

Jersey Nutrition Series

Dairy nutrition isn't always black and white

National All-Jersey Inc. has joined industry experts to produce five webinars focused on Jersey-specific nutrition throughout four different stages of a dairy animal's life cycle.

The series is offered as a free educational resource for nutritionists and breeders about the distinct differences of feeding Jersey cattle versus a larger breed. The presentations also explained what isn't different between the breeds and suggests additional areas research may be needed. The four nutritional life stages covered are the transition period, lactation, heifers and calves. Presentations included an interactive question and answer session with the hosts. The full nutrition presentations and slides are available at all times on the American Jersey Cattle Association/ National All-Jersey Inc. site at, <http://bit.do/Jersey-Nutrition>.

Past NAJ President, Dave Endres initiated the idea of this series and had previously stated, "From my experiences with Jerseys there's a big difference between Holstein and Jersey nutrition and unfortunately too many of the nutritionists out there do not have enough experience because they do not have enough Jersey herds to work with."



"The Transition Cow" featured Dr. Jim Tully, Dr. Cameron Nightingale and Todd Stroup of Pine Creek Nutrition, Turlock, Ca. Filming of this webinar took place at Boer Jersey Dairy, Dalhart, TX. The presentation was made into two separate videos which aired on August 30 and September 12. They discussed feeding dry and close-up animals and monitoring fresh cows for the optimal transition. Six guidelines for a successful transition were discussed:

1. Minimize stress
2. Use nutrient requirements
3. Dietary Cation Anion Difference diets, monitor urine pH
4. Infrequent moves as calving approaches
5. Fresh cow monitoring
6. Monitor disease incidence

Dr. Bill Weiss and Dr. Maurice Eastridge from The Ohio State University hosted "The Milking Herd" on September 27 at the Wooster, OH ATI dairy. They explained the nutritional

differences and similarities in lactating Jerseys when compared to Holsteins. Weiss and Eastridge highlighted the differences in body condition and dry matter intake pre- and postpartum, while also discussing breed effect

on certain minerals and vitamins. They also mentioned areas of Jersey nutrition that could use future research.

In “The Jersey Heifer” presentation Dr. Bob James of Down Home Heifer Solutions, Blacksburg, Va, addressed the question, “What’s special about feeding Jersey heifers?” Filming took place at Huffard Dairy Farms, Crockett, VA, and included discussion with NAJ Vice President, Jim Huffard. On October 11, Dr. James discussed nutrition requirements for maintenance and growth and the problem with Holstein-based growth charts. He covered implementing targeted growth based on mature body size. Practical suggestions were given for feeding Jersey heifers in mixed breed operations.

“The Jersey Calf” webinar hosted on October 25 featured Gary Moore, an experienced Jersey dairyman and now a calf nutrition specialist with Cargill. This presentation was filmed at Dutch Hollow Farm, Schodack Landing, NY. Gary spoke on achieving the optimal start for a Jersey calf. The three main topics covered building the immune system, feeding calves to meet their genetic potential, and transition to starter feed. Colostrum quality and quantity were discussed to build the immune system,



along with some common pitfalls mixed breed herds may find if they don’t properly manage breed differences. Moore highlighted many of previous misconceptions when feeding Jersey calves and offers practical solutions.

Target weights and required gains for Jersey calves and heifers with expected mature weight of 1000 lb.

Milestone	Growth Target	Start Weight	Required Gain/day
Birth		60	
56 days	Double birth weight	120	1.1
Puberty	45% of mature weight	450	1.2
First Breeding	55% of mature weight	550	1.2
After first calving	85% of mature weight	850	1.2



National All-Jersey Inc. has produced this Jersey Nutritional series with the hope that it will continue to be a go-to resource for Jersey dairy breeders and nutritionist. Presenter PowerPoint presentations and full recorded webinars are available on the AJCA/NAJ website at, <http://bit.do/Jersey-Nutrition>. Video’s are also posted to the USJersey YouTube channel.

