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Expert Report of Dr. Robert A. Cropp

Highly Confidential

UNITED STATES DISTRICT COURT
NORTHERN DISTRICT OF CALIFORNIA
OAKLAND DIVISION

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MATTHEW EDWARDS, et. al.,
individually and on behalf of all others
similarly situated

Plaintiffs,

v.

NATIONAL MILK PRODUCERS
FEDERATION, aka COOPERATIVES
WORKING TOGETHER; DAIRY FARMERS
OF AMERICA, INC.; LAND O'LAKES, INC.;
DAIRYLEA COOPERATIVE INC.; AND
AGRIMARK, INC.,

Defendants.

Case No. 3:11-CV-04791-JSW

[consolidated with 11-CV-04791-
JSW and 11-CV-05253-JSW]

EXPERT REPORT OF
DR. ROBERT A. CROPP

Contains Highly Confidential Information Subject to Protective Order

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1 **I. QUALIFICATIONS**

2 1. My experience in the dairy industry is both academic and first hand. I was born
3 into a family of dairy farmers in Wisconsin and worked on the farm until leaving for college,
4 and even then I continued to milk cows during the summer. As a graduate student I studied
5 agricultural economics and I focused my thesis on issues in the dairy industry. I went on to earn
6 a doctorate in agricultural economics and have dedicated my career to dairy market issues.

7 2. I have been a professor in the University of Wisconsin system since 1966. My
8 current position is Emeritus Professor in the Department of Agricultural and Applied
9 Economics for the College of Agricultural and Life Sciences at the University of Wisconsin-
10 Madison. I have taught college courses in many subjects in agricultural economics, conducted
11 research on a variety of milk marketing issues, and have numerous academic publications
12 concerning the dairy industry. My industry and academic experiences are more fully detailed in
13 my curriculum vitae, which accompanies this Report in Appendix 2.¹

14 3. Through the University of Wisconsin Cooperative Extension Program I
15 continued to work directly with dairy farmers and others to help them understand the dairy
16 industry and better manage their farms relative to the economics of the industry. I was
17 instrumental in developing the first dairy price risk management system (forward milk price
18 contract) for a cooperative and I have educated countless farmers on the intricacies of dairy
19 pricing. I have a deep understanding of the thought process and decision making of dairy
20 farmers from discussions with farmers over the last 48 years, particularly when it comes to the
21 impact of prices on farm management and production decisions.

22 4. I am recognized as an expert source of information for many dairy industry
23 participants throughout the country. Since 1974, I have written a monthly industry outlook
24 column that is distributed nationwide and published in major trade publications, such as the
25 Cheese Reporter and Cheese Market News, and is quoted extensively in others. The recipients
26

27 ¹ I am being compensated at a rate of \$300 per hour for my work on this matter, and my
28 compensation is not dependent on the outcome of this matter.

1 of my column include members of Congress and Senators, as well as notable academics and
2 dairy industry leaders. I also write a separate annual column for Hoard's Dairyman regarding
3 market conditions. I have also testified at federal and state milk marketing order hearings and
4 before the U.S. Congress on dairy policy.

5 5. I hold the opinions set forth in this report to a reasonable degree of certainty as
6 an agricultural economics expert, and they are based on information and data typically relied
7 upon by individuals with my training and background in forming such opinions. In the event
8 additional information or data is made available, I reserve the right to amend the opinions I have
9 expressed.

10 **II. SUMMARY OF OPINIONS**

11
12 6. I was retained by Defendants National Milk Producers Federation, Dairy
13 Farmers of America, Inc., Land O'Lakes, Inc., Dairyalea Cooperative Inc. and Agri-Mark, Inc.,
14 to consider how the structure of the dairy industry, the management of milking cows, heifers,
15 and dairy bull calves within the dairy herd for milk and beef production, the regulatory structure
16 of the dairy industry, and the history of government involvement in the dairy industry, affected
17 the likely impact of the Herd Retirement Program of the Cooperatives Working Together
18 program of NMPF on certain aspects of the dairy industry.

19 7. Cooperatives Working Together (CWT) is a committee of the National Milk
20 Producers Federation that was formed by dairy cooperatives, which joined together to
21 collectively implement programs to help dairy farmers strengthen and stabilize the price of milk
22 that they receive.² One the ways CWT undertook to accomplish this goal was by subsidizing
23 the marketing of dairy cows for beef through a program known as the Herd Retirement
24 Program.³ This program accepted bids from farmers to sell their entire milking herd into the
25 beef market. The bids that were accepted were then used to calculate a beef marketing subsidy

26 ² NMPF0000004

27 ³ *Id.*

1 that would account for or at least reduce the difference in value between the beef value of the
2 cows in the herd and their continued milking value.⁴

3 8. Dairy farmers have two primary sources of income: milk from their cows and
4 sales of cows and calves for beef. An average milking cow will produce milk for only three
5 years before being sold for beef. In an average year, a typical farmer will cull nearly 30 percent
6 of his milking herd for beef. Additionally, a typical milking cow will birth three calves during
7 its productive years, but on average only one of these will be kept as a replacement in the
8 milking herd while the others will be sold to a farmer to be raised for meat. This results in
9 approximately 20% of the U.S. beef production coming from dairy cows.⁵ In my opinion, beef
10 marketing is an integral part of dairy farming and the CWT Herd Retirement Program
11 facilitated dairy farmers' reallocation of productive assets from milk production to beef
12 production.

13 9. In my opinion, the CWT Herd Retirement Program would not have affected the
14 supply of Class I fluid beverage milk or Class II soft cream products because governmental
15 regulations ensure that those classes of milk are always given a full supply of milk before any
16 milk is allocated for use in cheese, butter or non-fat dry milk production. At all times during
17 the relevant period from 2003 until the present, there has been an excess of supply of raw milk
18 for Class I and Class II uses and no reduction in supply of milk for those classes occurred.⁶ Any
19 reduction in the supply of milk would impact the amount of surplus milk for Class III and Class
20 IV use only. On average, the CWT Herd Retirement Program subsidized the sale of cows for
21 beef that represented less than one percent of the total dairy herd during the period from 2003 to
22

23
24 _____
25 ⁴ *Id.*

26 ⁵ Cattlemen's Beef Board, "Your Beef Checkoff Investment – Helping You Maximize Dairy Cow
27 Market Value," accessed March 11, 2015
(<https://www.beefboard.org/producer/CBBFinalDairyBrochure.pdf>).

28 ⁶ USDA, "Federal Milk Order Market Statistics," Annual Summaries 2003-2013.

1 2010 when it was in operation.⁷ Overall raw milk production actually increased during the
2 relevant period of 2003 to 2010, both in terms of the number of milking cows overall
3 (completely offsetting any herds culled as a result of CWT) and milk production per cow.

4 10. The CWT Herd Retirement Program provided benefits to dairy farmers (also
5 known as producers), processors, and consumers. The program allowed inefficient producers
6 who were close to retirement to exit dairy farming, making way for more efficient producers
7 with higher potential cows. The program also reduced the costs associated with excess milk,
8 including balancing and transportation costs. In addition, to the extent the Herd Retirement
9 Program was successful in accomplishing its stated goal of stabilizing milk prices, it benefitted
10 both consumers and dairy farmers by reducing volatility, which has a negative effect on the
11 efficiency of the dairy market.

12 **III. DAIRY FARMING INVOLVES SOPHISTICATED MANAGEMENT OF COWS** 13 **FOR BOTH MILK AND BEEF**

14 11. Dairy farms are livestock operations and the primary job of a dairy farmer is
15 managing his herd. The modern view of dairy farming looks at cows as the productive asset of
16 the dairy farm. “[The] modern view separates the farm businesses into separate enterprises
17 where the heifer replacement enterprise is in fact a ‘meat’ enterprise. The ‘milk’ enterprise
18 made of lactating and dry cows is in essence leasing animals from the ‘meat’ enterprise. When
19 the lease expires, the animal is returned to the ‘meat’ enterprise to be slaughtered and its
20 reduced value must be paid as a redemption fee by the ‘milk’ enterprise.”⁸ Each year the
21 average dairy farm will sell almost 30% of its milking cows for beef and almost two-thirds of its
22 calves will be sold to be raised for meat, making the “meat enterprise” an integral part of the
23 dairy farm’s operations.

24
25 ⁷ NMPPF0017724; United States Department of Agriculture (USDA), National Agricultural
26 Statistical Service (NASS), “Milk Production Reports,” January 2003-January 2011.

27 ⁸ Normand R. St. Pierre, “Culling Rate on Dairy Farms and Its Effect on Income over Feed Costs
28 and Forage Inventory Requirements,” Tri State Dairy Nutrition Conference, April 23-24, 2013.

1 12. The biological cycle of a dairy cow starts with a female calf, called a heifer until
2 it has had a calf of its own. Heifers take around 24 months from birth to entering the milking
3 herd. At about 14 months of age the heifer is impregnated and has a 9 month gestation cycle.
4 After giving birth to a calf the heifer enters the milking herd as a milking cow. The cow is bred
5 again after 60-90 days. The cow will milk for about 10 months, going dry for approximately 2
6 months before calving again. In total the lactation cycle is around one year but it can be
7 extended up to 18 months.⁹

8 13. A milk cow will only stay in the milking herd for 3 lactation cycles on average,
9 with some high producing cows being kept for 4-5 cycles while others may be culled after the
10 first lactation. After the third cycle, on average, the cow is typically culled from the herd and
11 sent to slaughter for beef.

12 14. There is a lot of science and technology that goes into decisions on what to feed
13 cows, how much to feed them, how to manage the biological process involved in milk
14 production, and also when to market the cows for beef. Farmers must constantly evaluate their
15 herd to efficiently manage production. One new form of technology that is being used to
16 increase overall farm revenues from both milk and beef is called gender sexed semen.

17 15. Sexed semen is increasingly being used to impregnate dairy cows to maximize
18 the potential of their calves. When semen is sexed, sperm more likely to produce male calves is
19 separated from sperm that are more likely to produce female calves. Farmers then select their
20 best milking cows to be impregnated with sperm from a dairy bull that is most likely to result in
21 a female calf. Lower milk producing cows that have greater potential for beef are impregnated
22 with sexed semen from beef bulls that is most likely to result in a male calf that has greater beef
23 value. Because the average milking cow will produce approximately two calves more than are
24 needed to maintain the size of the herd during its productive life, sexed semen allows dairy
25 farmers to generate higher value out of all of their calves.

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⁹ Christopher H Knight, "Extended Lactation: Turning Theory into Reality," *Advances in Dairy Technology* (2005) Volume 17.

1 16. The end result of this genetic improvement process is that farmers grow milk
2 production per cow and also boost the value of the calves that are not retained but are sold to be
3 raised for beef. Due in large part to this process, the average milk per cow for the United States
4 increased from 18,196 pounds in 2000 to 22,258 pounds in 2014, an increase of 22.3 percent.¹⁰
5 Also the beef yield for dairy cow breeds has steadily improved and slaughter weights increased
6 12.7% on average from 1999 to 2007.¹¹

7 17. Every year dairy farmers cull about 30 percent of their milking cows, but the
8 exact level of culling will depend on the relative value of the cow for beef or for continued
9 milking.¹² Every dairy farmer anticipates when it acquires a cow that the cow will be marketed
10 for beef at some point.¹³ Because more than 2.8 million dairy cows are culled each year, a
11 robust market for dairy cow beef exists for use in hamburger meat and other less expensive cuts
12 of beef.¹⁴ Culled dairy cows and dairy calves raised for beef currently represent about 20% of
13 the total U.S. beef supply.¹⁵

14 18. The growing supply of genetically selected replacement heifers has also
15 increased cull rates in recent years by giving farmers an opportunity to increase their production
16 potential through new heifers. Replacement heifers are those that are raised as potential
17 additions to the milking herd and are differentiated from other heifers that are generally sold as

18 ¹⁰ USDA, NASS, "Milk Production Reports," January 2001, January 2015.

19
20 ¹¹ National Cattlemen's Beef Association, "Executive Summary of the 2007 National Market
21 Cow and Bull Beef Quality Audit: Dairy Cattle Edition," December 2007, accessed March 11,
2015 (<http://www.bqa.org/CMDocs/bqa/2007AuditDairy.pdf>).

22 ¹² *Id.*; USDA, NASS, "Livestock Slaughter," 2001-2015.

