.47 |
| Southeast (Atlanta) | \$20.88 |
| Florida (Tampa) | \$23.10 |
| Mideast (Cleveland) (includes protein premium) | \$19.72 |
| Upper Midwest (Chicago) (includes cy premium) | \$19.16 |
| Central (Kansas City) | \$18.96 |
| Southwest (Dallas) | \$19.76 |
| Arizona (Phoenix) (includes protein) | \$18.86 |
| Pacific Northwest (Seattle) | \$18.35 |
| ALL FMMO MARKET AVERAGE | \$20.14 |
| California 4b (Includes CY Premium) | \$19.27 |

| California 4b (Includes CY Premium) | |
|-------------------------------------|--|
| California Overbase | |

Includes a protein premium of \$0.05 for every 0.01% increase in protein over the market average.

| ESTIMATED JERSEY MILK COMPOSITION | <u>A</u> | pr-17 |
|---|----------|-------|
| Butterfat | | 4.89 |
| TRUE Protein | | 3.74 |
| Other Solids | | 5.73 |
| Solids Not Fat (SNF) | | 9.47 |
| Cheese Yield (90% Fat Recovery, 38% Moisture) | | 12.96 |
| CME Block Cheese Price | \$ | 1.73 |

APR '17 MONTHLY MILK VOLUME (Million #)

| (Million #) | |
|-------------|--|
| | |

| 1 | Northeast (Boston) |
|---|-----------------------------|
| A | Appalachian (Charlotte) |
| 5 | Southeast (Atlanta) |
| F | Florida (Tampa) |
| ľ | Mideast (Cleveland) |
| ι | Jpper Midwest (Chicago) |
| (| Central (Kansas City) |
| 5 | Southwest (Dallas) |
| A | Arizona (Phoenix) |
| F | Pacific Northwest (Seattle) |
| 1 | ALL FMMO MARKET TOTAL |

Total Grade A milk volume sold under FMMO during month.

APR '17 DOLLAR DIFFERENCE: JERSEY MILK WTH PREMIUMS VS. STATISTICAL BLEND PRICE

| | Northeast (Boston) | | \$3.76 |
|---|--|-----|--------|
| | Appalachian (Charlotte) | | \$3.13 |
| | Southeast (Atlanta) | | \$2.91 |
| | Florida (Tampa) | | \$3.02 |
| | Mideast (Cleveland) | | \$4.11 |
| | Upper Midwest (Chicago) | | \$3.79 |
| | Central (Kansas City) | | \$3.54 |
| | Southwest (Dallas) | | \$3.44 |
| | Arizona (Phoenix) | | \$3.51 |
| | Pacific Northwest (Seattle) | | \$3.12 |
| | ALL FMMO MARKET AVERAGE | | \$3.43 |
| | California 4b (Includes CY Premium) | | \$4.97 |
| | California Overbase | | \$5.12 |
| | Prices reflect difference between Jersey price with premiums, a the statistical blend price. | and | |
| | REGULATED MILK PRICES | 4 | Apr-17 |
| 9 | FMMO Milkfat | \$ | 2.3548 |

| FMMO Milkfat | \$ 2.3548 |
|-----------------------------|--------------|
| FMMO True Protein | \$ 1.6955 |
| FMMO Other Solids | \$ 0.3350 |
| CA 4b (Cheese Milk) Milkfat | \$ 2.2639 |
| CA 4b (Cheese Milk) SNF | \$ 0.7324 |
| CA Overbase Milkfat | \$ 2.2800 |
| CA Overbase SNF | \$ 0.8990 |
| | |

APR '17 JERSEY REGULATED BLEND PRICE

| 2,355 | Northeast (Boston) | \$19.93 |
|--------|-----------------------------|---------|
| 481 | Appalachian (Charlotte) | \$22.13 |
| 502 | Southeast (Atlanta) | \$20.88 |
| 220 | Florida (Tampa) | \$23.10 |
| 1,843 | Mideast (Cleveland) | \$19.16 |
| 3,080 | Upper Midwest (Chicago) | \$18.93 |
| 1,461 | Central (Kansas City) | \$18.96 |
| 1,211 | Southwest (Dallas) | \$19.76 |
| 441 | Arizona (Phoenix) | \$18.54 |
| 610 | Pacific Northwest (Seattle) | \$18.35 |
| 12,252 | ALL FMMO MARKET AVERAGE | \$19.97 |
| | California 4b (Cheese Milk) | \$18.02 |
| | California Overbase | \$19.67 |
| | | |

Prices reflect FMMO minimum prices at Jersey component values.

APR '17 PERCENT DIFFERENCE: JERSEY MILK WTH PREMIUMS VS. STATISTICAL BLEND PRICE

| 8.76 | Northeast (Boston) | 23.0% |
|------|--|---------------|
| 3.13 | Appalachian (Charlotte) | 16.2% |
| 2.91 | Southeast (Atlanta) | 16.2% |
| 3.02 | Florida (Tampa) | 15.0% |
| 1.11 | Mideast (Cleveland) | 26.4% |
| 8.79 | Upper Midwest (Chicago) | 24.6% |
| 3.54 | Central (Kansas City) | 23.0% |
| 3.44 | Southwest (Dallas) | 21.1% |
| 3.51 | Arizona (Phoenix) | 22.9% |
| 3.12 | Pacific Northwest (Seattle) | 20.5% |
| 3.43 | ALL FMMO MARKET AVERAGE | 20.9% |
| .97 | California 4b (Includes CY Premium) | 34.8% |
| 5.12 | California Overbase | 32.4% |
| | Percent difference in Jersey price with premiums, over the statistical blend price. | |
| 7 | AVERAGE JERSEY PRICE ADJUSTMENT PER CWT: | <u>Apr-17</u> |
| 548 | FMMO Milkfat Adjustment | \$2.66 |
| 955 | FMMO True Protein Adjustment | \$1.01 |
| 350 | FMMO Other Solids Adjustment | (\$0.01) |
| 639 | CA 4b (Cheese Milk) Milkfat | \$12.93 |
| 324 | CA 4b (Cheese Milk) SNF | (\$2.30) |
| 800 | CA Overbase Milkfat | \$5.37 |
| 990 | CA Overbase SNF | \$1.52 |
| | | - |

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\$20.93