

COPY

VOLUME VI

BEFORE THE SECRETARY OF  
THE UNITED STATES DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICES

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

National Public Hearing  
Monday, April 9, 2007  
1:12 o'clock p.m.  
Radisson Hotel Circle Centre  
31 West Ohio Street  
Indianapolis, IN 46204

BEFORE:

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

**Connor + Associates, Inc.**  
1650 One American Square  
Indianapolis, IN 46282  
(317)236-6022

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A P P E A R A N C E S

On Behalf of the United States Department of  
Agriculture:

U.S. DEPARTMENT OF AGRICULTURE  
OFFICE OF THE GENERAL COUNSEL  
MARKETING DIVISION

BY: Garrett B. Stevens, Deputy Assistant  
General Counsel

Heather M. Pichelman, Attorney

and U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
DAIRY PROGRAMS

BY: Jack Rower, Marketing Specialist  
Henry H. Schaefer, Marketing Specialist  
1400 Independence Avenue, SW  
Washington, D.C. 20250

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**A P P E A R A N C E S** (Cont.)

On Behalf of Select Milk Producers, Lone Star Milk Producers, Zia Milk Producers, Continental Dairy Products and Dairy Producers of New Mexico:

YALE LAW OFFICE, LP

BY: Benjamin F. Yale, Attorney at Law  
Ryan K. Miltner, Attorney at Law  
527 N. Westminster Street  
P.O. Box 100  
Waynesfield, OH 45896-0100

On Behalf of Agri-Mark, Associated Milk Producers, Foremost Farms, USA Land O'Lakes, Northwest Dairy Association and Michigan Milk Producers:

BY: John H. Vetne, Attorney at Law  
11 Red Sox Lane  
Raymond, NH 03077

On Behalf of International Dairy Foods Association:

COVINGTON & BURLING, LLP

BY: Steven J. Rosenbaum, Attorney at Law  
1201 Pennsylvania Avenue NW  
Washington, D.C. 20004-2401

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**A P P E A R A N C E S (Cont.)**

On Behalf of Dairy Farmers of America and Dairylea  
Cooperative:

LAW OFFICES OF MARVIN BESHORE

BY: Marvin Beshore, Attorney at Law

130 State Street

P.O. Box 946

Harrisburg, PA 17108

On Behalf of Maine Dairy Industry Association:

BY: Daniel Smith, Attorney at Law

64 Main Street

P.O. Box 801

Montpelier, VT 05601

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EXHIBIT:	MARKED	RECEIVED
27 - Federal Register Notice	1174	1177
28 - Press Release	1175	1177
29 - Certificates of Mailing	1176	1177
30 - Appendix E Documents	1177	1177
31 - National Econometric Model Documentation, April 2007	1177	1177
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1           **JUDGE PALMER:** Let's go on the record. Let  
2 me give a little preamble. All right. This is  
3 the reopening or the continuation of a hearing  
4 that we started in Cleveland, Ohio.

5           I presume we're probably going to start the  
6 transcript with pages -- are you starting the  
7 number from that or are you going to start with  
8 1?

9           **THE REPORTER:** Continuing.

10          **JUDGE PALMER:** Are you going to continue?  
11 Okay, good. So it'll be a continuation. What  
12 was the last number of the other one, anybody  
13 know?

14          **MR. SCHAEFER:** 1167.

15          **JUDGE PALMER:** There you go, you pass.  
16 1167 was the last number. So this will start  
17 with 1168 I guess.

18          And I was handed a couple of documents. Do  
19 these need to be marked?

20          These are what?

21          **MR. STEVENS:** Yes, Your Honor. Garrett  
22 Stevens, Office of General Counsel, U.S.  
23 Department of Agriculture.

24          We prepared exhibits that we want to have  
25 entered in the record, starting with the Notice

1 of Hearing.

2 **JUDGE PALMER:** What was our last exhibit  
3 number, anybody know?

4 **MR. STEVENS:** I think 28. Was it 28?

5 **JUDGE PALMER:** Everybody agree to that?  
6 I've got a sheet. Let me make sure. I've got  
7 it. The last one I've got is 26.

8 **MR. STEVENS:** All right, 27, Your Honor.

9 *(Thereupon, Exhibit No. 27 was marked for*  
10 *purposes of identification.)*

11 **JUDGE PALMER:** So the proposed -- the  
12 notice is 27, and that's the Federal Register  
13 notice of Wednesday, March 21, 2007, it's  
14 Federal Register, Volume 72, page 13219, and it  
15 tells one and all that we're going to have this  
16 reconvened hearing here in Indianapolis, whereas  
17 the first part was in Strongsville, Ohio. I  
18 keep saying Cleveland. Strongsville's a suburb.

19 Then the next one would be 28, and that's  
20 the program announcement, is it?

21 **MR. STEVENS:** Press release, yeah.

22 **JUDGE PALMER:** What is that called?

23 **MR. STEVENS:** I believe it's a press  
24 release, Your Honor.

25 **JUDGE PALMER:** Press release will be 28.

1           **MR. STEVENS:** Yeah.

2           *(Thereupon, Exhibit No. 28 was marked for*  
3 *purposes of identification.)*

4           **JUDGE PALMER:** Then the next one is a  
5 Certificate of Mailing.

6           **MR. STEVENS:** Yeah, it's got a number of  
7 pages, Your Honor.

8           **JUDGE PALMER:** Okay. And we'll make that  
9 29 in I don't know how many pages.

10          **MR. STEVENS:** We'll count them. Nine  
11 pages.

12          **JUDGE PALMER:** All right. And Certificates  
13 of Officials Notified, that's a different one?

14          **MR. STEVENS:** They're all together,  
15 Certificate of Mailing, it's all together.  
16 There are nine pages. The title page is to Dana  
17 Coale from David Walker, Certificate of Mailing,  
18 and then there are Certificate of Mailings from  
19 each of the market administrators. And then  
20 there's a Certificate of the Officials Notified  
21 from the hearing clerk. That's page 9. The  
22 first eight pages are the Certificate of Mailing  
23 from the market administrators.

24          **JUDGE PALMER:** Wait just a second. I had  
25 that number a moment ago and now I seem --



1           **MR. STEVENS:** 29.

2           **JUDGE PALMER:** I know, but I was going to  
3 add it on. Tell you what, let's start fresh  
4 with this. The first one was 27, 28, and then  
5 this one's 29. Okay. So we're through 29.

6           *(Thereupon, Exhibit No. 29 was marked for*  
7 *purposes of identification.)*

8           **JUDGE PALMER:** And then Appendix E is  
9 something different?

10          **MR. STEVENS:** Yeah. These are updated  
11 figures on the baseline and the econometric  
12 model, April 2007. The first one is --

13          **JUDGE PALMER:** It's titled Appendix E.  
14 Let's just call it Appendix E. How long does  
15 that go? That goes all the way through --

16          **MR. STEVENS:** Well, can we give it one  
17 number, Your Honor, No. 30?

18          **JUDGE PALMER:** Yes, 30 for Appendix E,  
19 which seems to be --

20          **MR. STEVENS:** It's a number of pages of  
21 text.

22          **JUDGE PALMER:** It ends on page --

23          **MR. STEVENS:** It has E numbering the pages.  
24 E-1 through 5 are the text, and then the tables,  
25 E-6 through E-31.

1           **JUDGE PALMER:** Okay.

2           *(Thereupon, Exhibit No. 30 was marked for*  
3 *purposes of identification.)*

4           **MR. STEVENS:** And then the next one we  
5 would like marked Exhibit 31. And that is,  
6 again, AMS Dairy Programs, National Econometric  
7 Model Documentation, For Model Calibrated to  
8 USDA Agricultural Baseline Projections to 2016,  
9 April of 2007, done by EAS, Office of the Chief  
10 Economist, Dairy Programs. That's 31. Is that  
11 31? Yeah.

12           **JUDGE PALMER:** That goes -- is that the  
13 last one?

14           **MR. STEVENS:** It is. That has -- that is a  
15 17-page document consisting of text and tables,  
16 so we would like that marked 31.

17           *(Thereupon, Exhibit No. 31 was marked for*  
18 *purposes of identification.)*

19           **JUDGE PALMER:** All right. Is there any  
20 objection to their receipt?

21           They're all received.

22           *(Thereupon, Exhibit Nos. 27 through 31 were*  
23 *received into evidence.)*

24           **MR. STEVENS:** Thank you, Your Honor.  
25 That's all we have.

1           **JUDGE PALMER:** Let's see. Let's take  
2 appearances just to make sure they're in the  
3 record. The court reporter will have a better  
4 feeling as to who's who when you get up, give  
5 your name, go to the microphone.

6           **MR. STEVENS:** Your Honor, I already put my  
7 name in the record. Garrett Stevens from the  
8 Office of General Counsel.

9           Heather Pichelman is here with me, who is  
10 also with the Office of General Counsel, U.S.  
11 Department of Agriculture, Washington, D.C.

12           **MR. ROWER:** Jack Rower, AMS Dairy Programs,  
13 Washington, D.C.

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

16           **JUDGE PALMER:** All right. Let's go to this  
17 side, just for the heck of it, starting with  
18 Mr. Beshore and your name.

19           **MR. BESHORE:** Marvin Beshore,  
20 B-E-S-H-O-R-E. I'm an attorney. My office is  
21 in Harrisburg, Pennsylvania. I'm representing  
22 Dairy Farmers of America and Dairylea  
23 Cooperative, Inc.

24           **JUDGE PALMER:** Anyone else at that table  
25 going to enter an appearance as such?

1 All right. Let's swing down to Mr. Yale.

2 **MR. MILTNER:** Thank you, Your Honor. Ryan  
3 Miltner with Yale Law Office in Waynesfield,  
4 Ohio, on behalf of Dairy Producers of New  
5 Mexico, Select Milk Producers, Continental Dairy  
6 Products, Zia Milk Producers and Lone Star Milk  
7 Producers.

8 And Benjamin F. Yale with our office is  
9 here as well as, and Christine.

10 **JUDGE PALMER:** Anyone else down there?  
11 Let's get Mr. Rosenbaum next.

12 **MR. ROSENBAUM:** Steven Rosenbaum  
13 representing the International Dairy Foods  
14 Association.

15 **JUDGE PALMER:** Anyone else at that table?  
16 Get back to Mr. Vetne.

17 **MR. VETNE:** Your Honor, John Vetne,  
18 V-E-T-N-E, continuing my appearance for  
19 Agri-Mark, et al., which are Agri-Mark, Land  
20 O'Lakes, Michigan Milk Producers, Foremost  
21 Farms, Associated Milk Producers and Northwest  
22 Dairy Association.

23 **JUDGE PALMER:** Anybody else have an  
24 appearance to enter? Yes, sorry.

25 **MR. SMITH:** Daniel Smith representing the

1 Maine Dairy Industry Association.

2 **JUDGE PALMER:** And then we have -- we  
3 received some motions last week that were mailed  
4 to me, I received them on Friday. And,  
5 Mr. Rosenbaum, you made the principal motion.  
6 I'll let you address it. You made the motion, I  
7 should say.

8 **MR. ROSENBAUM:** Thank you, Your Honor.

9 We filed a written motion on Friday, and I  
10 think the motion largely speaks for itself. I  
11 certainly won't waste Your Honor's time by  
12 repeating all of the arguments we advanced.

13 The motion covers two separate subjects.  
14 The first one relates to the proposed testimony  
15 by Attorney Ben Yale.