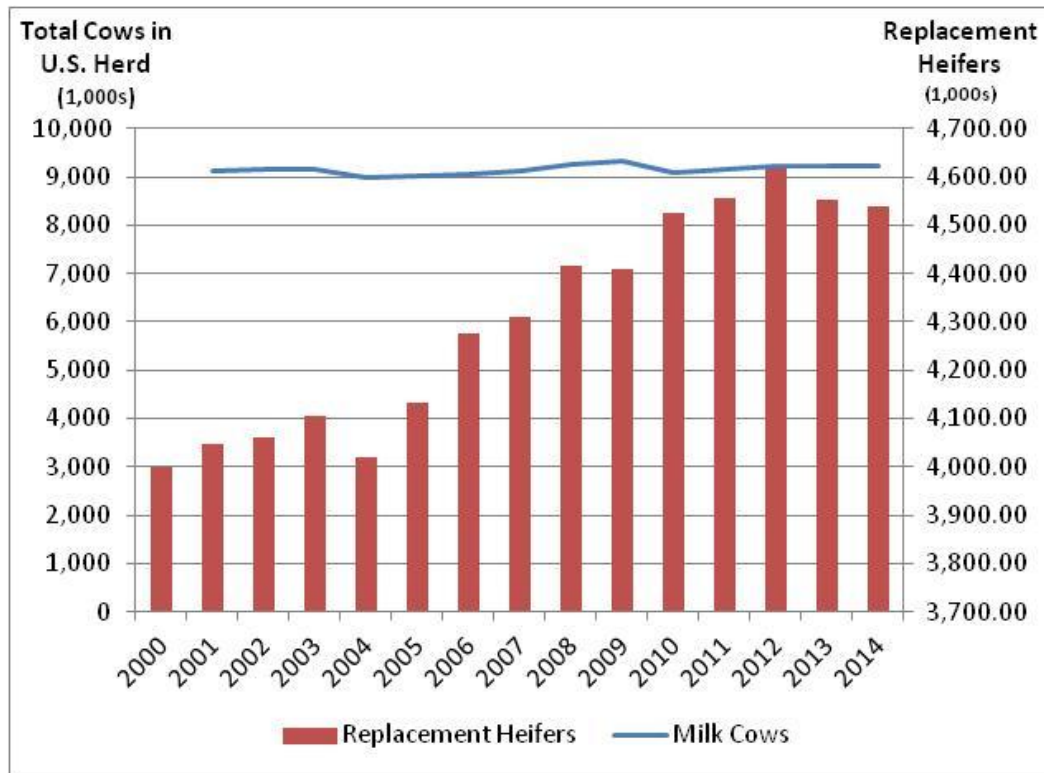
23 ¹³ Normand R. St. Pierre, "Culling Rate on Dairy Farms and Its Effect on Income over Feed Costs
24 and Forage Inventory Requirements," Tri State Dairy Nutrition Conference, April 23-24, 2013.

25 ¹⁴ USDA, AMS, "Actual Slaughter Under Federal Inspection" Weekly Reports January –
26 December 2003.

27 ¹⁵ Cattlemen's Beef Board, "Your Beef Checkoff Investment – Helping You Maximize Dairy
28 Cow Market Value," accessed March 11, 2015
(<https://www.beefboard.org/producer/CBBFinalDairyBrochure.pdf>).

1 days old calves to be raised for meat. From 2000 to 2014, the number of replacement heifers
 2 raised increased by 539,500 head while the number of cows increased just by 18,600 head
 3 (Exhibit 1). As a result, the number of replacement heifers per 100 milk cows increased from
 4 44.8 in 2003 to 49.8 in 2011, making the level of replacements per 100 milk cows considerably
 5 higher than the normal culling percentage throughout the relevant period.¹⁶ This has resulted in
 6 an increase in the percentage of the herd culled each year as older, less productive cows are
 7 culled and back-filled with replacement heifers that have greater production potential.¹⁷

9 **Exhibit 1: Milk Cow Population and Replacement Heifer Availability 2000-2014**



22 Source: USDA, NASS, "Cattle Inventory Reports," January 2001-2014.

24 ¹⁶ USDA, NASS, "Cattle Inventory Reports," 2001-2015; USDA, NASS, "Milk Production
 25 Reports," February 2000-January 2001, February 2012-January 2013.;USDA, NASS, "Livestock
 26 Slaughter," February 2000-January 2001, February 2012-January 2013.

27 ¹⁷ This opinion is supported by slaughter count values relative to herd size which increased from
 28 29% in 2000 to 34% in 2012. USDA, NASS, "Milk Production Reports," February 2000-January
 2001, February 2012-January 2013.;USDA, NASS, "Livestock Slaughter," February 2000-
 January 2001, February 2012-January 2013.

1 19. On a regular basis farmers make culling decisions on marginal cows to
2 decide which cows to retain, for how long, and whether replacement heifers offer a better
3 financial return. These decisions are driven by the cow's biological cycle and production, and
4 also by the opportunity costs the farmer faces. The farmer must trade off the margin that he is
5 currently earning on each pound of milk produced against the value of selling the cow for beef
6 and replacing it with a heifer that may have superior genetic potential for producing milk. Milk
7 margins at the farm are driven by many things, but the primary drivers are the price of milk and
8 the costs of feed. When milk prices are high and feed prices are low, margins are high and
9 cows which are on the profitability borderline may be retained for longer periods of time. The
10 opposite is true when margins are low, more cows at the margin of profitability will be sold into
11 the beef market. Farmers may also choose to grow or decrease their overall herd size depending
12 on the margins that they are earning or expect to earn by varying how many heifer replacements
13 are retained in the herd.

14 20. Specific culling decisions are made for numerous reasons. While the average
15 cow is kept for 3 lactation cycles, there is tremendous variation in when the decision to cull a
16 particular cow is made. Some cows are culled because they have low production, other health
17 problems, behavioral problems, or have difficulty being bred again.¹⁸ Milk production
18 generally peaks during a cow's second or third lactation cycle. After production has peaked, the
19 value of the cow as beef and the value of its "space" in the herd for the production of milk from
20 a new heifer often exceeds its continued value as a milking cow.

21 21. In order to help farmers make decisions on when to keep cows in the milking
22 herd or to cull them, they often enlist the help of consultants who evaluate the cow's potential
23 using a financial model that incorporates feed costs, milk prices, and beef prices.¹⁹ This helps a
24 farmer to make more informed decisions about managing their herd. Even those farmers who
25

26 ¹⁸ Abby Bauer, "Low Production Tops the Culling List," Hoard's Dairyman, March 2, 2015.

27 ¹⁹ Greg Bethard and Albert L. Nunes, "What Do Your Fresh Heifers Cost You?," Hoard's
28 Dairyman, accessed March 11, 2015 (http://www.hoards.com/E_calf_heifer/HF09).

1 do not use sophisticated models and financial consultants still consider the same factors when
2 making decisions about what cows to keep and which to sell into the beef market.²⁰

3 22. The income from a slaughter cow for beef helps to fund the cost of raising
4 replacement heifers or purchasing them on the market.²¹ Some dairymen almost exclusively
5 sell their calves to other farmers who raise replacements for sale to other dairy farms, or sell
6 calves for beef and rely on the replacement heifer market to maintain their dairy herd. For these
7 farmers the value of the slaughter cow price will factor heavily into the decision on whether to
8 and when to send a milking cow to slaughter because they are dependent on the slaughter
9 auction revenues to purchase a replacement.

10 23. Another factor that influences overall culling percentages is the declining
11 number of dairy farms. This declining number of operations has coincided with an increase in
12 the average size of remaining dairy operations. As farms have grown larger their efficiencies
13 have grown with scale. New larger dairy farms come with a large financial cost and many older
14 farmers have decided to exit the industry rather than invest in a new facility to replace their
15 older, smaller operations. This may be because they have health issues, succession issues, or
16 they are tired of the demanding life that dairy farming imposes on them. I have seen this first
17 hand in my work with farmers at the University of Wisconsin's Cooperative Extension. Many
18 Wisconsin farmers who I have worked with exited the dairy industry and retired, while others
19 went into other agricultural pursuits such as crop farming, or raising beef cattle and other
20 livestock. They told me that they were exiting the dairy business for many of the reasons listed
21 above.

22 23 **IV. THE DAIRY INDUSTRY HAS A COMPLEX STRUCTURE**

24 24. The dairy industry is a multi-layered system of dairy farmers, dairy cooperatives,
25 and dairy plants, all governed by a complex regulatory scheme.

26 _____
27 ²⁰ For example, see the website of the Center for Dairy Profitability, UW-Madison, accessed
28 March 11, 2015 (<https://cdp.wisc.edu>).

²¹ Bethard, "What Do Your Fresh Heifers Cost You?," *supra*.

1 25. The complexities begin with perishable nature of the product. Dairy farmers
2 milk their cows two, if not three, times a day. This milk must be sold from the farm within 48
3 to 72 hours or it will spoil. In order to alleviate the burden of finding a buyer for all of their
4 milk, the majority of dairy farmers become members of a cooperative. About 85 percent of
5 farmers in the United States market their milk through 132 dairy cooperatives.²² Milk demand
6 fluctuates both seasonally and with the day of the week, but cows produce milk every day.
7 Being a cooperative member ensures the farmer that the cooperative will buy all of his milk,
8 regardless of the time of year or day of the week.

9 26. Dairy cooperatives then negotiate with and supply dairy plants with raw milk to
10 process into fluid milk and dairy products like cheese, butter, non-fat dry milk, ice cream, and
11 yogurt. The minimum price the milk plants must pay for raw milk is regulated by a Federal
12 Milk Marketing Order (FMMO) or a state order.²³ The purpose of the minimum price
13 regulations is to ensure a supply of fresh milk for beverage purposes and to promote price
14 stability and market order, which have long been recognized as benefits to the entire industry
15 (producers and processors alike) as well as the consuming public.²⁴

16 27. One of the ways that FMMO regulations accomplish their purpose is by setting a
17 minimum price for raw milk according to the classification of the product for which it is being
18

19 ²² K. Charles Ling, USDA, Rural Development, “Marketing Operations of Dairy Cooperatives,
20 2012,” Research Report No. 230, May, 2014.

21 ²³ Throughout this report I will use the Federal Milk Marketing Orders and the classifications
22 they use (Classes I-IV) for illustration of many points of milk pricing. There are analogous state
23 level regulatory systems for the class states at issue that are not covered by a Federal Milk
24 Marketing Order. To the extent that there are relevant differences between the state regulations
25 and federal regulations I will note them.

26 ²⁴ Congress cited three major objectives of the Federal Milk Marketing Orders:

- 27 1. To assure consumers of an adequate supply of wholesome milk for beverage purposes,
28 at a reasonable price
2. To promote greater producer price stability and orderly marketing
3. To provide adequate producer prices to assure an adequate current and future Grade A
milk supply.

Agricultural Marketing Agreement Act of 1937, (P.L. 75-137).

1 produced. There are four classes of products under the FMMO system: Class I for beverage
2 milk, Class II for soft manufactured products like cream products, cottage cheese, yogurt and
3 ice cream, Class III for cheese, and Class IV for butter and non-fat dry milk powder. The prices
4 of raw milk to manufacture Class I and Class II perishable products are set higher than the
5 prices for Classes III and IV products that are storable for longer periods of time without
6 spoiling. By paying a higher price for raw milk that goes into perishable products the system
7 provides an incentive to supply the beverage milk and soft manufactured product markets first.
8 The logical extension of this preference for supplying to Class I and Class II markets is that
9 when the supply of milk exceeds actual and reasonably foreseeable demand, it is sold to plants
10 producing Class III and Class IV products. At the same time, Class I and Class II plants do not
11 take the excess milk supply because the products that they produce do not have long shelf lives
12 and cannot be stored to satisfy future demand.

13 28. These regulations help to smooth out the volatility of milk prices. As recognized
14 by the government's policy objectives, a stable milk price helps to maintain an adequate supply
15 of available milk.²⁵ Stable prices also allow farmers to plan and keep the boom and bust cycle
16 from bankrupting family farmers during the sustained periods of low profitability that
17 accompany price troughs. Because milk is deemed a household staple, policy also favors a
18 stable price that ensures a full supply of wholesome milk for beverage purposes. This has the
19 added benefit of reducing the negative impact of high prices that a shortage would bring about.