The NAJ Equity Newsletter is Published for Supporters of and People Interested In Equitable Milk Pricing

NAJ Milk & Component Outlook - September 2018 Jersey Price Comparisons

<u>SEP '18 STATISTICAL BLEND PRICE</u>		<u>SEP'18 MONTHLY MILK VOLUME</u> (Million #)		<u>SEP '18 JERSEY REGULATED BLEND PRICE</u>	
Northeast (Boston)	\$16.71	Northeast (Boston)	2,145	Northeast (Boston)	\$21.04
Appalachian (Charlotte)	\$17.35	Appalachian (Charlotte)	445	Appalachian (Charlotte)	\$20.50
Southeast (Atlanta)	\$17.94	Southeast (Atlanta)	394	Southeast (Atlanta)	\$20.96
Florida (Tampa)	\$19.23	Florida (Tampa)	205	Florida (Tampa)	\$22.39
Midwest (Cleveland)	\$15.83	Midwest (Cleveland)	1,462	Midwest (Cleveland)	\$20.02
Upper Midwest (Chicago)	\$16.02	Upper Midwest (Chicago)	2,157	Upper Midwest (Chicago)	\$20.06
Central (Kansas City)	\$15.64	Central (Kansas City)	1,074	Central (Kansas City)	\$19.56
Southwest (Dallas)	\$16.31	Southwest (Dallas)	756	Southwest (Dallas)	\$19.94
Arizona (Phoenix)	\$15.85	Arizona (Phoenix)	354	Arizona (Phoenix)	\$19.25
<u>Pacific Northwest (Seattle)</u>	<u>\$15.44</u>	<u>Pacific Northwest (Seattle)</u>	<u>611</u>	<u>Pacific Northwest (Seattle)</u>	<u>\$18.77</u>
ALL FMMO MARKET AVERAGE	\$16.63	ALL FMMO MARKET TOTAL	9,602	ALL FMMO MARKET AVERAGE	\$20.25
California 4b (Cheese Milk)	\$15.62			California 4b (Cheese Milk)	\$19.73
California Overbase	\$14.75			California Overbase	\$18.79
<i>Prices reflect Federal Order minimum blend prices for city shown.</i>		<i>Total Grade A milk volume sold under FMMO during month.</i>		<i>Prices reflect FMMO minimum prices at Jersey component values.</i>	
<u>SEP '18 JERSEY BLEND WITH ESTIMATED PROTEIN OR CHEESE YIELD PREMIUMS</u>		<u>SEP'18 DOLLAR DIFFERENCE: JERSEY MILK WITH PREMIUMS VS. STATISTICAL BLEND PRICE</u>		<u>SEP '18 PERCENT DIFFERENCE: JERSEY MILK WITH PREMIUMS VS. STATISTICAL BLEND PRICE</u>	
Northeast (Boston)	\$21.25	Northeast (Boston)	\$4.54	Northeast (Boston)	27.1%
Appalachian (Charlotte) (includes protein prem.)	\$20.83	Appalachian (Charlotte)	\$3.48	Appalachian (Charlotte)	20.0%
Southeast (Atlanta)	\$20.96	Southeast (Atlanta)	\$3.02	Southeast (Atlanta)	16.8%
Florida (Tampa)	\$22.39	Florida (Tampa)	\$3.16	Florida (Tampa)	16.5%
Midwest (Cleveland) (includes protein premium)	\$20.57	Midwest (Cleveland)	\$4.74	Midwest (Cleveland)	29.9%
Upper Midwest (Chicago) (includes cy premium)	\$20.28	Upper Midwest (Chicago)	\$4.26	Upper Midwest (Chicago)	26.6%
Central (Kansas City)	\$19.56	Central (Kansas City)	\$3.92	Central (Kansas City)	25.1%
Southwest (Dallas)	\$19.94	Southwest (Dallas)	\$3.63	Southwest (Dallas)	22.3%
Arizona (Phoenix) (includes protein)	\$19.57	Arizona (Phoenix)	\$3.72	Arizona (Phoenix)	23.4%
<u>Pacific Northwest (Seattle)</u>	<u>\$18.77</u>	<u>Pacific Northwest (Seattle)</u>	<u>\$3.33</u>	<u>Pacific Northwest (Seattle)</u>	<u>21.6%</u>
ALL FMMO MARKET AVERAGE	\$20.41	ALL FMMO MARKET AVERAGE	\$3.78	ALL FMMO MARKET AVERAGE	22.9%
California 4b (Includes CY Premium)	\$20.97	California 4b (Includes CY Premium)	\$5.34	California 4b (Includes CY Premium)	34.2%
California Overbase	\$20.03	California Overbase	\$5.28	California Overbase	35.8%
<i>Includes a protein premium of \$0.05 for every 0.01% increase in protein over the market average.</i>		<i>Prices reflect difference between Jersey price with premiums, and the statistical blend price.</i>		<i>Percent difference in Jersey price with premiums, over the statistical blend price.</i>	
<u>ESTIMATED JERSEY MILK COMPOSITION</u>		<u>REGULATED MILK PRICES</u>		<u>AVERAGE JERSEY PRICE ADJUSTMENT PER CWT:</u>	
	<u>Sep-18</u>		<u>Sep-18</u>		<u>Sep-18</u>
Butterfat	4.92	FMMO Milkfat	\$ 2.5442	FMMO Milkfat Adjustment	\$2.89
TRUE Protein	3.73	FMMO True Protein	\$ 2.0029	FMMO True Protein Adjustment	\$1.19
Other Solids	5.73	FMMO Other Solids	\$ 0.2098	FMMO Other Solids Adjustment	(\$0.00)
Solids Not Fat (SNF)	9.46	CA 4b (Cheese Milk) Milkfat	\$ 2.4457	CA 4b (Cheese Milk) Milkfat	\$3.48
Cheese Yield (90% Fat Recovery, 38% Moisture)	12.92	CA 4b (Cheese Milk) SNF	\$ 0.8120	CA 4b (Cheese Milk) SNF	\$0.64
		CA Overbase Milkfat	\$ 2.4630	CA Overbase Milkfat	\$3.51
CME Block Cheese Price	\$ 1.64	CA Overbase SNF	\$ 0.7040	CA Overbase SNF	\$0.54