16 Your Honor, I have to say this is a new one  
17 for me. I've been practicing law for 27 years  
18 now, doing Federal Order work for 25 of those  
19 years, I think, something like that, and I've  
20 never been in a courtroom or an administrative  
21 proceeding in my life where an attorney who  
22 entered an appearance and was representing  
23 parties then purported to take the stand and  
24 testify, just never had that happen before, and  
25 I think that there's a good reason for that.

1           As the case law indicates, it really takes  
2 extraordinary circumstances for an attorney  
3 who's appearing as an attorney in a proceeding  
4 to then take the witness stand. And Mr. Yale is  
5 a fine advocate for his clients' interests.  
6 He's got perhaps as many years of experience as  
7 I do, if not that, close, but he's a lawyer in  
8 private practice just like me. He's an advocate  
9 for his clients, but neither one of us are fact  
10 witnesses or experts that can take the stand and  
11 talk about how cheese plants process things or  
12 how farmers deal with matters, and we just  
13 aren't people who should be taking the stand.

14           We can, of course, make post-hearing  
15 arguments based upon the evidence, and I think  
16 as one reads Mr. Yale's proposed testimony, it  
17 in many ways resembles post-hearing argument,  
18 and to the extent that the facts he relies upon  
19 are in evidence, he's allowed to make those  
20 arguments.

21           But I just don't see any circumstance under  
22 which he or I or any of the other of us who have  
23 entered appearances should be testifying.

24           He does have at least one other expert,  
25 Ms. Ledman, who's planning to testify. I'm not

1 entirely sure the scope of her testimony because  
2 she hasn't entered that written testimony or  
3 circulated it in advance, but Mr. Yale also  
4 presented several witnesses at the first  
5 go-round in Ohio, and so it's not as if we're in  
6 a circumstance where he is bare, so to speak,  
7 without appearing himself.

8 But we just don't see any appropriate  
9 circumstance for him to be here, and we would  
10 ask that Your Honor rule -- we've cited in our  
11 motion the basis. We would ask Your Honor to  
12 rule that his testimony is not appropriate, and  
13 that, therefore, it not be allowed.

14 The other part of our motion is a totally  
15 different subject. It relates to Your Honor's  
16 valiant effort to organize the hearing by having  
17 parties provide in advance of the hearing their  
18 written testimony, and I think Your Honor saw  
19 two goals there.

20 One is it would allow cross-examination to  
21 be sharper, more focused, and then, second, it  
22 would allow those of us who are opposing that --  
23 the proposals for which that testimony is being  
24 submitted to at least start our preparations in  
25 opposition, although Your Honor indicated that

1 you wouldn't expect the opposition testimony to  
2 be submitted in writing, at least we could be  
3 moving forward on that.

4 A number of parties met the court's  
5 deadline, we certainly did with our witnesses,  
6 but some didn't, and so what do we do about it,  
7 that's the question.

8 There really are two true experts I'm aware  
9 of who I'm particularly concerned about. One is  
10 Ms. Ledman, who's here on behalf of Mr. Yale.  
11 The other is an expert for the Maine Dairy  
12 Association.

13 **JUDGE PALMER:** Is that -- is that your  
14 witness?

15 **MR. SMITH:** Yes.

16 **MR. ROSENBAUM:** Yes. And we're not seeking  
17 to exclude them. That seems to us to be a too  
18 extreme result, but on the other hand, we are  
19 asking that that written testimony be  
20 provided -- that their testimony -- that they  
21 provide written testimony in advance and that we  
22 get it 48 hours in advance of whenever they take  
23 the witness stand.

24 You know, under that circumstance -- you  
25 know, take, for example, Ms. Taylor, who's an



1 expert who will be appearing on our side, you  
2 know, her testimony went up on the USDA Web site  
3 Monday a week ago, people had a week to prepare  
4 to cross-examine her and to consider whether --  
5 or what they might want to say in response, and  
6 I just think we're under too big a burden when  
7 we're not afforded the same opportunity.

8 As I mentioned in the motion, for example,  
9 the Maine proposal is sort of a radical idea. I  
10 don't want to argue the merits. I just mean it  
11 would be radical in the sense that it's very  
12 different than how we currently price things,  
13 and I would really like to see in advance what  
14 it is their expert says that is going to make  
15 that proposal work so I can figure out what we  
16 would say in response, so those are our two  
17 motions, Your Honor.

18 **JUDGE PALMER:** Let me go back. Let's start  
19 with the Ledman and Whitcomb testimony. I'll  
20 ask you, in the back, sir, Mr. Smith, is it  
21 possible for us to get a copy of Whitcomb's  
22 testimony before he takes the stand on Thursday?

23 **MR. SMITH:** Mr. Whitcomb's a former board  
24 member of the Association. In addition to  
25 Mr. Whitcomb, we retained Jana Magee as our

1 expert.

2 **JUDGE PALMER:** I guess it's Magee that  
3 we're talking about.

4 **MR. SMITH:** Yeah, that we're talking about.  
5 Just a little bit of background, Your Honor.  
6 The Maine Dairy Industry Association got into  
7 this hearing basically in December, I was  
8 retained in December. The formulation process  
9 for the issues involved in this have really been  
10 ongoing since last June, so we're a little bit  
11 late to the process.

12 As Mr. Rosenbaum says, the Association's  
13 proposal is somewhat radical, I would even  
14 accept the description; different, anyway, than  
15 the other proposals. The Department allowed the  
16 proposal to come in, but was unable to do the  
17 economic analysis because it was relatively bare  
18 bones because we really kind of -- we came in  
19 right during the public information process, so  
20 we're, in some sense, trying to catch up with  
21 the hearing process.

22 To the extent that we got continued from  
23 the last hearing, it was very helpful in that,  
24 as we only had two weeks' notice from when the  
25 hearing was notified to when we had to fully

1 develop the proposal and come up with the  
2 evidence in support of it.

3 In the ensuing five weeks I've been  
4 scrambling to put some flesh on bones.  
5 Mr. Whitcomb is intended to provide one part of  
6 the testimony, Ms. Magee another.

7 Ms. Magee's is the more technical piece of  
8 this, and she came on about two weeks ago. Last  
9 week her son broke his arm, so, you know, life  
10 intrudes in all of this. One of the fractures,  
11 he's in a cast over his elbow, he's six years  
12 old, so Jana called me in somewhat of a panic  
13 that she wouldn't even be able to come this  
14 week, so we've been working through that.

15 All this is just saying that the process of  
16 getting a written statement in front of  
17 everybody, I'm certainly not unsympathetic to  
18 everything that Attorney Rosenbaum said, so  
19 that's a piece of this.

20 The other piece is whether, in fact, we'll  
21 even get to Ms. Magee's testimony this week or  
22 whether we're going to be continued all the way  
23 through.

24 **JUDGE PALMER:** I hope we'll get to it this  
25 week. That was --

1           **MR. SMITH:** Well, I heard something similar  
2 the last time, but.

3           My situation is that if we're continued  
4 again, the more time I have to put this together  
5 I think benefits everybody as opposed to put  
6 something together partly, which gets to the  
7 third piece of the puzzle, which is that the  
8 proposal originally anticipated building off of  
9 what the Department did during the basic formula  
10 price hearing, so I wasn't starting from whole  
11 cloth.

12           It turns out the Department doesn't have  
13 the full record of what they did in the past.  
14 They've been extremely helpful in trying to find  
15 what they could find and we have an outline,  
16 basically, of what was done, so Jana and I are  
17 working through the outline of what was done as  
18 opposed to trying to build up a complete record.

19           So whether I can have something 48 hours in  
20 advance of Friday, I can do my level best. I  
21 would prefer a day, I'd prefer -- I'd prefer to  
22 get something in front of people, you know,  
23 quite honestly, but if the hearing's not going  
24 to get to the point of taking her testimony,  
25 then I'm not sure it serves anybody's purpose by

1           doing that, so I leave it to your discretion  
2           with all of that.

3           **JUDGE PALMER:** You're looking at her to  
4           testify on Friday --

5           **MR. SMITH:** I'm looking to her to  
6           testify --

7           **JUDGE PALMER:** -- if at all this week.

8           **MR. SMITH:** She's going to let me know at  
9           the end of today whether she can come. I left  
10          that out. She's trying to get her son in  
11          school. If he can go to school, she's going to  
12          try to come. I'll know better at the end of the  
13          day about that, and that'll obviously make a big  
14          difference as to how much she's going to be able  
15          to help me through the week getting it together.

16          If she's not able to come, then I'm  
17          scrambling to put somebody else in, and that in  
18          part depends on your decision with regard to  
19          Mr. Yale. We're in between myself and  
20          Mr. Whitcomb at that point, so.

21          **JUDGE PALMER:** Well, now we've heard from  
22          you. Let's hear from Mr. Yale, which you cover  
23          both topics. You can take the microphone if you  
24          want.

25          **MR. YALE:** I think I can --

1           **JUDGE PALMER:** You've got a good, strong  
2 voice.

3           **MR. YALE:** Go ahead, Garrett, you got --

4           **JUDGE PALMER:** I was going to let Garrett  
5 get in on this too.

6           **MR. YALE:** I want to talk just about Mary  
7 Ledman is all I want to speak about. Mr. Ryan  
8 Miltner will take care of the other issue, but I  
9 had the conversations with Mary, so it makes  
10 much better sense for me to talk.

11           **JUDGE PALMER:** Sure.

12           **MR. YALE:** At this point we don't have a  
13 prepared statement. She is going to testify  
14 only on the issue of the NASS versus the CME,  
15 not on any of the other proposals, and is going  
16 to talk about, you know, the time lag and the  
17 comparisons between what the CME is and what the  
18 NASS prices are and an explanation of how it  
19 would work with using the NASS -- or the CME  
20 instead of the NASS and some benefits in favor  
21 of it.

22           **JUDGE PALMER:** Could she get her statement  
23 in by this afternoon?

24           **MR. YALE:** I can call her when we're done  
25 here.

1           **JUDGE PALMER:** That way at least everybody  
2 can see it tomorrow. You don't get 48 hours,  
3 but at least you get the night to look at it.

4           **MR. YALE:** I can see what I can do.

5           **JUDGE PALMER:** All right. Let's do that.  
6 We'll leave both of them up in the air for a  
7 little while.

8           All right, sir, what about the testimony of  
9 Mr. Yale.

10           **MR. STEVENS:** Your Honor, this is where I'd  
11 like to make a statement, if I could.

12           **JUDGE PALMER:** Yes.

13           **MR. STEVENS:** Garrett Stevens, Office of  
14 General Counsel. We looked into this matter in  
15 the motion and Mr. Yale's testimony, and we have  
16 found a case, McDaniels -- McDaniel, I'm sorry,  
17 versus Toledo, Peoria and Western Railroad  
18 Company, 97 F.R.D. 525 (1983), District Court of  
19 Illinois, U.S. District Court.

20           It's not directly on point, but it stands  
21 for the idea that an attorney who appears as  
22 counsel for a party should not then later appear  
23 to testify as a witness. Once attorney makes a  
24 choice, the choice to appear as counsel, he  
25 waives the right to appear as a witness; kind of

1 the idea I think that was expressed earlier of  
2 picking a lane.

3 If an attorney thought he would later want  
4 to testify, he should not have agreed to  
5 represent the parties at the hearing.  
6 Withdrawing as counsel would not remedy, as his  
7 law firm continues to represent the parties  
8 here.