20 29. As a result of these volatility reducing policies, there has always been excess
21 milk available for use in Class III and Class IV products over at least the last 20 years.²⁶ One
22 reason that the supply is in excess of Class I and II needs is that cows produce milk at different
23 rates throughout the year, with more milk being produced in the spring than in the fall due to
24 calving schedules, forage food availability, weather conditions, and other biological

25
26 ²⁵ *Id.*

27 ²⁶ Don P. Blayney, "Milk Utilization Patterns in the U.S.," USDA Economic Research Service,
28 April 13 – 15 , 2010, accessed March 10, 2015
(https://www.fsa.usda.gov/Internet/FSA_File/1_3_utiliz_blayney.pdf)

1 responses.²⁷ Further, consumer demand for fresh milk and dairy products also varies
2 throughout the year and tends to be greatest in the fall when schools resume and more seasonal
3 food items incorporate dairy ingredients. In order to satisfy the fall demand for beverage and
4 other perishable milk products, farmers wind up producing much more milk than is needed in
5 the spring when their cows' production are at their highest. This situation also plays out on a
6 smaller scale each week. A cow produces milk throughout the week, but the demand for
7 beverage milk and other fresh dairy products varies throughout the week with certain days
8 being more popular days for grocery shopping than others. In order to balance the demand
9 throughout the week to provide enough milk for heavy shopping days, farmers wind up
10 producing "too much" milk on days where demand is lower. The excess milk during both the
11 high production/low demand season (spring) and the low demand days must be used or else it
12 will spoil. This excess milk is the milk that is sent to plants making Class III and Class IV
13 products at lower prices than are paid for Class I or Class II products. These plants help keep
14 the milk supply in balance by absorbing excess milk. In times of shortage relative to demand,
15 the amount of milk available to these plants decreases. This balancing function is well-
16 recognized by all participants in the industry and by the government.

17 30. The reduction in the supply of U.S. milk production, if any, brought about by
18 CWT's Herd Retirement Program was relatively small.²⁸ Any small reduction in milk supply in
19 no way reduced or impacted the supply of milk for either Class I or Class II uses. For the
20 existing 10 FMMOs, during the period CWT was operating, Class I used at most 44 percent and
21

22 ²⁷ Pine Creek Nutrition Service, Inc., "Promise milk in the spring and components in the fall,"
23 Pine Creek Report, February 2014, accessed March 10, 2015 (
24 http://www.pinecreeknutrition.com/themes/pinecreek/assets/docs/PineCreekReport_Feb2014.pdf
25); Robin Schmal, "Spring Flush Should Not Be Burdensome for Dairy Market," AgWeb:
26 AgDairy Market Update, April 18, 2011, accessed March 10, 2015
(http://www.agweb.com/blog/AgDairy_Market_Update__236/spring_flush_should_not_be_burdensome_for_dairy_market/)

27 ²⁸ The production from the cows that were subject to the CWT program accounted for between
28 0.4 percent of the prior year's milk production in 2003 to a high of 2.1 percent in 2009 and
averaged 0.8 percent during CWT's operation. USDA, NASS, "Milk Production Reports," 2003-
2011; NMPF0017724.

1 Class II used 14 percent of total milk available (Exhibit 2). On the average sixty billion pounds
 2 of additional milk was sold at Class III and Class IV prices that were lower than Class I or II
 3 prices. Cooperatives would have gladly sold that excess milk to the Class I or II markets at
 4 higher prices had there been sufficient demand, but demand for Class I and II milk products had
 5 been fully met. Any non-catastrophic reduction in milk supply would and could only reduce the
 6 supply of milk available to manufacturing milk plants for Class III and Class IV.

7
 8 **Exhibit 2 : Class I and II Utilization in Federal Milk Marketing Orders: 2003 –**
 9 **2011**

10 (Percent Class I)

Federal order	2003	2004	2005	2006	2007	2008	2009	2010	2011
Northeast	45	47	45	46	46	43	44	43	41
Appalachian	70	70	65	66	70	70	70	68	69
Southeast	65	65	62	59	63	68	66	67	65
Florida	85	85	82	84	81	83	86	87	84
Mideast	42	41	36	38	40	42	41	40	40
Upper Midwest	24	26	20	17	17	16	14	13	13
Central	33	38	31	31	39	37	33	33	32
Southwest	44	47	43	36	41	43	40	39	28
Arizona-Vegas	32	33	33	38	37	34	35	33	39
Pacific Northwest	33	33	30	30	32	33	30	28	28
All orders combined	41	44	39	38	40	39	37	35	35

16
 17 (Percent Class II)

Federal order	2003	2004	2005	2006	2007	2008	2009	2010	2011
Northeast	19	20	20	20	21	20	20	21	24
Appalachian	14	15	16	16	17	17	16	16	15
Southeast	10	12	11	12	12	11	10	9	9
Florida	8	9	8	8	9	8	8	8	9
Mideast	16	17	16	17	18	19	16	16	15
Upper Midwest	6	8	7	6	5	5	2	2	3
Central	10	13	12	13	17	14	12	12	12
Southwest	14	15	3	13	12	12	6	6	8
Arizona-Vegas	7	8	11	9	9	6	8	8	8
Pacific Northwest	8	8	7	6	7	7	7	7	6
All orders combined	12	14	13	13	13	13	11	11	11

23 Source: USDA, Agricultural Marketing Service, "Federal Milk Marketing Order Statistics," 2003-2011.

24
 25 31. There are other provisions of FMMO regulations that assure Class I and Class II
 26 processors have first claim on the milk supply. These include a mandate that Class I needs must
 27
 28

1 be met and regulated plants may be required by the Federal Market Administrator to divert milk
2 from other uses into Class I processing if a shortage is experienced.²⁹

3 32. For the reasons discussed above, there was no restriction or shortage of supply to
4 Class I or Class II milk processors during the period and no such restriction or shortage of
5 supply would have been expected to occur as a result of the CWT Herd Retirement Program.

6 33. When availability of milk for Class III and Class IV plants decreases and
7 wholesale market prices for the products that they produce increase as a result of decreasing
8 availability, the regulated pricing formulas for the minimum prices of milk are adjusted. A
9 formula is used to set the minimum prices for each class of milk, which takes into account
10 market prices for cheddar cheese, butter, dry whey and non-fat dry milk powder. The formula
11 ensures that the minimum price for Class I is almost always higher than the minimum prices for
12 Class III and Class IV. The formula also ensures that Class II milk price is higher than the
13 advanced Class IV price but lower than the Class I price. This results in a feedback loop where
14 higher prices in Class III and Class IV one month will directly result in an increase in the
15 government's formula based minimum prices of milk for Class I and Class II during the next
16 month. As a result, the typical order of minimum prices from highest to lowest is Class I, Class
17 II, Class III, followed by Class IV.³⁰

18 34. For some milk, cooperatives receive a price that is above the FMMO minimum
19 price for that class of milk, sometimes known as over-order prices (OOPs). These OOPs reflect
20 the value that cooperatives deliver to the market for marketing and balancing the milk supply.

21
22 ²⁹ Deposition of Thomas D. Wegner, January 22, 2015 at 278:18-279:5.

23 ³⁰ The prices for Class III and Class IV move independently, and it is possible for Class IV prices
24 to exceed those of Class III prices at any given time. As a result the Class I price formula uses the
25 "higher of" advanced Class III and IV prices to determine its minimum price. Further, it is
26 possible for short-term changes in the price of cheese to cause an inversion where the actual Class
27 III price is higher than Class I advanced price for a month until the lagged formula price is
28 adjusted. This inversion is referred to as having a negative producer price differential (PPD)
because the usual flows of payments from the market wide revenue pool are reversed. In the
event of a negative PPD, cheese producers pay money into a settlement pool and fluid bottlers
receive the differential payment back from the pool, called a pool draw.

1 Although in the past processors acquired a larger fraction of their milk directly from individual
2 farmers they increasingly rely on cooperatives to supply them during the class period. As
3 processors shifted away from individual farm contracts, they were able to shift the costs of
4 balancing their supply of milk across seasons and days on to the cooperative. Additionally,
5 many cooperatives handle accounting, testing milk for milk components and quality, and
6 coordinating the logistics of hauling milk from farm to plant. The OOPs paid by processors
7 cover some of the costs of providing these services.

8 35. Before 1956, OOPs were rare.³¹ The occurrence of OOPs grew steadily through
9 1975 when 96 percent of Federal Orders had OOPs. Today all 10 existing FMMOs have OOPs.
10 This increase in OOPs can be attributed to the increasing role cooperatives play in providing
11 services to processors and to their dairy farmer members. They have assumed additional
12 functions in procuring, assembling, organizing, marketing and disposing of milk supplies that
13 were previously performed by processors. Dairy cooperatives also run their own processing
14 operations for Class III and IV products in order to balance their milk supplies and provide an
15 outlet for excess milk in the rest of the market. Cooperatives have had to cover the cost of these
16 services by charging processors prices over the regulated minimum Class I milk price.

17 36. Class I processors have been willing to pay dairy cooperatives to perform these
18 services because it relieves them from having to provide those services themselves. Dairy
19 cooperatives provide processors with a more efficient means of adjusting supply to demand by
20 doing it on a broad basis. Without dairy cooperatives assuming the balancing function, Class I
21 processors would bear the cost of procuring raw milk when supplies are short, and disposing of
22 excess raw milk when supplies exceed their demand. Processors also have savings from the
23 accounting and hauling functions provided by cooperatives because they can be done more
24 efficiently with a large number of participating producers. Increasingly, Class I processors have
25 entered into full supply relationships with cooperatives to provide all of the milk they require,
26
27

28

³¹ Silvio Capponi, "Over-Order Payments in Federal Milk Order Markets," USDA, AMS (1982).

1 but no more than they actually need.³² This relationship benefits both parties and is a reason
 2 why OOPs relate to the supply and demand for dairy cooperatives' *services*, not the supply and
 3 demand of the underlying product, milk.

4 **V. THERE IS A LONG HISTORY OF MANAGING MILK SUPPLIES THROUGH**
 5 **REGULATED PRICES AND PROGRAMS**

6 37. The federal and state governments have long recognized the importance of
 7 managing the milk supply for the public good. Early experiences in history demonstrated that
 8 without a framework of incentives and requirements, the dairy industry was prone to wide
 9 swings in the availability and price of milk for consumption. These wide swings had a negative
 10 effect on consumers of dairy products, as well as the producers, processors, and retailers of
 11 them. Many programs were enacted to help curb these wild swings while still allowing the
 12 market to self-regulate supplies so that prices remained fair. These programs included the
 13 FMMO system, support prices at which the government bought dairy products, and programs
 14 that directly managed supply at the farm level.

15
 16 **A. Federal Milk Marketing Orders and Parallel State Marketing Orders**
 17 **Mandate a Full Supply of Milk for Fluid Uses through Classified**
 18 **Pricing Systems and Other Regulations**

19 38. Since the passage of the Agricultural Marketing Agreement Act of 1937 the
 20 federal government has had a role in setting the minimum prices for milk in large portions of
 21 the country.³³ The purpose of FMMOs is to assure consumers of an adequate supply of milk for

22 ³² The same benefits of the services provided to Class I processors are applicable to Class II
 23 processors. Similar full supply contracts are entered into with Class II processors on a regular
 24 basis for this reason, although the value of services provided to Class II processors is generally
 25 less because their demand is more consistent on a weekly basis than the demand for Class I.

26 ³³ In California, the state milk marketing order traces its roots back before the creation of the
 27 FMMO system to the Young Act of 1935. This system has evolved to look very similar to the
 28 federal system, with minor differences that are not relevant to this discussion. *See* Daniel A.
 Sumner and Norbert L. W. Wilson, "The Evolution of Dairy Price Policy in California: Our
 Unique System for Distributing Milk Revenue," *Agricultural and Resource Economics Update*
 3(3)(2000):3-6.

1 beverage use (Class I) and to provide reasonable prices to farmers to ensure that continued
2 supply.³⁴ This system remains at the center of dairy policy today. By regulating prices and
3 thereby supplies, the FMMO system smoothes the prices paid by consumers and reduces overall
4 volatility of milk prices.³⁵ The existence of the FMMOs for over 75 years has made the dairy
5 industry very aware of the workings of the regulatory framework. Both private producer
6 decisions regarding supplies and other government programs to assist in supply management
7 depend extensively on the classified pricing system to carry out their effects.

8
9 **B. Milk Price Support Programs and Milk Supply Programs Like Herd
10 Retirement Programs Similar to The Self-Help CWT Program Have
11 Been an Integral Part of Government Milk Supply Management
12 Programs for Years**

12 39. Historically, the federal government has directly supported milk prices through
13 both the purchase of milk-based commodities and through reductions in the supply of milk at
14 the farm level. From 1950 until 2014, the federal Dairy Price Support Program involved the
15 government purchase of butter, non-fat dry milk powder, and cheddar cheese in order to
16 maintain prices at a specified level.³⁶ After the government purchased large quantities of
17 commodities in the 1970s and 1980s, the level of support was gradually reduced. After the
18 mid-1990s, the government support prices for dairy commodities fell below dairy farmers' full
19 cost of production and resulted in far fewer government purchases of dairy commodities.³⁷
20 Although the role of the program diminished from its peak it remained active until 2014.³⁸ In

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22 ³⁴ See footnote 23, above.

