

VOLUME XI

BEFORE THE SECRETARY OF

THE UNITED STATES DEPARTMENT OF AGRICULTURE

AGRICULTURAL MARKETING SERVICES

|                           |   |                   |
|---------------------------|---|-------------------|
| In the Matter of Proposed | ) | Docket Numbers    |
|                           | ) |                   |
| Amendments to Tentative   | ) | A0-14-A77, et al. |
|                           | ) |                   |
| Marketing Agreements and  | ) | DA-07-02          |
|                           | ) |                   |
| Orders                    | ) |                   |

National Public Hearing  
Monday, July 9, 2007  
1:00 p.m.  
Sheraton Hotel Station Square  
300 West Station Square Drive  
Grand Station Ballroom I  
Pittsburgh, PA 15219

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BEFORE: JUDGE VICTOR W. PALMER  
U.S. ADMINISTRATIVE LAW JUDGE  
UNITED STATES DEPARTMENT OF  
AGRICULTURE

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TRANSCRIPT OF PROCEEDINGS

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Reported by:

Sandra J. Mastay  
Court Reporter

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A P P E A R A N C E S

On Behalf of the United States Department of  
Agriculture:

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On Behalf of National Milk Producers  
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On Behalf of O-AT-KA Milk Products Corp.:

BY: Upstate Niagara Cooperative, Inc.  
Timothy R. Harner, General Counsel

On Behalf of Northwest Dairy Association:

Michael L. Brown  
1130 Reinier Avenue  
Seattle, WA

## I N D E X     O F     W I T N E S S E S

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## I N D E X     O F     E X H I B I T S

| EXHIBIT:                                         | MARKED | RECEIVED |
|--------------------------------------------------|--------|----------|
| 66 - Federal Register Notice                     | 2433   | 2515     |
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P R O C E E D I N G S

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JUDGE PALMER: On the record,  
my name is Victor Palmer. I am an  
administrative law judge. I have been assigned  
to hold the hearings in this Milk Marketing  
case, and this is the third session. The other  
sessions have been in Strongsville, Ohio, which  
is a suburb of Cleveland, and in Indianapolis,  
Indiana, and now we are here in Pittsburgh.

We have had some trouble completing  
all the work in the originally scheduled  
hearings. It has provoked quite a bit of  
attention from the industry, and understandably  
so.

We had set up some sort of a form of  
an agenda at the last session, which,  
unfortunately, because two attorneys who reside  
in New England are being delayed by weather  
today, we are not going to be able to keep to  
that agenda.

We went off the record, however, and  
we have come up with a couple of thoughts  
because we do want to end the hearing at this

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session by Thursday, and to do this we can do a couple of things.

The first witness will be Sue Taylor, who I understand is fairly long. A client of Mr. Vetne's has indicated he would have no problem if she would be the first witness. Daniel Smith, who was starting with the first witness, is the one who is delayed. So we will just put his situation off a little bit.

So we are going to start with Sue Taylor. We have also decided that we are going to use fairly precise breaks from now on. We will go for 20 minutes each time, and we will announce the time we will expect everybody to be back in 20 minutes.

With that, I will now look to counsel.

MS. PICHELMAN: My name is Heather Pichelman. I'm with the U.S. Department of Agriculture, Office of the General Counsel in Washington, D.C.

At this time we have a few preliminary exhibits that we would ask to be

1  
2 marked for identification. The first one, I  
3 believe we're starting at -- this will be  
4 No. 66.

5 JUDGE PALMER: 66.

6 MS. PICHELMAN: This is the  
7 Federal Register Notice regarding these  
8 proposed rules, the notice of reconvened public  
9 hearing on Proposed Rule Making, Volume 72,  
10 No. 88, dated Tuesday, May 8, 2007.

11 We would like to mark for  
12 identification Exhibit No. 66, the AMS News  
13 Release regarding this reconvening of the  
14 public hearing, and then we would like to mark  
15 for identification Exhibit No. 68. This is a  
16 Certificate of Officials Notified. It is  
17 signed by Joyce M. McPherson, a docket clerk,  
18 dated May 8, 2007.

19 Also included in this exhibit is a  
20 determination regarding mailing of the notice  
21 of hearing, and we have one signed by each  
22 market administrator that's covering all of the  
23 different marketing orders.

24 (Exhibit Nos. 66, 67 and 68  
25 were marked for identification.)

1

2

JUDGE PALMER: Very good.

3

What we should do is take appearances. We'll start with you. Would you give your name and identification for the record.

4

5

6

MS. PICHELMAN: I did, Your

7

Honor.

8

JUDGE PALMER: All right. Do

9

we have other appearances then? Let's take

10

Mr. Beshore.

11

MR. BESHORE: Marvin Beshore,

12

B-E-S-H-O-R-E. I am representing Dairy Farmers

13

of America and the Dairy League Cooperative,

14

Inc.

15

MR. HARNER: Tim Harner,

16

H-A-R-N-E-R, representing Upstate Niagara

17

Cooperative, Inc., and O-AT-KA Milk Products

18

Cooperative, Inc.

19

MR. ROSENBAUM: Steven

20

Rosenbaum representing the International Dairy

21

Foods Association.

22

JUDGE PALMER: Coming over to

23

the middle here. Mr. Yale.

24

MR. YALE: Benjamin F. Yale,

25

Yale Law Office, on behalf of Select Milk

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Producers and Continental Dairy Products and  
Dairy Products of New Mexico.

JUDGE PALMER: Your table.

MS. REED: Kristine Reed, Yale  
Law Office, representing the same group.

MR. MILTNER: Bryan Miltner  
with Yale Law Office.

JUDGE PALMER: Anybody more in  
the middle? Okay. We'll go over to the right.  
Anybody else?

MR. ROWER: Jack Rower, AMS  
Dairy Programs. I am a marketing specialist.

MR. SCHAEFER: Henry Schaefer,  
AMS Dairy Programs, Washington, D.C.

JUDGE PALMER: Next table  
back. Anyone?

MS. TAYLOR: Erin Taylor, AMS  
Dairy Programs in D.C.

MR. JABLONSKI: Gary  
Jablonski, AMS Dairy Programs, Washington, D.C.

JUDGE PALMER: Anyone else?

MR. CARMAN: Clifford Carman,  
C-A-R-M-A-N, AMS Dairy Programs, Washington,  
D.C.

1 S. Taylor - Direct

2 JUDGE PALMER: Any other  
3 appearances? All right. Well, that appears to  
4 be it. Let's start with Ms. Taylor.

5 -----

6 SUE M. TAYLOR

7 a witness herein, having been first duly sworn,  
8 was examined and testified as follows:

9 DIRECT EXAMINATION

10 BY MR. ROSENBAUM:

11 Q. Why don't you state your full name  
12 for the record.

13 A. It is Sue Taylor.

14 Q. Ms. Taylor, have you prepared a  
15 written statement for your direct testimony  
16 here today?

17 A. Yes, I have.

18 MR. ROSENBAUM: Your Honor, I  
19 would ask this be marked as Exhibit 69.

20 JUDGE PALMER: I lost the  
21 numbers already. 69. So marked.

22 (Exhibit No. 69 was marked for  
23 identification.)

24 Q. Ms. Taylor, you can please read your  
25 statement for us.

1 S. Taylor - Direct

2 A. Certainly. I am Sue Taylor, vice  
3 president of Dairy Policy and Procurement for  
4 Leprino Foods Company headquartered in Denver,  
5 Colorado. Our business address is 1830 West  
6 38th Avenue, Denver, Colorado 80211. Leprino  
7 operates nine plants in the United States,  
8 manufacturing mozzarella cheese and whey  
9 products domestically and marketing our  
10 products both domestically and internationally.  
11 Six of the nine plants that Leprino operates in  
12 the United States receive milk pooled in the  
13 Federal Milk Marketing Orders; therefore,  
14 Leprino has a strong interest in the decision  
15 by USDA as a result of this hearing.

16 In my role as vice president of  
17 Dairy Policy and Procurement at Leprino Foods,  
18 I am responsible for developing the company's  
19 policy positions and advocating those positions  
20 in appropriate forums, such as this hearing.  
21 Additionally, I am responsible for market  
22 analysis and forecasting and raw milk  
23 procurement, among other things. I have  
24 represented the company at all Federal Milk  
25 Marketing Order and California Order hearings

1 S. Taylor - Direct

2 that have related to cheese milk pricing over  
3 the last 12 years.

4 In addition to my current  
5 responsibilities at Leprino, I chair the  
6 Legislative and Economic Policy Committee for  
7 the National Cheese Institute, a constituent  
8 organization within the International Dairy  
9 Foods Association, and chair the Producer  
10 Relations Committee for the Dairy Institute of  
11 California. Both committees formulate the  
12 respective organizations' positions as they  
13 relate to milk pricing policy.

14 My professional responsibilities  
15 have focused on dairy markets and policies  
16 since 1989, when I joined Sorrento Cheese as a  
17 dairy economist and production analyst. From  
18 1992 through 1994, I was a principal in a dairy  
19 economics and management consulting business,  
20 Dairy Management Concepts, which provided  
21 consulting services to a broad spectrum of  
22 dairy companies, most of which operate plants.

23 I have been at Leprino leading the  
24 dairy policy and procurement efforts since  
25 January 1995. My educational background

1 S. Taylor - Direct

2 includes both Bachelor and Master's degrees  
3 from Cornell University in agricultural  
4 education with a heavy emphasis on agricultural  
5 economics.

6 This testimony is in support of  
7 adoption of Proposal Nos. 9 and 12. Proposal  
8 9, submitted by IDFA, corrects the Class III  
9 protein formula to more accurately reflect the  
10 volume and value of whey cream that can be  
11 recovered from the production of cheddar  
12 cheese. Proposal 12, also submitted by IDFA,  
13 eliminates the three cents that is currently  
14 added to the 38 percent barrel cheese price  
15 before the calculation of the weighted average  
16 NASS cheese price that is currently used in the  
17 Class III formula.

18 This testimony also is in strong  
19 opposition to Proposals 6, 7 and 8 submitted by  
20 Dairy Producers of New Mexico. These proposals  
21 all increase the yield factors in the Class III  
22 and IV formulas based upon assumptions that do  
23 not comport with manufacturing realities.

24 We also strongly oppose Proposal 3,  
25 submitted by Dairy Producers of New Mexico,

1 S. Taylor - Direct

2 which seeks to reduce the manufacturing  
3 allowances. This testimony also opposes the  
4 adoption of the proposals that narrow the  
5 survey base for the underlying commodities,  
6 (Proposals 13 and 15) and the National  
7 All-Jersey proposal that shifts the value of  
8 whey to the protein component (Proposal 16).

9 Finally, this testimony includes  
10 comments regarding the National Milk Producers  
11 Federation energy index proposal (17) and  
12 Dairylea's Proposal 20.

13 General Background on Cheddar  
14 Manufacturing. To understand the disposition  
15 and associated product yields of milk  
16 components through the cheddar manufacturing  
17 process, it is helpful to step back for a  
18 simplified overview of the cheddar  
19 manufacturing process.

20 Expert witness Dean Sommer of the  
21 University of Wisconsin and other NCI member  
22 company witnesses with years of direct cheddar  
23 production experience have elaborated more  
24 specifically on the process; but I am generally  
25 familiar with the process, and this explanation

1 S. Taylor - Direct

2 provides a framework with which to understand  
3 the component losses that I will advocate must  
4 be considered in the Class III formula factors.

5 The cheddar manufacturing process  
6 starts with the pasteurization of milk and  
7 transmission of pasteurized milk to the cheese  
8 making vats. The pasteurizer is a closed loop  
9 system with limited potential for loss with the  
10 exception of at start-up and shutdown. During  
11 start-up and shutdown, milk components that are  
12 diluted with water (milk pushing water at  
13 start-up and water pushing milk at shutdown)  
14 are lost, generally to the floor drain where  
15 they are disposed of as waste.

16 Once in the vat, a series of steps  
17 occur that are critical to cheese making, such  
18 as introduction of starter culture, addition of  
19 coagulating enzymes such as rennet, and various  
20 setting, cooking, cutting and stirring cycles.

21 Not to diminish the importance of  
22 these steps in overall production, I will jump  
23 to the end of the vat cycle. After the gel  
24 formed in the vat is cut and further cooked,  
25 the liquid whey is drained from the vat and the

1 S. Taylor - Direct

2 curds are pumped to another location (a table  
3 or conveyor, typically) for further draining.  
4 From this point, I will first describe the flow  
5 of the curds through cheese making and then  
6 will circle back to describe the flow of the  
7 liquid whey through further processing.

8 Curd Stream. Once the curds have  
9 been pumped from the vat to the next equipment,  
10 whether a draining table or belt, the whey that  
11 drains is recovered and it is typically  
12 combined with the whey that was drained from  
13 the vat.

14 The curds are then put through a  
15 cheddaring process during which the curds form  
16 a mat and acidity is developed to a targeted  
17 level. Whey is also expelled during the  
18 cheddaring process and is generally recovered  
19 and combined with the bulk whey that was  
20 drained from the vat. Once cheddaring is  
21 complete, the matted curd is milled into about  
22 half-inches pieces.

23 The milled curd is then dry salted.  
24 This may be done on a table or in other  
25 equipment. Regardless of equipment, the

1 S. Taylor - Direct

2 osmotic pressure resulting from the salting of  
3 the curds will result in expulsion of  
4 additional whey from the curds. This whey is  
5 highly problematic because of its high salt  
6 content. This whey is collected but is  
7 typically not combined with the bulk whey from  
8 the vat or initial draining step. Most cheddar  
9 makers save the salt whey until the end of the  
10 production day and run it through the whey  
11 separator to recover as much fat as possible  
12 from it. However, the balance of the solids  
13 (which would include lactose, protein and the  
14 residual fat not separated) in the salt whey is  
15 not combined into the bulk whey stream because  
16 of their high salinity content. These solids  
17 represent a significant liability and may be  
18 disposed of through the waste systems or may be  
19 land applied if the cheese maker has a permit  
20 to do so. But they are not generally added  
21 back into the general whey stream and are lost  
22 in the waste stream.

23 After salting and stirring, the  
24 curds are ready to be transported into the  
25 block or barrel forms. During this final

1 S. Taylor - Direct

2 filling and pressing process, further whey is  
3 removed. Depending upon the equipment and  
4 forms, the whey extracted through this process  
5 may or may not be recovered in a manner that  
6 allows for further use. For example, the whey  
7 from the pressing of cheddar in wooden forms  
8 cannot be recovered for human use. Wooden  
9 forms are commonly used in the production of  
10 640s (which are sometimes then cut down and  
11 marketed as 40s). The AMS Instructions for  
12 Dairy Plant Surveys, and the title is  
13 Instructions, would be DA Instructions 918-PS  
14 found at USDA's Web site, it's  
15 [www.ams.usda.gov/dairy/918-ps.htm](http://www.ams.usda.gov/dairy/918-ps.htm), state the  
16 following on page W-12.

17 "Number 4. Wooden Construction:

18 These containers are usually knockdown type  
19 made of paraffin plywood panels and using  
20 painted iron angle-shaped frame and corners,  
21 held together and tensioned and clamped steel  
22 bands. Salty whey withdrawn by vacuum probing  
23 may be separated or desalted for human food  
24 use. All salty whey recovered through  
25 subsequent pressing or draining operations

1 S. Taylor - Direct

2 shall be diverted to the floor or for uses  
3 other than human food."

4 Whey Stream. The bulk liquid whey  
5 that has been collected that is acceptable for  
6 the production of human grade whey is passed  
7 first through a fines saver to collect any curd  
8 that made its way through the screens. It is  
9 then generally passed through a centrifugal  
10 clarifier that separates out smaller pieces of  
11 cheese sometimes referred to as cheese dust.  
12 Most cheese makers add back to the cheese  
13 making process fines collected by the fine  
14 saver, but the fines collected at the clarifier  
15 are typically not approved for add-back and  
16 thus are lost. The AMS Instructions for Cheese  
17 Dairy Plant Surveys titled DA Instructions  
18 918-PS found at the USDA Web site at  
19 [www.ams.gov/dairy/918-ps.htm](http://www.ams.gov/dairy/918-ps.htm) state the  
20 following on page B-2:

21 "Most modern high efficiency,  
22 automatic self-cleaning clarifiers and  
23 separators are not designed or constructed to  
24 permit the collection and recycling of the  
25 sludge ('shoot') for human food. The areas of

1                   S. Taylor - Direct

2       the machines that contact the sludge during the  
3       desludging operation are not designed or  
4       constructed as sanitary product contact  
5       surfaces. Some cream separators and  
6       centrifugal fine savers are designed to reclaim  
7       the heavy phase for use in human food."

8                   The clarified whey stream is then  
9       sent through a separator. The whey separation  
10      process generates three product streams. They  
11      are whey cream, skim whey, and sludge. Most  
12      separators automatically expel the sludge  
13      buildup on a regular schedule and this product  
14      typically becomes part of the waste stream.

15                  Prior to the final evaporation and  
16      drying of the skim whey, it is once again  
17      passed through a pasteurizer.

18                  Cleaning Protocols. Proper cleaning  
19      and sanitation is critical to quality  
20      production of safe cheese and whey products.  
21      Cleaning of most equipment is done daily.  
22      Given the complexity of the manufacturing  
23      process already described and the wide array of  
24      equipment that comes into contact with the  
25      cheese and whey products at various stages of

1 S. Taylor - Direct

2 the process, it should be no surprise that milk  
3 components adhere to the equipment and are only  
4 removed through the aggressive use of chemicals  
5 during the daily clean in place, also called  
6 CIP, cycles or through manual cleaning  
7 protocols.

8 Product Losses. Additionally, given  
9 the high level of automation of most modern  
10 cheese plants and the open systems through the  
11 process, it is inevitable that from time to  
12 time some product will contact a surface that  
13 results in it being removed from the human  
14 grade production. This is particularly true if  
15 a piece of equipment malfunctions, causing the  
16 balance of the production system to stop while  
17 that equipment malfunction is addressed.