9 **JUDGE PALMER:** I hear you.

10 Go ahead, sir.

11 **MR. MILTNER:** Thank you, Your Honor.

12 Garrett, if I could ask, I have not read  
13 that case, I assume it's not a USDA case.

14 **MR. STEVENS:** It's not. And we're having  
15 the case faxed to us, so we'll have it hopefully  
16 in a few minutes or certainly today, and we'll  
17 certainly make it available to you.

18 **MR. MILTNER:** Okay. And if I can pull it  
19 up, I'll read through it.

20 And I had a couple points I wanted to make,  
21 Your Honor. I'll start with the ethical issue.  
22 We're Ohio counsel, obviously, and we're  
23 governed by the Model Rules of Professional  
24 Conduct.

25 Rule 3.7 states that, "A lawyer shall not



1 act as an advocate at a trial," and obviously  
2 this is an administrative proceeding and not a  
3 trial, "in which the lawyer is likely to be a  
4 necessary witness unless," and there are some  
5 exceptions. "Testimony relates to an  
6 uncontested issue; testimony relates to the  
7 value of legal services," or in particular in  
8 this case, "disqualification of the lawyer would  
9 work substantial hardship on the client."

10 Now, I'll be the first to admit that this  
11 is a first for Mr. Yale acting as a witness in a  
12 Federal Order hearing, but given the opportunity  
13 to voir dire Mr. Yale, I think you will find  
14 that he serves a dual role for our clients and  
15 has a background in the dairy industry that's  
16 unique among all the attorneys in this room.

17 For instance, he has served as the manager  
18 of a cooperative and has background that others  
19 may not bring to the Department so that they can  
20 evaluate our proposals.

21 He would also offer testimony about the  
22 services that he provides to our clients,  
23 including the proponents and the cooperatives  
24 that have sponsored these proposals, and can  
25 bring that through voir dire so Your Honor can

1 make a decision on this issue.

2 I also want to point out that while this is  
3 a first for Mr. Yale, this is not a first for  
4 Federal Milk Order hearings.

5 In particular, and I don't have -- I was  
6 not at the hearing, but I understand that at one  
7 point Mr. Vetne had appeared as both counsel and  
8 witness at a hearing for his clients.

9 In addition, it's not uncommon at all for a  
10 witness, a proponent or an opponent of a  
11 proposal, to both stand at the podium and  
12 cross-examine witnesses as an advocate and  
13 appear and present testimony as a witness.

14 Some people who have done so just in the  
15 recent past: Dr. Cryan for National Milk  
16 Producers; I believe, but I'm not positive about  
17 Mr. Wellington for Agri-Mark; Mr. Schad for Land  
18 O'Lakes has done so, including in this hearing.  
19 Gary Lee from Perry Farms I believe has appeared  
20 on both sides of the podium.

21 Clayton Galarneau with Michigan Milk  
22 Producers Association has both questioned  
23 witnesses and provided witness testimony.

24 When he was with Northwest Dairy  
25 Association, Doug Marshall, an attorney, had

1 provided witness testimony on pricing formulas  
2 in particular and served as counsel, and I  
3 believe, although I'm not positive, appeared in  
4 a subsequent piece of litigation on the issue.

5 And I also believe that Mr. Brown now with  
6 MDA has appeared for National Jersey and for MDA  
7 as a witness and a cross-examiner.

8 As I said, Your Honor, this is not an  
9 adversary proceeding. It's an administrative  
10 proceeding meant to flesh out the details of any  
11 particular proposal.

12 The ethical rule that I cited and I believe  
13 was probably referenced in the McDaniel case  
14 talks about prejudice to parties when a fact  
15 finder and trier of fact can't separate the role  
16 of an attorney and the role of an advocate.

17 I don't think that the Secretary's going to  
18 have that issue here.

19 We also in this hearing have admitted  
20 people to testify as experts, but, in fact, the  
21 Secretary always affords each witness, whether a  
22 lay witness or an expert, the due weight that  
23 their testimony is accorded. There is no  
24 special designation as an expert witness in  
25 these proceedings. It affords them no special

1 status. There's no requirement that a person at  
2 the podium need to be an attorney, nor that a  
3 person on the witness stand need be a  
4 non-attorney. We talked about that a little  
5 before.

6 Now, I want to touch on the issue of  
7 providing copies of the statement. There are  
8 some statements in the motion, Mr. Yale had  
9 advocated a particular deadline during  
10 off-the-record discussions, the motion doesn't  
11 mention that, but I believe they were  
12 off-the-record discussions, and while we  
13 attempted with all diligence to get Mr. Yale's  
14 statement before the deadline, it simply was not  
15 feasible to provide a reasonably complete copy  
16 to the other parties, and it was provided as  
17 soon as it was reasonably complete.

18 **JUDGE PALMER:** When did you provide that?  
19 When was that?

20 **MR. MILTNER:** I believe it was on  
21 Wednesday.

22 **JUDGE PALMER:** Last Wednesday?

23 **MR. MILTNER:** Yes. Certainly more than 48  
24 hours that they're asking for with regard to the  
25 other witnesses.

1           We're prepared to put Mr. Yale on for  
2 Direct testimony and Cross-Examination right  
3 now. If Your Honor chooses, we could do Direct  
4 testimony today and hold Cross-Examination until  
5 the others have had a chance to review both his  
6 statements and the exhibits.

7           **JUDGE PALMER:** Let me ask you this. You're  
8 going to have Ms. Ledman here. She's an expert,  
9 is she not? What's her background?

10          **MR. MILTNER:** She has an extensive  
11 background with the Chicago Mercantile Exchange  
12 and forward contracting, cash pricing on dairy  
13 markets.

14          **JUDGE PALMER:** Would she be qualified to  
15 pretty much give Mr. Yale's statement?

16          **MR. MILTNER:** I don't believe so.  
17 Mr. Yale's statement speaks to the other  
18 proposals. She intends to testify only on the  
19 issue of the Chicago Mercantile Exchange.

20          **JUDGE PALMER:** You don't have anybody else  
21 here that could cover this ground?

22          **MR. MILTNER:** I don't believe so,  
23 Your Honor. I know we don't have them here.  
24 And we've worked with our clients, and I think  
25 if you had the chance to voir dire Mr. Yale, you

1 would understand that he serves that role for  
2 our clients.

3 Mind you, also, in the Ohio ethical rule  
4 that I cited, an attorney in a firm may appear  
5 as a witness as long as the attorney doing the  
6 questioning is from the firm, and so in that  
7 case, I would, for instance, be able to examine  
8 Mr. Yale in a trial setting because the fact  
9 finder could differentiate between the role of  
10 attorney and --

11 **JUDGE PALMER:** I've had a couple of odd  
12 things happen in hearings. I had a -- I  
13 actually had a Government attorney, one of your  
14 former colleagues, Mr. Stevens, what was his  
15 name. Al Caney. Remember Al? Al got up --  
16 there was some disciplinary case and the next  
17 thing I know, he jumped on the stand and was  
18 giving testimony. I couldn't quite figure it  
19 out, but it happened, so we've had these  
20 confusions.

21 Apparently, Mr. Vetne, your name was  
22 mentioned here. Did you give testimony once?

23 **MR. VETNE:** Twice.

24 **JUDGE PALMER:** Twice. Mr. Beshore, what do  
25 you think?

1           **MR. BESHORE:** Well, I just wanted to  
2 comment on the second part of Mr. Rosenbaum's  
3 motion, the 48-hour rule. My clients support  
4 Your Honor's adherence to that rule and we think  
5 it's -- you know, it's important in this kind of  
6 proceeding, especially one that's as long --  
7 that's as long and involves as many people as  
8 this, that when the presiding officer reasonably  
9 uses some discretion to bring some order and,  
10 you know, greater efficiency to the proceedings,  
11 that it should be adhered to. And if, you know,  
12 if Your Honor's -- and we think it should be  
13 adhered to. It's reasonable. The experts'  
14 statements should be provided at least 48 hours  
15 ahead of time and they shouldn't testify until  
16 everybody's had 48 hours. I mean there's no  
17 point in even going through a charade of having  
18 these types of admonitions where people abide by  
19 them, you know, and meet them and then others  
20 find ways around it, such as not testifying from  
21 a written statement or something of that nature,  
22 so we support that portion of the motion.

23           I think -- the only comment I'd make, Your  
24 Honor, on Mr. Yale's testimony itself is I think  
25 that it's not an ethical issue per se. I mean

1 we're not here to propose -- or to administer  
2 the Ohio Rules of Professional Responsibility.

3 I think that the testimony -- there is an  
4 issue of competence in the sense of whether the  
5 witness is speaking just as an advocate, that  
6 is, as a person briefing the material, or with  
7 respect to specialized knowledge and personal  
8 experience, and it could well be that Mr. Yale  
9 with respect to some, much or all of it  
10 qualifies in that respect or has some ability.  
11 The suggestion in terms of voir dire I think  
12 probably could be -- could be useful.

13 **JUDGE PALMER:** All right. Well, let's talk  
14 about Mr. Yale testifying first, go backwards  
15 and do it the other way around. We sort of  
16 heard the other part and then we heard about  
17 Mr. Yale, but I think I want to talk about that  
18 first.

19 Apparently we do have some people coming to  
20 these hearings and acting in a dual role.  
21 Mr. Vetne admits to having done it twice.

22 I think it's a bad practice. I  
23 shouldn't -- I don't want to use bad. Bad's too  
24 strong a word. I think it's not a good  
25 practice. And the reason I think it's not a



1 good practice is that one of the things we try  
2 to do in these hearings is assure the dairy  
3 farmers of America that the marketing orders  
4 that we put together, the Secretary puts  
5 together that regulates their milk prices and  
6 milk checks that they're going to receive was  
7 done on a careful, thoughtful basis and consists  
8 of looking at testimony from other dairy  
9 farmers, from economists, etc., etc.

10 I think if they start thinking that it's  
11 just a lawyer's thing, where lawyers kind of get  
12 on the stand and tell you -- give you their  
13 theories and then the Secretary goes along with  
14 the lawyers, I don't think that's good for the  
15 process. I don't think it helps the marketing  
16 order process have the type of respect it should  
17 have of dairy farmers.

18 I would prefer if someone else could take  
19 the stand in Mr. Yale's place. I don't know if  
20 that can happen.

21 **MR. MILTNER:** Your Honor, we had for  
22 Strongsville attempted to line up experts to --  
23 or cooperative employees to testify on these  
24 issues. The fact of the matter is that our  
25 clients are not small, but not large

1 cooperatives, and they have neither the staff to  
2 have a staff person do these issues, nor do they  
3 have the staff to staff economists and, quite  
4 frankly, on issues relating to processing, the  
5 universe of experts is extraordinarily narrow.  
6 And if we could have avoided having Mr. Yale  
7 testify, I assure you, we would have.

8 But in our opinion, the rules do not  
9 preclude his testimony, and whether it's an  
10 ideal situation or not is one that you and I may  
11 agree on, but the rules don't prohibit it, and  
12 we would request that he be permitted to offer  
13 his testimony.

14 **JUDGE PALMER:** Well, I'm going to allow him  
15 to do so, and I'm going to do it on this basis.  
16 A, I agree with Mr. Beshore. I don't see the  
17 ethical issue here. I think we can separate out  
18 Mr. Yale's functions as an attorney from his  
19 functions as an expert.