23 ³⁵ Agricultural Marketing Agreement Act of 1937, (P.L. 75-137).

24 ³⁶ James J. Miller and Sara D. Short, "The Dairy Industry Since 1970," USDA, Economic
25 Research Service (1988).

26 ³⁷ Ed Jesse and Bob Cropp, "Basic Milk Pricing Concepts for Dairy Farmers, University of
27 Wisconsin Cooperative Extension, University of Wisconsin-Madison, A3379, 2008.

28 ³⁸ Randy Schnepf, "Dairy Provisions in the 2014 Farm Bill (P.L. 113-79)," Congressional
Research Service, September 15, 2014.

1 2008 and 2009 when prices for dairy commodities were severely depressed due to a sharp
2 decline in exports among other factors, the federal government stepped in to support prices by
3 purchasing dairy products equivalent to 2.8 billion pounds of milk.³⁹

4 40. In programs that were similar to CWT's Herd Retirement Program but more far-
5 reaching, the federal government engaged in the Dairy Diversion Program and the Dairy
6 Termination programs in the 1980s.

7 41. The Dairy Diversion Program paid dairy farmers who agreed to reduce the
8 volume of milk that they marketed.⁴⁰ Reduced milk production in the short 18 month life of the
9 program totaled 7.5 billion pounds or 5.5 percent of the 1983 U.S. milk production.

10 42. The impact of the Dairy Diversion Program on milk production and the milk
11 surplus, however, was temporary. Total milk production did decline by 3.04 percent in 1984,
12 but increased 5.66 percent in 1985.⁴¹ Once the program ended most participating dairy farmers
13 increased their milk production as did non-participating dairy farmers.⁴² To create a more
14 permanent impact on the supply of milk, the Food Security Act of 1985 authorized the Dairy
15 Termination Program.⁴³ Dairy farmers submitted bids to sell all of their cows, heifers and
16 female calves (the whole herd) for slaughter.⁴⁴ Dairy farmers also agreed to stay out of dairying
17 for five years and not to use or allow the use of the dairy facilities for milk production for the
18

19 ³⁹ USDA, "Fact Sheet: Historical Data Dairy Product Price Support Program
20 Updated Through FY2010", accessed March 11, 2015
(http://www.fsa.usda.gov/Internet/FSA_File/dppsp_fact_sht_hist_data.pdf).

21 ⁴⁰ James J. Miller and Clifford M. Carman, "Participation in the Milk Diversion Program," 1986.

22 ⁴¹ USDA, National Agricultural Statistics Service, "Milk Production Reports," January 1985 and
23 1986.

24 ⁴² Carl E. Zurborg, A History of Dairy Marketing on America, National Dairy Shrine, 2005, p
25 196.

26 ⁴³ USDA, Economic Research Service, "The Food Security Act of 1985," Agriculture Information
27 Bulletin No. 497, pp 8-9, 1986.

28 ⁴⁴ USDA news release and "Implications of Whole Herd Buyout on Milk Supply-Demand and
Short Run and Long Run Farm Milk Prices," Robert Cropp, 1987.

1 same time period. A total of 39,534 dairy farmers submitted bids. USDA accepted 13,988 bids.
 2 A total of 951,619 cows, 346,789 heifers, and 257,995 female calves were slaughtered under the
 3 program. About 12.28 billion pounds of milk which was equivalent to about 8.7 percent of the
 4 1985 milk production was removed during the 16 months that the program operated. Total milk
 5 production in 1987 was 0.29 percent lower than 1986 levels, but it increased again in 1988 by
 6 1.63 percent.⁴⁵

7 43. The Dairy Termination Program operated somewhat similarly to CWT's self-
 8 help Herd Retirement Program in that dairy farmers submitted bids to exit from dairy farming
 9 and to market all of their dairy cows for beef. The number of dairy farmers who decided to exit
 10 dairy farming under the Dairy Termination Program, the number of farms eliminated and the
 11 pounds of milk removed during this rather short period of time (April 1, 1986 – August 31,
 12 1987) far exceeded the number of dairy farmers exiting the industry and the number of pounds
 13 of milk removed during the longer period from 2003 through 2010 in which the Herd
 14 Retirement Program operated. Although the Herd Retirement Program operated as a self-
 15 funded program within the dairy industry, similar government-funded termination programs to
 16 the 1986 Dairy Termination Program have been a topic of discussion and proposals during each
 17 of the last three farm bill policy discussions.

18
 19 **VI. CWT'S HERD RETIREMENT PROGRAM PROVIDED NUMEROUS
 20 BENEFITS TO THE DAIRY INDUSTRY AND ITS CUSTOMERS**

21 **A. Reductions in the Volatility of Total Milk Prices Benefits Consumers
 22 and Farmers**

23 44. Milk production can be highly cyclical, resulting in wide swings in both supply
 24 and ultimately the regulated price. Volatile and uncertain milk prices leads to inefficiencies in
 25 the production and marketing of milk, making investment and planning decisions over a long
 26 term difficult. When milk prices are low dairy farmers, cooperatives, and milk processors are
 27 exposed to financial stress which leads to production inefficiencies including delays in
 28 construction of new facilities due to uncertain return and over or under investment in dairy

⁴⁵ USDA, NASS "Milk Production Reports," January 1987, 1988 and 1989 Reports

1 herds. Programs that help to reduce price volatility help to stabilize prices, encouraging healthy
 2 and appropriate levels of investment and producing a more efficient and cost effective dairy
 3 industry. To the extent that CWT's Herd Retirement Program accomplished its goal of
 4 strengthening and stabilizing regulated milk prices, it would benefit the entire dairy industry
 5 and the consuming public.

6
 7 **B. Removing Inefficient Herds Made Way for More Efficient Milk Production**

8 45. The number of dairy herds has been declining for years. In 1950 there were
 9 3,648,000 dairy herds with an average of 6 milk cows. The number declined to 2,949,000 herds
 10 in 1970 with average of 18.7 cows. By 1990 herds totaled 193,000 with an average of 51.9
 11 cows.⁴⁶ And by 2003 when the Herd Retirement Program began the number of herds had
 12 already declined to 86,360 with an average of 105 cows (Exhibit 3).

13
 14 **Exhibit 3: Structure of U.S. Dairy Herds**

Number of milk cows	<u>2003</u>		<u>2007</u>		<u>2012</u>	
	Number herds	% of	Number herds	% of	Number herds	% of
1 to 29	25,045	29.0%	21,705	31.0%	19,400	32.3%
30 to 49	16,805	19.5%	12,270	17.5%	10,100	16.8%
50 to 99	25,800	29.9%	19,330	27.6%	14,800	24.7%
100 to 199	10,980	12.7%	9,011	12.9%	8,300	13.8%
200 to 499	4,765	5.5%	4,359	6.2%	4,000	6.7%
500 to 999	1,700	2.0%	1,720	2.5%	1,650	2.8%
1,000 to 1,999	815	0.9%	920	1.3%	950	1.6%
2,000 plus	450	0.5%	680	1.0%	800	1.3%

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 20 Source: USDA, NASS "Milk Production Reports.", February 2004, 2008, and 2013; and
 21 <http://future.aae.wisc.edu>

22 46. CWT herds accounted for a relatively small percentage of the licensed dairy
 23 herds lost during the period of 2003 to 2010 (Exhibit 4).⁴⁷ A number of the CWT herds most
 24

25
 26
 27 ⁴⁶ USDA, NASS, "Milk Production Reports."

28 ⁴⁷ CWT accounted for a larger percentage of herds lost during 2009 comprising 36% of herds lost, but its overall impact on the rate of herd reductions was still small in aggregate.

1 likely were planning on selling their herds anyway.⁴⁸ A 2007 survey conducted by CWT of
2 Herd Retirement Program participants cited lack of a successor and health problems as major
3 reasons why farmers chose to sell their herd through CWT.⁴⁹ Over three-fourths of program
4 participants surveyed were over the age of 50.⁵⁰ These problems would have existed without
5 CWT and would likely have caused many of those farmers to exit the dairying business
6 regardless of whether they were paid by CWT or not.⁵¹

18 ⁴⁸ Declaration of Gregory I. Wickham, *Blakeman v. Nat'l Milk Producers Fed'n*, Case No.
19 3:12-cv-01246 (S.D. Ill.), ECF No. 75-2.

20 ⁴⁹ NMPF0003677.

21 ⁵⁰ *Id.*

22 ⁵¹ On the other hand, a portion of farmers who sold their herds for beef with a CWT subsidy
23 planned to reenter dairy farming. The 2007 survey results of Herd Retirement Program
24 participants also showed that 8% of farmers were planning to start milking again with a new herd.
25 CWT news release August 8, 2007. These farmers were free to do so and many did reenter dairy
26 farming. Declaration of Gregory I. Wickham. In fact, even after CWT implemented a modest
27 incentive for dairy farmers to leave the industry for a minimum of one year, some participants
28 chose to forfeit the 10% of their bid held back in order to reenter the business earlier.
NMPF0008701- NMPF0008703; NMPF0008698; NMPF0008699. Regardless of whether CWT
Herd Retirement Program participants exited dairy farming permanently or not, all of the more
than 50,000 non-participating farmers remained free to expand both the size of their herds and
their milk production, and in fact they did so.

Exhibit 4: Licensed Dairy Herds 2002-2014

Year	Number of Herds	Change in Licensed Herds	Percent Change in Herds	CWT Participating Herds	CWT Participating Herds as a % of Change in Herds
2002	74,110				
2003	70,375	-3,735	(5.3%)	299	8.0%
2004	66,825	-3,550	(5.3%)	363	10.2%
2005	64,540	-2,285	(3.5%)	442	19.3%
2006	62,070	-2,470	(4.0%)	0	0.0%
2007	59,130	-2,940	(5.0%)	333	11.3%
2008	57,127	-2,003	(3.5%)	387	19.3%
2009	54,932	-2,195	(4.0%)	791	36.0%
2010	53,132	-1,800	(3.4%)	187	10.4%
2011	51,291	-1,841	(3.6%)		
2012	49,281	-2,010	(4.1%)		
2013	46,975	-2,306	(4.9%)		
2014	45,344	-1,631	(3.6%)		

Source: USDA, NASS, "Milk Production Reports, February 2002 through 2014 .

47. While not all CWT herds were small, the majority had smaller herds.⁵² Also, on average herds retired through the CWT Herd Retirement Program produced less than the national average of milk per cow (Exhibit 5). Most larger herds have sufficient labor to milk cows three times per day rather than two times per day, use better feed management and herd health technology which typically increases milk per cow. Because the CWT exiting herds and the associated milk production was more than replaced by remaining herds with higher milk production per cow and overall higher milk production efficiencies, total U.S. milk production was increased.

⁵² For example, the median size of CWT Herd Retirement Program herds in the 2004 round was 56 cows. See NMPF0008704.

Exhibit 5: Herd Retirement Program Participant Herd Size and Production per Cow

Year	Average Size of Herds	Average Production Per Cow	National Average Production Per Cow
2003	109	18,610	18,759
2004	139	17,988	18,960
2005	145	18,323	19,550
2007	159	18,964	20,204
2008 (1)	122	17,572	20,397
2008 (2)	272	19,277	20,397
2009 (1)	275	19,398	20,561
2009 (2)	270	20,550	20,561
2009 (3)	169	19,929	20,561
2010	167	18,743	21,142

Source: NMPF0017724

C. Removing Excess Milk Production Reduced Costs and Increased Efficiencies

48. Based on numerous conversations with dairy industry participants, my opinion is that excess milk production imposes additional costs on the balancing system. CWT was implemented during periods of excess milk production that had depressed farm milk prices.⁵³ The excess milk production was stretching manufacturing milk plant capacity.⁵⁴ There were manufacturing milk plants operated by dairy cooperatives for balancing, and other manufacturing milk plants that had more milk than could be efficiently processed.⁵⁵ Dairy cooperatives had to reach out into the market to find other manufacturing plants able and willing to take on more milk.⁵⁶ The excess milk often had to be sold at reduced prices before a manufacturing plant operation would take on additional milk. Further, some manufacturing milk plants willing to accept excess milk were located at greater distance than the cooperative's own balancing plants adding to increased transport costs.⁵⁷ To the extent that CWT reduced

⁵³ See, e.g., LOL00000906; LOL00000579; LOL00006719; LOL00001702.

⁵⁴ Sybrand Vander Dussen, "My View on Milk Production Increases," Milk Producer's Council Newsletter, November 7, 2008.