18 While good manufacturing and  
19 preventative maintenance practices can minimize  
20 these instances of product losses, these events  
21 cannot be entirely eliminated. The magnitude  
22 of the component loss, of course, is  
23 significant when cheese curds that may be  
24 32 percent fat and 24 percent casein become  
25 ineligible for human use. Unfortunately, milk

1 S. Taylor - Direct

2 cannot be transformed into finished cheddar and  
3 whey products in one closed system. Given that  
4 reality, component and product losses must be  
5 considered when establishing appropriate yields  
6 for the purpose of setting minimum regulated  
7 milk prices.

8 Proposal 9. Proposal 9 corrects an  
9 error in the existing Class III formulas  
10 regarding the volume and value of whey cream.  
11 Prior to focusing on the proposal, I would like  
12 to review the assumptions embedded in the  
13 current formulas.

14 The current Class III protein  
15 component price formula is 1.383, which is the  
16 protein yield -- in other words, the pounds of  
17 cheddar cheese produced from one pound of  
18 protein -- times the quantity, the NASS cheese  
19 price, which will be the average cheddar cheese  
20 price received by manufacturers as surveyed by  
21 National Agricultural Statistics Service of  
22 USDA, minus 16.82 cents, which is the  
23 manufacturing allowance, the assumed cost to  
24 convert raw milk into one pound of cheddar  
25 cheese. That quantity plus -- actually, I

1 S. Taylor - Direct

2 should clarify by the parens. It is 1.383  
3 times (NASS cheese price minus the 16.82 cents)  
4 plus (1.572, which is the fat yield or the  
5 pound of cheddar cheese produced from one pound  
6 of fat times (NASS cheese price minus 16.82  
7 cents, the make allowance) minus (.9 times the  
8 fat component price), and that .9 times the fat  
9 component price would be the credit for 90  
10 percent of the payment for the fat component.  
11 At the entire result of that equation times  
12 1.17, which is the ratio of fat to protein in  
13 milk.

14 The existing Class III formula  
15 captures the cheese yield value of milk in the  
16 portion of the protein --

17 Q. You mean fat. You said "milk,"  
18 cheese yield value of milk.

19 A. Yes. That's correct. It should be  
20 the existing Class III formula captures the  
21 cheese yield value of fat in the portion of the  
22 protein formula factor 1.572 times the quantity  
23 NASS cheese price minus .1682 cents.  
24 Specifically, the 1.572 is the assumed cheese  
25 yield of a pound of fat and is based upon a

1 S. Taylor - Direct

2 VanSlyke theoretical yield calculation in which  
3 the fat retention in the cheese is assumed to  
4 be 90 percent of the fat of the milk in the  
5 vat, the casein factor is zeroed out, and the  
6 moisture of the finished cheddar cheese is  
7 assumed to be 38 percent. The 1.572 yield  
8 factor reflects a combination of fat captured  
9 in the finished cheese along with a prorated  
10 portion of the non-fat non-casein solids and  
11 the water that are in finished cheddar cheese.  
12 A table dissecting the 1.572 fat yield factor  
13 is attached as Addendum A, Table 1.

14 I would like to turn to that table  
15 and describe it now.

16 Q. It is on page 35 of the report.

17 A. Okay. Addendum A, Table 1, found on  
18 page 35 of my testimony again is the dissection  
19 of the fat yield in cheddar calculation  
20 embodied in the current Class III formula.

21 The beginning farm fat level that is  
22 assumed in this calculation is 3.5 pounds, and  
23 that volume is reduced by an assumed farm to  
24 plant volume loss of one-quarter percent, which  
25 equates to a .0088 pound reduction. It is

1 S. Taylor - Direct

2 further reduced by the fat lost on surfaces  
3 prior to receipt in plant, and that is a  
4 .015 pounds of fat.

5 So the assumed volume delivered to  
6 the plant from your original 3.5 pounds of farm  
7 fat measured at the farm is 3.4763 pounds.  
8 That entire volume of fat then is assumed to go  
9 into the vat with no pre-vat plant losses, and  
10 the current formula assumes 90 percent of the  
11 fat in the vat gets captured in the finished  
12 cheddar cheese. So the 3.4763 pounds of fat  
13 going into the vat times the 90 percent fat  
14 capture would be 3.1286 pounds of fat in a  
15 finished cheddar cheese.

16 Along with that, in the VanSlyke  
17 equation, there is a 1.09 factor enumerator  
18 which effectively captures value for other  
19 non-fat non-casein solids that are captured in  
20 the finished cheese. That 9 percent would  
21 equate to an additional .2816 pounds of solids.

22 So the combination of the fat in  
23 these other non-fat non-casein solids would  
24 total 3.4102 would be the combination of the  
25 3.1286 and .2816.

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2 Q. And that's pounds?

3 A. That would be pounds. The current  
4 formula assumes a finished cheddar cheese  
5 product moisture of 38 percent, which adds  
6 2.0901 pounds of water to the assumption, and  
7 so the cheddar yield assumed from the original  
8 3.5 pounds of fat measured at the farm would be  
9 5.5003 pounds of cheddar cheese. That then  
10 gets divided by the original 3.5 pounds to drop  
11 down to the yield per pound farm fat of 1.572.  
12 I will now return to where I broke in my  
13 testimony, which is on page seven.

14 Including the cheese value of fat in  
15 the protein component formula in addition to  
16 charging for the fat separately in the  
17 butterfat component formula would result in  
18 valuing the same fat twice. Therefore, the  
19 protein formula also gives credit for a portion  
20 of the price paid for the butterfat component.  
21 This is accomplished through the subtraction of  
22 the .9 times the butterfat price in the protein  
23 equation. The .9 factor was adopted because  
24 the cheese yield factor of 1.572 assumes that  
25 90 percent of the fat in the milk in the vat is

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2 captured in the cheese. By subtracting only  
3 90 percent of the fat component price, the  
4 formula leaves 10 percent of the fat valued at  
5 the levels of the fat component price. That is  
6 to say, the formula leaves 10 percent of the  
7 fat, 0.35 pounds at standard test, priced as if  
8 it was used to produce Grade AA butter.

9 This becomes obvious when the  
10 component --

11 Q. In your written testimony the word  
12 "price" is there, but that is actually  
13 superfluous?

14 A. That would be correct. This becomes  
15 obvious when the component price formulas  
16 related to the valuation of fat at the butter  
17 value are combined at the rates assumed in  
18 3.5 percent standard milk. The following  
19 equations walk through that calculation.

20 The credit in protein formula per  
21 hundredweight milk at 3.5 percent standard fat  
22 would be a negative .9 times the Class III  
23 butterfat price per pound fat times 1.17 pounds  
24 of fat per pound protein times 3.1 pounds  
25 protein per hundred pounds of skim times

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2       96.5 pounds skim per hundredweight of milk,  
3       which simplifies down to minus 0.9 times the  
4       Class III butterfat price times 3.5, which then  
5       simplifies down to minus 3.15 times the Class  
6       III butterfat price.

7               The charge for the fat component per  
8       hundredweight milk at 3.5 percent standard fat  
9       is 3.5 times the Class III butterfat price. So  
10      the combined fat component charge and credit in  
11      the protein price would be the 3.5 times the  
12      Class III butterfat price minus 3.15 times the  
13      Class III butterfat price, which would equal  
14      0.35 times the Class III butterfat price.

15             The 3.5 pounds of fat that is valued  
16      at the Class III butterfat price in the Class  
17      III formula is valued as if it produced 0.42  
18      pounds of Grade AA butter, that is 0.35 pounds  
19      fat times the 1.2 yield of Grade AA butter per  
20      pound fat in the Class III butterfat formula.  
21      Yet this fat was also assumed to have been  
22      delivered to the vat and been subjected to all  
23      of the fermentation and mechanical processes  
24      associated with cheddar cheese production. The  
25      assumption that butterfat, once subjected to

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2 the cheese making process, can be used to  
3 produce Grade AA butter is inconsistent with  
4 USDA's own quality standards for Grade AA  
5 butter.

6 Specifically, the fat that is not  
7 captured in the cheddar cheese curd is drained  
8 from the cheese vat as part of the whey stream.  
9 After being passed through a fines safer and  
10 clarifier, the whey stream is passed through a  
11 separator. Upon separation from the skim whey,  
12 the whey fat is contained in a product referred  
13 to as whey cream. USDA's quality standards  
14 prohibit whey cream from being used to produce  
15 USDA Grade AA butter; rather, it can only be  
16 used to produce Grade B butter.

17 The Department's Agricultural  
18 Marketing Service Dairy Division publication  
19 entitled "United States Standards For Grades of  
20 Butter," Addendum B to my written testimony,  
21 describes the specifications for the USDA Grade  
22 AA butter on page two as follows:

23 "(a) U.S. Grade AA. U.S. Grade AA  
24 butter conforms to the following: Possesses a  
25 fine and highly pleasing butter flavor. May

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2 possess a slight feed and a definite cooked  
3 flavor. For detailed specifications and  
4 classification of flavor characteristics, see  
5 Table 1, and for body, color and salt  
6 characteristics and disratings, see Table II."

7 The same page goes on to describe  
8 U.S. Grade B butter as follows:

9 "(c) U.S. Grade B. U.S. Grade B  
10 butter conforms to the following. Possesses a  
11 fairly pleasing butter flavor. May possess any  
12 of the following flavors to a slight degree:  
13 malty, musty, neutralizer, scorched, utensil,  
14 weed, and whey. For detailed specifications  
15 and classification of flavor characteristics,  
16 see Table 1, and for body, color, and salt  
17 characteristics and disratings see Table II."

18 The table referred to in these  
19 definitions, Table 1 on page 3 of the same USDA  
20 publication, specifically assigns whey butter  
21 with a whey flavor to Grade B status.

22 Q. I think you put the word "whey" in,  
23 assigns whey butter. Did you mean to say  
24 assigns butter?

25 A. That's correct. It should be

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2 specifically assigns butter with a whey flavor  
3 to Grade B status. Whey flavor is inherent to  
4 whey cream. Therefore, butter produced from  
5 whey cream would be assigned a Grade B rating.

6 Whey Cream Value. Although whey  
7 cream is sometimes recycled back into the  
8 cheese making process, most cheddar makers do  
9 not do so. Agri-Mark, at transcript page 857,  
10 Twin County Dairy at transcript page 1411,  
11 Foremost Farms at transcript page 1542, Davisco  
12 at transcript page 1570, Great Lakes Cheese at  
13 transcript page 1919, and Land O'Lakes at  
14 transcript page 2115 have all testified at this  
15 hearing that they do not recycle whey cream  
16 into their cheddar. Kraft, the largest retail  
17 marketer of cheese in the U.S., has testified  
18 at this hearing that it does not allow its  
19 suppliers to do so, with respect to over  
20 85 percent of the cheddar cheese it purchases,  
21 in transcript page 1102. Mr. Sommer of the  
22 University of Wisconsin Center for Dairy  
23 Research testified that Alto Dairy did not do  
24 so and that it was an unwise practice,  
25 transcript page 2350.

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2                   The recycling of whey cream in  
3           cheddar production is limited by quality  
4           concerns. Additionally, the risk of a buildup  
5           of bacteriophage is greatly increased with the  
6           recycling of whey cream. Bacteriophage are  
7           viruses that attack the bacteria cultures that  
8           are used to set the cheese curds. The buildup  
9           of bacteriophage can lead to poor vat sets and  
10          production of off-grade cheese which commands a  
11          considerably lower price than is reflected by  
12          the NASS survey.

13                  For all of these reasons, many  
14          cheddar makers sell whey cream in bulk  
15          truckloads. Very few buyers of whey cream  
16          exist in the market today. With the  
17          acquisition of West Point Dairy Products by  
18          Grassland in 2005, one less independent market  
19          is available than was available at the time of  
20          the May 2000 hearing.

21                  After canvassing cheese makers from  
22          throughout the country, I have been able to  
23          identify only six companies that represent a  
24          total of eight plant locations that purchase  
25          whey cream in the country. These six buyers

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2 are Agri-Mark, West Springfield, Massachusetts;  
3 Beaver Meadows, DuBois, Pennsylvania;  
4 Grasslands in Greenwood, Wisconsin; West Point  
5 Nebraska in Hyrum, Utah; DFA in Winthrop,  
6 Minnesota; Alcam in Richland Center, Wisconsin;  
7 and Madison Farms Butter in St. Louis,  
8 Missouri. In addition to the reduced  
9 competition due to the limited number of  
10 players, the lack of local outlets drives up  
11 the cost of transporting the whey cream to  
12 market. This is particularly true in the east  
13 and the west. The cost of transport is either  
14 borne by the seller explicitly or indirectly  
15 through a lower purchase price.

16 The testimony that has and I  
17 understand will be entered into the hearing  
18 record by cheddar makers shows that the sales  
19 price for committed whey cream supplies is  
20 94.4 percent of the Grade AA butter price  
21 in the Pacific Northwest and the flat  
22 (100.2 percent) Grade AA butter price in the  
23 Northeast. Pricing on spot loads is typically  
24 considerably less. The pricing in a whey cream  
25 transaction is applied only to the pounds of

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2           fat in the whey cream; the skim portion of the  
3           whey cream is not valued. Ignoring the fact  
4           that the cheese maker does not receive payment  
5           for the protein and other solids in the whey  
6           cream for the moment, even a flat Grade AA  
7           market revenue stream falls short of the cheese  
8           maker's cost based upon the regulated Class III  
9           fat price.

10                       Specifically, the revenue received  
11           by processors on the fat component of the whey  
12           cream at the 100.2 percent and 94.4 percent  
13           Grade AA multipliers generate a 12.5 cent and a  
14           20.4 cent per pound shortfall per -- the extra  
15           "per pound" there could be deleted in the  
16           written testimony -- based upon the fat  
17           component cost established by the existing  
18           Class III formula. In other words, the  
19           regulated minimum price under the current  
20           formula is based upon the assumption that  
21           processors are receiving in the marketplace  
22           12.5 cents in the Northeast and 20.4 cents in  
23           the Pacific Northwest more than they really  
24           are, with respect to the fat component of the  
25           whey cream. The following table, using a

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2 five-year average Grade AA butter price, shows  
3 the details behind the conclusion.

4 In the Northeast at the five-year  
5 average Grade AA butter price, which is from  
6 the period of 2002 through 2006, the average  
7 price being \$1.3592, applying the multiplier of  
8 100.2 percent would generate a return per pound  
9 of whey fat of \$1.3619. The regulated cost --

10 Q. Before you go on, just so the record  
11 is complete and clear, the multiplier of  
12 100.2 percent is what processors are actually  
13 receiving for the whey cream in the  
14 marketplace; correct?

15 A. That would be correct. That would  
16 be the multiplier per pound of fat in the whey  
17 cream.

18 Q. Okay. And that's multiplied times  
19 the Grade AA butter price?

20 A. That would be correct.

21 Q. This is not part of the Federal  
22 Order System you are describing right now; this  
23 is the market reality?

24 A. That's correct. It has been  
25 testified to already in this hearing.

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2 So the Northeast processor would  
3 have a return per pound of whey fat of \$1.3619,  
4 but the regulated cost per pound of fat based  
5 on the current formula and those same butter  
6 prices would be \$1.4868.

7 Q. And just to interject here, now we  
8 are talking about the Federal regulated price;  
9 correct?

10 A. That's correct.

11 Q. This is what the processor has to  
12 pay as a minimum price with respect to that fat  
13 in the whey cream; correct?

14 A. That's correct.

15 Q. All right.

16 A. That would leave a revenue shortfall  
17 for that Northeast processor of 12.49 cents per  
18 pound of fat sold as whey cream.

19 The other example shown in the table  
20 for the Pacific Northwest started with the same  
21 average butter price, which is a CME average  
22 butter price of \$1.3592, to which a multiplier  
23 determined by the marketplace of 94.4 percent  
24 is set, that processor would get a return per  
25 pound of fat, of whey fat, of \$1.2831.

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2 They also would be subject to the  
3 regulated cost of \$1.4868 per pound of whey fat  
4 and would be left with a shortfall of 20.37  
5 cents per pound.

6 In addition, as already noted, this  
7 20.4 cent per pound fat shortfall does not even  
8 reflect that the protein and other solids in  
9 the whey cream are not generating any explicit  
10 revenue whatsoever, given that the price paid  
11 for whey cream is based entirely upon its fat  
12 content. Yet the protein and other solids in  
13 the whey cream are being priced under the  
14 Class III formula.

15 The discounted values of whey cream  
16 and Grade B butter have long been recognized in  
17 regulation and in the marketplace. The  
18 California Class 4b price formula, which covers  
19 milk used to produce cheese in the state of  
20 California, has contained a whey cream factor  
21 since a unique cheese milk formula was first  
22 developed in August 1989. The formula  
23 originally used the CME Grade B butter price  
24 for the purpose of valuing whey cream. When  
25 the CME discontinued Grade B butter trading in

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2 May 1998, the California Department of Food and  
3 Agriculture used the CME Grade AA butter price  
4 discounted by ten cents. The ten cent discount  
5 to the Grade B butter price is based upon a  
6 1998 hearing record that focused on the  
7 historic price relationship between the Grade  
8 AA and B butter markets at the CME. Addendum  
9 A, Table 2 to this written testimony,  
10 summarizes the Grade AA and B prices for the  
11 24 months immediately prior to the CME's  
12 discontinuation of trading. The Grade B price  
13 over that period was 9.78 cents below the  
14 average Grade AA butter price.

15 Q. And just to circle back, you have  
16 testified that whey cream, in fact, could only  
17 be used to make Grade B butter, not Grade AA  
18 butter under USDA standards; correct?

19 A. That's correct. Whether viewed from  
20 the perspective of the value of whey cream or  
21 the value of Grade B butter, it is clear that  
22 the whey fat recovered as whey cream is  
23 overvalued in the current Class III price  
24 formulas, which falsely value that fat as if it  
25 had the same value as the fat in Grade AA

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2 butter. Therefore, there must be an adjustment  
3 in the protein formula to reflect that lower  
4 value. I will discuss a specific approach  
5 after I first discuss whey cream volume.