20 I didn't realize he had managed a dairy  
21 cooperative. Was it a dairy cooperative?

22 **MR. MILTNER:** Yes, Your Honor.

23 **JUDGE PALMER:** So we will allow some voir  
24 dire to find out about the expertise. The real  
25 point then will come down to whether or not the

1 testimony he gives is entitled to be given  
2 weight, and that'll be found out I guess through  
3 the voir dire as to how much expertise he has on  
4 the subject matter.

5 Having said that, I would have preferred we  
6 didn't do it this way, but my main function is  
7 to make sure we have a complete record and that  
8 we identify in the record which materials the  
9 Secretary can rely upon and which he cannot, and  
10 provided that any factual data that Mr. Yale  
11 gives, he can show he has some kind of expertise  
12 or background for it, we'll let that be  
13 evaluated by he who writes the decision.

14 And, of course, the decision is always  
15 subject to a petition for review on the basis  
16 that it's not founded upon good and qualified  
17 evidence, so that's -- that's a problem that  
18 goes to the particular proposals you're going to  
19 be making, so if it's got an Achilles heel, it's  
20 going to have an Achilles heel. So we'll let  
21 him testify.

22 As to the other folks, I really do think  
23 they should try to get their statements in  
24 before they testify. This is Monday, it's the  
25 afternoon, we're not talking about anybody

1 taking the stand until -- I think in the case  
2 of -- let's see, what did we say.

3 I'm using the same pad I had from the other  
4 hearing.

5 Yes.

6 **MR. SMITH:** Your Honor, if I could make a  
7 suggestion. If we could revisit Ms. Magee's  
8 testimony Wednesday morning, I think at that  
9 point we'll have a better sense of what the  
10 hearing schedule looks like as to whether she's  
11 even going to get on, as well as what her real  
12 availability will be, so if we could --

13 **JUDGE PALMER:** We'll revisit Magee on  
14 Wednesday. And what about Ms. Ledman?

15 **MR. MILTNER:** We're checking right now,  
16 Your Honor.

17 **JUDGE PALMER:** All right. She's due --  
18 we're talking about her coming here tomorrow,  
19 and we could -- we could do a couple of things.  
20 We could move her over to -- we're going to have  
21 a lot of people on Wednesday. Are you checking  
22 on it right now?

23 **MR. MILTNER:** Yes.

24 **JUDGE PALMER:** Okay. Let's take a short  
25 recess until we can hear on that. Let's go off

1 the record.

2 (At this time a recess was taken.)

3 **JUDGE PALMER:** We're back on the record.  
4 We had interrupted it for a moment to see what  
5 might be the situation with Ms. Ledman and  
6 getting her statement in to us.

7 **MR. YALE:** We're going to be able to have a  
8 statement from her by later this afternoon, she  
9 said late this afternoon, in which case we can  
10 distribute it, and she'd be available tomorrow  
11 morning or Wednesday morning.

12 **JUDGE PALMER:** All right. What would you  
13 prefer, Mr. Rosenbaum? Would you prefer that we  
14 hear from her Wednesday morning?

15 **MR. ROSENBAUM:** Yes, we would.

16 **JUDGE PALMER:** Why don't we call her  
17 Wednesday morning.

18 **MR. YALE:** All right. Can I tell her that  
19 right now?

20 **JUDGE PALMER:** Yes, you can take a moment  
21 for that. I don't want to lose you again,  
22 you're the witness.

23 As I understand, the testimony -- the  
24 written testimony today, her on the stand  
25 Wednesday morning.

1           **MR. YALE:** Yes.

2           **JUDGE PALMER:** Everybody stay put this  
3 time.

4           *(A discussion was held off the record.)*

5           **JUDGE PALMER:** All right. We're going to  
6 go back on the record.

7                           **BENJAMIN F. YALE,**

8 having been first duly sworn in by the Judge,  
9 was examined and testified under oath as  
10 follows:

11           **JUDGE PALMER:** We're going to start with  
12 the voir dire, and give your name first.

13           **MR. YALE:** My name is Benjamin F. Yale, and  
14 my business address is 527 North Westminster  
15 Street, Waynesfield, Ohio, 45896.

16           **MR. MILTNER:** Thank you, Your Honor. This  
17 is Ryan Miltner again with Yale Law Office.

18 **VOIR DIRE EXAMINATION,**

19           **QUESTIONS BY MR. RYAN K. MILTNER:**

20 Q Mr. Yale, could you give for the record first  
21 your educational background.

22 A All right. I graduated from Yale College in  
23 1973, and worked for four years, really had two  
24 things I was doing. The primary money maker was  
25 working with computers and providing computer

1 processing, including some dairy clients.

2 And then I attended Ohio Northern  
3 University School of Law, and graduated there in  
4 February of 1980 and took the February bar and  
5 was admitted in May of 1980 to the Ohio bar.

6 Q You've been practicing as a lawyer since May of  
7 1980?

8 A Yes, I have.

9 Q You have background in the dairy industry?

10 A Yes. As I said, from 1973 until 1980 I was a  
11 consultant, computer consultant for National  
12 Farmers Organization, and developed their  
13 producer payroll system that was used at that  
14 time in all of the East. There was a number of  
15 orders. We developed a methodology in which to  
16 computerize what was at that time a hand system  
17 of computing -- collecting data and computing  
18 and preparing producer checks and reports in  
19 that regard.

20 And then during that period of time I was  
21 also employed full time by Fisher Cheese Company  
22 of Wapakoneta, Ohio. In that position I served  
23 as a systems analyst, and one of the tasks that  
24 we were involved in in that systems analyst is  
25 we were installing a MAPEX system, a

1 manufacturing -- I can't remember now what the  
2 term stands for, but basically it was to  
3 computerize the processing of information as far  
4 as where inventory was at, where final product  
5 was at and all the steps involved and stuff like  
6 that, and part of that was interfacing with the  
7 cheese makers and trying to find some way to  
8 take what is very much for them -- for them was  
9 very much an art and putting it in the form of  
10 something that was more objective that we could  
11 deal with the computers.

12 And then upon completion -- or admission to  
13 the practice of law in 1980, I was employed full  
14 time by the National Farmers Organization out of  
15 Celina, Ohio. We managed as a Capper-Volstead  
16 cooperative milk marketed -- everything east of  
17 Illinois and Wisconsin and south. We were  
18 involved in Maine, we had producers in Maine and  
19 New Hampshire, New York and New Jersey and  
20 Pennsylvania and Ohio, Michigan, Indiana,  
21 Kentucky, some in Tennessee. We were trying to  
22 develop some stuff in the Southeast. We had  
23 markets in all of those areas that we worked in.

24 And the responsibilities I had there, in  
25 addition to continuing to expand the



1 computerized network to a nationwide system for  
2 National Farmers, which included not just the  
3 producer reporting but the billing and some  
4 other functions, we also -- we were involved in  
5 negotiation of pricing. And my first  
6 introduction into some of the arcane issues  
7 we're talking about here with the Van Slyke  
8 formula was in the -- began in 1980 when we  
9 began a program to provide special pricing for  
10 what we call colored herds, Jerseys, Guernseys,  
11 Ayrshires, Brown Swiss, I'm sure I'm missing  
12 somebody, and to develop that, and instead of  
13 the skim butterfat program that was common, even  
14 up until recently in the rest of the system, and  
15 we started to negotiate special pricing for  
16 those producers, so I was involved in that, and  
17 in the marketing of the milk and in the pricing  
18 of the milk and the negotiation of the prices  
19 and sometimes finding a place to put a load of  
20 milk that we had no market.

21 And then also as part of that, I became  
22 very active in participating in the Federal  
23 Orders, and started -- I think my first Federal  
24 Order hearing was in June of 1980, and attended  
25 and participated in many since then.

1           So that's the experience there. I don't  
2 know where -- I mean I guess I can continue to  
3 go on.

4 Q I will ask a few more questions, but there are a  
5 couple things I want to clarify. All of the  
6 dairy-related tasks and jobs that you just  
7 described, none of that was in a capacity as an  
8 attorney per se?

9 A No, other than, you know, working with the  
10 Federal Orders, I was, you know -- I mean there  
11 was that capacity, although, as has been pointed  
12 out, the participants, active participants at  
13 the hearings, and I think more so then than now,  
14 were done by a lot of non-lawyers, so.

15 Q And when you use the term "we," we would go to  
16 Federal Order hearings, when you said "we," that  
17 was you and others, but you were involved every  
18 time you said we; correct?

19 A Yes, in those hearings in the areas in which I  
20 was involved. And there were others, National  
21 Farmers had others, I mean Mr. Beshore  
22 represented National Farmers in some of those  
23 and we worked together and I handled some and he  
24 handled some, so, yes.

25 Q Now, you started out in computers --

1 A Yes.

2 Q -- for these cooperatives and cheese companies  
3 developing producer payroll for National Farmers  
4 Organization. Did that require an in-depth  
5 knowledge of the pricing formulas and the basis  
6 for them?

7 A Yes, it did. In fact, that's why we were  
8 successful out of our office and it began to  
9 grow and they finally asked them to bring me on  
10 and go nationwide in that we were the first to  
11 be able to develop a system that could handle --  
12 at that time there were a wide variety of  
13 methods that producers were paid. We had base  
14 excess programs, as I recall, in the old eastern  
15 Pennsylvania, New Jersey, whatever the name of  
16 that order was; we had a base excess program in  
17 southern Michigan order; the Southeast had their  
18 own base excess, they're all different, and then  
19 we also were dealing with at that time when I  
20 first began three grades of manufacturing grade  
21 milk. We had canned milk, we had the others,  
22 and trying to come up with a system that was  
23 consistent for all of them, that was the task,  
24 and you had to learn how the milk was priced.

25 And then the -- we did preliminary -- I

1 never ended up drafting the program because I  
2 think they ended up closing the program, but I  
3 want to say the Black Hills or something started  
4 a component pricing back in the '70s, '80s, and  
5 we were doing some work there, but then when it  
6 came to 1980 and we started doing the colored  
7 herds, we did have to develop some system to be  
8 able to pay on a component formula because that  
9 was not what we would have been doing before.

10 Q When you talk about component pricing and  
11 colored herds, that would require a specific  
12 knowledge of protein and butterfat and other  
13 solids and the components that are at issue in  
14 the pricing formula in this hearing?

15 A Yeah. Yes. I mean it was the beginning of that  
16 process I think of component pricing that led to  
17 us -- led the industry to where we're at today.

18 Q In particular, it was important for you to  
19 quantify the value of those components?

20 A It was important to understand the value and how  
21 they interrelated and how to compute them so  
22 that there would be a fair price that the plants  
23 would pay and a fair price that the producers  
24 would receive. And then we had the added  
25 complexity that we had to pool it within

1           ourselves, within our system, and try to come up  
2           with a fair way to allocate that money to the  
3           people who produced the protein but at the same  
4           time not overcome the producers who otherwise  
5           had no -- the Holstein milk primarily.

6    Q       And as a systems analyst for the Fisher Cheese  
7           Company, was it important for you to understand  
8           the process of how they made their products?

9    A       Well, that was the real eye-opener was to find  
10           out all that went into the vat and the work that  
11           was done at that time to make those cheeses,  
12           yes.