⁵⁵ *Id.*

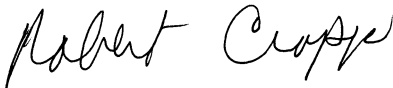
⁵⁶ *Id.*

⁵⁷ *Id.*

1 excess milk production, it also reduced the cost of marketing excess milk and improved the
2 operational efficiencies of cooperatives and manufacturing milk plants.

3
4 **VII. CONCLUSION**

5 49. For all of the reasons stated above, my opinions are 1) that beef marketing is an
6 integral part of dairy farming and the CWT Herd Retirement Program facilitated dairy farmers'
7 reallocation of productive assets from milk production to beef production by subsidizing the
8 marketing of cows for that purpose; 2) that if the CWT Herd Retirement Program had an impact
9 on the supplies of raw milk it did not impact the supply of milk available for Class I or Class II
10 products, but only affected the supply of milk available for Class III and Class IV products; and
11 3) that to the extent that the CWT Herd Retirement Program had any effect, it benefited
12 consumers and producers through enhanced stability of regulated milk prices, greater
13 efficiencies in production by removing inefficient cows, and reducing the costs of transporting
14 and balancing excess milk.

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18 _____
19 Robert Cropp

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Appendices

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Appendix 1

Websites, Documents and Material Relied Upon

I considered the following websites, documents and materials in forming the opinions in my report.

Websites:

[Http://future.aae.wisc.edu](http://future.aae.wisc.edu); this website captures all USDA released reports by USDA, Agricultural Marketing Service (AMS), USDA, National Agricultural Statistics Service (NASS), and USDA, Economic Research Service (ERS) as well as other marketing reports, dairy trade and related dairy information. I relied heavily on this website for data on milk production, milk prices, cow numbers, milk per cow, number of dairy herds, slaughter cow numbers, dairy replacements, structure of U.S. dairy herds, and dairy exports.

<http://www.ams.usda.gov>; for milk prices, federal milk marketing order statistics

<http://www.nass.usda.gov>; for milk production, cow numbers, number of dairy herds, slaughtered cow numbers and prices, number of fluid bottling plants

<http://www.ers.usda.gov>; for structure of U.S. dairy herds

<http://www.usdec.org>; for dairy exports

<http://www.rd.usda.gov>; for data on dairy cooperatives and their milk marketings

<https://cdp.wisc.edu>; for information on farmer considerations in herd management decisions.

Documents and materials:

David Cobia, Editor, *Cooperatives In Agriculture*, Prentice Hall, 1989.

Carl E. Zurborg, *A History of Dairy Marketing on America*, National Dairy Shrine, 2005, p 196.

“Self Help/Supply Management”, article in *A History of Dairy Marketing in America*, authored by Carl E. Zurborg, and published for the National Dairy Shrine, 2005.

E.M. Babb and D.A. Bessler, “Factors Affecting Over-Order Payments In Federal Milk Marketing Orders, 1865-80”, *Agricultural Experiment Station, Purdue University, West Lafayette, IN., Research Bulletin 977*.

E.M. Babb, D.A. Bessler and J.W. Pheasant, “Analysis of Over-Order Payments in Federal Milk Marketing Orders”, *Department of Agricultural Economics, Agricultural Experiment Station, Purdue University, West Lafayette, IN, Station Bulletin No. 235, August 1979*.

Abby Bauer, “Low Production Tops the Culling List,” *Hoard’s Dairyman*, March 2, 2015.

Greg Bethard and Albert L. Nunes, “What Do Your Fresh Heifers Cost You?,” *Hoard’s Dairyman*, accessed March 11, 2015 (http://www.hoards.com/E_calf_heifer/HF09).

Don P. Blayney, “Milk Utilization Patterns in the U.S.,” *USDA Economic Research Service*, April 13 – 15 , 2010, accessed March 10, 2015
(https://www.fsa.usda.gov/Internet/FSA_File/1_3_utiliz_blayney.pdf).

1 Silvio Capponi, "Milk Marketing Price Premiums Reflect Added Services, Costs", published in
2 Farmer Cooperatives, December 1982.

3 Silvio Capponi, "Over-Order Payments in Federal Milk Order Markets," USDA, AMS (1982).

4 National Cattlemen's Beef Association, "Executive Summary of the 2007 National Market Cow
5 and Bull Beef Quality Audit: Dairy Cattle Edition," December 2007, accessed March 11, 2015
(<http://www.bqa.org/CMDocs/bqa/2007AuditDairy.pdf>).

6 Cattlemen's Beef Board, "Your Beef Checkoff Investment – Helping You Maximize Dairy Cow
7 Market Value," accessed March 11, 2015
(<https://www.beefboard.org/producer/CBBFinalDairyBrochure.pdf>).

8 Ed Jesse and Bob Cropp, "Basic Milk Pricing Concepts for Dairy Farmers, University of
9 Wisconsin Cooperative Extension, University of Wisconsin-Madison, A3379, 2008.

10 Ed Jesse and Bob Cropp, "Dairy Subtitle: Food, Conservation, and Energy Act of 2008",
11 Marketing and Policy Briefing Paper, No. 94, Department of Agricultural and Applied
Economics, University of Wisconsin-Madison, June 2008.

12 Ed Jesse and Bob Cropp, "Dairy Title: Farm Security and Rural Investment Act of 2002",
13 Marketing and Policy Briefing Paper, No. 76, Department of Agricultural and Applied
Economics, University of Wisconsin-Madison, May 2002.

14 Edward V. Jesse and Robert A. Cropp, Milk Pricing and Pooling in California, University of
15 Wisconsin Extension, Cooperative Extension Service, University of Wisconsin, Madison, A3318.

16 USDA news release and "Implications of Whole Herd Buyout on Milk Supply-Demand and
17 Short Run and Long Run Farm Milk Prices," Robert Cropp, 1987.

18 "Top 50 Dairy Cooperatives", published annually in the October issue of Hoard's Dairyman, used
19 years 2003 through 2014.

20 Christopher H Knight, "Extended Lactation: Turning Theory into Reality," Advances in Dairy
21 Technology (2005) Volume 17.

22 K. Charles Ling, USDA, Rural Development, "Marketing Operations of Dairy Cooperatives,
23 2012," Research Report No. 230, May, 2014.

24 Howard McDowell, Ann M. Fleming and Richard F. Fallert, "Federal Milk Marketing Orders, An
25 Analysis of Alternative Policies", USDA, ERS, Agricultural Economic Report No. 598,
September 1988.

26 James J. Miller and Clifford M. Carman, "Participation in the Milk Diversion Program", USDA,
27 National Economics Division, Economic Research Service (1986).

- 1 James J. Miller and Sara D. Short, "The Dairy Industry Since 1970," USDA, Economic Research
2 Service (1988).
- 3 Rachel J. Patton, "Effects of the 2008-2009 Cooperatives Working Together Herd Retirements on
4 Milk Production and Cow Slaughter, and the Near-Term Effects of Sexed Semen Technology",
special article in "Livestock, Dairy, & Poultry Outlook", ERS, USDA, December 17, 2009.
- 5 Pine Creek Nutrition Service, Inc., "Promise milk in the spring and components in the fall," Pine
6 Creek Report, February 2014, accessed March 10, 2015 (
http://www.pinecreeknutrition.com/themes/pinecreek/assets/docs/PineCreekReport_Feb2014.pdf)
7 .
- 8 Robin Schmal, "Spring Flush Should Not Be Burdensome for Dairy Market," AgWeb: AgDairy
9 Market Update, April 18, 2011, accessed March 10, 2015
([http://www.agweb.com/blog/AgDairy_Market_Update__236/spring_flush_should_not_be_burde
10 nsome_for_dairy_market/](http://www.agweb.com/blog/AgDairy_Market_Update__236/spring_flush_should_not_be_burdensome_for_dairy_market/)).
- 11 Randy Schnepf, "Dairy Provisions in the 2014 Farm Bill (P.L. 113-79)," Congressional Research
12 Service, September 15, 2014.
- 13 Normand R. St. Pierre, "Culling Rate on Dairy Farms and Its Effect on Income over Feed Costs
14 and Forage Inventory Requirements," Tri State Dairy Nutrition Conference, April 23-24, 2013.
- 15 Daniel A. Sumner and Norbert L. W. Wilson, "The Evolution of Dairy Price Policy in California:
16 Our Unique System for Distributing Milk Revenue," Agricultural and Resource Economics
Update 3(3)(2000):3-6.
- 17 Sybrand Vander Dussen, "My View on Milk Production Increases," Milk Producer's Council
18 Newsletter, November 7, 2008.
- 19 Christopher Wolf, "Farm Decisions Related to rbST Use in Michigan", published in Michigan
Dairy Review, October 2007.
- 20 Press releases by USDA News Division, Office of Information on Dairy Termination Program.
21 USDA, Agricultural Marketing Service, "Dairy Market Statistics, annual summary", issues 2007
– 2013.
- 22 USDA, Agricultural Marketing Service, "Federal Milk Marketing Order Statistics, annual
23 summary", bulletins published 2002 – 2006.
- 24 USDA, Economic Research Service, "The Food Security Act of 1985," Agriculture Information
25 Bulletin No. 497, pp 8-9, 1986.
- 26 USDA, "Fact Sheet: Historical Data Dairy Product Price Support Program Updated Through
27 FY2010", accessed March 11, 2015
(http://www.fsa.usda.gov/Internet/FSA_File/dppsp_fact_sht_hist_data.pdf).
- 28

1 U.S. General Accounting Office, Report to the Congress, "Milk Marketing Orders, Options or
2 Change," March 1988.

3 Agricultural Marketing Agreement Act of 1937, (P.L. 75-137).

4 Declaration of Gregory I. Wickham, *Blakeman v. Nat'l Milk Producers Fed'n*, Case No. 3:12-cv-
5 01246 (S.D. Ill.), ECF No. 75-2

6 Deposition of Thomas D. Wegner, January 22, 2015 at 278:18-279:5

7 Plaintiffs' Third Amended Complaint

8 NMPF0000004

9 NMPF0003677

10 NMPF0008698

11 NMPF0008699

12 NMPF0008701

13 NMPF0008702

14 NMPF0008703

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Appendix 2

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January 2015

CURRICULUM VITAE
ROBERT A. CROPP

FORMAL EDUCATION

B.S.: Agricultural Education, University of Wisconsin-Platteville, 1963
M.S.: Agricultural Economics, University of Wisconsin-Madison, 1965
Thesis: Economic Analysis Concerning Commercial Marketing of Sterilized Concentrated Milk in the United States
Ph.D.: Agricultural Economics, University of Wisconsin-Madison, 1967
Thesis: An Economic Analysis of Marketing Potential for Sterilized Milk Concentrate in Institutional Markets

CURRENT POSITION

Professor Emeritus, Department of Agricultural and Applied Economics, University of Wisconsin-Madison.

POSITIONS HELD

7/01/06 – present Professor Emeritus, Department of Agricultural and Applied Economics, University of Wisconsin-Madison
11/04 – 6/30/06 Professor Emeritus and Interim Director of University of Wisconsin Center for Cooperatives.
6/1/90 – 1/01/03 Director of University of Wisconsin Center for Cooperatives and Dairy Marketing and Policy Specialist, University of Wisconsin-Madison. (60% UWCC and 40% Agricultural Economics)
7/1/87 - 5/31/90: Dean, College of Agriculture, University of Wisconsin-Platteville (43%) and Extension Specialist, UWEX Cooperative Extension Service (57%).
8/1/85 - 6/30/87: Executive Director of Wisconsin Dairy Task Force 1995 Study (40%) and Extension Specialist, UWEX Cooperative Extension Service (60%).
9/1/66 - 7/31/85: Professor of Agricultural Economics, Department of Agricultural Industries, University of Wisconsin-Platteville.

HONORS AND AWARDS

Guest of Honor Award presented by the National Dairy Shrine, September, 2013.

Award for Meritorious Service presented by the American Jersey Cattle Association and the National All-Jersey Inc., June 2013.

John S. Donald Excellence in Teaching Award presented by the College of Agricultural and Life Sciences Farm and Industry Short Course, University of Wisconsin, Madison, April 2010.

Distinguished Service Award presented by the College of Agricultural and Life Sciences, University of Wisconsin-Madison, October 2008

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Service to Agriculture Award, Awarded by University of Wisconsin Farm and Industry Short Course Alumni Board of Directors, January 2006.