NAJ Milk & Component Outlook - 2018 Prices through September

2018 AVERAGE STATISTICAL BLEND PRICE FOR EACH FEDERAL ORDER		2018 MILK VOLUME (Million #)		2018 AVERAGE JERSEY REGULATED BLEND PRICE	
Northeast (Boston)	\$15.89	Northeast (Boston)	20,553	Northeast (Boston)	\$19.75
Appalachian (Charlotte)	\$17.02	Appalachian (Charlotte)	4,297	Appalachian (Charlotte)	\$20.30
Southeast (Atlanta)	\$16.57	Southeast (Atlanta)	3,974	Southeast (Atlanta)	\$21.03
Florida (Tampa)	\$18.69	Florida (Tampa)	1,902	Florida (Tampa)	\$22.36
Mideast (Cleveland)	\$15.03	Mideast (Cleveland)	14,826	Mideast (Cleveland)	\$18.50
Upper Midwest (Chicago)	\$14.72	Upper Midwest (Chicago)	25,013	Upper Midwest (Chicago)	\$18.41
Central (Kansas City)	\$14.72	Central (Kansas City)	12,455	Central (Kansas City)	\$18.40
Southwest (Dallas)	\$15.50	Southwest (Dallas)	9,930	Southwest (Dallas)	\$19.03
Arizona (Phoenix)	\$14.88	Arizona (Phoenix)	3,855	Arizona (Phoenix)	\$18.22
Pacific Northwest (Seattle)	\$14.69	Pacific Northwest (Seattle)	6,217	Pacific Northwest (Seattle)	\$17.79
ALL FMMO MARKET AVERAGE	\$15.77	ALL FMMO MARKET TOTAL	103,022	ALL FMMO MARKET AVERAGE	\$19.38
California 4b (Cheese Milk)	\$14.24			California 4b (Cheese Milk)	\$18.27
California Overbase	\$13.87			California Overbase	\$17.87

Prices reflect Federal Order minimum blend prices for city shown.