13   Q       What kind of cheeses did Fisher Cheese make?

14   A       They made -- one of -- their more common one  
15           was -- and I know if there's anybody from Kraft,  
16           I apologize ahead of time, Fisher Cheese is no  
17           longer in business so I think I can be a little  
18           more open in this, but it was a Velveeta-type  
19           called Chef's Delight which was a processed  
20           cheese, but they also had a natural cheese  
21           division and they made -- I think mostly more in  
22           the cheddars and American style cheeses. And  
23           then they bought an awful lot of cheese and a  
24           lot of powder and a lot of products to make  
25           their various cheese products. And then they

1 were also one of the earlier people into the  
2 synthetic cheeses. They developed a number of  
3 synthetic proteins or replacements to make some  
4 artificial cheeses.

5 Q In your work with the National Farmers  
6 Organization, you did -- did you have  
7 interaction with buyers of their raw milk, the  
8 members' raw milk?

9 A Yes.

10 Q What would that entail?

11 A Well, I mean it was all kinds of things. We  
12 were always responsible for producer relations  
13 regardless of what position we were in, and  
14 dealing with the issues in terms of quality and  
15 the pricing and hauling and all of those things.  
16 You know, the producers and the processors, it  
17 was delivering a quality product and trying to,  
18 you know, meet their demands and have pricing,  
19 and also part of that was we would always get  
20 into disputes over the methodologies in which  
21 the butterfat was tested or the milk was weighed  
22 or those issues because that was an ongoing  
23 debate to make sure that we got paid for all we  
24 delivered, and obviously the plants didn't want  
25 to pay for what they didn't get delivered, so we

1           were very much hands-on approach with them.

2   Q       So things like farm-to-plant shrink, farm  
3           weights and tests, plant weights and tests were  
4           all within your job description in some regard?

5   A       Yes, I had several projects in which that became  
6           a major issue, particularly with some modeling  
7           plants that we delivered milk to.

8   Q       At some point did you cease being employed by  
9           NFO?

10  A       Yes. I stopped being employed by NFO in the end  
11          of '86, early '87, went into the private  
12          practice of law completely, although I still had  
13          a practice, I was putting in some pretty long  
14          days during that whole period of time, but went  
15          solely into the private practice of law.

16                 And in that period of time I began to work  
17                 with and organize a number of dairy  
18                 cooperatives, primarily -- well, they were all  
19                 over. I mean I formed cooperatives in New York  
20                 state and worked with them, in Pennsylvania,  
21                 Ohio, Michigan, Wisconsin, Alabama. Seems like  
22                 I'm missing some there initially. I even formed  
23                 a couple dairy cooperatives in terms of  
24                 marketing milk, one in Pennsylvania and one in  
25                 Ohio.

1           And then the practice -- and then also  
2 represented from time to time other participants  
3 in the Federal Milk Program that needed help,  
4 and those included handlers as well as  
5 producers. We had, you know, key herds and  
6 cheese plants and bottling plants all over and  
7 represented some of those in Federal Order  
8 hearings. It became very steady in terms of  
9 about all I did starting in about '94, '95 when  
10 we formed Select Milk Producers in New Mexico  
11 and Elite Milk Producers in Texas, and then  
12 those two merged and are now part of Select.

13 Q Select Milk Producers and Continental Dairy  
14 Products, do you continue to work for those two?

15 A Oh, sure. I mean, you know, my role began to be  
16 more -- it was not just the legal stuff, but I  
17 was the one that did -- right after '94 we got  
18 into the Farm Bill of 1995, and one of the hot  
19 issues in 1995 was the -- how are we going to  
20 price milk.

21           Well, let me back up. In 1993, I think it  
22 was, we had the basic formula price hearing;  
23 have I got that year right? It's getting too  
24 long. 1992 I've been told. And I represented  
25 the Wisconsin Cheese Makers at that hearing in



1       trying to come up with -- and I think our  
2       proposal there was a combination of a -- what do  
3       you call it, a competitive pay price and also  
4       some kind of end product pricing, and was very  
5       much involved in helping to develop that once I  
6       was on board with that, and then that carried  
7       forward. We got into 1995 and 1996, and we --  
8       which ended with the FAIR Act, I was involved in  
9       lobbying on the Hill and involved in where the  
10      Farm Bill was going to go, and Federal Order  
11      Reform was a big issue at that -- as we all now  
12      know in retrospect, it was a huge issue because  
13      it got us to where we're at today, and after the  
14      FAIR Act was passed in the early spring or late  
15      winter of 1996 we had this process of Fair Order  
16      Reform, and in that time I began to develop  
17      proposals for -- there was also another client  
18      that I started to work for was Dairy Producers  
19      of New Mexico. And Dairy Producers of New  
20      Mexico is comprised entirely of individual dairy  
21      farmers, there's no cooperative members. And we  
22      had a number of cooperatives that were members  
23      of Dairy Producers of New Mexico at the time,  
24      still are, but I mean there were a lot more  
25      cooperatives then, and they teamed up with other

1 similar organizations in the West and created an  
2 organization called Western Dairy Producers --  
3 Western States Dairy Producers Trade  
4 Association. And we took a very active role in  
5 participating in the informal rule making and  
6 presenting proposals to the Department, I think  
7 again kind of proposing a combination of  
8 competitive and end product pricing, but at that  
9 point end product pricing was very much a part  
10 of it, very similar formulas that we're using  
11 today, and I had to understand that.

12 So my concern and the concerns of my  
13 clients, and they were expecting from me to be  
14 able to report to, was what does this do to our  
15 bottom line, because one of the real problems  
16 with component pricing was that they could say  
17 okay, we raised the make allowance. Well,  
18 that's a bad thing for producers and a good  
19 thing for plants, and I'm saying well, it  
20 depends on how it all fits in the mix, I mean  
21 what's all in the mix, so early on I developed  
22 a -- I called it a model. After hearing  
23 Dr. McDowell at the last hearing, it was a big  
24 spreadsheet, okay. And in a way that I could  
25 look at and be able to explain to my clients

1 that if you make this change at this step of the  
2 formula, this is how it impacts you in a blend  
3 price, because producers don't receive class  
4 prices, they receive blend prices, that's all  
5 they cared about, so that was fairly involved.

6 And then we developed the model to the  
7 point that we could -- I think by the time that  
8 we stopped using it, which was after the hearing  
9 in 2000, maybe there was some follow-up to that,  
10 we could handle 54 different variables in that  
11 process, in this model I completely developed  
12 myself to understand the formulas, and then if  
13 somebody come in and says what if we change the  
14 barrel spread to one and a half cents, what's  
15 the impact, and we could run it, you know, and  
16 we could run it against at that time three or  
17 four, now it's about seven or eight years' worth  
18 of data and say this is how this would actually  
19 work into your blend price.

20 And then obviously the -- the announcement  
21 came out in April of 1999 that USDA issued a  
22 Final Decision in Fair Order Reform, and I -- my  
23 task was to analyze the impact of end product  
24 pricing that was in that formula, what that did  
25 to dairy producers and how we wanted to respond.

1           And I came out and was one of the first to  
2 announce that this was going to have a negative  
3 impact of about 50 cents on producer income  
4 compared to current formulas, and was active in  
5 explaining that and lobbying Congress and we  
6 were successful in obtaining legislation in 1999  
7 that told the Secretary you got to hold a  
8 hearing in May of 2000 to present this -- to  
9 allow people -- because that was an informal  
10 rule making hearing. And so one of the  
11 questions we had, we never really had a chance  
12 to respond to that, so Congress ordered it. We  
13 had the hearing in May of 2000. It was a  
14 five-day hearing. We had proposals from Western  
15 states and others I represented there, I  
16 understood those formulas, had to understand  
17 them back and forth, had to understand the  
18 impact of the formulas and the changes that  
19 other parties had as their proposals to change  
20 the orders. That was my responsibility, in  
21 addition to just pushing our cause and getting  
22 witnesses and getting testimony into the record.

23           And then when the Tentative Final Decision  
24 came out in the end of 2000, it was to analyze  
25 what its impact was again and make that report

1 to people. Of course, we had some more  
2 litigation over that, over the Class III, IV  
3 butterfat. One of those rare instances, Your  
4 Honor, I think everybody in the industry was on  
5 the same side of the table. That's the only  
6 time probably ever it will happen. And then  
7 after that just following the Tentative Final  
8 and the Final Decision that came out I think  
9 effective in 2003, so I was very active in all  
10 of that.

11 And then obviously as these processes  
12 began, began to be active in terms of  
13 understanding the formulas. And my job to my  
14 clients was not just to be an advocate of those  
15 proceedings, but was to analyze it and tell them  
16 what the impact was. And I put on presentations  
17 to the farmers that were members of our boards  
18 and sometimes our membership and explained how  
19 the formulas worked and what the policies were  
20 and if you do this, this is how it works and so  
21 on and so forth and came to be relied upon to do  
22 that, so that's that in the pricing formulas  
23 that we have today.

24 The cheese pricing -- well, I'll let you  
25 ask the questions, but we haven't gotten to

1 that. That's another issue.

2 Q My question is does all of that policy  
3 development and analysis that you've described  
4 throughout that process, in your experience, is  
5 that something that is predominantly done by  
6 cooperative employed economists and analysts or  
7 something that their legal counsel handles?

8 A Almost entirely on the way the formulas worked  
9 and their impact, the communications were with  
10 the men and women in the industry, both on the  
11 proprietary and the cooperative side who did  
12 that function.

13 Q So was your ability to do that type of analysis  
14 premised on your law degree or your legal  
15 representation of your clients or your work with  
16 the National Farmers Organization and Fisher  
17 Cheese and other entities in the dairy industry?

18 A I think it was -- well, obviously to be able to  
19 practice law, I think it makes you a smarter  
20 person in terms of being able to function, but.

21 Q Obviously.

22 A The -- in terms of the actual skills, I would  
23 say that they were independent of that.

24 Q Now, as you continued to represent your clients  
25 following Federal Order Reform, I want to talk

1 specifically about your work for Select Milk  
2 Producers.

3 A Okay.

4 Q Did you have the opportunity to be involved with  
5 the -- the feasibility studies and the eventual  
6 construction and ownership of a cheese-making  
7 facility?

8 A Right. I mean I had several roles in there, but  
9 I'm not going to talk about the legal role and  
10 those representations there, but because of the  
11 absolute familiarity that I had with the  
12 formulas, I -- and, by the way, one of the other  
13 things I forgot, an important part of the FAIR  
14 Act, I also worked with a group of producers out  
15 of California and actually wrote up and proposed  
16 a Federal Order for California, complete. I  
17 called it the Order 1049 I think, the 49ers,  
18 but, anyhow. And that involved understanding  
19 their formulas and trying to find a way to meld  
20 and to go into this other system.

21 But, anyhow, to answer your question, yes,  
22 on the cheese, because of the familiarity I had  
23 with the formulas and the familiarity I had with  
24 California, we began a process in 19- -- well,  
25 it was really before that, we looked at some

1 Gouda, we were going to make a Gouda plant. We  
2 actually transported the plant over from Holland  
3 and built it in Roswell, New Mexico, and  
4 produced the cheese for a while to see whether  
5 it was going to be good enough to meet the  
6 Comarco standards, but it didn't go for I don't  
7 know what reason, but the process got to be --  
8 obviously we decided that we were going to be in  
9 the business, we thought we would at that point,  
10 and it was very important to understand how  
11 these formulas worked on both sides, so one of  
12 the tasks that I did, one of the  
13 responsibilities was to develop a mathematical  
14 process, a mass balance sheet that actually took  
15 through all the products so we could identify  
16 all the products, look at where they went and  
17 began to, from that, develop pro forma balance  
18 sheets and income statements to determine the  
19 profitability of the plants, but also to begin  
20 to look at, you know, what kind of product mixes  
21 did we want to have in the plants and, you know,  
22 how much milk was going to be needed and all  
23 those other things, so that again was another  
24 model. And then we would use that both from the  
25 standpoint of where we wanted to be. Then as we



1 began to negotiate with other parties, we used  
2 that information to be able to determine whether  
3 or not, you know, we were getting a good deal or  
4 whatever, so, yes, I mean that was -- that was  
5 the carryover into that process.