6 Whey Cream Volume. In addition to  
7 overvaluing the whey fat that is recovered in  
8 the form of whey cream, the existing Class III  
9 formula overstates the volume of fat that can  
10 be recovered as whey cream from cheddar  
11 production. The 0.35 pound assumption in the  
12 current formula ignores both the fat that is  
13 captured in dry whey rather than in whey cream,  
14 and the fat that is lost in the salt whey,  
15 sludge and cleaning solutions, which I have  
16 already discussed.

17 IDFA's Proposal 9 calls for the  
18 protein formula to be adjusted to reflect the  
19 volume of whey cream that is actually recovered  
20 in cheddar production. Based upon the evidence  
21 that I am aware of now, the following table  
22 summarizes the approach that I believe  
23 identifies that fat that is available for whey  
24 cream recovery.

25 I will describe this table in

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2 detail. We're still starting with the standard  
3 milk composition assumption of 3.5 pounds of  
4 fat and using the existing .25 percent volume  
5 loss between the farm and the plant and the  
6 0.15 fat loss due to fat cleaning on surfaces  
7 between the farm and the plant. That leaves us  
8 with a volume delivered to the plant of  
9 3.4763 pounds.

10 The next section is also consistent  
11 with the current formula where we are using the  
12 volume delivered to the plant, 3.4763,  
13 multiplying it by the fat retention in the  
14 cheddar cheese of 90 percent to come up with  
15 3.1286 pounds that is representing the fat  
16 captured in the cheddar cheese.

17 Lines 9 through 12 are not in the  
18 existing formula and it essentially calculates  
19 the fat that goes with the sweet whey. The dry  
20 whey per hundredweight yield assumption is  
21 5.8643 pounds per hundredweight of milk, and  
22 the average fat composition of dry whey is  
23 roughly 1.25 percent. So the fat that goes  
24 with the dry whey is 0.0733 pounds, the 5.8643  
25 times the 1.25 percent.

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2 We are also going to calculate the  
3 fat left in the skimmed salt whey that's  
4 disposed of as waste. In this case, we have  
5 non-fat solids in the salt whey of .2172. The  
6 fat in proportion to the SNF in the dry whey  
7 would be 1.30. That's slightly different than  
8 the fat assumption on line 11 because there's  
9 some moisture in the fat assumption on line 11  
10 that's been corrected to eliminate the moisture  
11 on line 15.

12 So the fat associated with the  
13 skimmed salt whey, in other words, the fat that  
14 gets disposed of as part of the waste in the  
15 salt whey, would be .0029 pounds. Taking then  
16 the 3.4763 pounds delivered to the plant less  
17 the 3.1286 pounds in cheddar, the 0.0733 pounds  
18 in the dry whey and the .0029 pounds in salt  
19 whey, we are left with a residual fat  
20 marketable as whey cream of .2715. Dividing  
21 that by the original farm fat of the 3.5, the  
22 percent of fat recoverable as whey cream would  
23 be 7.8 percent.

24 As the table shows, farm fat pounds  
25 are first reduced by farm to plant losses,

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2 which are already captured in the current  
3 Class III formula. They are then reduced by  
4 the fat captured in the cheddar, which is  
5 already captured in the current Class III  
6 formula. They are then reduced by the fat  
7 that is incorporated in dry whey, which is  
8 1.25 percent of the dry whey volume. This is  
9 not captured in the current Class III formula.  
10 They are then reduced by the fat associated  
11 with the skim portion of the salt whey that is  
12 disposed of due to salinity issues. This is  
13 not captured in the current Class III formula.

14 As the table shows, even without  
15 considering the loss of fats on the stainless  
16 piping and equipment from pasteurizer through  
17 the vat, draining, cheddaring, milling, and  
18 pressing, or the losses related to the product  
19 losses, the maximum residual fat available for  
20 whey cream is .2715 pounds of the original  
21 3.5 pounds. This equates to 7.8 percent of the  
22 original fat.

23 Correcting the Protein Formula.

24 IDFA's Proposal 9 calls for the correction of  
25 the whey cream factor to account for both the

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2       true volume of the fat recovered in the whey  
3       cream and the true value of whey cream. Based  
4       upon the above analysis, the maximum  
5       recoverable whey fat at a 90 percent vat  
6       capture rate in cheddar cheese is 7.8 percent  
7       of the original fat. Therefore, in this  
8       example, the 0.9 factor should be replaced by a  
9       factor of 0.922 or greater in the protein  
10      equation, leaving a maximum of 7.8 percent of  
11      the fat to be valued as whey cream. The effect  
12      of moving the 0.9 factor to 0.922 at the  
13      average fat component price of the last five  
14      years (restated to the February 2007 make  
15      allowances) of \$1.4868 is a reduction of  
16      11.45 cents per hundredweight milk.

17               While the adjustment above will  
18      correct the formula to account for the proper  
19      amount of recoverable whey cream, a further  
20      adjustment must be made to account for the true  
21      value of whey cream. The protein formula  
22      should include a factor for the difference  
23      between whey cream values and the Class III fat  
24      price. This should be done with a flat  
25      adjustment similar to the Agri-Mark methodology

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2 in Proposal 10, but the adjustment should be  
3 reflective of the difference in value between  
4 the whey cream and the Grade AA butter value.

5 The analysis and discussion under  
6 the heading of whey cream value above indicates  
7 that the whey fat component that is recovered  
8 is overvalued by 12.5 cents in the Northeast  
9 and 20.4 cents per pound in the Pacific  
10 Northwest. Since the minimum regulated milk  
11 price is just that, an adjustment must be made  
12 to the protein component formula to accommodate  
13 the market values and, since we have uniform  
14 Class III pricing across the country, the  
15 targeted adjustment should be to accommodate  
16 the 20.4 cent shortfall in the Northwest.

17 Q. There should be the word "cent"  
18 after 20.4 in your written testimony?

19 A. That's correct.

20 Q. Okay.

21 A. This 20.4 cents per pound on the  
22 remaining .2715 pounds (7.8 percent of original  
23 fat) that we have determined is recoverable as  
24 whey cream, at a maximum, equates to a  
25 reduction of 5.5 cents per hundredweight. For

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2 consistency, this adjustment should be  
3 effectuated in the fat value correction portion  
4 of the protein formula. Since there are  
5 2.9915 pounds protein assumed in a  
6 hundredweight of milk and the fat correction  
7 portion of the formula is multiplied by 1.17,  
8 effectively grossing up the fat adjustment to  
9 3.5 pounds of fat, the appropriate adjustment  
10 to the fat portion of the protein formula is  
11 1.6 cents. The 1.6 cents multiplied by 1.17  
12 and 2.9915 equates to the 5.5 cents per  
13 hundredweight that needs to be adjusted.

14 Q. Just how do you get to the  
15 1.6 cents? Can you just explain that?

16 A. Essentially, it is taking the  
17 5.5 cents that I have determined out of a  
18 hundredweight basis, it needs to be adjusted  
19 out, and putting it in terms that can be used  
20 inside that protein equation, recognizing that  
21 there is roughly 2.9915 pounds of protein that  
22 will be multiplied by the 1.17 factor that  
23 grosses it back up to the 3.5 pounds of fat.

24 Given this evidence, I propose that  
25 the protein formula become 1.383 times (NASS

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2 cheese price minus 16.82 cents) plus (1.572  
3 times (NASS cheese price minus 16.82 cents)  
4 minus (.922 times fat component price) minus  
5 0.016 or, in other words, 1.6 cents) times  
6 1.17.

7 I will note again that this is a  
8 conservative change. The proposed change does  
9 not account for the fat lost on the stainless  
10 piping and equipment from pasteurizer through  
11 the vat, draining, cheddaring, milling, and  
12 pressing, or the losses related to product  
13 losses. In other words, the formula will still  
14 require processors to pay for milk as if they  
15 had not suffered these losses, but were instead  
16 able to extract revenues from the marketplace  
17 for this fat.

18 The combined effect of the  
19 correction for volume and value of whey cream  
20 is a reduction in the Class III hundredweight  
21 price of 16.9 cents per hundredweight over the  
22 last five years.

23 Q. Let me just interrupt here to add  
24 one point of clarification. You set forth on  
25 page 16 your proposal for the protein formula.

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2 That includes in a couple of places the make  
3 allowance of 16.82 cents; correct?

4 A. Yes.

5 Q. But you're not endorsing that as the  
6 correct make allowance, are you?

7 A. That would be correct. It is the --  
8 probably I should have stated it as less the  
9 make allowance rather than put in the precise  
10 number.

11 Q. There has been other testimony as to  
12 why the make allowance should be increased, and  
13 you are in agreement with that testimony, I  
14 take it?

15 A. I am in agreement, yes.

16 Q. Please continue.

17 A. Proposal 12. USDA should also adopt  
18 IDFA's proposal to eliminate the 3 cents that  
19 is currently added to the barrel price before  
20 calculating the weighted average NASS cheese  
21 price used in the Class III formula. Under the  
22 current pricing formulas and make allowances,  
23 this 3 cents addition cannot be justified.

24 At the time the current 3 cent  
25 adjustment was adopted as part of the Final

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2 Rule under Federal Order Reform, it was stated  
3 that "Since the make allowance of 17.02 cents  
4 is for block cheese, the barrel cheese price  
5 must be adjusted to account for the difference  
6 in cost for making block versus barrel cheese.  
7 The 3 cents that is added to the barrel cheese  
8 price is generally considered to be the  
9 industry standard cost difference between  
10 processing barrel cheese and processing block  
11 cheese." And that quote is found at the  
12 Federal Register, Volume 64, No. 63, page  
13 16098.

14 Subsequent to the adoption of this  
15 3-cent adjustment, two significant developments  
16 have occurred. First, the manufacturing cost  
17 data presented by Dr. Mark Stephenson of  
18 Cornell University at the September 2006  
19 hearing which was used to set the make  
20 allowances that went into effect February 1,  
21 2007, included both blocks and barrels. While  
22 CDFA cost data was also used to set the current  
23 Federal Order make allowances, Dr. Stephenson's  
24 cost data covered 78 percent of the total  
25 production volume and was given that relative

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2 weight in establishing the make allowances.  
3 Therefore, the current make allowances already  
4 reflect any processing cost difference that may  
5 exist between 40-pound blocks and 500-pound  
6 barrels. To make an additional 3 cent  
7 adjustment to reflect the purported processing  
8 cost difference is double counting.

9 Second, the 3-cent addition was not  
10 based upon a study of actual cost differences  
11 between blocks and barrels. Rather, it was  
12 based upon what was "generally considered to be  
13 the industry standard cost difference between  
14 processing barrel cheese and processing block  
15 cheese" as noted above. And the 3-cent rule of  
16 thumb was accepted by the industry as the cost  
17 difference because it had been manifested in  
18 the marketplace as the long-term difference in  
19 prices between 40-pound blocks and 500-pound  
20 barrels at 39 percent moisture.

21 However, subsequent to the  
22 implementation under Federal Order Reform, USDA  
23 adopted in the tentative rule implemented  
24 January 2001 a change in the pricing reference  
25 used for barrel cheese from the 39 percent

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2 moisture price that set the framework for the  
3 3-cent adjustment to a 38 percent moisture  
4 adjusted price. This change in the moisture  
5 level at which barrel prices are quoted has  
6 increased the barrel cheese price by 2.2 cents  
7 per pound during the last five years. Thus,  
8 the 3-cent adjustment and the adjustment of the  
9 barrel price to a 38 percent price reference  
10 both capture the same facet of the relationship  
11 between blocks and barrels, and are duplicative  
12 and double counting.

13 And finally, evidence has been  
14 presented at this hearing by Jon Davis with  
15 respect to block and barrel production costs in  
16 a Davisco plant that has comparable capacity in  
17 both forms, with capital investments to both  
18 lines made in a comparable timeframe, which  
19 showed no difference in cost between the  
20 production of cheddar blocks and barrels.

21 For all of these reasons, the 3-cent  
22 adjustment should be eliminated from the  
23 formula. At the average barrel representation  
24 in the NASS cheese survey over the last five  
25 years of 56.15 percent, the elimination of the

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2 3-cent barrel adjustment equates to a reduction  
3 of 16.24 cents per hundredweight.

4 Opposition to Other Proposals.

5 Opposition to Proposals 6, 7, 8, which are the  
6 Dairy Producers of New Mexico yield proposals.  
7 Leprino Foods is strenuously opposed to the  
8 yield proposals submitted by Dairy Producers of  
9 New Mexico. These proposals all increase the  
10 yield factors in the Class III and IV formulas  
11 based upon assumptions that do not comport with  
12 the minimum regulated pricing and manufacturing  
13 realities.

14 The erroneous assumptions that have  
15 been used by the proponents of the proposals  
16 are that, one, structural changes in the farm  
17 sector have eliminated the need to accommodate  
18 farm-to-plant losses when determining yields;  
19 two, 94 percent of the fat is captured in the  
20 finished cheddar cheese; and, three, casein  
21 represents 83.25 percent of true protein.

22 The only witness representing Dairy  
23 Producers of New Mexico, et al., through the  
24 first two weeks of the hearing who has  
25 addressed these specific proposals has been

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2 Attorney Benjamin Yale. In addition to the  
3 above underlying assumptions, Mr. Yale relies  
4 on other erroneous analysis to argue for the  
5 adoption of these yield proposals.

6 Fat Yield. I have to confess some  
7 confusion about Proposal 6 put forth by the  
8 Dairy Producers of New Mexico. The noticed  
9 proposal would increase the fat retention  
10 assumption in the cheddar yield formula from  
11 90 to 94 percent. It would make a  
12 corresponding adjustment to the fat credit in  
13 the protein formula to provide credit for that  
14 94 percent of the fat that it proposes to value  
15 at the cheddar value that is also valued at the  
16 butter value as the fat component. The yield  
17 factor of 1.653 pounds of cheddar per pound  
18 fat -- the word "fat" should be inserted there  
19 in the written copy. It should read the yield  
20 factor of 1.653 pounds cheddar per pound fat  
21 found in the Proposal 6 Order language also  
22 reflects elimination of the farm to plant loss.  
23 Additionally, Mr. Yale in his testimony  
24 (Exhibit 32, page 17), indicated that he was  
25 amending Proposal 6 as follows:

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2 "The 0.90 in the protein formula  
3 should be replaced with 0.894 to be consistent  
4 with the calculation for the Class IV butterfat  
5 price. Accordingly, we are amending our  
6 Proposal 6 to correct for both the change in  
7 the butterfat yield and the calculation of  
8 protein."

9 Since the 0.90 factor is not  
10 proposed to be retained in Proposal 6, it is  
11 difficult to clearly understand what the  
12 amended proposal is. Therefore, I will  
13 separate the proposal into three pieces.  
14 These are (1) the elimination of the farm to  
15 plant shrink allowance, (2) the increase in the  
16 fat retention assumption from the current  
17 90 percent retention to 94 percent, and (3) the  
18 concept that I believe is embodied in the  
19 amended proposal that attempts to recapture the  
20 farm to plant shrink allowance by reducing the  
21 credit for the volume of fat paid at the butter  
22 value.

23 Opposition to elimination of the  
24 farm to plant shrink allowance. Eliminating  
25 the farm to plant shrink allowance is in direct

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2 conflict with the combination of three basic  
3 facts. They are, (1) the Orders set minimum  
4 prices for milk as measured at the farm; (2)  
5 shrink occurs between the farm and delivery to  
6 the milk silos at the manufacturing plants; and  
7 (3) the VanSlyke yield formula used as the  
8 basis for setting the yield factors is designed  
9 to estimate the cheddar yield based upon  
10 components present in a cheese vat. In other  
11 words, the VanSlyke formula does not account  
12 for the losses of components that occur in the  
13 collection, transport, and delivery of milk  
14 between the farm and the plant. Therefore,  
15 further adjustments must be made to accommodate  
16 losses that occur prior to the vat when pricing  
17 milk at the farm.

18 The losses of milk volume and  
19 components that occur between the farm bulk  
20 tank and the plant have been well documented in  
21 this hearing already. MMPA testified that  
22 their losses average around .3 percent,  
23 transcript page 469. Land O'Lakes experienced  
24 0.343 farm to plant loss. I believe that that  
25 would be .343 percent farm to plant loss by

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2 volume, and .511 farm to plant loss on the fat  
3 component in 2006. That's found at transcript  
4 2155.

5 Q. Should there be a percentage after  
6 the 0.511?

7 A. I believe so. I would need to go  
8 back to the actual transcript cite to verify.  
9 Leprino Foods applies significant resources to  
10 managing farm to plant losses, but we still  
11 have some plants that persistently experience  
12 losses in the realm of a quarter percent.  
13 Despite our efforts, several of our plants  
14 experience average annual fat losses exceeding  
15 the 0.15 pounds per hundredweight milk farm to  
16 plant loss that is assumed in the existing  
17 yield formulas.

18 Q. I'm not sure you read the number  
19 right. 0.015?

20 A. Yes, 0.015 pounds per hundredweight.  
21 Mr. Yale contends that changes in farm  
22 structure have remedied the historic farm to  
23 plant losses that necessitated the allowance  
24 that is currently embodied in the Class III and  
25 IV yield assumptions. This is simply not the

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2 case. Federal Orders set minimum regulated  
3 prices in many milksheds where the supply is  
4 still dominated by small dairies. Our Waverly,  
5 New York, facility receives routes on a routine  
6 basis that are filled across 15 to 18 stops per  
7 load. The potential error in measurements, and  
8 the losses that are inherent in transferring  
9 the milk from the farm bulk tank to the truck,  
10 are all magnified by these multiple stops. It  
11 would be inappropriate for the Federal Orders  
12 to adopt a proposal that is inconsistent with  
13 these structural realities.

14 Even many large dairies generate  
15 meaningful farm to plant losses. Although some  
16 large dairies use certified scales for their  
17 milk, many do not, even if they're shipping  
18 truckload quantities. Some of these dairies  
19 have bulk tank capacity that exceeds the  
20 capacity of a tank truck. In these cases, the  
21 driver measures the milk by site tube or stick  
22 both before and after filling the truck. The  
23 addition of another subjective measurement and  
24 the math that is associated with it creates  
25 another opportunity for error. Although our

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2 average weight losses in milksheds with large  
3 dairies is lower than in those milksheds with  
4 small dairies, the size of a dairy does not  
5 seem to impact the fat losses we experience.  
6 As Mr. Yale elaborated at transcript page 1287,  
7 these differences may be generated by poor  
8 agitation prior to sampling at the farm. The  
9 challenge of getting a bulk truck driver to  
10 wait the time required to get the farm tank  
11 adequately agitated prior to sampling is no  
12 less with a large farm pick-up than a small  
13 farm pick-up.