Total Grade A milk volume sold under FMMO.

Prices reflect FMMO minimum prices at Jersey component values.

2018 AVERAGE JERSEY BLEND WITH ESTIMATED PROTEIN OR CHEESE YIELD PREMIUMS		2018 AVERAGE DOLLAR DIFFERENCE: JERSEY MILK WITH PREMIUMS VS. STATISTICAL BLEND PRICE		2018 AVERAGE PERCENT DIFFERENCE: JERSEY MILK WITH PREMIUMS VS. STATISTICAL BLEND PRICE	
Northeast (Boston)	\$19.95	Northeast (Boston)	\$4.07	Northeast (Boston)	25.6%
Appalachian (Charlotte) (includes protein prem.)	\$20.63	Appalachian (Charlotte)	\$3.36	Appalachian (Charlotte)	19.4%
Southeast (Atlanta)	\$21.03	Southeast (Atlanta)	\$3.10	Southeast (Atlanta)	17.4%
Florida (Tampa)	\$22.36	Florida (Tampa)	\$3.26	Florida (Tampa)	17.1%
Mideast (Cleveland) (includes protein premium)	\$19.07	Mideast (Cleveland)	\$4.03	Mideast (Cleveland)	26.9%
Upper Midwest (Chicago) (includes cy premium)	\$18.64	Upper Midwest (Chicago)	\$3.89	Upper Midwest (Chicago)	26.4%
Central (Kansas City)	\$18.40	Central (Kansas City)	\$3.66	Central (Kansas City)	24.9%
Southwest (Dallas)	\$19.03	Southwest (Dallas)	\$3.52	Southwest (Dallas)	22.7%
Arizona (Phoenix) (includes protein)	\$18.54	Arizona (Phoenix)	\$3.63	Arizona (Phoenix)	24.4%
Pacific Northwest (Seattle)	\$17.79	Pacific Northwest (Seattle)	\$3.12	Pacific Northwest (Seattle)	21.3%
ALL FMMO MARKET AVERAGE	\$19.54	ALL FMMO MARKET AVERAGE	\$3.56	ALL FMMO MARKET AVERAGE	22.6%
California 4b (Includes CY Premium)	\$19.50	California 4b (Includes CY Premium)	\$5.26	California 4b (Includes CY Premium)	36.9%
California Overbase	\$19.10	California Overbase	\$5.24	California Overbase	37.8%

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

Prices reflect difference between Jersey price with premiums, and the statistical blend price.

Percent difference in Jersey price with premiums, over the statistical blend price.

ESTIMATED JERSEY MILK COMPOSITION	2018	REGULATED MILK PRICES	2018	AVERAGE JERSEY PRICE ADJUSTMENT PER CWT:	2018
Butterfat	4.94	FMMO Milkfat	\$2.5186	FMMO Milkfat Adjustment	\$2.87
TRUE Protein	3.73	FMMO True Protein	\$1.7327	FMMO True Protein Adjustment	\$1.03
Other Solids	5.73	FMMO Other Solids	\$0.1072	FMMO Other Solids Adjustment	(\$0.00)
Solids Not Fat (SNF)	9.46	CA 4b (Cheese Milk) Milkfat	\$2.4494	CA 4b (Cheese Milk) Milkfat	\$3.53
Cheese Yield (90% Fat Recovery, 38% Moisture)	12.90	CA 4b (Cheese Milk) SNF	\$0.6510	CA 4b (Cheese Milk) SNF	\$0.51
		CA Overbase Milkfat	\$2.4584	CA Overbase Milkfat	\$3.55
		CA Overbase SNF	\$0.6048	CA Overbase SNF	\$0.46