6 And then went beyond just -- that was --  
7 the model then that I developed then would be --  
8 was put side by side by others who had done the  
9 same thing on the other side, and the  
10 methodologies were virtually identical, and many  
11 times we were able to -- the small things that  
12 we would have to make changes, but we could  
13 generally come to an agreement what those  
14 numbers would do.

15 And then that also evolved, we did some  
16 analysis on some other types of plants, you  
17 know, other products to see whether it was  
18 feasible to make or not and that type of thing,  
19 so.

20 Q And I think it's in the record, but Select Milk  
21 Producers is a part owner of the Southwest  
22 Cheese Company; is that correct?

23 A Select Milk is a partner in a partnership that  
24 is a part owner with Glanbia.

25 Q And Southwest Cheese?

1 A And Southwest Cheese, yes.

2 Q And the process you described was part of  
3 early -- the early beginnings of Southwest  
4 Cheese?

5 A Yes. I mean we danced with a number of partners  
6 and eventually ended up with a very good  
7 company; and not that the others weren't, but  
8 this was a very good fit.

9 Q And any of the information in your statement  
10 draws upon your professional background in the  
11 dairy industry and your general knowledge, but  
12 doesn't speak specifically about any knowledge  
13 about Southwest Cheese Company; is that correct?

14 A I've tried to remove anything in there that --  
15 and we'll explain that later on, some of the  
16 specific places we've done that, absolutely,  
17 yes. Whatever I learned there was entirely  
18 proprietary information, but the methodology  
19 that we used was consistent, and was consistent  
20 with everybody else's, so.

21 Q Is there any other background you wanted to set  
22 forth before the Department?

23 A I mean other than just understanding -- I think  
24 it's just incumbent to understand how these  
25 formulas work and all their intricacies to be

1           able to provide the information to the  
2           Department how it works.

3           I mean one of the -- so let me just share  
4           this to share with the judge's concern, and I  
5           certainly don't feel comfortable being up here  
6           as a witness, and then when the economists start  
7           asking questions of me, then I'm going to really  
8           feel the world's got turned upside down, but,  
9           you know, if you were to go to them and ask them  
10          who does your -- who understands the pricing  
11          formulas, I'd be the one, and I just play that  
12          role and it's just a dual role, and that's just  
13          the way it's evolved.

14          **MR. MILTNER:** Your Honor, to the extent  
15          that additional voir dire from others in the  
16          room is requested, we'd be willing to offer  
17          that, but we believe that Mr. Yale is qualified.  
18          To the extent he wouldn't be considered an  
19          expert, the Secretary can accord his testimony  
20          whatever weight he sees fit.

21          **JUDGE PALMER:** All right. Questions on  
22          voir dire?

23          **MR. ROSENBAUM:** I'd like to be up.

24          **JUDGE PALMER:** Mr. Rosenbaum.  
25

1 VOIR DIRE EXAMINATION,

2 QUESTIONS BY MR. STEVEN J. ROSENBAUM:

3 Q What is your undergraduate degree, Ben?

4 A My undergraduate degree was in linguistics, and  
5 at 19- -- late '60s, early '70s at Yale the  
6 linguistic department was a carryover from  
7 efforts to computerize the translation of  
8 language which today is very common, so we were  
9 very heavy into computers and modeling by  
10 computers of those types of things, but that was  
11 the -- that was the major.

12 Q Now, when were you last employed by the Fisher  
13 Cheese Company?

14 A '79.

15 Q So that's 28 years ago?

16 A No, I think it'd be like 18 years ago.  
17 Twenty-eight years ago?

18 Q Yeah, afraid so.

19 A Oh, to be 30 again, but, anyhow, go ahead.

20 Q And your job title there was?

21 A Systems analyst, and I worked in the computer  
22 department.

23 Q All right. And is that the only position you've  
24 held where you actually were an employee of a  
25 cheese company?

1 A Yes.

2 Q And then you were employed by the National  
3 Farmers Organization up until 1986 or 1987;  
4 correct?

5 A I started in -- I think it was June 1st of 1980  
6 as a full-time employee. I mean prior to then,  
7 I mean for the seven years leading up to that I  
8 was over there on an almost weekly basis  
9 consulting and developing the software and  
10 expanding their system.

11 But I started there, and I think my last  
12 day was maybe January some of 1987.

13 Q And is that -- and at that point did you open  
14 the Yale Law Office, or had that already --

15 A I had been operating part time -- well, you  
16 know, like I said, I'd get up on Monday and go  
17 to bed on Friday night, I mean it was long  
18 weeks, but I continued to operate as a lawyer in  
19 a lot of small town practice stuff during that  
20 period of time as well.

21 Q Okay. And was January 1, 1987, the last time  
22 you were an employee of someone else? Last time  
23 you had a W-2 form, for example?

24 A Well, other than from my own company, yes.

25 Q And your own company is?

1 A Yale Law Office. I mean, you know, you asked  
2 the question W-2, and I do get a W-2 the way  
3 we're set up, so.

4 Q I see. You're an employee of your own law  
5 firm --

6 A Yes.

7 Q -- as a technical matter?

8 A Yes.

9 Q And have you received W-2s from any entity other  
10 than your own law firm since January 1, 1987?

11 A Well, I was an acting judge for a number of  
12 years for Auglaize County and I received, you  
13 know, W-2s from them.

14 Q Anybody else?

15 A Not that -- I mean not that I can recall at this  
16 time.

17 Q Okay. Now, you have -- in your statement, I  
18 think you make -- well, let me back up. I  
19 assume when you do work for your clients, you  
20 send them monthly bills; is that right?

21 A I bill them, yes.

22 Q Periodically?

23 A I mean they're periodically billed.

24 Q And those go out under the letterhead of Yale  
25 Law Office; is that correct?

1 A Yes.

2 Q Now, you describe yourself in your testimony as  
3 being general counsel and regulatory affairs  
4 consultant to Dairy Producers of New Mexico and  
5 other entities; is that correct?

6 A That's -- for Continental, Select and Dairy  
7 Producers of New Mexico, that'd be correct. I  
8 just provide legal services from time to time in  
9 addition to this for Lone Star and occasionally  
10 Zia.

11 Q When you serve as a regulatory affairs  
12 consultant, do you bill that time on the  
13 letterhead of the Yale Law Office?

14 A It's all billed the same, I mean in a similar  
15 manner, whether -- you know, whatever the terms  
16 are, they are.

17 Q And regardless of the role you're playing, the  
18 bill that would be received by your client would  
19 be on the letterhead of Yale Law Office?

20 **MR. MILTNER:** Your Honor, I think -- I  
21 understand what you're trying to get into, but  
22 the actual billing practices of the firm are  
23 irrelevant.

24 **JUDGE PALMER:** Well, he's trying to get a  
25 little background. I'll allow it. Objection

1 overruled.

2 A Yeah, I'm trying to think how far I can go  
3 without getting too much out of the  
4 confidentiality area, but I would say that they  
5 do not get a separate invoice from something  
6 that is other than the Yale Law Offices for the  
7 services that I render regardless of the  
8 purpose.

9 Q And you do serve as legal counsel for all of the  
10 entities upon whose behalf you are here to  
11 provide testimony today?

12 A Yes. And I have, in fact, represented them in  
13 various court proceedings as well as hearings  
14 before the Secretary.

15 Q And you're not an employee of any of those  
16 entities; correct?

17 A I am not an employee.

18 Q Are you on any of their boards?

19 A No.

20 Q Do you have an ownership interest in any of  
21 them?

22 A No.

23 Q Now, your Web site lists practice areas as  
24 including, in addition to agricultural dairy  
25 law, litigation, environment appeals, business



1 formation, lobbying, estate planning. Do you do  
2 all of those things yourself?

3 A I mean the answer is yes or no, although I think  
4 in the last -- I can't tell you how many years,  
5 we keep fairly detailed records of the tasks  
6 that we do, and I think for the time that I  
7 spend, it's well into the upper 90s that's  
8 involved with the dairy issues.

9 Q But you do -- you do or have in the past done  
10 all the other things?

11 A Oh, yes. We at one time -- we've done a fair  
12 number of appeals, not just in dairy, and we do  
13 some estate planning, although that's others in  
14 the office who are doing the bulk of that,  
15 and --

16 Q You do some of that yourself?

17 A You know, I mean to the degree I can provide  
18 advice as a senior member of the firm, that's,  
19 you know -- I mean I don't know that I really  
20 draft anything like that anymore. Not that I  
21 couldn't, I just -- I'm so involved in the dairy  
22 issues, I just don't have time.

23 Q Are you a consultant for any entity for whom you  
24 are not also legal counsel?

25 A Yes.

1 Q Who is that?

2 A The one I'm not allowed to tell at this point.  
3 The relationship has been asked to be  
4 confidential. And I have done -- I provided  
5 some advice, you know, in terms of some other  
6 formulations and stuff to different companies.  
7 I'm just trying to think of some that I can  
8 name. I got to think about that for a second.  
9 I know that I'm actively involved in one right  
10 now that I'm just not allowed to --

11 **JUDGE PALMER:** We're going to let you pass  
12 on that, claim confidentiality on that,  
13 professional confidentiality.

14 Q What happened to Richard Seguin who was going to  
15 be your processing expert?

16 A Well, again, I think I'm going to get into an  
17 issue that I really don't want to talk about  
18 because of the relationship with the client and  
19 that, but it was just not going to be able to  
20 work, I'll say that.

21 Q I'm sorry, I couldn't hear that. It was not --

22 A There is a -- an issue in the relationship with  
23 my client that it just was not going to work. I  
24 really cannot say any further.

25 Q And you don't own a dairy farm, I take it?

1 A No, I do not.

2 Q Have you ever worked on one?

3 A Not in a paid capacity, no.

4 Q And --

5 A I mean my -- my family owned one when I was a  
6 kid, but.

7 Q I take it you have no formal training in  
8 economics; maybe took a course or two at Yale,  
9 but beyond that --

10 A I do not have a formal degree in economics, no.

11 Q Okay. Or food science?

12 A I do not have a formal degree in food science.

13 Q Have you ever taken courses in food science?

14 A Nothing formal. I mean when I -- what I end up  
15 doing, and -- I end up buying the textbooks and  
16 reading them, which, by the way, you do bring up  
17 a point, I mean part of the formulation is is  
18 that we have become increasingly involved in  
19 issues of standards of identity and labeling and  
20 patent, and I supervise the patent issues and  
21 the intellectual property, and understanding the  
22 formulas and how they work and the processes is  
23 almost an -- I don't know how you could do it  
24 without knowing that, but, so, anyhow, go ahead.