1 Friend of Cooperative Award. Awarded by AgSoucre Cooperative Services, March 2004.

2 1st Annual Friend of D.H.I.C. Award, for support of the Eastern Wisconsin D.H.I.C.,
3 March 2002

4 Distinguished Extension Program, The American Agricultural Economics Association,
5 August 2000

6 Reginald J. Cressman ACE Award Recognizing Commitment To Staff Development,
7 Association of Cooperative Educators, May 1998.

8 Recognition and Sincere Appreciation for Outstanding Service as an Advisory Member of
9 the Land O'Lakes, Inc. Board of Directors, February 1997.

10 Friend of Growmark Award, for meritorious service to Midwest Agriculture and
11 Cooperatives, Growmark Inc., September 1995.

12 Meritorious Service Award, Farmers Union Milk Marketing Cooperative, in recognition
13 of contribution to the cause of family dairy farmers and Upper Midwest agriculture,
14 February 1991.

15 Distinguish Services to Wisconsin Dairy Industry, Wisconsin Milk Marketing Board,
16 February 1990.

17 Recognition and Appreciation for Dedication and Service as Professor, Dean and Advisor,
18 Agricultural Alumni Chapter, University of Wisconsin-Platteville, May, 1990

19 Distinguished Service Award, College of Agriculture, University of Wisconsin-Platteville,
20 1979, 1981 and 1989.

21 Outstanding Contributions to the College of Agriculture, University of Wisconsin-
22 Platteville, Alpha Gamma Rho, February 1988.

23 Man of the Year Award, Tri-State Breeders Cooperative, January 1988.

24 Award for Professional Excellence, Distinguished Extension Programs - Group Award,
25 American Agricultural Economics Association, August 1987.

26 University of Wisconsin Extension Award for Excellence, December 1986.

27 Recognition of Outstanding Leadership for Wisconsin 4-H, Wisconsin 4-H Alumni
28 Association, June 1986.

Distinguished Alumni Award, University of Wisconsin-Platteville, May 1986.

Highly Confidential

Distinguished Service to Wisconsin Agriculture, awarded by Wisconsin Farm Bureau, December 1985.

1 Cooperative Builder Award, awarded by Wisconsin Federation of Cooperatives, 1984.

2 Outstanding Agricultural Education Alumnus, College of Agriculture, UW-Platteville,
3 1983.

4 Bronze Eagle Award for Meritorious Service to Agriculture and Cooperatives, awarded by
5 St. Paul Bank for Cooperatives and the Production Credit Associations of Wisconsin,
6 1983.

7 Honorary State Farmer Degree, awarded by Wisconsin Future Farmers of America, 1982.

8 Second Mile Award for Outstanding Service to Wisconsin Agriculture awarded by
9 Wisconsin Association of County Agricultural Agents, 1982.

10 Distinguished Alumni Award, awarded by University of Wisconsin Extension-Walworth
11 County, 1981.

12 Distinguished Citation Award for Outstanding Contribution to Cooperative Education and
13 Training, awarded by American Institute of Cooperation, June 1971.

14 Outstanding Teaching Award, College of Agriculture, University of Wisconsin-
15 Platteville, 1968.

16 **PUBLICATIONS (Since 1993)**

17 **Journal Articles and Research Reports (All peer-reviewed)**

18 Zeuli, Kimberly; Lawless, Greg; Deller, Steve; Cropp, Robert and Hughes, Will (2003),
19 "Measuring the Economic Impact of Cooperatives: Results from Wisconsin, USDA Rural
20 Business-Cooperative Service, Report 196, August 2003.

21 Cropp, R.A. (1999), The Canadian Dairy Industry: Prospects for Future Trade:
22 Discussion, Canadian Journal of Agricultural Economics, 47, pp 57-58.

23 Kinser, E., and Cropp, R. (1998), A Description of Forward Contracting Programs
24 Available to Wisconsin Dairy Producers, Agricultural and Applied Economics Staff Paper
25 Series WP 420, Oct 1998.

26 Cropp, R.A., Trechter, D., Cottingham, J., and Berends, P. (1998 and 1999), Equity
27 Redemption Practices: A Study of Wisconsin Cooperatives, UWCC Occasional Paper No.
28 12, September 1998. This was published in The Cooperative Accountant, 99, National
Society of Accountants for Cooperatives, Vol LII, Number 2, summer 1999, pp 19-31.

Fortenbery, R.T., Cropp, R.A., and Zapata, H.O. (1997). Analysis of Expected Price
Dynamics Between Fluid Milk Futures Contracts and Cash Prices for Fluid Milk, □
Journal of Agribusiness, Vol. 15, No. 2, Fall 1997.

Highly Confidential

1 Lawless, G., Cropp, R.A., and Harris, P. (1997) Cooperative Ownership Compared to
2 Other Business Arrangements for Multi-Family Dairy
3 Operations, University of Wisconsin Center For Cooperatives,
4 University of Wisconsin-Madison, Occasional Paper No. 11b, March 1997

5 Cropp, R.A. (1997). Changes Drive Cooperatives to Add Value, American Cooperation
6 1997, 1997.

7 Cropp, R.A.. (1997). Pilot Program for Alto Dairy Cooperative, American Cooperation
8 1997, 1997

9 Cropp, R.A. (1996). Cooperative Education Via Super Highway, American Cooperation
10 1996, Vol. 11, 1996.

11 Cropp, R.A. (1993). "How Do We Market Cooperative Education in Colleges and
12 Universities?"
13 American Cooperation 1993, Vol. 8, 1993.

14 Cropp, R.A. (1988). Impact of Milk Supply Management on the Midwest, Journal of
15 Dairy Science, Spring 1988 issue.

16 Farr, C., Cropp, R.A., Deiter, R., Jacobson, R., Novakovic, A. (1985), Increasing Returns
17 to Dairy Farmers by Generic Promotion of Milk and Dairy Products: The Issue of Which
18 Products to Promote, A report to the Wisconsin Milk Marketing Board, April 1985

19 Boynton, R., Buchanan, W., Carley, D., Cropp, R.A., Honan, J., Jacobson, R., March, R.,
20 Mason, R., Waterstreet, R., (1984), The dairy price support program, Report to National
21 Milk Producers Federation, August 1984.

22 Cropp, R.A., Groves, F., (1981), An Assessment of the Impact and Effectiveness of the
23 Entry of California Cannery and Growers on the Wisconsin Vegetable Processing
24 Industry, University of Wisconsin Center for Cooperatives publication, 1981.

25 Cropp, R.A., Graf, T. (1978), Economic Analysis of Dairy Marketing Organization
26 Services, Research Report, University of Wisconsin, 1978

27 Cropp, R.A., Graf, T. (1977), Economic Analysis of Farm to Plant Milk Hauling,
28 Research Report, University of Wisconsin, August 1977.

Graf, T., Cropp, R.A. (1975), Dairy Promotion, How Effective Is It?, Project Report,
University of Wisconsin, June 1975.

Cropp, R.A., Graf, T. (1972), Analysis of Market Adjustments Confronting Wisconsin
Dairy Cooperatives, Research Report 2424, University of Wisconsin, September 1972.

Cropp, R.A., Graf, T. (1972), Milk Programs of Wisconsin Food Chains, Research Report
2423, University of Wisconsin, September 1972.

Highly Confidential

Cropp, R.A., Graf, T. (1972), Market Adjustments Confronting Wisconsin Fluid Milk Processors, Research Project R2422, University of Wisconsin, September 1972.

1 Cropp, R.A., Graf, T. (1967), Milk Consumption and Food Service Patterns in Selected
2 Eastern and Midwest Institutions, ERS, USDA and University of Wisconsin, marketing
3 Research Project No. 800, January 1967.

4 Cropp, R.A., Graf, T. (1966), Marketing Potential for Sterilized Milk Concentrate in
5 Institutional Outlets, ERS, USDA and University of Wisconsin, Research Bulletin 271,
6 June 1966.

6 **Extension Publications**

7 Brown, B., Cropp, R., Gould, B. and Jesse, E. (2010), "Dairy Policy Options for the 2012
8 Farm Bill", Food and Agricultural Policy Research Institute, University of Missouri and
9 the Department of Agricultural and Applied Economics, University of Wisconsin,
10 Madison, April 2010.

11 Jesse, E., Cropp, R. (2009), "Futures and Options Trading in Milk and Dairy Products",
12 University of Wisconsin-Extension, Cooperative Extension, University of Wisconsin,
13 Madison, Wisconsin, April 2009.

14 Jesse, E., Cropp, R. (2008), "Basic Milk Pricing Concepts for Dairy Farmers", University
15 of Wisconsin-Extension, Cooperative Extension, University of Wisconsin, Madison,
16 Wisconsin., October 2008.

17 Jesse, E., Gould, B. and Cropp, R. (2006), "Price-Protecting Butterfat in High Testing
18 Herds: Using the CME Deliverable Butterfat Contract", Marketing and Policy Briefing
19 Paper No. 91, Madison, Wisconsin, University of Wisconsin Department of Agricultural
20 and Applied Economics, Cooperative Extension, University of Wisconsin Extension,
21 September 2006.

22 Jesse, E. and Cropp, R. (2005), "Federal Milk Marketing Order Pooling, Depooling, and
23 Distant Pooling: Issues and Impacts", Marketing and Policy Briefing Paper No. 85,
24 Madison, Wisconsin, University of Wisconsin Department of Agricultural and Applied
25 Economics, Cooperative Extension, University of Wisconsin Extension, June 2004.

26 Jesse, E., Gould, B., and Cropp, R. (2002), "Federal Milk Marketing Order Reform:
27 November 2002 Final Decision on Class III/IV Formulas", Marketing and Policy Briefing
28 Paper No. 79, Madison, Wisconsin : University of Wisconsin Department of Agricultural
and Applied Economics, Cooperative Extension, University of Wisconsin-Extension, Nov.
2002.

Jesse, E. and Cropp, R. (2002), "Dairy Title: Farm Security and Rural Investment Act of
2002", Marketing and Policy Briefing Paper No. 76, Madison, Wisconsin: University of
Wisconsin Department of Agricultural and Applied Economics, Cooperative Extension,
University of Wisconsin-Extension, May 2002.

Highly Confidential

1 Jesse, E. and Cropp, R. (2001). "Federal Milk Marketing Order Reform", Marketing and Policy Briefing Paper No. 73, Madison, Wisconsin: University of Wisconsin Department of Agricultural and Applied Economics, Cooperative Extension, University of Wisconsin-Extension, November 2001.

2 Jesse, E. and Cropp, R. (2001). "The Butter-Powder Tilt", Marketing and Policy Briefing Paper No. 72, Madison, Wisconsin: University of Wisconsin Department of Agricultural and Applied Economics, Cooperative Extension, University of Wisconsin-Extension, June 2001.

3
4
5 Jesse, E. and Cropp, R. (2000). "Order Reforming Order Reform", Marketing and Policy Briefing Paper No. 71, Madison, Wisconsin: University of Wisconsin Department of Agricultural and Applied Economics, Cooperative Extension, University of Wisconsin-Extension, December 2000.

6
7
8 Cropp, R., Shaver, R. and Wendorff, B. (1999). "Changes in Testing for and Paying for Milk Components as Proposed under the Final Rule of Federal Order Reform: Implications for Dairy Producers", Marketing and Policy Briefing Paper No. 70, Madison, Wisconsin: University of Wisconsin Department of Agricultural and Applied Economics, Cooperative Extension, University of Wisconsin-Extension, July 1999.

9
10
11
12 Cox, T., Cropp, R. and Hughes, W. (1999). "Interregional Analysis of Interstate Dairy Compacts", Marketing and Policy Briefing Paper No. 69, Madison, Wisconsin: University of Wisconsin Department of Agricultural and Applied Economics, Cooperative Extension, University of Wisconsin-Extension, July 1999.

13
14
15 Cox, T., and Cropp, R. (1999). "Federal Order Reform: The Final Rule", Marketing and Policy Briefing Paper No. 68, Madison, Wisconsin: University of Wisconsin Department of Agricultural and Applied Economics, Cooperative Extension, University of Wisconsin-Extension, April 1999.

16
17
18 Cropp, R.A., and Gould, B. (1998) "Dairy Producer Use of BFP PUT Options to Reduce Price Risk: Application to USDA's Dairy Options Pilot Program", Marketing and Policy Briefing Paper No. 64, Madison, Wisconsin: University of Wisconsin Department of Agricultural and Applied Economics, Cooperative Extension, University of Wisconsin-Extension, November 1998.

19
20
21 Cropp, R.A., and Dobson, W. (1998). 1998 Dairy Situation and Outlook, Marketing and Policy Briefing Paper No. 61, Madison, Wisconsin: University of Wisconsin Department of Agricultural and Applied Economics, Cooperative Extension, University of Wisconsin-Extension, March 1998.