14 Farm to plant losses remain a  
15 significant issue that even when aggressively  
16 managed exist in the marketplace today. To set  
17 a minimum regulated price based upon farm  
18 weights and tests in combination with yield  
19 assumptions based upon milk in a cheese vat  
20 without acknowledging realistic weights and  
21 tests would be bad policy. That should be --  
22 there should be the word "loss" inserted there  
23 after test. So without acknowledging realistic  
24 weights and tests losses would be bad policy.  
25 The Department was correct in their

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2 acknowledgment of these losses in the existing  
3 yield factors.

4 Opposition to Increasing the Fat  
5 Retention Factor From 90 to 94 Percent. The  
6 proponents of increasing the fat capture rate  
7 from 90 to 94 percent have provided no  
8 supporting evidence. Rather, the proponents  
9 provided hypothetical examples that I have yet  
10 to confirm are mathematically sound as to what  
11 the monetary impacts would be if a plant were  
12 to be able to achieve 94 percent fat capture.  
13 Such hypotheticals do not prove that their  
14 underlying assumptions are realistic or  
15 achievable.

16 Mr. Yale, in an effort to support  
17 the proposals to increase the yields in the  
18 Class III formula, attempts to estimate the  
19 yields achieved in California based upon the  
20 released CDFA cost study data, Exhibit 32,  
21 page 37. This analysis is riddled with  
22 erroneous assumptions and errors. First of  
23 all, Mr. Yale assumes that the standard of  
24 identity for cheddar cheese restricts inputs to  
25 milk, cream or skim milk. FDA has issued an

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2 advisory letter requiring liquid ultrafiltered,  
3 or UF, milk to be used in cheddar cheese  
4 production. CDFA hearing testimony has  
5 documented the use of UF milk in cheddar plants  
6 in California. Because the protein in the UF  
7 milk would typically be concentrated to three  
8 times the concentration in raw milk but the  
9 lactose remains at roughly the level of raw  
10 milk, the protein to SNF, or solids not fat,  
11 ratio in UF milk is very different than that in  
12 raw milk. Without knowing the protein  
13 composition in the vat, no conclusions can be  
14 drawn from the CDFA yield data.

15 In addition, Mr. Yale references the  
16 CDFA Class 4b assumption that 0.27 pounds of  
17 whey butter is produced and implies that it is  
18 reflective of a 92.67 percent fat capture rate  
19 in cheddar cheese. This is an error in three  
20 ways. First, Mr. Yale assumes 3.68 pounds  
21 beginning fat per hundredweight whereas the  
22 CDFA formula states explicitly that it is  
23 premised on 3.72 pounds milk fat per  
24 hundredweight. Secondly, Mr. Yale does not  
25 translate the whey butter yield to the pounds

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2 of fat used to produce that butter. At the  
3 82 percent fat content assumed in the USDA  
4 formulas, the .27 pounds of whey fat would be  
5 generated from .22 pounds of fat. But most  
6 importantly --

7 Actually, I should make a correction  
8 in that sentence. The .27 pounds of whey,  
9 instead of fat that should be butter. So the  
10 sentence should read, At the 82 percent fat  
11 content assumed in the USDA formulas, the  
12 .27 pounds of whey butter would be generated  
13 from .22 pounds of fat.

14 But most importantly, a portion of  
15 the fat that is not accounted for in the whey  
16 butter assumption may be assumed by the state  
17 to have been lost in the manufacturing process.  
18 Therefore, there is no basis for the  
19 conclusions drawn by Mr. Yale on this point.

20 In contrast, expert witness Dean  
21 Sommer was very clear that 90 percent remains  
22 an appropriate fat capture assumption. He  
23 testified that extensive multi-year studies  
24 conducted at the Alto Black Creek and Waupun  
25 plants showed fat captures ranging seasonally

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2 from 89 to 91 percent (transcript page 2339).  
3 He was also able to rely upon his extensive  
4 exposure to other plant operations given his  
5 current position as a Cheese and Food  
6 Technologist at the University of Wisconsin  
7 Center for Dairy Research. He elaborated that  
8 it is important to measure the fat in the  
9 finished cheese, as opposed to assuming that  
10 all of the fat that is not in the whey at draw  
11 is in the finished cheese. The sources of loss  
12 outside of the vat include the milk silos  
13 (transcript 2340), clarifiers (transcript  
14 2341), start-up/change-overs/shut down  
15 (transcript 2341), cheese fines (transcript  
16 2342), salt whey (transcript 2344), and  
17 equipment surfaces (transcript 2344).

18 Mr. Sommer's conclusion that  
19 90 percent remains an appropriate assumption  
20 for the percentage of fat captures in the  
21 cheese (transcript 2339) was confirmed by the  
22 testimony of cheddar plant operators regarding  
23 their own operating experiences, including  
24 Timothy Greenway, Foremost Marshfield,  
25 90.25 percent, in his testimony found at

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2 transcript 1528; Dennis Shad, Land O'Lakes at  
3 the Kiel plant, Hearing Exhibit 55, pages three  
4 to four; and Jon Davis, Davisco, 90 to  
5 90.5 percent, found at transcript page 1591.

6 Opposition to setting the fat credit  
7 in the protein formula at a level below the fat  
8 capture factor embodied in the cheddar yield  
9 factor. The proposed amendment to set the fat  
10 credit rate in the protein formula below the  
11 fat capture rate in the cheddar yield formula  
12 should be rejected. In setting it at a lower  
13 rate, the effect is to value some volume of fat  
14 twice. For example, if 90 percent of the fat  
15 is priced in the formula at the cheddar value,  
16 then it is necessary to ensure that it is not  
17 also priced at the butter value. Since  
18 Class III fat is priced at the butter value, a  
19 credit for the price must be incorporated in  
20 the protein formula. This concept holds  
21 whether or not a farm to plant loss has been  
22 incorporated in the yield equation.

23 The following table shows how the  
24 fat would be accounted for if, as Mr. Yale  
25 proposes, the fat credit in the protein formula

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2 is reduced to 89.4 percent to reflect the fat  
3 capture in cheddar after the farm to plant  
4 losses are considered. The beginning farm fat  
5 level is 3.5 percent, but through the  
6 combination of farm to plant loss, the fat  
7 priced at the cheddar value, and the fat priced  
8 at the butter value, a total of 3.5209 pounds  
9 of fat per hundredweight would be accounted for  
10 and subjected to a minimum price. In other  
11 words, Mr. Yale's proposal would account for  
12 and price 0.0209 more pounds of fat than is  
13 actually contained in the original farm milk.  
14 This is clearly not sound policy.

15 I include in my testimony a table  
16 that starts with the farm composition of  
17 3.5 pounds and accounts for .0088 pounds in the  
18 farm to plant loss allowance, the 0.15 pounds  
19 of fat in the fat that's lost due to cling to  
20 surfaces between the farm and the plant. Then  
21 in terms of the fat that's captured in the  
22 curd, a number that we have seen before, the  
23 3.1286 pounds of fat, and that's the fat  
24 delivered to the vat times the 90 percent  
25 capture rate. Then finally, using his

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2 89.4 percent fat credit at the butter value, it  
3 comes down to .3685 pounds of fat that's valued  
4 at the butter value, showing that the total  
5 accounted for under that proposal would be the  
6 3.5209.

7 Correction of butterfat component

8 yield to 1.211. One point that I believe  
9 Mr. Yale is correct on is that the existing  
10 application of loss assumptions in the fat  
11 component formula is inconsistent with the  
12 application of the loss assumptions for the  
13 other components. Specifically, I believe that  
14 the fat losses in butter were intended to be  
15 calculated as follows, and I have a table  
16 showing the calculation with two columns. The  
17 current column starts with one pound of fat at  
18 the farm and applies the quarter percent loss  
19 to that pound of fat, but then, rather than  
20 applying the 0.15 pounds of fat that's lost in  
21 the farm to plant churn on a per hundredweight  
22 basis it applies it per pound and that is how  
23 it is applied to the existing formula, and so  
24 that drops us down to a volume delivered to the  
25 plant of .9825 pounds, and taking that and

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2 blowing it out with the yield factor that's  
3 based on a fat composition and butter  
4 assumption of 82 percent, we come up with  
5 1.198, which I believe is the premise of the  
6 1.2 in the current formula, whereas in the  
7 rightmost column I have an approach which would  
8 be consistent with other components' approach  
9 which starts with a 3.5 pounds, still applies  
10 the quarter percent volume loss, but applies  
11 the 0.15 pound loss due to cling again to the  
12 full volume of 3.5 pounds. Using the same  
13 yield assumptions it comes up with the same  
14 1.211 yield factor that Mr. Yale came up with.

15 The current factor was premised upon  
16 0.015 pounds loss per pound fat rather than per  
17 hundred pounds of milk.

18 JUDGE PALMER: Excuse me for a  
19 second.

20 (Interruption in the  
21 proceedings.)

22 A. Having clarified this point, I will  
23 stop short of endorsing the Yale proposal to  
24 increase the butter yield assumption because I  
25 believe that in-plant losses due to fat

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2 clinging to stainless are inevitable in butter  
3 production, in the same way as they are  
4 inherent to the cheese manufacturing process.  
5 Therefore, rather than endorse the proposal to  
6 increase the butter yield, I urge USDA to  
7 reflect realistic in-plant losses in both the  
8 Class III and Class IV formulas.

9 Opposition to increasing the cheddar  
10 yield of protein factor from 1.383 to 1.405.

11 Leprino strongly opposes an increase in the  
12 protein yield factor from 1.383 to 1.405. This  
13 proposal is erroneously premised on an argument  
14 that the percentage of casein in true protein  
15 in milk is 83.25 percent. However, the  
16 83.25 percent suggested by the proponents is  
17 not based upon actual tests of casein levels in  
18 raw milk. Rather, it is an estimate based upon  
19 several rules of thumb, each of which is  
20 inaccurate and introduces additional errors.

21 Obviously, the best way to determine  
22 the proper assumption for the percentage of  
23 casein in true protein in milk is to measure  
24 it. That is, laboratory tests should be  
25 performed on the milk and the casein percentage

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2 in the true protein should be determined.

3 Due to the complexity of casein  
4 testing, this direct testing is not done  
5 routinely in the dairy industry. However,  
6 several university studies of this matter have  
7 been completed over the years by experts in  
8 milk chemistry, and they provided the basis for  
9 the current formulas, which are based upon the  
10 percentage of casein in true protein being  
11 82.2 percent. There's no reason whatsoever to  
12 change this number.

13 Specifically, one of those  
14 university experts who performed these studies  
15 is Dr. David Barbano. He testified at the May  
16 2000 Class III and IV formula hearing and  
17 specifically addressed this issue.

18 JUDGE PALMER: Excuse me. How  
19 are you doing? You have been reading for a  
20 long, long time. Do you want a break or do you  
21 want to keep going?

22 MS. TAYLOR: Why don't I  
23 complete this section and then perhaps we can  
24 take a quick break.

25 JUDGE PALMER: Go ahead.

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2 Thank you.

3 A. Dr. Barbano indicated that the  
4 82.2 percent casein in true protein is  
5 reflective of milk he had studied.

6 That conclusion was based upon data  
7 presented by Dr. Barbano at the 1999 Cornell  
8 Nutrition Conference for Feed Manufacturers  
9 entitled "Trends in Milk Composition and  
10 Analysis in New York," the relevant tables of  
11 which are Addendum C to my testimony. Table 2  
12 shows casein as a percent of true protein on  
13 the fifth line of numbers from Dr. Barbano's  
14 1984 study of milk from 50 cheese plants across  
15 the country. On an annual average basis,  
16 casein comprised 81.95 percent true protein.  
17 Table 8 provides casein as a percentage of true  
18 protein for milk that Dr. Barbano studied from  
19 three large cheese factories in New York State  
20 from 1992 to 1998. The number ranged on an  
21 annual average basis from 82.12 percent to  
22 82.42 percent, and the seven-year average was  
23 82.22 percent.

24 To the best of my knowledge, this  
25 data was then, and remains today, the most

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2 complete and accurate data available measuring  
3 casein as a percent of true protein. As a  
4 dairy economist, I believe it represents the  
5 best data available to USDA upon which to base  
6 this aspect of the minimum milk pricing  
7 formulas.

8 This kind of actual laboratory  
9 testing of milk to determine composition is  
10 clearly far superior to the estimation method  
11 using rules of thumb that is used by the  
12 proponent of Proposal 8. The Yale rules of  
13 thumb include the assumption that casein as a  
14 percentage of crude protein is 78 percent, and  
15 that there is .19 non-protein nitrogen in crude  
16 protein. Yale Exhibit 33, page DDD, and  
17 testimony transcript page 2224 to 2225. But  
18 the Barbano studies showed that both  
19 assumptions are not quite correct. Table 6  
20 shows that non-protein nitrogen varies year to  
21 year from .187 to .196 and averages .192, and  
22 Table 9 shows that casein as a percentage of  
23 crude protein averaged 77.19 percent over the  
24 seven-year study period.

25 This only confirms that the simplest

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2 and most logical approach to take in setting a  
3 pricing formula based in part on the percent  
4 casein in true protein is to actually measure  
5 that percent, which is exactly what USDA has  
6 done and should continue to do. The .822  
7 factor should not be changed.

8 MR. ROSENBAUM: Shall we take  
9 a break now, Your Honor?

10 JUDGE PALMER: Yes, we'll take  
11 a break, and we will take it for 20 minutes.  
12 So it is now actually 1:30. So we will be back  
13 ten of.

14 MR. ROSENBAUM: 2:30.

15 JUDGE PALMER: Did I say 1:30?  
16 I meant 2:30.

17 (Recess taken.)

18 JUDGE PALMER: Back on the  
19 record. We were at page 28 of the statement,  
20 also referred to as Exhibit 69.

21 MS. TAYLOR: Prior to starting  
22 back in the statement I would like to make one  
23 clarification.

24 JUDGE PALMER: Sure.

25 MS. TAYLOR: It wasn't

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2 contained in my written comments, but on  
3 page 12, as I went through the table at the  
4 top, I commented that the average Grade AA  
5 butter price that was used in that table was  
6 the CME price. In fact, it was the NASS price.  
7 Now I will resume my testimony on page 28.

8 Opposition to Proposal 3 (Dairy  
9 Producers of New Mexico make allowance  
10 proposal). We also strongly oppose Proposal 3,  
11 submitted by Dairy Producers of New Mexico,  
12 which seeks to reduce the manufacturing  
13 allowances. Our position on make allowances  
14 has been elaborated at length in our testimony  
15 and comments associated with the 2006 hearing  
16 and have not changed. There is simply no basis  
17 for reducing those make allowances as Proposal  
18 3 suggests.

19 Opposition to Proposal 13 and 15  
20 (DFA and Dairy Producers of New Mexico's  
21 proposals to narrow the cheddar price series).  
22 Leprino opposes the adoption of the proposals  
23 that narrow the price survey base for the  
24 commodity prices that are used in the Class III  
25 and IV formulas.

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2 We understand that support for  
3 proposal 13, submitted by Dairy Farmers of  
4 America and Northwest Dairy Association, has  
5 been withdrawn by the proponents. However,  
6 since it was a noticed proposal, I believe it  
7 is important to articulate, at least in a  
8 cursory way, our concerns about it. The  
9 proposal calls for the narrowing of the price  
10 survey used to establish the cheddar price used  
11 in the Class III protein formula by eliminating  
12 the cheddar barrel price.

13 We support the inclusion of barrel  
14 cheddar in addition to blocks because of the  
15 additional volume that is captured. We  
16 generally believe that greater volume improves  
17 the survey as a price discovery mechanism.  
18 However, if the complexity of including the  
19 cheddar barrel price results in erroneous  
20 inflation of the cheddar price through the use  
21 of an add-on in combination with adjusting the  
22 barrel survey price upward from a 39 percent  
23 moisture price, elimination of the barrel  
24 prices from the formulas is preferable. The  
25 elimination of the 3 cent barrel add-on, as

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2 proposed by IDFA in this proceeding, will  
3 address our concern and will remove the need to  
4 eliminate barrels from the price series.

5 Opposition to Proposal 16 (National  
6 All-Jersey reallocation of other solids value  
7 proposal). Although we applaud National  
8 All-Jersey's efforts to think outside the box  
9 with Proposal 16, we oppose it due to the  
10 distortions that will result across components.  
11 Specifically, the proposal shifts the value  
12 from a product whose yield is driven largely by  
13 one component, lactose and other solids, to a  
14 different component, protein. Since the  
15 lactose variability in milk is much lower than  
16 the protein variability in milk, this transfer  
17 will not equate with manufacturing economics at  
18 certain milk component levels. Additionally,  
19 the proposal transfers revenue between breeds  
20 in a way that is not fully justified.

21 I should clarify -- this is not in  
22 my written statement -- that although the  
23 effect is this transfer across breeds, it also  
24 has the effect of transferring revenue within  
25 breeds. The real effect is being driven by the

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2 shift of a product to a component whose yield  
3 does not relate directly to that product,  
4 specifically protein.

5 Comments on Proposal 17 (National  
6 Milk Producers Federation energy index  
7 proposal). Our primary concern with National  
8 Milk Producers Federation's energy indexing  
9 proposal is the potential impact on futures  
10 liquidity. Risk management tools are vitally  
11 important to our customers, and we oppose  
12 proposals that threaten their liquidity.  
13 Liquidity depends upon attracting a sufficient  
14 number of participants on both the purchase and  
15 sales side of futures contracts. The  
16 unpredictability that would be added by the  
17 addition of an automatic energy cost adjustor  
18 to the Class formulas would increase the  
19 riskiness of futures contracts and decrease  
20 participation in the sale and purchase of those  
21 contracts. We believe that the increased basis  
22 risk that will result from adoption of Proposal  
23 17 would reduce both customer and speculator  
24 liquidity. Both are critical to maintaining  
25 successful risk management tools.