25 Q I think my question was just whether you had any

1 formal training --

2 A I've had no formal training in food science.

3 MR. ROSENBAUM: That's all I have,

4 Your Honor.

5 JUDGE PALMER: Any other questions for him?

6 Anyone else on voir dire? Mr. Beshore.

7 VOIR DIRE EXAMINATION,

8 QUESTIONS BY MR. MARVIN BESHORE:

9 Q Ben, just a question or two about your NFO  
10 years.

11 A Yeah.

12 JUDGE PALMER: His which years? I missed  
13 that.

14 MR. BESHORE: NFO years.

15 MR. YALE: NFO years.

16 MR. BESHORE: Yes, the NFO years.

17 Q From 1980 through early '87 when you were an  
18 employee for NFO, can you just describe a little  
19 bit more what support you had professionally  
20 within the organization in terms of your  
21 responsibilities. I mean how much were your  
22 responsibilities -- you know, what were your  
23 responsibilities and how did they break out with  
24 other folks there? Did you have staff  
25 economists supporting your role or --

1 A You know the answer to that, Marv. You know,  
2 they --

3 Q I'm not testifying, Ben.

4 A I know that. You had some very smart but not  
5 formally educated people at NFO who understood  
6 these systems very, very well, and my role was  
7 part of -- and it would vary depending on the  
8 task involved, but we did take on that role of  
9 doing all the economic analysis that we would  
10 do, I mean whatever it was. I will say  
11 sometimes it was pretty rudimentary, but we did  
12 all of that in-house ourselves and I was very  
13 much a part of that.

14 Q Now, I think you described your role as manager  
15 or something.

16 A I was assistant manager, and it varied as the  
17 territory changed. I think when I left it was  
18 the Great Lakes Gulf Region because the  
19 Northeast had been spun off.

20 Q You were assistant manager?

21 A Assistant manager in charge of dealing with  
22 Federal Order issues and pricing, but we were --  
23 you know, it was a small company and you didn't  
24 tell somebody that wasn't your job, you just did  
25 it, you know. So we ran samples, we sold milk

1 and all of that as well. I mean we had to get a  
2 job done. You know, if you don't sell it, you  
3 smell it. You had to move it.

4 Q So as assistant manager you were responsible for  
5 the milk marketing operations?

6 A Right.

7 Q In the region from Wisconsin east?

8 A At one time we included -- we had an office in  
9 New Hampshire, and the name -- the place escapes  
10 me now.

11 Q Rochester?

12 A Rochester, New Hampshire, yes, just inside from  
13 the Maine border, and most of the milk was in  
14 Maine and northern Vermont, as I recall, and  
15 then we had milk up around the Albany area of  
16 New York, we had it over in the Jamestown area.  
17 We had milk in the western Pennsylvania, around  
18 Sharonville. We had milk in New Jersey.

19 Q As well as the Midwest?

20 A The Midwest. I mean we had milk in Michigan,  
21 all through the region of Ohio, Michigan and  
22 Indiana. We had milk in Kentucky. Seems like  
23 we had some producers in Tennessee, and we were  
24 trying -- when I was still there we were trying  
25 to break into the South, but the base -- the

1 base excess system coupled with the -- a number  
2 of other issues kept us from doing that, and  
3 that finally broke after the whole herd buyout  
4 came out, but by then I was leaving, so I don't  
5 know what -- I don't know what happened after  
6 that.

7 Q Do you have any recollection of approximately  
8 how many producers you were marketing milk for  
9 within that geographic region for which you were  
10 the assistant manager?

11 A You know, I have forgotten, although I got to  
12 tell you that I got a couple single producers  
13 today that come pretty close to the amount of  
14 milk we marketed, but it was hundreds and  
15 hundreds. The one number, it seemed like at one  
16 time we had 550, and I could be off on this. I  
17 mean it's been, as you mentioned, maybe 30 years  
18 ago. Seems like we had over 500 or so in Ohio.

19 Q And at that time you were marketing both Grade A  
20 and Grade B milk?

21 A We had Grade A and Grade B, and then we had --  
22 in Michigan we had some canned milk up there in  
23 the Clare, Michigan, market.

24 Q And your managerial responsibilities included  
25 both supervision with respect to the sales

1 contracts and payment programs with producers?

2 A Yes. I mean we had to make sure the milk was  
3 paid, and, you know, there was a couple times  
4 when we weren't and then that -- because I was  
5 the lawyer, that was my responsibility to start  
6 making the calls and try to make sure we got  
7 paid for the milk, and then, you know, I  
8 participated in some hearings. I think  
9 Pennsylvania came out with their bonding program  
10 in the early '80s. Somewhere in there we had a  
11 plant in western Pennsylvania that was kind of  
12 slow on paying and we worked with them, you  
13 know, those types of things.

14 Q In terms of the payroll responsibilities,  
15 producer payroll responsibilities, is it fair to  
16 say that that included being responsible for  
17 accounting for the milk sold and the proceeds of  
18 the milk coming in and distributing it to  
19 producers?

20 A NFO had a -- the answer is not really, because  
21 NFO had a unique structure, and that is that the  
22 assets of the producers, which was the milk, was  
23 held in trust, and they had a National Farmers  
24 dairy custodial account, an Iowa Trust, I think  
25 it was, and the view was was once the milk was



1 delivered to the plant, you had an obligation to  
2 that trust, and then the trust owed it to the  
3 producers based upon agreements and otherwise,  
4 and there were employees of the trust that  
5 actually, you know, deposited the money, you  
6 know, wrote the checks, and that type of thing  
7 and did that accounting and filed the reports,  
8 but I was very much involved in that because one  
9 of the issues back then for us was maintaining  
10 producer qualification. It was a big challenge  
11 in the early days, and so when we came down to  
12 pooling, you know, I was there because we'd find  
13 out that we didn't get a -- producer touch base  
14 enough or whatever.

15 Q So your managerial responsibilities were on the  
16 marketing and sales side?

17 A It was on the marketing and the sales and  
18 producer relationships and the Federal Order and  
19 that type of stuff, yes.

20 MR. BESHORE: Thank you.

21 JUDGE PALMER: Any other questions? All  
22 right.

23 And I presume you wish to make a motion  
24 again?

25 MR. ROSENBAUM: I would renew my motion,

1 Your Honor. It's perfectly clear that his last  
2 experience, outside of being legal counsel, as  
3 far as I'm concerned, was January 1, 1987, 20  
4 years ago. He may do some consulting work that  
5 he views as being non-legal in nature, yet he  
6 bills it as part of his law firm practice, and  
7 all the reasons that we set forth in the motion  
8 we think have been shown to apply, if anything,  
9 more fully than I knew at the time I wrote the  
10 motion.

11 **MR. MILTNER:** Your Honor, we would continue  
12 to object to the motion, obviously, and as I  
13 said, an expert designation, to the extent it  
14 has any applicability in the hearing, is not  
15 necessary for someone to testify. Mr. Yale  
16 should be allowed to testify. He has relevant  
17 knowledge. The Secretary can afford his  
18 testimony whatever weight he chooses.

19 **JUDGE PALMER:** Well, I'm not going to call  
20 him an expert as such, although he does have  
21 expertise in providing figures, but since his  
22 statement covers a number of different areas,  
23 I'm just not going to say it, but I'm going to  
24 allow him to testify and we'll let the -- you  
25 know, as I say, at the time you're writing an

1 opinion of -- the Secretary writes an opinion  
2 and they ascribe it to testimony given by  
3 Mr. Yale, I think that it would need to make  
4 statements as to why they felt that was  
5 sufficient testimony for whatever decision.  
6 We'll leave it there. Go ahead now.

7 We have a written statement?

8 **MR. MILTNER:** We do. I want to mark I  
9 think three exhibits right now, Your Honor.  
10 They're all in the back of the room, copies have  
11 been distributed to Your Honor and to the  
12 Department, I believe to the court reporter as  
13 well.

14 The first is a 50-page typewritten  
15 statement printed double sided.

16 **JUDGE PALMER:** That will be 32. This is  
17 Mr. Yale's statement?

18 **MR. MILTNER:** That is.

19 *(Thereupon, Exhibit No. 32 was marked for*  
20 *purposes of identification.)*

21 **MR. MILTNER:** Then there is a comb-bound  
22 volume containing roughly 275 pages, got a nice  
23 shiny, plastic cover.

24 **JUDGE PALMER:** What's that?

25 **MR. MILTNER:** These are the exhibits that

1 Mr. Yale references in his testimony.

2 JUDGE PALMER: Oh, all right. That wasn't  
3 sent to me, was it? Did I get all the exhibits?

4 MR. MILTNER: No.

5 JUDGE PALMER: Okay. I knew my machine ran  
6 out of paper, but I didn't think --

7 MR. ROSENBAUM: Your Honor, today is the  
8 first time we've seen any of these exhibits,  
9 which is its own problem.

10 JUDGE PALMER: You've seen 32 but you  
11 haven't seen what's now going to be marked as  
12 33?

13 MR. ROSENBAUM: That's correct, Your Honor.

14 *(Thereupon, Exhibit No. 33 was marked for*  
15 *purposes of identification.)*

16 MR. MILTNER: And then, finally,  
17 Your Honor, there is a two-page spreadsheet  
18 that -- the first page has four sections  
19 entitled "Inputs, Milk Separation,  
20 Ultrafiltration and Vat Contents." It looks  
21 like this. There are copies in the back of the  
22 room. And that is referenced as a separate  
23 exhibit in Mr. Yale's testimony. I assume we'd  
24 mark that 34 unless --

25 JUDGE PALMER: 34, yes.

1           (Thereupon, Exhibit No. 34 was marked for  
2 purposes of identification.)

3           **MR. MILTNER:** Okay. Your Honor, that's all  
4 we have.

5           **JUDGE PALMER:** Has everybody got those  
6 numbers? 32 is Mr. Yale's statement. 33 is the  
7 very large document. And 34 is the two-page  
8 spreadsheet.

9           Now, have you got -- did you give a full  
10 set to the court reporter so that she can follow  
11 along? You've got everything. How about a full  
12 set for me.

13           **MR. YALE:** I'm sorry, we have -- I gave an  
14 extra one to Jack.

15           **MR. ROWER:** We have it here.

16           **JUDGE PALMER:** I just want to stay with  
17 everybody.

18           **MR. ROWER:** Sorry about that.

19           **JUDGE PALMER:** Fine, thank you. Why don't  
20 you proceed.

21                           **TESTIMONY OF BENJAMIN F. YALE**

22           **MR. YALE:** Introduction.

23           I am testifying today as the general  
24 counsel and regulatory affairs consultant for  
25 Dairy Producers of New Mexico, a voluntary trade

1 association of dairy farmers in New Mexico and  
2 West Texas. I'm also testifying in the same  
3 capacity for Select Milk Producers, Inc., a  
4 Capper-Volstead milk marketing cooperative with  
5 members in New Mexico, Kansas and Texas; and  
6 Continental Dairy Products, Inc., a  
7 Capper-Volstead milk marketing cooperative with  
8 members in Ohio, Michigan and Indiana. Our  
9 testimony is also endorsed by Lone Star Milk  
10 Producers, Inc., a Capper-Volstead milk  
11 marketing cooperative with members in Arkansas,  
12 Kansas, Kentucky, Louisiana, Mississippi,  
13 Missouri, Oklahoma, Texas, New Mexico, and  
14 Tennessee, and --

15 **JUDGE PALMER:** Let me stop you for a  
16 moment. To the extent there's a variance  
17 between your testimony in printed text that we  
18 have as Exhibit 32, which would you wish to  
19 control?

20 **MR. YALE:** I think we'd need to go with  
21 written, although unless I make some editorial  
22 comments along the way.