22
23
24 Cropp, R.A. and Gould, B. W. (1998). Summary of the USDA Proposed Rule for Federal Milk Marketing Order Reform, Marketing and Policy Briefing Paper No. 60, Madison, Wisconsin: University of Wisconsin Department of Agricultural and Applied Economics, Cooperative Extension, University of Wisconsin-Extension, February 1998.

Highly Confidential

1 Cottingham, J., Cropp, R.A. and Fortenbery, R. (1998), *The Language of Futures Markets and Options*, Madison, Wisconsin: Cooperative Extension, University of Wisconsin-Extension, A2913, January 1998.

2 Gould, B.W. and Cropp, R.A. (1997) □ *The Basic Formula Price: Has The Use of NASS Cheese Prices Changed Its Value? Marketing and Policy Briefing paper No. 58*, Madison, Wisconsin: University of Wisconsin Department of Agricultural and Applied Economics, Cooperative Extension Service, University of Wisconsin-Extension, September 1997.

3
4
5 Lawless, G., Cropp, R.A., and Harris, P.E. (1997). *Cooperative Ownership Compared to Other Closely-Held Joint Ventures, Managing Agricultural Resources*, Madison, Wisconsin: University of Wisconsin Department of Agricultural and Applied Economics, April 1997.

6
7
8 Jesse, E. And Cropp R.A. (1997). *The Basic Formula Price Futures Contract: A New Dairy Industry Risk Management Tool, Marketing and Policy Briefing Paper No. 56*, Madison, Wisconsin: University of Wisconsin Department of Agricultural and Applied Economics, Cooperative Extension Service, University of Wisconsin-Extension, March 1997.

9
10
11 Cropp, R.A. (1997). *Alternative Order Provisions to Facilitate the Orderly Movement of Milk to Fluid Markets, Dairy Markets and Policy Issues and Options*, a project of Cornell University's Program on Dairy Markets and Policy, O-9, February 1997.

12
13 Cropp, R.A. (1996). *Class II Pricing Under Federal Milk Orders, Dairy Markets and Policy Issues and Options*, a project of Cornell University's Program on Dairy Markets and Policy, O-4, December 1996.

14
15
16 Cropp, R.A. (1996). *The Federal Agriculture Improvement and Reform Act of 1996, Marketing and Policy Briefing Paper No. 55*, Madison, Wisconsin: University of Wisconsin Department of Agricultural Economics, Cooperative Extension Service, University of Wisconsin-Extension, April 1996.

17
18
19 Cropp, R.A. (1996). *Milk pricing and Pooling in California, Dairy Marketing and Policy Issues and Options*, a Project of Cornell University's Program on Dairy Markets and Policy, O-10, March 1996. Cropp, R. A. (1996). *Class II Pricing Under Federal Milk Orders, Dairy Marketing and Policy Issues and Options*, a Project of Cornell University's Program on Dairy Markets and Policy, 0-4, December 1996.

20
21
22 Jesse. E. and Cropp, R.A. (1995). *Futures Contracts For Milk: How Will They Work? Marketing and Policy Briefing Paper No. 54*, Madison, Wisconsin: University of Wisconsin Department of Agricultural Economics, Cooperative Extension Service, University of Wisconsin-Extension, December 1995.

23
24
25 Cropp, R.A. and Jesse, E.V. (1995). "USDA's Final Decision on Multiple Component Pricing for

Highly Confidential

1 Midwest Federal Milk Marketing Orders," Marketing and Policy Briefing Paper No. 53,
2 Madison, Wisconsin: University of Wisconsin Department of Agricultural Economics,
3 Cooperative Extension Service, University of Wisconsin-Extension, August 1995.

4 Jacobson, R. and Cropp, R.A. (1995). "Dairy Cooperatives and Their Role in the United
5 States," *Dairy Marketing and Policy Issues and Options*, a Project of Cornell University's
6 Program on Dairy Markets and Policy, M-9, March 1994, revised August 1995.

7 Cropp, R.A. (1995). "Dairy Policy," 1995 Farm Bill Policy Options and Consequences,
8 Texas Agricultural Extension Service, Texas A&M University, College Station, Texas,
9 June 1995.

10 Cropp, R.A. and Stephenson, M. (1995). "Introduction to Cheese and Nonfat Dry Milk
11 Futures," *Dairy Market and Policy Issues and Options*, a project of Cornell University's
12 Program on Dairy Markets and Policy, M-12, February 1995.

13 Cropp, R.A. (1995). Introduction to Options Trading in Cheese and Non-fat Dry Milk
14 Futures Contracts, *Dairy Markets and Policy Issues and Options*, a project of Cornell
15 University's Program on Dairy Markets and Policy, M-13, Feb. 1995.

16 Cropp, R.A. (1995). "Dairy Outlook," Status of Wisconsin Farming 1995, January 1995.

17 Dobson, W.D. and Cropp, R.A. (1995). "Economic Impacts of the GATT Agreement on
18 the U.S.
19 Dairy Industry," Marketing and Policy Briefing Paper No. 50, Madison, Wisconsin:
20 University of Wisconsin Department of Agricultural Economics, Cooperative Extension
21 Service, University of Wisconsin-Extension, January 1995.

22 Jesse, E.V. and Cropp, R.A. (1994). "USDA's Recommended Decision on Multiple
23 Component Pricing for Midwestern Federal Milk Marketing Orders," Marketing and
24 Policy Briefing Paper No. 49, Madison, Wisconsin: University of Wisconsin Department
25 of Agricultural Economics, Cooperative Extension Service, University of Wisconsin-
26 Extension, November 1994.

27 Cropp, R.A. and Jesse, E.V. (1994). "USDA's Recommended Decision on Replacing the
28 M-W Price," Marketing and Policy Briefing Paper No. 48, Madison, Wisconsin:
University of Wisconsin Department of Agricultural Economics, Cooperative Extension
Service, University of Wisconsin-Extension, September 1994.

Cropp, R.A. (1994). "Introduction to Options Trading in Cheese and Nonfat Dry Milk
Futures
Contracts," *Dairy Markets and Policy Issues and Options*, a project of Cornell University's
Program on Dairy Markets and Policy, M-13, July 1994.

Jesse, E.V. and Cropp, R.A. (1994). "Federal Order Milk Pricing and the Economic
Viability of the Upper Midwest Dairy Industry," Marketing and Policy Briefing Paper No.
47, Madison, Wisconsin: University of Wisconsin Department of Agricultural Economics,
Cooperative Extension Service, University of Wisconsin-Extension, April 1994.

Highly Confidential

Cropp, R.A. (1994). "Dairy Outlook," Status of Wisconsin Farming 1994, January, 1994.

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Jesse, E.V. and Cropp, R.A. (1993). "Class III-A: What, How, Why." Marketing and Policy Briefing Paper No. 44, Madison, Wisconsin: University of Wisconsin Department of Agricultural Economics, Cooperative Extension Service, University of Wisconsin-Extension, November 1993.

Jesse, E.V. and Cropp, R.A. (1993). "Futures and Options Trading in Cheese: Basic Principles for Hedgers," Madison, Wisconsin: University of Wisconsin-Extension, October 1993.

Cropp, R.A. and Jesse, E.V. (1993). "Federal Order Class I Prices and Reconstituted Milk," *Dairy Markets and Policy Issues and Options*, a project of Cornell University's Program on Dairy Markets and Policy, O-7, May 1993.

Cropp, R.A. (1993). The Feasibility of Joint Activities Among Dairy Cooperatives in the Processing and Marketing of Cheese, University of Wisconsin, Center for Cooperatives, May 1993.

Jesse, E.V. and Cropp, R.A. (1993). "What Determines Your Milk Check? Part II: Grade A Milk," North Central Regional Extension Publication #217-17, March 1993.

Jesse, E.V. and Cropp, R.A. (1993). "What Determines Your Milk Check? Part I: Manufacturing Grade Milk," North Central Regional Extension Publication #217-16, March 1993.

Cropp, R.A. (1993). "Voluntary Milk Supply Management," *Dairy Markets and Policy Issues and Options*, a project of Cornell University's Program on Dairy Markets and Policy, P-7, January 1993.

Cropp, R.A. and Wasserman, W. (1993). "Issues and Options for Using Multiple Component Pricing to Set Pricing in Federal Milk Marketing Orders," *Dairy Markets and Policy Issues and Options*, a project of Cornell University's Program on Dairy Markets and Policy, O-8, January 1993.

Cropp, R.A. Jesse, E.V. and Dobson, W. (1993). "Marketing Agencies-in-Common," *Dairy Markets and Policy Issues and Options*, a project of Cornell University's Program on Dairy Markets and Policy, M-8, January 1993.

Cropp, R. A. (1993). "Dairy Outlook", Status of Wisconsin Farming 1993, Department of Agricultural and Applied Economics, University of Wisconsin, January 1993.

Jesse, E.V., Cropp, R.A. (1987), Fluid Milk Reconstitution: Issues and Impacts, Marketing and Policy Briefing Paper No.20, Madison, Wisconsin: University of Wisconsin

Highly Confidential

Department of Agricultural and Applied Economics, Cooperative Extension Service,
University of Wisconsin-Extension, November 1987.

1 Cropp, R.A., Jesse, E.V., (1987), The M-W Series, Its Validity and Alternatives,
2 Marketing and Policy Briefing Paper No. 18, Madison, Wisconsin: University of
3 Wisconsin Department of Agricultural Economics, Cooperative Extension Service,
University of Wisconsin-Extension, September 1987.

4 Jesse, E.V., Cropp, R.A., (1987), Regional Pricing of Fluid Milk, Marketing and Policy
5 Briefing Paper No. 17, Madison, Wisconsin: University
6 of Wisconsin Department of Agricultural Economics, Cooperative
Extension Service, University of Wisconsin-Extension, September 1987.

7 Jesse, E.V., Cropp, R.A., (1986), Biotechnology and The Future of Wisconsin Dairying,
8 Marketing and Policy Briefing Paper No. 12, Madison, Wisconsin: University of
9 Wisconsin Department of Agricultural Economics, Cooperative Extension Service,
University of Wisconsin-Extension, July 1986.

10 Cropp, R.A., Jesse, E.V., (1986), A Single National Milk Marketing Order, Marketing and
11 Policy Briefing Paper No. 10, Madison, Wisconsin: University of Wisconsin Department
12 of Agricultural Economics, Cooperative Extension Service,
University of Wisconsin-Extension, June 1986.

13 Jesse, E.V., Cropp, R.A., (1986), Use of Mandatory Supply Control in the U.S. Dairy
14 Sector, Marketing and Policy Briefing Paper No. 8, Madison, Wisconsin: University of
15 Wisconsin Department of Agricultural Economics, Cooperative Extension Service,
University of Wisconsin-Extension, May 1986.

16 Jesse, E.V., Cropp, R.A., (1985), Implications of a Target Price-Deficiency Payment
17 Program for Supporting Milk Prices, Cooperative Extension Service, University of
Wisconsin-Extension release, March 1985.

18 Knutson, R., Cropp, R.A., Jacobson, R., Harris, H., Novakovic, A., Schwarts, R., (1985),
19 Dairy Policy Options for 1985, Cooperative Extension Service, University of Wisconsin-
Extension release, March 1985.

20 Jesse, E.V., Cropp, R.A., (1985), Decisions 1985: Dairy Policy Options for the 1985 Farm
21 Bill, Cooperative Extension Service, University of Wisconsin-Extension release, January
22 1985.

23 Cropp, R.A., (1979), An Evaluation of Wisconsin's dairy Industry Trade Practice Law,
University of Wisconsin Agricultural Economics Staff Paper Series, June 1979.

24 Cropp, R.A., Cook, H., (1978), What is a Federal Milk Marketing Order?, Cooperative
25 Extension, University of Wisconsin-Extension/Madison/Platteville, August 1978.

Highly Confidential

1 Cook, H., Cropp, R.A., (1977), The Milk Producer's Cost-Price Outlook for 1977, Cooperative Extension, University of Wisconsin-Extension/Madison/Platteville, June 1977.

2 Cropp, R.A., Cook, H., Bringe, A., Crowley, J., Dean, M., Graf, T., Jackson, H., (1977), Pricing Milk to Farmers on a Component Basis, Cooperative Extension, University of
3 Wisconsin-Extension/Madison/Platteville, June 1977.

4 Cropp, R.A., Cook, H., (1977), What Determines the Individual Dairy Farmer's Milk Price Under a Federal Order?, Cooperative Extension, University of Wisconsin-
5 Extension/Madison/Platteville, April 1977.