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2 JUDGE PALMER: Have we had any  
3 testimony about the use of futures markets in  
4 respect to cheese makers at all? I wonder if  
5 she wants to explain that. We may have some  
6 directive so that --

7 MR. ROSENBAUM: Dr. Yonkers I  
8 know covered this in his testimony as well.

9 JUDGE PALMER: And you feel  
10 satisfied that it has been covered?

11 MR. ROSENBAUM: I think we're  
12 satisfied.

13 JUDGE PALMER: All right.  
14 Fine. Go on.

15 A. Comments on Proposal 20 (Dairylea  
16 Proposal). We applaud Dairylea for thinking  
17 outside the box relative to the circularity  
18 conundrum in the current Class III formula.  
19 However, because the proposal would leave  
20 minimum milk price formulas unchanged  
21 regardless of increases in manufacturing costs,  
22 it would make it impossible for federally  
23 regulated handlers to obtain the revenues  
24 necessary to pay for those costs, unless they  
25 were able, acting individually, to convince

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2 their customers to pay those cost increases  
3 through a price premium.

4 However, it is difficult to believe  
5 that it is possible to extract the premium from  
6 the marketplace when alternative sources of  
7 product exist on the CME or in unregulated  
8 areas. Furthermore, if unregulated or state  
9 regulated cheese makers did also extract the  
10 additional premium from their customers, they  
11 would have no incentive to list it separately  
12 on their invoices or report it separately, as  
13 Proposal 20 would require, in order for the  
14 premium to be excluded from the calculation of  
15 the product price for purposes of setting the  
16 regulated minimum milk price. In fact,  
17 unregulated or state regulated cheese makers  
18 would in all likelihood choose to disadvantage  
19 their competitors by reporting the higher price  
20 as part of the NASS survey, which would under  
21 the Federal Order, Federal Milk Order formulas,  
22 immediately translate into a higher regulated  
23 minimum milk price applicable to their  
24 federally regulated competitors.

25 Proposal 20 would be an experiment

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2 whose success would be quite unlikely and whose  
3 failure would have profoundly negative impacts  
4 on federally regulated handlers and ultimately  
5 their suppliers.

6 Comments on Dairy Producers of New  
7 Mexico Impact Estimates. In attempting to  
8 justify his various proposals on behalf of the  
9 Dairy Producers of New Mexico, et al., Mr. Yale  
10 presented analyses that he contended showed  
11 that the changes in the Class III and IV price  
12 formulas made since 2001 reduced producer  
13 income by, on average, \$13,245 per producer.  
14 While I have already pointed out the various  
15 flaws in Mr. Yale's proposals, I feel it  
16 important also to show the errors in Mr. Yale's  
17 economic analyses.

18 Mr. Yale's analyses incorporate two  
19 major errors. The first is in the calculation  
20 of the baseline Class III price using the 2001  
21 formula. The second is in the calculation of  
22 the pool value at test.

23 The error in the Class III formula  
24 resides in the protein price calculation under  
25 the "changed" column. Specifically, Mr. Yale's

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2           calculation on Table KK of Exhibit 33 provides  
3           credit for only 90 percent of the Class III fat  
4           price. However, the 2001 formula, as it  
5           existed and is represented on Table D in  
6           Exhibit 33, credited the entire Class III fat  
7           price. The impact of the error in Mr. Yale's  
8           formula is that the protein price is overstated  
9           by 17.18 cents per pound protein on Table KK of  
10          Exhibit 33, and the Class III price at -- that  
11          should be "at test" on the written statement  
12          instead of "at Class," is overstated by  
13          51 cents per hundredweight milk in the baseline  
14          period.

15                   An additional error was incorporated  
16          into Mr. Yale's analysis through his incorrect  
17          methodology to calculate the Class prices at  
18          test. Although I have not been able to  
19          replicate his calculations, it is clear from  
20          looking at the formulas that he lays out  
21          (Exhibit 32, page 12) that his calculation  
22          erroneously multiplies the protein value, in  
23          the case of Class III, by the skim percentage  
24          in Class III and the SNF value, in Class IV, by  
25          the skim percentage in Class IV. Presumably,

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2       the skim percentage multiplier was borrowed by  
3       Mr. Yale from the methodology used to calculate  
4       the 3.5 percent standardized price based upon  
5       the price of 100 pounds of skim. In this  
6       situation, the 96.5 percent factor is used to  
7       reflect that 100 pounds of milk with 3.5  
8       pounds fat can only contain 96.5 pounds of  
9       skim. But the calculation at test should be  
10      based upon the actual pounds of each component  
11      multiplied by the respective component price  
12      for that component. That is how minimum milk  
13      prices paid into the pool are actually  
14      established. Mr. Yale's failure to use actual  
15      Class prices means that this analysis of  
16      minimum milk prices only reflects 96.31 percent  
17      of the Class III protein value at test, and  
18      94.79 percent of the Class IV SNF at test.

19                   I have recalculated Table KK using  
20      the same methodology as was used by Mr. Yale  
21      with the exception of correcting the errors  
22      noted. I have also added some detail for  
23      clarity. My analysis shows that Mr. Yale's  
24      conclusion that producers had lost 56 cents of  
25      their revenue stream through regulated milk

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2 price formula changes since 2001 is grossly  
3 overstated; the impact of the regulatory  
4 changes using his methodology with the correct  
5 price formulas is a reduction of 17 cents per  
6 hundredweight milk. This analysis is attached  
7 as Addendum D.

8 Additionally, I have observed that  
9 because of the complexity of changes that have  
10 occurred in the Class III formula, the impact  
11 of those changes varies dramatically by market  
12 condition. For example, replicating the same  
13 analysis using 2004 market prices shows that  
14 producers would have received more in 2004  
15 under the current price formulas than they did  
16 under the 2001 formulas. That analysis is  
17 attached as Addendum E.

18 The same errors in the methodology  
19 to calculate milk prices at test and estimate  
20 the planned impact are made in Tables LL, OO,  
21 AAA, BBB, EEE, TTT, VVV, WWW, ZZZ, AAAA, DDDD,  
22 EEEE in Exhibit 33.

23 Q. Ms. Taylor, before we move on, why  
24 don't we look at Addendum E just briefly so you  
25 can help explain a little bit what you did.

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2 Actually, why don't we look at both D and E,  
3 which are back to back.

4 Starting with Addendum E, that is  
5 your reproduction of Mr. Yale's analysis from  
6 Exhibit 33, Table KK, but using the correct  
7 assumptions as to what the 2001 formula  
8 actually provided and also the correct  
9 methodology for calculating what the actual  
10 minimum price is; is that right?

11 A. That's correct.

12 Q. And that shows that the decline is  
13 only 17 cents, not the 56 cent decline that  
14 Mr. Yale calculated; is that correct?

15 A. That would be correct.

16 Q. And then Addendum E is you took  
17 things a step further and looked to compare  
18 what the impact of the 2001 formulas versus the  
19 current formulas were if one used 2004 market  
20 scenarios -- the actual market prices as they  
21 existed in 2004; is that correct?

22 A. That is correct.

23 Q. And the bottom line is the last one,  
24 value per producer, correct, where you show  
25 that under the current formula the value per

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2 producer is \$357,100; is that correct?

3 A. That's correct.

4 Q. Versus under -- if the 2001 formula  
5 had been in effect, the value would have been  
6 about \$3,000 less; correct?

7 A. I believe it would be --

8 Q. Or is that \$300?

9 A. \$300 greater under the current  
10 formula than under the formula that existed in  
11 2001, yes.

12 Q. The point here is that the changes  
13 in formulas from 2001 to today have not  
14 resulted in substantial declines in producer  
15 revenues; is that right?

16 A. That would be correct.

17 Q. And, in fact, for some years it  
18 would be an increase in producer revenues;  
19 correct?

20 A. That would be correct.

21 Q. That is what Addendum E is all  
22 about?

23 A. Yes.

24 Q. Why don't you continue back to  
25 page 32 of your testimony, please.

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2 A. Comments on Dairy Producers of New  
3 Mexico contention that producers are paying for  
4 higher yields at plants through the make  
5 allowance. Mr. Yale erroneously assumes that  
6 the yield assumed in the Class III formula is  
7 impacting the underlying cost studies that are  
8 considered in setting the make allowances  
9 (Exhibit 32, page 29). He implies that the  
10 total plant costs determined in the cost  
11 surveys are divided by the yield factors in the  
12 formulas which he believes underrepresent  
13 actual yields. Taken in combination, dividing  
14 plant costs by a low yield, he contends,  
15 results in a higher make allowance.

16 In fact, the yields used in the  
17 Class III formula are not used to translate  
18 total plant costs into costs per pound.  
19 Rather, the actual yields of the plants are  
20 used in that process. Therefore, Mr. Yale's  
21 argument is without merit.

22 Other Conceptual Observations. The  
23 adoption of end-product pricing in January 2000  
24 has certainly shifted the discussion to a  
25 technical arena regarding manufacturing costs

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2 and yields. This change has created a new  
3 focal point for the discussion of the equitable  
4 sharing of revenue between producers and  
5 processors. Mr. Yale even observed that the  
6 "determinative factor in the cost to make  
7 cheese and other dairy products" --

8 Let me start that quote again. The  
9 "determinative factor is the cost to make  
10 cheese and other dairy products, not how much  
11 it costs to produce milk, or even if producers  
12 receive sufficient money to cover their costs."  
13 From hearing Exhibit 32, page three.

14 Other witnesses have suggested an  
15 inequity between producers and processors  
16 because they contend that processors have a  
17 guaranteed cost of production coverage through  
18 the make allowance and producers' cost of  
19 production is not reflected in the pricing  
20 system.

21 Although I share the misgiving with  
22 Mr. Yale that we no longer have a sufficient  
23 pool of milk that is untouched by minimum  
24 pricing to establish a competitive pay price  
25 series that would eliminate the need to get

1                   S. Taylor - Direct

2       into the technical minutia associated with  
3       end-product price formulas, I am concerned that  
4       some participants in this proceeding and many  
5       dairymen have lost the broader perspective on  
6       the end-product price formulas.

7                   End-product prices do reflect the  
8       intersection of farm level economics with  
9       demand, because the commodity prices that are  
10      part of the pricing formulas reflect supply and  
11      demand. Using current price formulas, the  
12      gross product value (before being reduced by  
13      make allowances) of Class III milk has moved in  
14      an \$11.48 range during the period since January  
15      2000. The gross product value (before being  
16      reduced by make allowances) of Class IV milk  
17      has moved in a \$6.62 range during the period  
18      since January 2000. Although end-product  
19      demand has been part of this equation, this  
20      price volatility has primarily been driven by  
21      raw milk supply issues. It is through these  
22      marketplace responses to supply and demand  
23      situations that producers garner a revenue  
24      stream that sustains their economic viability.  
25      Squeezing processors by another 20 or 40 cent

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2 per hundredweight through too small make  
3 allowances, too large yield factors or price  
4 surveys that overvalue finished products in  
5 parts of the country is not what will keep the  
6 producer sector healthy.

7 But too large yield factors, or  
8 price surveys that overvalue finished products  
9 in parts of the country will cause the  
10 processor sector to be unhealthy. And that  
11 lack of health will be manifested in lack of  
12 investment in plant capacity to process the  
13 milk that supply and demand signals are asking  
14 to be produced. When the gross value of  
15 finished products moves from \$12 to \$23, the  
16 manufacturer of cheddar and whey achieving  
17 average yields does not get any larger margin.  
18 If the margin is insufficient in a \$12 gross  
19 value, it is also insufficient at a \$23 gross  
20 value. Ultimately, it is in the best interest  
21 of the producer sector to have a vibrant and  
22 competitive processing and manufacturing sector  
23 that develops innovative products that  
24 consumers like and creates a greater demand for  
25 their raw milk. Setting regulated prices too

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2 high diminishes the interest and ability of  
3 processors to make such investments and results  
4 in foregone demand, benefiting neither producer  
5 nor processor.

6 The most important place in the  
7 system for supply and demand signals to be  
8 exerted is where the decisions are made  
9 regarding whether to produce or not; that is to  
10 say, price signals are critical at the farm.

11 Although supply and demand signals at the  
12 processor level certainly have some value, they  
13 are largely muted by the existence of multiple  
14 classes and the pooling of revenues.

15 Therefore, in a macro sense, the processor role  
16 in the system becomes one of being a conduit to  
17 transform the raw milk that is produced into  
18 the products the market is demanding. This is  
19 an important distinction when thinking about  
20 why it is not inequitable or bad policy to have  
21 a manufacturing allowance in an end-product  
22 pricing system.

23 MR. ROSENBAUM: At this point  
24 I would ask that Exhibit 69 be received into  
25 evidence.

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2 JUDGE PALMER: Any objections?

3 It is received.

4 (Exhibit No. 69 was received  
5 into evidence.)

6 MR. ROSENBAUM: Ms. Taylor is  
7 available for cross-examination.

8 JUDGE PALMER: Yes. Do we  
9 have questions?

10 MR. YALE: Your Honor, may I  
11 make a suggestion?

12 JUDGE PALMER: Yes.

13 MR. YALE: In light of the  
14 fact that Mr. Smith and Mr. Vetne are not  
15 here and we have some other prepared  
16 statements, maybe we ought to just get those  
17 in, and that way there is no disadvantage to  
18 them or their clients and we could move the  
19 hearing along.

20 JUDGE PALMER: Well, that  
21 seems reasonable enough. Does anybody object  
22 to that thought? We had one witness who came  
23 up to me before who wanted to give a statement.  
24 Where is he?

25 You said you would like to give

1 S. Taylor - Direct

2 another statement. I don't see any reason why  
3 not to.

4 So why don't you step down for a  
5 moment and this gentleman will come back up.  
6 Do you have it ready with you?

7 MS. PICHELMAN: Your Honor,  
8 before we have another witness, I wanted to  
9 move that Exhibits 66, 67 and 68 also be  
10 received into evidence, please.

11 JUDGE PALMER: You are free to  
12 do that. I had forgotten. Thank you.

13 MS. PICHELMAN: Thank you.

14 (Exhibit Nos. 66, 67 and 68  
15 were received into evidence.)

16 JUDGE PALMER: We will mark  
17 this as 70.

18 (Exhibit No. 70 was marked for  
19 identification.)

20 JUDGE PALMER: Mr. Wolfe, if  
21 you would just come around and raise your right  
22 hand. You were sworn before but we will do it  
23 again.

24 -----

25

1 B. Wolfe - Direct

2 BRYAN WOLFE

3 a witness herein, having been first duly sworn,  
4 was examined and testified as follows:

5 JUDGE PALMER: This is Bryan  
6 Wolfe who is testifying on behalf of Ohio  
7 Farmers Union. Go ahead, sir.

8 DIRECT EXAMINATION

9 - - - - -

10 MR. WOLFE: My name is Bryan  
11 Wolfe. I'm a dairy farmer from Ashtabula  
12 County, Ohio. I am president of the  
13 Ashtabula/Geauga/Lake County Farmers Union, and  
14 I'm also vice president of the Ohio Farmers  
15 Union. My economic well-being and that of  
16 dairy farmer members of Ohio Farmers Union,  
17 which I represent, are tied to farm milk prices  
18 and the Federal system under which milk is  
19 priced.

20 JUDGE PALMER: Let me just  
21 note that we have marked your statement as  
22 Exhibit 70. Go ahead. Keep going, sir.

23 MR. WOLFE: Why are we here?  
24 According to the USDA Economic Research Service  
25 publication, "The Federal Milk Marketing Order

1 B. Wolfe - Direct

2 system was set up in the 1930s when milk  
3 producers had few market alternatives for their  
4 milk highly perishable products other than  
5 their local milk handlers. They were often  
6 essentially captive to unfair buying practices  
7 by local milk dealers. Federal Milk Marketing  
8 Orders were designed to level the playing field  
9 by returning some market power to the  
10 producers."

11 Is there anyone here today who  
12 believes the Federal Milk Marketing System is  
13 still working to return market power to the  
14 producers? We would welcome any indications  
15 which could support the idea that market  
16 equity, fairness or power are being returned to  
17 the producers.

18 Until the early 1980s, farm milk  
19 price did have some relationship to the market.  
20 This was assured by way of parity pricing.  
21 Since the early 1980s, the consumer price has  
22 continued to track the market for all items.  
23 The farmer's share of the consumer's dollar has  
24 been consistently trimmed, while the slice of  
25 the pie taken by those between the dairy

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2 farmers and the dairy consumers has grown ever  
3 larger. This could only happen under a serious  
4 lack of market power by producers.

5 Today's hearing is a result of an  
6 original request by Agri-Mark to increase make  
7 allowances for Class III and Class IV products.  
8 Although Agri-Mark represents itself as a  
9 farmer-owned co-op within the Federal Milk  
10 Marketing System, according to a judicial  
11 decision in Shaw versus Agri-Mark, it is not  
12 simply a co-op representing farmers, but it has  
13 its own legal status as a Delaware corporation.

14 Therefore, Agri-Mark's relationship  
15 to farmers is legally ambiguous, but its legal  
16 status as established by the courts is clearly  
17 corporate. This ambiguity helps to explain why  
18 farmer-owned co-ops could pursue a modification  
19 to the Federal Milk Marketing Orders which runs  
20 counter to the interests of its producers.  
21 Most of the other co-ops' behavior suggests  
22 that they do not consistently represent the  
23 economic interests of producers.

24 It is a matter of simple observation  
25 and a matter of fact that this hearing process

1                   B. Wolfe - Direct

2       consistently declines to consider proposals  
3       submitted which would return equity, balance  
4       and market power to producers.

5                   Ohio Farmers Union submitted a  
6       proposal to AMS which would have restored some  
7       market power to producers and at the same time  
8       be reflective of markets as a whole. Any  
9       sustainable market system must consider a broad  
10      range of market factors, including the cost to  
11      produce that product, plus a profit. These  
12      price signals, along with reasonable  
13      processing, distribution and marketing costs,  
14      would be passed on to the final consumer.

15                  The Ohio Farmers Union proposal was  
16      a three-prong pricing plan. The first part  
17      takes price signals from regional farmers cost  
18      of production. This concept is basic and is  
19      reflected in the 1937 Agricultural Adjustment  
20      Act, Section 608 C18. The second part takes  
21      price signals from the spot product markets.  
22      Finally, the third part considered retail price  
23      signals to the consumer. In that way it was  
24      very much a market-oriented plan.

25                  USDA AMS rejected Ohio Farmers

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2 Union's proposal out of hand, with no  
3 opportunity being offered to further develop or  
4 refine those items upon which USDA had rejected  
5 the proposal.

6 In hindsight, that was not  
7 surprising. Throughout this series of Federal  
8 Milk Marketing Order hearings, USDA has  
9 consistently ignored any proposal which  
10 includes the consideration of the cost of  
11 production for producers. Meanwhile, it has  
12 consistently acknowledged and accepted  
13 proposals which consider the cost of operation  
14 for corporate entities.

15 Section 608 C18 specifically states,  
16 "The Secretary of Agriculture, prior to  
17 prescribing any term in any market agreement or  
18 order, or amendment thereto, relating to milk  
19 or its products, if such term is to fix minimum  
20 prices to be paid to producers or associations  
21 of producers, or prior to modifying the price  
22 fixed in any such term, shall ascertain the  
23 parity prices of such commodities."

24 The press release for this hearing  
25 says, "Washington, D.C., May 4, 2007 - The U.S.

1 B. Wolfe - Direct

2 Department of Agriculture today announced that  
3 it will reconvene a national public hearing to  
4 consider proposals seeking to amend the Class  
5 III and Class IV product price formulas  
6 applicable to all Federal Milk Marketing  
7 Orders."

8 A case was filed in Ohio, Federal  
9 District Court, on behalf of several dairy  
10 producers to prevent the Federal Milk Marketing  
11 Orders make allowance changes. Their plea was  
12 denied. Considering the precedents in evidence  
13 during this hearing process, such a result  
14 might have been expected.

15 What was unexpected, however, was  
16 USDA's dismissive attitude toward the economic  
17 impacts on farmers in this case. USDA's motion  
18 states, "Plaintiffs cannot even bring  
19 themselves to admit that the higher make  
20 allowances benefit many manufacturers of milk  
21 products (such as cheese and butter) who are no  
22 longer bound by higher minimum prices. Nor do  
23 plaintiffs acknowledge that lower minimum  
24 prices, milk prices, also translates into a  
25 cost savings for consumers of milk and milk

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2 products. Plaintiffs likewise ignore the  
3 projected savings to the public of an estimated  
4 \$7 million a year as a result of reduced  
5 government outlays."

6 In his decision, Judge Jack Zouhary  
7 quotes Section 608 C18 completely on page 6 of  
8 his decision, which says in part, "The prices  
9 which it is declared to be the policy of  
10 Congress to establish in Section 2 of this  
11 title shall, for the purposes of such  
12 agreement, order, or amendment, be adjusted to  
13 reflect the price of feeds, the available  
14 supplies of feeds, and other economic  
15 conditions which affect market supply and  
16 demand for milk or its products in the  
17 marketing area to which the contemplated  
18 marketing agreement, order or amendment  
19 relates."

20 Obviously, neither the judge nor  
21 USDA seems to be concerned about the price of  
22 feeds or the relationship of the market areas.  
23 USDA seems to hang their hat on other economic  
24 conditions. Those other economic conditions  
25 can only be guessed at. However, the "other

1 B. Wolfe - Direct

2 economic conditions" do not seem to relate to  
3 returning some market power to producers, as  
4 mentioned by the USDA ERS.

5 Any reasonable person might think  
6 that if this law was being taken seriously,  
7 there would be some discussion of parity, which  
8 translates into cost of production.

9 As a matter of fact, this series of  
10 hearings seems to be about assuring corporate  
11 profitability by taking money from farmers.  
12 USDA's economic analysis proves that.

13 This series of hearings began when  
14 the on-farm milk prices, adjusted for  
15 inflation, was entering its darkest days. USDA  
16 seems not to care. USDA even underreports the  
17 NASS price survey for dairy products, further  
18 eroding the producer prices. The final chapter  
19 has yet to be written in what the actual price  
20 for non-fat dry milk really should have been.

21 Likewise, the final decision has yet  
22 to be written on the subject matter of this  
23 hearing. However, one could easily conclude  
24 that these hearings are not about any economic  
25 benefits or market equity for dairy farmers.

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2 It is easy to get the impression that the  
3 hearings are about protecting the profits of  
4 dairy processors and billable hours of lawyers.  
5 Clearly, the interest of neither farmers, nor  
6 the milk consuming public, is served. Thank  
7 you.

8 JUDGE PALMER: Are there any  
9 questions? You may step down. Thank you, sir.

10 What other statements do we want to  
11 take? Let's go off the record.

12 (Discussion held off the  
13 record.)

14 JUDGE PALMER: On the record,  
15 we're going to recess for such time as  
16 Mr. Metzger needs to get a statement for him to  
17 read.

18 (Recess taken.)

19 JUDGE PALMER: I didn't get a  
20 motion as such from Mr. Wolfe to receive this  
21 statement. Is there any objection to the  
22 receipt of Exhibit 70, Mr. Wolfe's statement?

23 MR. YALE: No.

24 JUDGE PALMER: All right. It  
25 is received.

1 E. Metzger - Direct

2 (Exhibit No. 70 was received  
3 into evidence.)

4 ERICK METZGER

5 a witness herein, having been first duly sworn,  
6 was examined and testified as follows:

7 JUDGE PALMER: Now we are  
8 marking as 71 Mr. Metzger's statement.

9 (Exhibit No. 71 was marked for  
10 identification.)

11 JUDGE PALMER: Mr. Metzger,  
12 would you give us -- actually, I guess you can  
13 just read your statement. You have got all the  
14 information you need in it, including your  
15 name.

16 MR. METZGER: Thank you, Your  
17 Honor.

18 DIRECT EXAMINATION

19 - - - - -

20 MR. METZGER: My name is Erick  
21 Metzger, and I serve as general manager of  
22 National All-Jersey, Incorporated. I have  
23 provided previous testimony at this hearing.

24 National All-Jersey, Incorporated,  
25 seeks to expand Proposal 2 submitted by

1 E. Metzger - Direct

2 Agri-Mark to include the products of whey  
3 protein concentrate and lactose in the annual  
4 manufacturing cost surveys should Proposal 2 be  
5 enacted by the Secretary.

6 Several witnesses at the two  
7 previous sessions of this hearing have  
8 testified to the profitability challenges being  
9 experienced by cheese plants given the  
10 extraordinary increase in dry whey prices since  
11 last fall, combined with the fact that dry whey  
12 prices no longer serve as an equitable proxy  
13 for whey protein concentrate values. Many of  
14 these same witnesses have requested that  
15 "something" be done about whey valuations in  
16 the Class III price formula. Yet no proposals  
17 to value whey solids on any products other than  
18 dry whey were received in advance of the  
19 September 30, 2006, deadline for submitting  
20 proposals for this hearing.

21 Subsequent conversations among  
22 industry personnel have included the concepts  
23 of incorporating whey protein concentrate  
24 and/or lactose prices into product price  
25 formulas. However, no data exist from the

1 E. Metzger - Direct

2 current manufacturing plant cost surveys on  
3 which to base a manufacturing allowance for  
4 either product. NAJ offers this amendment to  
5 Proposal 2 in order to begin to build a dataset  
6 of manufacturing costs for WPC's and lactose  
7 that might be used at a future Dairy Programs  
8 hearing.

9 In the same vein, NAJ further  
10 proposes that the weekly National Agricultural  
11 Statistics Service, NASS, dairy product price  
12 surveys be expanded to include whey protein  
13 concentrates and lactose. Dairy Market News,  
14 published by the USDA using data collected by  
15 Dairy Programs, reports prices for a variety of  
16 products, including WPC's and lactose.  
17 However, the Dairy Market News reports a price  
18 range for these products, and industry  
19 personnel typically use the midpoint of the  
20 range as that week's price. By building a  
21 dataset of NASS prices for WPC's and lactose,  
22 the industry will be better equipped in the  
23 future to submit and debate proposals on how to  
24 include these products in price formulas to  
25 value whey solids other than only using dry

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2 whey.

3 WPC34 serves as an industry standard  
4 product for whey protein concentrate. Table 18  
5 in the Dairy Market Statistics 2006 Annual  
6 Summary (appended to this statement) provides a  
7 commonly recognized product definition and  
8 price reporting format for WPC34. NAJ proposes  
9 that the parameters used by Dairy Market News  
10 when gathering and reporting WPC34 prices for  
11 Table 18 also be used to determine  
12 manufacturing plant eligibility for the annual  
13 cost survey, if adopted from this hearing, and  
14 by the NASS to survey prices for WPC34.

15 Likewise, Table 23 in the Dairy  
16 Market Statistics 2006 Annual Summary (appended  
17 to this statement) provides a commonly  
18 recognized product definition and price  
19 reporting format for lactose. NAJ proposes  
20 that the parameters used by Dairy Market News  
21 when gathering and reporting lactose prices for  
22 Table 23 also be used to determine  
23 manufacturing plant eligibility for the annual  
24 cost survey, if adopted from this hearing, and  
25 by the NASS to survey prices for lactose.

1 E. Metzger - Direct

2 The entire Dairy Market Statistics  
3 2006 Annual Summary is published at  
4 [www.ams.usda.gov/dairy/mncs-dy20070525annual](http://www.ams.usda.gov/dairy/mncs-dy20070525annual)  
5 [summary.pdf](http://www.ams.usda.gov/dairy/mncs-dy20070525annual). If Code of Federal Regulation  
6 definitions are needed for whey protein  
7 concentrate and lactose, NAJ proposes to  
8 use the definition for lactose given in  
9 21 CFR, Chapter 1, Section 168.12 (appended to  
10 this statement) to determine both the plants  
11 eligible to be included in the manufacturing  
12 cost surveys and the NASS price surveys. While  
13 many versions of WPC's are produced, WPC34  
14 serves as an industry standard. 21 CFR,  
15 Chapter 1, Section 184.1979c (appended to this  
16 statement) gives a broad definition for whey  
17 proteins concentrate products. NAJ proposes  
18 that the subset of WPC's testing a minimum of  
19 34 percent protein be used to determine both  
20 the plants eligible to be included in the  
21 manufacturing cost surveys and the NASS price  
22 surveys.

23 JUDGE PALMER: Does that  
24 conclude your written statement?

25 MR. METZGER: That concludes

1                   E. Metzger - Cross by Mr. Beshore  
2           my written statement.

3                   JUDGE PALMER: And you have  
4           some exhibits attached?

5                   MR. METZGER: Yes.

6                   JUDGE PALMER: All right. Is  
7           there any objection to the receipt of Exhibit  
8           71, the statement? There doesn't appear to be  
9           any so it is received.

10                   (Exhibit No. 71 was received  
11           into evidence.)

12                   JUDGE PALMER: Questions?  
13           Mr. Beshore.

14                   MR. BESHORE: Marvin Beshore  
15           for DFA and Dairylea.

16                   -----

17                   CROSS-EXAMINATION

18                   BY MR. BESHORE:

19                   Q. Erick, in your view are there enough  
20           sellers and manufacturers of the products on  
21           which you want data to be collected to support  
22           a nonconfidential database for those products?

23                   A. I wouldn't know explicitly, but  
24           apparently confidentiality hasn't been a  
25           problem from the standpoint of those prices

1 E. Metzger - Cross by Mr. Yale

2 being reported in Dairy Market News.

3 Q. Okay. Have you checked with NASS or  
4 AMS with respect to their views of the  
5 viability of collecting that data?

6 A. No, I have not.

7 Q. In terms of your operations with  
8 your duties with All-Jersey and your knowledge  
9 of the industry, do you think there are more  
10 than two processors, sellers of those products,  
11 so that you wouldn't have confidentiality  
12 issues?

13 A. Yes, I would believe there are more  
14 than two.

15 MR. BESHORE: Thank you.

16 JUDGE PALMER: Other  
17 questions? Mr. Yale.

18 MR. YALE: Ben Yale on behalf  
19 of Select Milk Producers, Inc., and Continental  
20 Dairy Products, Inc., and Dairy Producers of  
21 New Mexico.

22 -----

23 CROSS-EXAMINATION

24 BY MR. YALE:

25 Q. Mr. Metzger, as part of National

1 E. Metzger - Cross by Mr. Yale

2 All-Jersey's function, do you negotiate  
3 formulas or work with producers to negotiate  
4 formulas for the buyer of this milk?

5 A. Occasionally, yes.

6 Q. Do you collect information on what  
7 plants are paying for their milk on a regular  
8 basis?

9 A. In a manner of speaking, yes. On a  
10 limited scale.

11 Q. Are you aware of the formulas being  
12 used in Idaho right now?

13 A. Specifically, no.

14 MR. YALE: Okay. No other  
15 questions.

16 JUDGE PALMER: Any other  
17 questions? Yes, sir.

18 MR. BROWN: Michael Brown with  
19 Northwest Dairy Association. This is my  
20 first -- do you want me to give my address or  
21 just wait for my testimony?

22 JUDGE PALMER: Did you enter  
23 an appearance?

24 MR. BROWN: Yes. I submitted  
25 testimony last week.

1 E. Metzger - Cross by Mr. Brown

2 JUDGE PALMER: You gave  
3 testimony. Why don't you give your full name  
4 and address.

5 MR. BROWN: Okay. Michael  
6 Brown with Northwest Dairy Association,  
7 1130 Reinier, R-E-I-N-I-E-R, Avenue, Seattle,  
8 Washington.

9 JUDGE PALMER: We will take  
10 that as an entry of appearance and also allow  
11 you to question the witness. Go ahead, sir.

12 -----

13 CROSS-EXAMINATION

14 BY MR. BROWN:

15 Q. Just one quick question, Erick.  
16 Based on -- I think this may have been in your  
17 prior testimony, but based on your analysis and  
18 looking at the processing of whey, do you  
19 believe there's as much whey used to make WPC's  
20 as there is to dry?

21 A. What our analysis showed, and it was  
22 in Exhibit, I believe, 43, was that there are  
23 actually more whey solids going into the  
24 concentrated forms of whey products than are  
25 going into dry weigh.

1 E. Metzger - Cross by Mr. Brown

2 Q. Given that, would you expect that  
3 there's likely enough plants making dry whey to  
4 provide for an anonymous survey?

5 A. Yes, I would.

6 MR. BROWN: Thank you. That's  
7 all I have.

8 JUDGE PALMER: Very good. Any  
9 other questions? Anything you wish to add,  
10 sir?

11 MR. METZGER: No. Thank you.

12 JUDGE PALMER: All right.  
13 Fine. Let's take a ten-minute recess to see  
14 what's happening.

15 (Recess taken.)

16 - - - - -

17 MARK W. STEPHENSON, Ph.D.

18 a witness herein, having been first duly sworn,  
19 was examined and testified as follows:

20 JUDGE PALMER: We now have  
21 Dr. Mark Stephenson from Cornell University on  
22 the stand. Doctor, you have just been sworn,  
23 and we are going to mark your statement as  
24 Exhibit 72.

25 (Exhibit No. 72 was marked for

1 Dr. Stephenson - Direct  
2 identification.)

3 JUDGE PALMER: So marked for  
4 identification. Now if you would proceed to  
5 give your statement.

6 DR. STEPHENSON: Thank you,  
7 Judge Palmer.

8 DIRECT EXAMINATION

9 - - - - -

10 DR. STEPHENSON: Judge Palmer  
11 and personnel of the AMS Dairy Programs, I am  
12 appearing before you to offer a summary of  
13 recent research projects in which I collected  
14 data on and summarized the costs of processing  
15 in cheese, whey, butter, and non-fat dry milk  
16 plants. I am not here to advocate for or  
17 against any particular policy action but,  
18 rather, to offer my insights into the current  
19 cost environment for dairy processors. This is  
20 a summary of my work and does not represent an  
21 official statement of Cornell University.

22 Cornell University has been  
23 conducting cost of processing studies in the  
24 dairy industry for more than 30 years. Over  
25 the past 20 years, work by the Cornell Program

1 Dr. Stephenson - Direct

2 on Dairy Markets and Policy group includes  
3 studies on the cost of processing cheese, whey,  
4 butter, and non-fat dry milk powder and fluid  
5 milk, footnoted on pages two and three of the  
6 testimony, myself having authored a number of  
7 those studies. This project assesses the costs  
8 of processing in cheddar cheese, dry whey,  
9 butter, and non-fat dry milk plants and builds  
10 on the knowledge and background of these  
11 earlier efforts. I was asked by dairy plants  
12 who participated in the previous project to  
13 re-run the analyses with more recent data.

14 Plant Selection. In the previous  
15 project, participating plants were selected on  
16 the basis of a random draw stratified by plant  
17 size. Because the time was short between the  
18 request to update the study and this hearing,  
19 the plants who were previously asked to  
20 participate were the only plants asked to  
21 participate again. This strategy had multiple  
22 advantages. One advantage is that plants were  
23 already familiar with the process of data  
24 collection. It also allows an opportunity to  
25 examine changes in processing costs in

1 Dr. Stephenson - Direct

2 same-plants from a previous time period.

3 There were 21 plants who responded  
4 with data, and of those plants, 19 submissions  
5 were deemed to have data without problems and  
6 are included in this study. The other two  
7 plants will correct their data and send it in,  
8 but too late for inclusion in this summary. Of  
9 the 19 plants, 11 processed cheese, 7 processed  
10 dry whey, 4 processed butter, and 7 processed  
11 non-fat dry milk.

12 Plants were asked to submit data  
13 corresponding to their most recently completed  
14 fiscal year. This ranged from the last  
15 quarter, beginning in the last quarter of 2005  
16 through the second quarter of 2007. The bulk  
17 of the observations occurred during the  
18 calendar year of 2006. Figure 1 shows the  
19 temporal dispersion of the data in this report.

20 Data Collection. The previous  
21 project detailed the data collection and  
22 summary methods. It may be instructive to  
23 remind folks that the data collection used a  
24 computer program developed to build a  
25 questionnaire based on responses to previous

Dr. Stephenson - Direct

questions. For example, first identifying products produced at the plant generated subsequent questions about the package sizes and the monthly production of the individual products, and identifying package sizes then generated questions about the packaging costs for those particular containers, et cetera. When surveys are complete, they're submitted as an e-mail attachment or directly from within the program.