6 Cook, H., Cropp, R.A., (1977), Why Have an Upper Midwest Milk Marketing Order?, Cooperative Extension, University of Wisconsin-Extension/Madison/Platteville, April
7 1977.

8 Cook, H., Cropp, R.A., (1977), Federal Order Pricing Under Fire—The Issues, Cooperative Extension, University of Wisconsin-Extension/Madison/Platteville, February
9 1977.

10 Cropp, R.A., Graf, T., (1976), Does It pay to Advertise Dairy Products?, Cooperative
11 Extension, University of Wisconsin-
12 Extension/Madison/Platteville, October 1976

13 Cropp, R.A., Cook, H., (1976), How Parity Prices and Support Levels Are Determined, Cooperative Extension, University of Wisconsin-Extension/Madison/Platteville, August
14 1976.

15 Cook, H., Cropp, R.A., (1976), The Delicate Supply-Demand Balance, Cooperative
16 Extension, University of Wisconsin-Extension/Madison/Platteville, November 1976.

17 Cropp, R.A., Cook, H., (1976), Factors Determining the Price of Butter, Cooperative
18 Extension, University of Wisconsin-Extension/Madison/Platteville, October 1976.

19 Cottingham, J., Cropp, R.A., Groves, F., Rohde, G., Vilstrup, R.,(1974), Cooperative
20 Taxation, Cooperative Extension, University of Wisconsin-Extension/Madison/Platteville,
21 March 1974, revised 1982.

22 **Books**

23 The following chapter in US Programs Affecting Food and Agricultural Marketing,
24 Walter J. Ambruster and Ronald D. Knutson, Editors, "Managing the Supply Chain
25 Through Cooperatives and Contract Integration", pp 103 -136, Springer, Chambersburg,
26 PA, March 2013.

27 The following chapter in, Farm Foundation, Perspectives on 21st Century Agriculture: A
28 Tribute to Walter J. Armbuster, Sheridan Books, Inc., Ann Arbor, Michigan, 2007, Cropp,
R. A., "Cooperatives in the 21st Century: Challenges and Opportunities", pp 325 – 333.

Highly Confidential

The following chapter in Zurborg, Carl E., A History of Dairy Marketing in America, National Dairy Shrine, 2005, Cropp, R. A. and Graf. T., "History and Role of Dairy Cooperatives", pp 199 -214.

Zeuli, Kimberly A., and Cropp, Robert, Cooperatives: Principles and Practices in the 21st Century, University of Wisconsin Extension Publication A1457, University of Wisconsin-Madison, Sept. 2004.

The following Chapter in Merrett, D. Christopher, and Walzer, Norman, A Cooperative Approach to Local Economic Development, Quorum Books, Westport Connecticut, 2000: Cropp, R.A., "Starting a New Generation Cooperative".

The following chapter in Hallberg, M.C., Spitze, G.F. and Roy, D.E., Food and Agriculture and Rural Policy into the Twenty-First Century: Issues and Trade Offs, Westview Press, 1995: Armbruster, W., and Cropp, R.A. "Federal Marketing Orders."

Dobson, W.D. and Cropp, R.A. (1994) "The Dairy Marketing Initiative of Upper Midwestern Cooperatives." Competitive Strategy Analysis for Agricultural Marketing Cooperatives, Westview Press, 1994, pp 185-200.

The following chapters in Cobia, David, Cooperatives in Agriculture, Prentice Hall, 1989, Cropp, R.A. and Ingalsbe, G., "Structure and Scope of Agricultural Cooperatives", Cropp, R.A. "Supporting Organizations", Cobia, D., Cropp, R.A. and Vilstrup, R., "Adjustments by Existing Cooperatives".

Higgs, R., Cropp, R.A., Heidenreich, C., Loberger, R., Mitchell, M. (1973), Agricultural Mathematics, textbook, Interstate Printers and Publishers, Inc., Spring 1973.

Reports And Staff Papers

Cropp, R. A., (2005), A Glossary For Cooperatives, University of Wisconsin Center for Cooperatives, Bulletin No. 10, University of Wisconsin-Madison, November 2005.

Cropp, R.A., (2005), Cooperative Leadership, University of Wisconsin Center for Cooperatives, Bulletin No. 9, University of Wisconsin-Madison, July 2005.

Cropp, R. A., (2002), Dairy Cooperatives: Structural Change and Operations, University of Wisconsin Center for Cooperatives, Bulletin No. 4, University of Wisconsin-Madison, October 2002.

Cropp, R.A., (1997) Milk Money: How Dairy Cooperatives Impact Farm-Level Milk Prices, Rural Cooperatives, USDA/Rural Development, Nov/Dec 1997, pp 4-10.

Knutson, R.D., Bessler, D.A., Cropp, R.A., Hamm, L.G., Harris, H.M., Outlaw, J.L., Anderson, D.P., Awokuse, T., Siebert, J.W., Summer, D.A., and Yonkers, R.D. (1997). An Economic Evaluation of Basic Formula Price (BFP) Alternatives, Agricultural & Food Policy Center Working Paper 97-2, Agricultural & Food Policy Center, Department of

Highly Confidential

Agricultural Economics, Texas A&M University; Center for Cooperatives, Department of Agricultural and Applied Economics, University of Wisconsin; cooperating with the Dairy Division, Agricultural Marketing Service, U.S. Department of Agriculture.

Cropp, R.A. (1995). "What are the Milk Marketing and Pricing Issues?" Proceedings: Toward the 1995 Farm Bill and Beyond, a workshop for Dairy Economists and Policy Analysis, Department of Agricultural, Resource and Managerial Economics, College of Agriculture and Life Sciences, Cornell University, Ithaca, NY, May 1995.

Cropp, R.A. (1995). "The 1995 Farm Bill: The Issues," and "Regional Competitiveness: Upper Midwest," Proceedings of the Southern Dairy Conference, February 15-16, 1995.

Cropp, R.A. (1994). "Opportunities for Upper Midwest Dairy Producers," Paper presented at Four-State Dairy Farm Expansion Seminar, LaCrosse, WI, November 1994, 41 pp.

Cropp, R.A. (1994). "Strategies for Small Dairy Farmers to Be Profitable and Competitive in the Future," Paper presented at 1994 Dairy Days, Kansas State University, Manhattan, KS, November 1994, 7 pp.

Cropp, R.A. and Hahn, J. (1994). "Multiple Component Pricing of Milk," September 1994, 74 pp.

Cropp, R.A. (1994). "Dairy Futures," September 1994, 42 pp.

Cropp, R.A. (1994). "Grazing Dairy Systems: Impact on the Dairy Industry as a Whole," prepared for the College of Agricultural and Life Sciences, UW-Madison, September 1994, 17 pp.

Cropp, R.A. (1994). "Regional Shifts in Milk Production: What Has Pricing Got to Do With It?" Proceedings of Professional Dairy Management Seminar, Cooperative Extension Services of Iowa State Univ., Univ. of Illinois, Univ. of Minnesota, and Univ. of Wisconsin, June 22-23, 1994, 12 pp.

Cropp, R.A. (1994). "Structural Changes for the United States Dairy Industry: Impact on Dairy Cooperatives," Paper presented at ICOS Annual Conference, Dublin, Ireland, May 1994,

Cropp, R.A. (1994). "Rural Development-Impact from the Dairy Industry," Proceedings of Western Dairy Conference, "The Dairy Industry at the Threshold of Change," North Dakota State University, March 1994, 5 pp.

Cropp, R.A. (1994). "State of the Industry and Economic Outlook," 49th Annual Midwest Milk Marketing Conference, Dept. of Agricultural Economics, University of Kentucky, March 1994, 11 pp.

Cropp, R.A. (1994). "Wisconsin Project 2000," 49th Annual Midwest Milk Marketing Conference, Dept. of Agricultural Economics, University of Kentucky, March 1994, 4 pp.

Highly Confidential

1 Cropp, R.A. (1994). "Dairy Future's Market-Benefit to Producers," Proceedings of 1994 Northwest and Lower Columbia Dairy Short Courses, Oregon State University and Washington State University, January 1994, 9 pp.

2 Cropp, R.A. (1994). "How Will Your Milk Be Priced in the Year 2000?" Proceedings of 1994 Northwest and Lower Columbia Dairy Short Courses, Oregon State University and Washington State University, January 1994, 14 pp.

4 Cropp, R.A. (1993). "Farm Milk Prices Continue to be Marketed by Volatility," Ag Outlook-'94, published by Agri-News, September 1993.

6 Cropp, R.A. (1993). "Multiple Component Pricing Under Federal Milk Marketing Orders," Proceedings of the 57th Annual Meeting of the International Association of Milk Control Agencies, August 1993.

8 Cropp, R.A. (1993). "The National Cheese Exchanges--A Barometer of Market Opinion," UW Dairy Pipeline 5:2, Madison, Wisconsin: University of Wisconsin-Extension and Center for Dairy Research, College of Agricultural and Life Sciences, Summer/Fall 1993.

10 Cropp, R.A. (1993). "The Feasibility of Joint Activities Among Dairy Cooperatives in the Processing and Marketing of Cheese," a report prepared for the Dairy Marketing Initiative, 1993.

13 Cropp, R.A. (1979). "An Evaluation of Wisconsin's Dairy Industry Trade Practice Law", Agricultural Economics Staff Paper Series, University of Wisconsin-Madison, June 1979.

14 **Other Written Works**

15 Cropp, R.A. and Bernhart, K. (2000). A complete curriculum package on dairy price risk management.

17 Cropp, R.A. (1995). "Multiple Component Pricing of Milk," a complete set of transparency masters to be used for teaching, 1995.

18 Cropp, R.A. (1994, revised 1998). "Dairy Future and Options," a complete set of transparency masters to be used for teaching, 1994.

20 Cropp, R.A. (1993). "Understanding Farm Milk Pricing, Milk Marketing and Dairy Cooperatives"

22 Jesse, E.V. and Cropp, R.A. "Milk Pricing and Federal Milk Marketing Orders: Issues and Problems," a complete set of transparency masters on milk pricing to be used as a teaching tool.

24 In addition, numerous articles have been written over the years for the popular press.

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RESEARCH PROGRAM

1 My research has focused on milk marketing, milk pricing and dairy policy issues, and
2 agricultural cooperatives. This research activity has had direct application to my
extension responsibilities in dairy marketing, dairy policy and cooperatives.

INSTRUCTIONAL PROGRAM

3 As a professor at University of Wisconsin-Platteville I taught the following courses:
4 Cooperatives, Economic Organization of Agriculture, Agricultural Prices, Commodity
5 Marketing, World Food and Agriculture, Agricultural Law, Dairy Marketing, Research
6 Methods.

7 As a professor at University of Wisconsin-Madison I taught the undergraduate course in
8 Cooperatives (323) 1990 to 2003 and in 2006 and 2007, and Dairy Marketing and
Cooperatives course in the Farm and Industry Short Courses Program 1993 to present.

EXTENSION PROGRAMS

9 My extension program is directed at dairy marketing, milk pricing, dairy policy, dairy
10 price risk management and agricultural cooperatives. Specific extension program topics
include:

11 (A) Dairy marketing, milk pricing, dairy policy and dairy price risk management

12 - Dairy situation and outlook (a monthly situation and outlook is prepared)

13 - Federal dairy programs

14 - Federal milk marketing orders

15 - State milk marketing orders

16 - Dairy policy alternatives

17 - Multiple component pricing

18 - Dairy futures and options for farmers and milk processors

19 - Forward price contracts for milk

20 - Structural changes in the dairy industry

21 (B) Agricultural Cooperatives

22 - Structural changes of cooperatives

23 - Leadership and management training for boards of directors and managers with specific
24 emphasis on board/manager roles and responsibilities, financial management, strategic
planning, business structure, mergers, consolidations, joint ventures and strategic
alliances

25 -Employee and membership education

26 - Role of cooperatives in rural and urban economic development

27 Clientele include: dairy farmers, dairy processors and marketers, cooperative boards of
28 directors and managers, employees and members of cooperatives, farm organizations,
state and national elective officials, agricultural trade associations, and county extension
staff.

TESTIMONY IN COURT PROCEEDINGS (LAST 4 YEARS)

29 *United States et al. v. Dean Foods Co.*, Case No. 2:10-cv-00059-JPS (E.D. Wis.)

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The Aardema Grp. LLC, et al. v. Nw. Dairy Ass'n et al., Case No. CV 2008-5403 (5th Jud. Dist. S.D.)

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De Vries Dairy LLC v. White Eagle Coop. Ass'n, Case No. 3:09-CV-207-JGC (N.D. Ohio)