Methodology for collection and summary of the data closely follows industry-accepted practices of the California Department of Food and Agriculture, CDFA. Anywhere plant expenses can be directly allocated to particular products, plants are asked to do so. A good example is utility expense where individual electric or gas meters can be recorded and assigned to a product line such as cheese or powdered products. Some expenses must be indirectly allocated to products.

As per CDFA's procedure, any cost that cannot clearly be assigned to a single

Dr. Stephenson - Direct

product line is apportioned according to the percent of milk solids processed in the various product lines. For example, a plant that brought in 100 pounds of raw milk and processed it into cheese, dry whey and whey cream might have sold 5.85 pounds of solids (fat and solids-not-fat) in the cheese, 6.12 pounds of solids in the dry whey and .2 pounds of solids in the whey cream. This would mean that \$10,000 of unallocated electricity would be apportioned as \$4,807 to cheese, \$5,029 to dry whey, and \$164 to whey cream. Any other costs which are unallocated to specific product lines are apportioned indirectly in the same way as the electric cost example.

Direct allocation is, of course, best. But, the allocation by solids is generally a workable compromise where the detail is not available. In a butter-powder plant that sells only butter and non-fat dry milk, it is possible that indirectly allocated costs may be too heavily assigned to one of the products. However, all of the expenses of the plant are accounted for in the butter and

1 Dr. Stephenson - Direct

2 non-fat dry milk cost estimates.

3 A more serious problem with indirect  
4 allocation can exist when products that are not  
5 reported in the study have received an  
6 inappropriate weighting of an expense. This  
7 occurred in the previous study but was caught  
8 between the publication of the working paper  
9 and the testimony that I gave. I opined at the  
10 testimony that the allocation change appeared  
11 to be unique to a single butter-powder plant.

12 Plants that sell a significant  
13 portion of total solids as intermediate  
14 products can fall into this allocation problem.  
15 For example, a butter-powder plant that sells a  
16 large amount of cream or skim milk, or even  
17 condensed product, can overstate the indirectly  
18 allocated expenses for those products and thus  
19 underestimate the true costs of producing  
20 butter or powder. Upon examination, more than  
21 the single plant from the previous testimony  
22 had this problem to a lesser, but significant  
23 degree. The attempt has been made to correct  
24 this problem this time in the summary.  
25 Ultimately, directly allocating expenses on the

1 Dr. Stephenson - Direct

2 part of plants eliminates this problem.

3 Processing Cost Results. Although  
4 there were a reasonable number of plants  
5 participating in this data collection, I will  
6 not list them as groupings of low and high cost  
7 plants to assure confidentiality of individual  
8 plant data. I am reporting the weighted  
9 average costs by categories which correspond to  
10 CDFA's reports on manufacturing costs.

11 Table 1 shows the weighted average  
12 processing costs for the 11 cheese plants  
13 participating in the project and Figure 2 shows  
14 the breakdown of the costs.

15 Let me just read a couple of the  
16 lines on Table 1. The first line is the  
17 weighted average summary of this particular  
18 study. The pounds of cheese averaged by the  
19 plants were a little over 118 million pounds  
20 annually. The labor costs were 4 cents per  
21 pound, the energy costs were 1.65 cents per  
22 pound, ingredient costs 2.51 cents per pound,  
23 packaging costs 2.38 cents per pound, repairs  
24 and depreciation and a few other costs were  
25 3.34 cents per pound, general and

Dr. Stephenson - Direct

administrative costs were .76 cents per pound, return on investment 1.19 cents per pound, for a total of 15.84 cents per pound.

The last time when these costs were reported, we had plants in the survey that averaged a little over 60 million pounds of cheese processed, and labor costs were 4.35 cents per pound, 1.74 cents per pound for energy, ingredient costs were 1.47 cents per pound, packaging 1.98 cents per pound, repairs and depreciation 4.46 cents per pounds, general and administrative costs 1.26 cents per pound, return on investment 1.12 cents per pound, for a total of 16.38 cents per pound.

Table 1 also shows the weighted average costs from the project offered in the previous testimony. It may be noted that the total processing costs reported actually declined from the previous summary. However, it should also be noted that there are three large plants that are included in the current summary that were not included in the last report because their data was submitted too late for inclusion. Please note that the

Dr. Stephenson - Direct

average annual pounds of cheese processed nearly doubled from the previous report. There are eight plants which participated in both projects and allow a plant-by-plant comparison of the costs from the previous report and this one. Comparing the same plants shows that processing costs have actually increased about 1.7 cents per pound since the last study.

Table 2 shows the weighted average processing costs for the seven dry whey plants participating in the project and Figure 3 shows the breakdown of those costs.

Again, reading from the table, the weighted average volume of product in the plants per pounds of whey this year was 58,722,459 pounds. The labor costs were 4.12 cents per pound, energy costs 4.24 cents per pound, packaging costs 1.46 cents per pound, repairs and depreciation 5.8 cents per pound, general and administrative 2.03 cents per pound, return on investment 2.11 cents per pound, for a total of 19.76 cents per pound.

The last time volumes were similar, a little bit smaller, at 47,394,657 pounds.

Dr. Stephenson - Direct

Labor was evaluated last time at 4.16 cents per pound, energy 3.47 cents per pound, packaging 1.08 cents per pound, repairs and depreciation 5.93 cents per pound, general and administrative costs 2.62 cents per pound, return on investment 2.16 cents per pound, for a total of 19.41 cents per pound.

Table 2 highlights that dry whey processing costs have only modestly changed since the last report. Although the average annual pounds of whey processed is larger, and there are increases in energy and packaging costs, they are somewhat offset by smaller expenses for repairs, depreciation, general and administrative and return on investment. The total costs have increased by less than half a cent per pound. The same thing is shown by the same-plant comparisons from the last collection to this one.

Table 3 shows the weighted average processing costs for the four butter plants participating in the project, and Figure 4 shows the breakdown of the costs. The processing costs for four butter plants, the

Dr. Stephenson - Direct

weighted average this time was 57,626,803 pounds per plant, the labor costs were 5.22 cents per pound, energy 1.57 cents per pound, ingredients .29 cents per pound, packaging 1.89 cents per pound, repairs and depreciation 6.62 cents per pound, general and administrative 2.04 cents per pound, return on investment .83 cents per pound, for a total of 18.46 cents per pound.

The last time reported average volume in the plants of 60,223,592 pounds per plant. Labor costs were 4.35 cents per pound, energy 1.74 cents per pound, ingredients .19 cents per pound, packaging 1.98 cents per pound, repairs and depreciation 5.74 cents per pound, general and administrative 1.26 cents per pound, return on investment 1.12 cents per pound, at the total cost of 16.38 cents per pound.

Table 3 indicates that butter plants have seen an increase in overall costs of processing, up a little more than two cents a pound. Average plant volume is similar, but labor, non-milk ingredients, repairs and

Dr. Stephenson - Direct

depreciation, general and administrative costs have all increased and are only partially offset by modest declines in energy, packaging and return on investments.

Table 4 shows the weighted average processing costs for the seven powder plants participating in the project, and Figure 5 shows the breakdown of the costs. The processing costs for seven non-fat dry milk plants included weighted average volumes of 70,142,458 pounds per year. Labor costs 3.62 cents per pound, energy 4.09 cents per pound, packaging 1.59 cents per pound, repairs and depreciation 3.72 cents per pound, general and administrative 2.17 cents per pound, return on investment 1.43 cents per pound, for a total cost of 16.62 cents per pound.

The last time the weighted average volume included -- or just the average volume in the plants was 55,066,936 pounds; labor costs were 3.39 cents per pound; energy, 3.15 cents; packaging, 1.43 cents; repairs and depreciation, 3.59 cents; general and administrative, 1.96 cents; return on

Dr. Stephenson - Direct

investment, .72 cents, for a total of 14.23 cents per pound.

All of the same non-fat dry milk plants participated in this and the previous study. However, Table 4 shows that these plants on average processed considerably more product than in the previous time period. The plants are also showing a significant increase in the weighted average cost of processing, somewhat more than 2 cents per pound. This is due in part to real increases in some costs (labor, packaging, repairs, depreciation are good examples) and in part due to the changes in the methodology of indirectly allocating costs. Energy is particularly a good example of using a better indirect allocation of costs in plants with significant sales of bulk liquid products.

In summary, in the previous study, the bulk of plant-month observations came during the 12-month time period of July 2004 through June of 2005. This time, calendar year 2006 was where I had the majority of the observations. Over that year and a half,

1 Dr. Stephenson - Direct

2 plants have continued to observe increased  
3 costs of processing. These are most pronounced  
4 in the same-plant comparisons for cheese,  
5 butter, non-fat dry milk and less so for whey  
6 processing.

7 Energy was the most common cost  
8 center increase in all products. Labor also  
9 accounted for significant increases in costs  
10 across all products; and, for most products,  
11 increases in packaging costs were also notable.

12 It is particularly true in non-fat  
13 dry milk plants that the indirect allocation  
14 method using pounds of solids can misapportion  
15 costs between products. In the last testimony,  
16 this has had the effect of understating the  
17 costs of processing non-fat dry milk. An  
18 attempt has been made to correct this problem  
19 in the summary of the data, and a procedure  
20 will be implemented to correct the problem at  
21 the point of data collection in the future.

22 If you have any questions, I would  
23 be glad to try and answer them without  
24 divulging any confidential data.

25 JUDGE PALMER: Are we just

1 M. Brown - Direct

2 going to do direct? All right. Well, direct  
3 is complete. You will be back tomorrow morning  
4 for cross.

5 Who is the next witness?

6 MR. CHRIST: Your Honor, I'm  
7 Paul Christ. My attorney is out of the room  
8 right now.

9 JUDGE PALMER: Well, we have  
10 an eager gentlemen from Seattle right behind  
11 you. Do you want to come on up now?

12 Incidentally, on the record, we will  
13 receive Dr. Stephenson's statement. It is  
14 received.

15 (Exhibit No. 72 was received  
16 into evidence.)

17 JUDGE PALMER: We will mark  
18 Mr. Brown's statement as Exhibit 73.

19 (Exhibit No. 73 was marked for  
20 identification.)

21 JUDGE PALMER: All right, sir.  
22 Please give your statement.

23 -----

24

25

1 M. Brown - Direct

2 MICHAEL L. BROWN

3 a witness herein, having been first duly sworn,  
4 was examined and testified as follows:

5 DIRECT EXAMINATION

6 - - - - -

7 MR. BROWN: My name is Michael  
8 Brown. I am the Director of Policy and  
9 Planning for Northwest Dairy Association, which  
10 is usually referred to as NDA. I am testifying  
11 on behalf of NDA. My responsibilities include  
12 milk procurement, milk marketing, and  
13 representing NDA on milk policy issues relating  
14 to pricing and other regulations. Before  
15 joining NDA in 2004, I worked as general  
16 manager of National All-Jersey, Inc., a dairy  
17 producer trade association focused on milk  
18 pricing issues, for over ten years.

19 NDA is a dairy cooperative marketing  
20 the milk of approximately 610 dairy farmers in  
21 Oregon, California, Idaho, and Washington.  
22 Approximately 500 of our producer members are  
23 part of the Pacific Northwest Federal Milk  
24 Marketing Order, Order 124. Approximately 110  
25 Grade A producers are located in the

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M. Brown - Direct

unregulated area of Eastern Oregon and Southern Idaho.

NDA conducts all of its processing and marketing operations through its subsidiary, Darigold, Inc. Darigold operates three Class 1 processing plants in Order 124, in Seattle, Washington; Portland, Oregon; and Medford, Oregon; and one unregulated Class 1 plant in Boise, Idaho. Darigold operates four dried milk product plants located at Lynden and Chehalis, Washington, and Caldwell and Jerome, Idaho. Darigold also operates a cheese/whey plant in Sunnyside, Washington, and a Class II and butter plant in Issaquah, Washington. About 80 percent of our cooperative milk supply is processed through these plants.

NDA believes that Federal Orders need to establish fair but minimum prices for producer milk used in Class III and IV manufacturing. To do this, USDA must take a view of product yields, product values and manufacturing costs that will allow the Class III and IV prices established by Orders to generate milk and milk component prices that

1 M. Brown - Direct

2 reflect the true manufacturing value of milk,  
3 but do not create undue hardship to  
4 cooperatives or other processors that  
5 manufacture the products reflected in the price  
6 formulas.

7 NDA supports consideration of  
8 Proposals 1, 2, 9, 10, 12, 14 and 17. We  
9 believe these proposals offer ways for USDA to  
10 improve the current pricing formulas and offer  
11 fair but minimum manufacturing milk prices. We  
12 oppose Proposals 3, 4, 6, 7, 8, 15 and 18. We  
13 believe they are too constrictive to meet  
14 USDA's obligation to set minimum Class pricing  
15 under the Federal Order program.

16 In my three years at NDA, I have had  
17 the opportunity to learn about our  
18 manufacturing operations, the challenges we  
19 face, and the opportunities we have to improve  
20 these operations. We believe we do an average  
21 or better job in both product yields and  
22 quality, but we also struggle with  
23 profitability in our manufacturing plants. We  
24 believe that USDA must consider NASS price  
25 surveys, USDA pricing formulas, and

1 M. Brown - Direct

2 manufacturing allowance surveys must be  
3 evaluated together in order to understand how  
4 they interact to determine milk prices. USDA  
5 must evaluate the limitations of their data in  
6 order to successfully use it to generate fair  
7 but minimum milk prices, and not cause undue  
8 harm by setting prices for milk that cannot be  
9 recovered from the marketplace.

10 Whey Cream Valuation. Our  
11 experience with whey cream sales finds a  
12 significant difference in value compared to  
13 sweet cream. All cream is generally valued at  
14 a multiple of the butter price. USDA reports  
15 multipliers for sweet cream in the Dairy Market  
16 News. Our Ingredients Division supplied me  
17 with the price multiples for whey cream and  
18 sweet cream over the past two years. Based on  
19 the CME price -- correction. Actually, I have  
20 three years of data. Based on the CME butter  
21 price, we have calculated the comparative  
22 values of our whey cream to our sweet cream  
23 sales, and the Federal Order Class III  
24 butterfat price for these periods. The product  
25 of this multiplier and the average monthly

1 M. Brown - Direct

2 Chicago Mercantile Exchange Grade AA butter  
3 price equals the value of butterfat in these  
4 products.

5 We can concur with other witnesses  
6 that consolidation in the butter industry has  
7 impacted the prices we receive for our whey  
8 cream over the past three years. On a  
9 butterfat basis, the difference in value  
10 between our whey cream and both sweet cream and  
11 Federal Order butterfat prices widened  
12 significantly from 2005 to 2006. All of our  
13 whey cream sales are FOB our Sunnyside plant.  
14 Our whey cream multiple averaged 36 percent  
15 below our sweet cream multiple during 2005 to  
16 2007. For the same three-year period, the  
17 price we received for whey cream on a butterfat  
18 basis averaged 47.4 cents lower than sweet  
19 cream and 24.4 cents below the Federal Order  
20 Class III butterfat price. After 2005, the  
21 difference became more startling. Our 2006  
22 sweet cream price averaged 56 cents higher than  
23 our whey cream sale price, and the 2006 Federal  
24 Order Class III butterfat price was over  
25 29 cents above the whey cream price. These

1 M. Brown - Direct

2 differences make the use of a lower value for  
3 whey cream the logical choice for valuing that  
4 whey cream in the Class III protein formula,  
5 and I have a chart I am going to read through  
6 here quickly.

7 The Darigold whey cream value  
8 comparisons, the difference from sweet cream  
9 and Federal Order Class III butterfat on a  
10 per-pound of butterfat basis, sales FOB the  
11 plant.

12 In 2005, our whey cream versus sweet  
13 cream, there was a .2186 difference in  
14 multiple, which resulted in a 34.89 cents  
15 difference in price, a 15.6 cent difference  
16 price between whey cream and Federal Order  
17 butterfat price. In 2006, the multiple was a  
18 negative .4578, a difference of minus .5694 in  
19 price, and again, compared to the butterfat  
20 Federal Order price, a minus 29.16 cents.

21 In 2007 that multiple was minus  
22 .4045 the whey cream versus sweet cream, which  
23 was a difference in value of 50.31 cents  
24 negative. Whey cream versus Federal Order  
25 butterfat was minus .2857 cents.

1 M. Brown - Direct

2 The three-year average on whey  
3 cream, the multiple was minus .3603, below the  
4 sweet cream multiple, which on a per pound of  
5 butterfat basis equaled minus 47.38 cents.  
6 Compared to the Federal Order Class III  
7 butterfat, three-year average was minus 24.44  
8 cents.

9 NASS versus Actual Plant Product  
10 Average Selling Prices. Product prices are an  
11 area where the NASS survey only tells part of  
12 the picture. Hard as we try, not all of our  
13 product meets the stringent NASS  
14 specifications, and we sell products below our  
15 NASS reported prices. This means that our  
16 average selling prices for all of our products  
17 are actually average below the price we report  
18 to NASS due to off-spec product.

19 We accept that our sales force may  
20 not garner prices that are always equal to or  
21 above the national NASS average. Particularly  
22 with our western location, that is not always  
23 possible. However, whether through NASS  
24 surveys, make allowances, or yield formulas,  
25 USDA currently assumes that all product

1 M. Brown - Direct

2 produced in a plant is sold at the full NASS  
3 price. Leaving some room in yield formulas and  
4 manufacturing allowances to reflect this  
5 reality is necessary to achieve the goal of  
6 fair minimum prices.

7 Off-spec product can significantly  
8 impact the total revenue a plant generates.  
9 Darigold's fiscal year 2007 business year ran  
10 from April 2006 through March of 2007. Out of  
11 our entire FY07 cheddar cheese production.  
12 96.02 percent met the NASS specs to sale at the  
13 full grade price. These cheese sales were  
14 reported to NASS. The remaining 3.98 percent  
15 of cheese included under grade cheddar, trims  
16 and fines. These products sold for a weighted  
17 average price of 21.8 cents less per pound than  
18 the cheddar meeting the NASS reporting specs.  
19 The net impact of these off-spec products on  
20 our average cheese sale price was 0.9 cents per  
21 pound, but since these sales are not reported,  
22 NASS does not recognize this difference in the  
23 average cheese value for all cheese sold. I  
24 added that last part.

25 Whey processing also results in

1 M. Brown - Direct

2 off-spec whey. 3.23 percent of our whey failed  
3 to make reportable grade and was marketed at an  
4 average discount of 29 cents per pound to the  
5 extra grade whey market. These sales were not  
6 reported to NASS. This feed-grade whey  
7 production represented 3.23 percent of our  
8 total whey production and lowered the average  
9 overall value of all of our whey sales by 0.9  
10 cents per pound compared to the average price  
11 for all NASS reported sales. This difference  
12 represents a 2.5 percent reduction off of our  
13 NASS reported price.

14 About 1.5 percent of our non-fat dry  
15 milk sales were for off-spec product in fiscal  
16 year 2007. It sold for an average value of  
17 38.9 cents less than the non-fat dry milk sales  
18 reportable to NASS, and lowered the average  
19 price of all Darigold non-fat dry milk sold to  
20 by 0.6 cents below our average NASS reported  
21 sale.

22 While USDA does not use buttermilk  
23 yields and pricing in their Federal Order  
24 formulas, they have recognized that sweet cream  
25 buttermilk is a by-product of butter

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2 manufacturing. The buttermilk yield and value  
3 is indirectly represented in the non-fat dry  
4 milk portion of the yield formulas. When we  
5 separate milk in our non-fat dry milk plants,  
6 about 4.4 percent of the total skim milk solids  
7 end up in our cream, and most of that volume  
8 eventually makes it back to the dryer as  
9 buttermilk. There is value here, but in fiscal  
10 2007 our dried sweet cream buttermilk sales  
11 averaged 3.63 cents below our average non-fat  
12 dry milk price reported to NASS.

13 Cheese and Whey Yields.

14 Manufacturers know that most of the milk  
15 components that leave the farm end up in  
16 products that a plant can sell at NASS prices,  
17 although there are also component losses in all  
18 areas of dairy product production from farm to  
19 finished product. While we do not document the  
20 step-by-step losses, our yields are impacted by  
21 this reality.

22 The cheese yield formula has  
23 enjoyed, or perhaps better described as  
24 endured, significant discussion at this  
25 hearing. There has been both plant information

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2 and theoretical speculation on yields entered  
3 into the record. I would like to add to this  
4 discussion by talking about our cheese making  
5 process at our Sunnyside plant. We make two  
6 cheese products in this plant: cheddar blocks  
7 and Monterey Jack. About 90 percent of our  
8 cheese volume is cheddar.

9 The Darigold cheddar plant in  
10 Sunnyside was opened in 1996 and uses the most  
11 modern horizontal vats in its cheese  
12 manufacturing operations. During our 2007  
13 fiscal year, we converted 1.28 billion pounds  
14 of milk into 130.7 million pounds of cheddar  
15 cheese, resulting in an average actual yield of  
16 10.22 pounds cheese per hundredweight with an  
17 average moisture of 38 percent. The milk  
18 used in the vats contained an average of  
19 3.68 percent butterfat and 3.05 percent true  
20 protein. The 10.22 percent cheese yield  
21 approximates about a 92 percent butterfat  
22 recovery.

23 In 2007, 96.02 percent of this  
24 cheese was full quality, 3.11 percent was under  
25 grade, 0.56 percent was trim, and 0.31 percent

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2 was recovered fines. Any unrecovered fines  
3 which we can't sell aren't included in these  
4 numbers. Under the current Federal Order yield  
5 formula, the predicted yield for this milk is  
6 3.68 pounds butterfat times 1.572 plus 3.05  
7 pounds true protein, that's 1.383, which equals  
8 10.00 pounds cheese. Our actual yields were  
9 plus .22 pounds per hundredweight higher than  
10 the Federal Order formula yield, reflecting a  
11 2 percent difference. Keep in mind this is a  
12 very modern, efficient plant.

13 Darigold does use some whey cream in  
14 the cheese vat at times, and its use is  
15 reflected in the yields above. However, use of  
16 whey cream does cause problems as in the  
17 manufacturing process. First of all, in our  
18 experience, the whey butterfat recovery in the  
19 cheese from whey cream is significantly lower  
20 than from fresh cream, about 75 percent  
21 compared up to 92 percent. Second, there can  
22 be quality problems in cheese when whey cream  
23 is used, particularly with soft curds. Third,  
24 many customers simply will not allow whey cream  
25 to be used in the cheese making procedure due

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2 to quality considerations. These three issues  
3 do create significant limitations on how much  
4 whey cream can be used in the vat.

5 At this time, we convert all of our  
6 whey solids into dry whey. We also purchase a  
7 significant amount of whey solids from another  
8 cheese processor in the Pacific Northwest,  
9 which we also convert to whey. This  
10 combination of internal and outside whey yields  
11 makes it more difficult to accurately pinpoint  
12 our whey yields, but we estimate our internal  
13 yield at 5.58 pounds whey per hundredweight.  
14 While we are not proud of this yield, it is  
15 much less than USDA's assumed yield of  
16 5.86 pounds at reference tests, and again, this  
17 is a yield that comes out of a modern plant.

18 Revenue comparisons from actual  
19 yields and product prices. Combining plant  
20 yields and discounts for off-spec products  
21 demonstrate how looking at the total picture of  
22 product yields, make costs and product prices  
23 must all be carefully considered in total when  
24 determining -- scratch "where" -- milk pricing.  
25 As hard as we work to maximize production of

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2 products that fully meet market specs, some of  
3 the product we manufacture is not of the  
4 quality required to return the market price.

5 As discussed above, all of our  
6 cheese is not marketed as full grade, despite  
7 our best efforts to make quality product.  
8 While our cheese production was 2 percent  
9 higher than the Federal Order yield formula  
10 would indicate, during fiscal year 2007 the  
11 weighted average value of all of our cheddar  
12 cheese was 0.7 percent lower than the price we  
13 reported to NASS. Together, these differences  
14 resulted in a net value of cheese per  
15 hundredweight that is only 1.4 percent more  
16 than predicted by assuming all USDA cheese  
17 yields and all sales sold at NASS. And  
18 remember, this is a very modern plant using the  
19 latest equipment.

20 We also do not enjoy the average  
21 NASS price for most of our products. We cannot  
22 disclose our actual average cheese sales price  
23 for competitive reasons, but like most western  
24 plants, we are selling our cheese at below the  
25 weighted average NASS cheddar price, further

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2 reducing revenue compared to USDA's "Formula  
3 Yield times NASS Price" calculations. In years  
4 like this past fiscal year, when barrel prices  
5 are higher than blocks for much of the year,  
6 our price on reported cheese is even more  
7 out-of-line with the weighted average  
8 block-barrel price.

9 We sold our whey cream for an  
10 average of 50 cents below our sweet cream on a  
11 pound butterfat basis during our fiscal year  
12 2007. Since about 8 percent of our cheese  
13 plant butterfat ends up in whey cream, we would  
14 derive 14 cents less on a hundredweight basis  
15 from our cream compared to a sweet cream sale.

16 In fiscal year 2007, our whey  
17 revenue per hundredweight now does not meet  
18 USDA assumptions. As mentioned earlier, our  
19 purchase of outside condensed whey makes it  
20 more difficult to determine our actual whey  
21 yields from our milk, but we believe it is  
22 about 5.58 pounds, or 5 percent less than USDA  
23 assumes for Federal Orders. As previously  
24 mentioned, our average whey product value is  
25 2.13 percent less. In our plant, our total

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2 whey revenue was 7.2 percent less than would be  
3 predicted by USDA's whey formula and our  
4 reported sales to NASS.

5 Again, we would emphasize that this  
6 data is from a very large modern and efficient  
7 plant that produces a quality cheese in high  
8 demand.

9 Manufacturing Cost Studies are not  
10 perfect. Manufacturing cost studies, like most  
11 business analysis, do rely on some assumptions  
12 in order to determine costs. In his testimony  
13 from the September 2006 Make Allowance hearing,  
14 Dr. Mark Stephenson noted that the 2006 CPDMP  
15 study assigns costs based on a solids  
16 allocation where no other definition was clear.  
17 After further discussion with Dr. Stephenson,  
18 we discovered that in our powder plants, cream  
19 costs were assigned as a percent of the total  
20 costs, based on butterfat solids as a percent  
21 of total solids.

22 But in our non-fat dry milk plants,  
23 cream is simply separated and stored in silos  
24 to be sold or moved to our butter churn at a  
25 separate location and count for only a small

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2 portion of the total manufacturing cost within  
3 our non-fat dry milk drying plants. These  
4 costs were not transferred to a butter churn as  
5 the butter churn is centralized and did not  
6 participate in the past survey due to its  
7 complicated nature, and the survey was not made  
8 to pick up those costs. By assigning costs to  
9 cream based on the cream percentage of total  
10 solids, much higher costs were assigned to  
11 cream than could normally be expected. This  
12 allocation assumption lowered our non-fat dry  
13 milk processing costs by about 3.6 cents per  
14 pound non-fat dry milk compared to our  
15 estimates of the actual costs, which, by the  
16 way, Mark used for his survey.

17 Our non-fat dry milk production  
18 represented 54 percent of the total product  
19 volume represented in the survey. Based on the  
20 costs that were overallocated to cream had been  
21 assigned to non-fat dry milk, corrections to  
22 our four plants would have increased the total  
23 survey make cost for non-fat dry milk by more  
24 than 1.9 cents.

25 In his new survey, as you have now

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2 heard in testimony, Dr. Stephenson will be  
3 adjusting his cost allocations to better  
4 reflect the structure of our non-fat dry milk  
5 plants. We also are supplying Dr. Stephenson  
6 the butter processing information from our  
7 centralized butter plant. Because this plant  
8 is centralized, it is large and efficient.  
9 However, we would also like to acknowledge that  
10 the movement of cream from our drying plants to  
11 this centralized plant does add about 4.2 cents  
12 to the processing cost per pound of butter.

13 Our experience with these surveys  
14 show the importance of as much data as  
15 possible, including the audited California cost  
16 survey data, which is the most meticulously  
17 collected data available to the industry.  
18 Think of the impact on non-fat dry milks that  
19 would have occurred if the California data had  
20 not been included in the analysis, and, I would  
21 add, USDA's tentative final decision on make  
22 allowances

23 We believe our plant experience  
24 underlines the need to use conservative yet  
25 realistic yields, manufacturing allowances and

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price levels when developing pricing formulas.  
We urge USDA to consider our plant experiences  
as they fine-tune the Federal Order Class III  
and IV milk price formulas. That concludes my  
testimony.

JUDGE PALMER: All right, sir.  
We're going to defer your cross-examination  
until tomorrow. Off the record for a second.

(Discussion held off the  
record.)

JUDGE PALMER: All right. Who  
else do we have?

MR. ROSENBAUM: Dr. Yonkers  
has a very short statement. He is ready to go.

JUDGE PALMER: Dr. Yonkers.

MR. ROSENBAUM: This is  
slightly revised from what is on the Web site  
so we will get you a copy.

JUDGE PALMER: All right.  
We're going to mark Dr. Yonkers' supplemental  
statement here as Exhibit 74.

(Exhibit No. 74 was marked for  
identification.)

JUDGE PALMER: I think we can

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2 proceed.

3 -----

4 ROBERT YONKERS, Ph.D.

5 a witness herein, having been first duly sworn,  
6 was examined and testified as follows:

7 DIRECT EXAMINATION

8 BY MR. ROSENBAUM:

9 Q. Dr. Yonkers, could you read your  
10 testimony, please.

11 DR. YONKERS: Thank you, Your  
12 Honor.

13 A. IDFA earlier in this hearing  
14 testified in opposition to Proposal 20, but at  
15 that time no proponent witnesses had yet  
16 testified, and we indicated that we might  
17 provide additional testimony after we had heard  
18 from the proponents. Nothing in the proponent  
19 testimony that was subsequently presented in  
20 Indianapolis changed IDFA's opposition.

21 As noted in my previous testimony,  
22 without an adequate level of make allowance, a  
23 manufacturing plant cannot continue to operate  
24 long term, as it will have insufficient funds  
25 available to pay the vital costs necessary for

1 Dr. Yonkers - Direct

2 operating the plant. For that reason,  
3 increased costs must lead to an increased make  
4 allowance.

5 Proposal 20 requires the same  
6 procedure to determine changes in cost of  
7 manufacturing as are currently utilized by USDA  
8 in deciding to change a make allowance.  
9 However, instead of using the results of that  
10 determination to change the make allowance and  
11 allow the minimum farm milk price to change so  
12 that processing and marketing costs are  
13 reflected in regulated minimum prices,  
14 Proposal 20 would leave the make allowance  
15 unchanged. It would simply identify the amount  
16 of the cost increase and require handlers to  
17 try to negotiate with their customers in an  
18 effort to recover these increased costs in the  
19 form of a surcharge added to the wholesale  
20 dairy price. If this "let's hope it works"  
21 effort fails, the processor and others like it  
22 are doomed to returns inadequate to cover their  
23 costs, given that the minimum milk prices to  
24 farmers they will continue to be obligated to  
25 make will not have been changed whatsoever.

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2 The proponent witness cited what he  
3 claimed were several examples of surcharges  
4 like the ones he envisions being attempted by  
5 manufacturers to effectuate Proposal 20.  
6 However, two of those examples are regulated  
7 charges that all regulated processors must pay,  
8 (the MilkPEP check off assessment and the  
9 Pennsylvania Milk Marketing Board over order  
10 prices), so no one can avoid having to bear  
11 them. And the third example was DairyAmerica's  
12 attempt to implement an energy surcharge on  
13 non-fat dry milk prices. But during redirect,  
14 the witness noted that even a large U.S.  
15 supplier of non-fat dry milk was only a small  
16 player in international markets. Certainly, it  
17 would be improbable if not impossible for such  
18 a small international player to change long  
19 established terms of trade by introducing a new  
20 surcharge based simply on USDA's determination  
21 that costs of processing in the U.S. allowed  
22 for such a surcharge.

23 One of the fatal flaws in Proposal  
24 20 is that processors regulated by Federal  
25 Orders face competition from not only

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2 unregulated areas and even unregulated milk in  
3 Federal Order marketing areas, but also from  
4 states like California which has its own milk  
5 price regulations and is unlikely to change its  
6 longstanding practices of changing make  
7 allowances in response to changes in costs of  
8 processing. Therefore, the examples to which  
9 the proponents point do not apply to the  
10 situation their proposal could create.

11 Handlers purchasing milk from non-federally  
12 regulated suppliers would have lower, or no,  
13 minimum milk price obligations to farmers, and  
14 would have a substantial cost advantage over  
15 federally regulated handlers. Federally  
16 regulated handlers would not find it possible  
17 simply to insist that their customers pay a  
18 surcharge. Their customers would instead go to  
19 suppliers who would be more than happy to meet  
20 their needs without the increased price.

21 One obvious alternative for a  
22 customer would be to purchase off the CME.  
23 Proponent's witness implies that this obvious  
24 choice should be ignored because longstanding  
25 price relationships between the CME and actual

1 Dr. Yonkers - Direct

2 transaction prices can be altered quite easily.  
3 IDFA is of the opinion that this might sound  
4 good in theory, but in practice would be an  
5 utter failure.

6 Take the hypothetical example used  
7 during cross-examination of the proponent's  
8 witness, where the current market situation  
9 yields a CME price of \$1.40 for cheddar cheese  
10 and USDA has determined that the costs of  
11 processing have increased by 3 cents per pound  
12 of cheese. If an example processor has a  
13 longstanding practice of pricing cheese to a  
14 customer at exactly the CME price, Proposal 20  
15 requires that handler now seek to charge that  
16 customer the CME price plus 3 cents per pound.  
17 How much common sense can it take to see that  
18 the customer, who in the past has had the  
19 option of paying \$1.40 either to the CME or to  
20 the cheese processor and chosen to buy from the  
21 cheese processor, now is faced with the  
22 alternative of paying the cheese processor  
23 \$1.43 or buying on the CME for \$1.40. The  
24 choice is no longer revenue neutral; rather,  
25 continuing to purchase cheese from the cheese

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2 processor would cost the customer 3 cents more  
3 than the going CME market price.

4 Clearly, increasing the established  
5 price relationship with the CME is not as  
6 simple in the real world as the proponent's  
7 witness wants USDA to believe. Furthermore,  
8 this hypothetical buyer has more options  
9 available to a customer than just the CME, like  
10 plants not regulated by Federal Orders in  
11 California and other areas of the country.  
12 That concludes my statement.

13 MR. ROSENBAUM: We would ask  
14 that it be admitted into evidence.

15 JUDGE PALMER: Very well. We  
16 will receive it. Oh, I should have received  
17 73. I don't think I did. 73 and 74 are  
18 received.

19 (Exhibit Nos. 73 and 74 were  
20 received into evidence.)

21 DR. YONKERS: Thank you, Your  
22 Honor.

23 MR. SMITH: Your Honor, the  
24 desk didn't give me complete copies of  
25 Mr. Christ's testimony.

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JUDGE PALMER: Somebody was collating.

MR. SMITH: That was me. I collated the complete statement.

JUDGE PALMER: Do we have another witness or is that it?

MR. SMITH: We could start out with Mr. Christ in the morning.

MR. BESHORE: Is it different than the --

MR. SMITH: It will be ten minutes extra in the morning, if I could beg the Court's indulgence.

JUDGE PALMER: All right. We will recess now until 9:00 tomorrow.

MS. PICHELMAN: Your Honor, was 72 received?

JUDGE PALMER: I received everything. Yes, 71, 72, 73.

(Whereupon, the above-entitled matter was adjourned at 4:45 p.m. this date.)

C E R T I F I C A T E

I hereby certify that the  
proceedings and evidence are contained  
fully and accurately in the  
stenographic notes taken by me on the  
hearing of the within cause and that  
this is a correct transcript of the  
same .

S/SANDRA J. MASTAY