23 **JUDGE PALMER:** All right. So that'll be  
24 the instruction to the reporter. We're going to  
25 go with the written one unless he makes it clear

1 that this is an editorial variation. Maybe  
2 that'll help a little bit. He does speak  
3 quickly, as they all do.

4 **MR. YALE:** Okay. Back again, talking about  
5 Zia Milk Producers, Inc., a Capper-Volstead milk  
6 marketing cooperative with members in New  
7 Mexico, and I believe they also have members in  
8 Texas.

9 **JUDGE PALMER:** Let me ask this. Has  
10 everybody read the statement? Is there anybody  
11 here who hasn't? Off the record for a second.  
12 Well, let's leave it on the record.

13 Is there anybody here who has not read the  
14 statement that was distributed?

15 **MR. MILTNER:** Your Honor, I understand that  
16 the copy that was sent out by e-mail last week,  
17 there are some changes.

18 **JUDGE PALMER:** There are some changes?

19 **MR. MILTNER:** Yes, Your Honor.

20 **JUDGE PALMER:** I was wondering if we could  
21 perhaps move on and say well, we've all read it,  
22 just get into Cross, but there are changes?

23 **MR. MILTNER:** Yes.

24 **JUDGE PALMER:** You can point out the  
25 changes, I suppose.

1           **MR. YALE:** I don't have a redlined --

2           **JUDGE PALMER:** Would everybody like to hear  
3 it read? Do you want to go to the changes?

4           **MR. YALE:** I wouldn't know where -- I can  
5 only tell -- I can tell you two areas where  
6 there are big changes, but the rest of it were  
7 just as we went along and there were some  
8 numbers that were --

9           **JUDGE PALMER:** Keep reading. I had a bad  
10 idea. Go ahead.

11           **MR. YALE:** Well, it was a good idea, just  
12 that I didn't make it work.

13           Collectively, the marketing cooperatives  
14 market approximately eight billion pounds of  
15 milk per year, virtually all of it within the  
16 Federal Milk Marketing Areas - including the  
17 Mideast, Southwest, Southeast, Florida,  
18 Appalachian, Central, and Upper Midwest. They  
19 have, from time to time, also marketed milk into  
20 the Arizona order.

21           We are grateful to the Department for  
22 noticing our proposals and providing this  
23 opportunity to explain why they should be  
24 adopted. Each of these organizations support  
25 the system of Federal Milk Marketing Orders and



1 have worked for years to make them more  
2 responsive to the needs of producers. In  
3 particular, they believe that the hearing  
4 process is essential to the continued success of  
5 the program.

6 The Scope of this Testimony.

7 The Department has noticed six proposals of  
8 Dairy Producers of New Mexico. Proposals 6, 7  
9 and 8 each deal with the factors in the pricing  
10 formulas affected by shrink factors, butterfat  
11 recovery, and product yields. While listed as  
12 three discrete proposals, our position is that  
13 each proposal is part of a whole. That is not  
14 to say that the Department could not, for  
15 example, correct the arithmetic error in the  
16 calculation of the butterfat shrink without  
17 addressing an issue of butterfat recovery. But  
18 we view the proposals as a singular effort to  
19 amend the yield portions of the pricing formulas  
20 to more accurately and fairly establish minimum  
21 prices for producers. Accordingly, my testimony  
22 will first address Proposals 6, 7 and 8. I will  
23 also provide testimony concerning our Proposal 3  
24 which addresses make allowances. As indicated  
25 at the first hearing in Strongsville, our

1 Proposal 4, which proposed the establishment of  
2 a separate Class III butterfat price, has been  
3 withdrawn.

4 Finally, another witness, Mary Ledman, will  
5 testify about our Proposal 15 dealing with the  
6 use of prices as reported on the Chicago  
7 Mercantile Exchange, CME, as a replacement for  
8 the NASS survey of dairy products currently used  
9 to compute minimum component prices.

10 Summary of positions.

11 This testimony will support the need to  
12 make changes as follows:

13 For the butter to butterfat component  
14 formula, change the yield from 1.20 to 1.22 and  
15 the make allowance from 12.02 cents to 11.50  
16 cents. 7 CFR 1000.50(1).

17 2 -- I believe that's an L and not a 1.

18 2. For the cheese to protein formula,  
19 change the make allowance for cheese from 16.92  
20 cents per pound to 16.38 cents per pound, the  
21 protein yield from 1.383 to 1.405, the butterfat  
22 yield from 15 -- or 1.572 to 1.652, and the  
23 butterfat to true protein ratio from 1.17 to  
24 1.214. 7 CFR 1000.50(n)(2), (3)(i), (3)(iii).

25 3. For the nonfat dry milk to solids not

1 fat formula, change the make allowance from 15.7  
2 cents to 14.10 cents per pound.

3 7 CFR 1000.50(n).

4 4. For the dry whey to other solids  
5 formula, change the make allowance from 19.56  
6 cents to 15.9 cents. 7 CFR 1000.50(o).

7 **JUDGE PALMER:** We might be able to speed it  
8 up a little bit. Instead of giving the parens,  
9 just say 7 CFR 1000.50, pause, zero, okay.

10 **MR. YALE:** Okay.

11 Supporting documents.

12 In support of this testimony, I'll rely  
13 upon a number of documents. Unless made a part  
14 of this hearing earlier, the documents I will  
15 rely upon have been bound into a single exhibit,  
16 No. 33. Within Exhibit 33, individual documents  
17 are identified by the capital letters A through  
18 FFFF. Throughout this testimony I will only  
19 reference them by a document letter. A list of  
20 each of these lettered documents appears at the  
21 beginning of the exhibit package, along with the  
22 source of the document. More information on the  
23 source, meaning, and relevance of each document  
24 will be provided at the time it is referenced in  
25 the testimony.

1           The need for upward price adjustments in  
2 commodity to component prices.

3           Since the demise of the Minnesota-Wisconsin  
4 Price Series, M-W, and the Basic Formula Price,  
5 BFP, producer input into prices they receive  
6 under the Federal Milk Marketing Orders has  
7 virtually disappeared. Then, the competitive  
8 situation in the Upper Midwest required cheese  
9 plants and other milk buyers to respond to  
10 on-the-farm economics of milk producing or risk  
11 losing their milk supply. Plants paid higher  
12 prices when feed costs were high, and passed  
13 those costs on to their customers and on to the  
14 consuming public. It was not a perfect system,  
15 but it did an excellent job of discovering the  
16 competitive value of milk in the marketplace,  
17 and the FMMO system guaranteed producers  
18 received that value. That is no longer the case  
19 today.

20           We now have a system wherein the  
21 determinative factor is the cost to make cheese  
22 and other dairy products, not how much it costs  
23 to produce milk, or even if producers receive  
24 sufficient money to cover their costs. Even the  
25 data on the costs to produce products is

1 woefully incomplete.

2           The result has been a financial catastrophe  
3 to dairy farmers. Regardless of size, location,  
4 breed or geography, dairy farmers have been  
5 losing money, and doing so at record rates. As  
6 Gary Genske pointed out in his testimony, even  
7 the larger, more efficient herds are losing  
8 money. Ken Bailey showed that there is an  
9 ever-shrinking gross margin to producers,  
10 exposing them to continued loss of equity.

11           Several USDA publications have been  
12 noticed, including Mailbox Prices in the FMMO  
13 reported by AMS and the Cost of Production data  
14 reported by ERS. The Document A is a table that  
15 was prepared by me and shows three selected  
16 states where the values have been compared and  
17 cost of production exceeds income.

18           In that document, for New Mexico I used the  
19 Texas costs, although discussions with my  
20 clients in both states suggests that the feed  
21 costs are higher in New Mexico, particularly in  
22 the Roswell area.

23           The Agricultural & Food Policy Center at  
24 Texas A&M publishes an analysis which observes  
25 several "panel farms" of varying size, location,

1 and product.

2 "The chief purpose of this analysis is to  
3 project those farms' economic viability by  
4 region and commodity for 2007 through 2012."

5 The 2007 Baseline Working Paper shows that  
6 dairy farms face serious economic risks.  
7 Document B contains the dairy portion of that  
8 report. The full report can be found at  
9 [www.afpc.tamu.edu](http://www.afpc.tamu.edu). Under the "Recent  
10 Publications" option, select "2007 Baseline  
11 Working Paper."

12 Figure 5 of that report graphically shows  
13 the distribution of poor, marginal and good  
14 financial condition of the representative  
15 dairies. A comparison of the January 2006 to  
16 January 2007 reports shows an increase in the  
17 number of farms in poor condition from six to  
18 ten, with four in marginal conditions in both  
19 reports. As a result, beginning in 2007, 14 of  
20 the 23 panel dairies are in marginal to poor  
21 condition. The dairy portion of the January  
22 2006 report is found at Document C.

23 A combination of several factors combine to  
24 put a financial stranglehold on producers. The  
25 first is the rapid rise in grain prices in

1 response to the growing demand for ethanol  
2 production.

3 Second, significant increases in fuel costs  
4 have had the effect of increasing the cost of  
5 feeds through increased transportation and  
6 decreases in mailbox prices through increased  
7 hauling costs.

8 Third, the rise in corn prices has also  
9 reduced the value of bull calves to near zero.  
10 General inflation has also reduced farm income.

11 For example, in New Mexico, producer prices  
12 are about \$2 a hundredweight under what is  
13 needed for positive cash flow. A typical 2,000  
14 cow dairy in New Mexico produces 140,000 pounds  
15 of milk per day. A \$2 per hundredweight,  
16 shortfall amounts to a daily loss of \$2,800 and  
17 an annual loss in excess of one million dollars.  
18 At an average investment of \$3,000 per cow, that  
19 is a reduction of 16 percent of the total  
20 capital and debt. No farm can sustain such  
21 losses in the long term.

22 Current milk pricing is inadequate to meet  
23 even the cash expenses of most dairies. Unless  
24 it is resolved quickly, there will be a  
25 significant reduction in the milking herd and

1 the supply of milk. I do not believe the phrase  
2 "disorderly marketing" means anything, but I do  
3 believe that a government policy that forces  
4 farms to transfer their equity to plants and  
5 customers by supplying their milk at below cost  
6 destabilizes the market.

7 Explanation of the commodity to component  
8 prices and their use.

9 Current Federal Order pricing calculates  
10 four class prices from four component prices  
11 derived from four commodities. Document D is a  
12 printout of the formulas used since 2000 and  
13 each year thereafter as reported at the USDA.  
14 These were downloaded from the AMS Dairy  
15 Program's Web site at [www.ams.usda.gov](http://www.ams.usda.gov), and you  
16 can go to the particular page from there.

17 The critical part of these formulas for  
18 this hearing is found under Class III where the  
19 formulas for the Protein Price and Other Solids  
20 Price and Butterfat Price are stated, and Class  
21 IV where the Solids Not Fat Price formula is  
22 stated.

23 Each of these component formulas is stated  
24 as the product price less the make allowance  
25 with the result multiplied by a yield. For



1 protein, an adjustment is made to accommodate  
2 the use of Class IV butterfat price for Class  
3 III. The product prices are the result of  
4 surveys by NASS.

5 I have relied almost entirely on 2006 data  
6 because it is the most current 12-month period  
7 for which we have complete data. Further, both  
8 the Cornell and California cost studies are  
9 applicable to that year. Document E lists the  
10 NASS prices for 2006 as used in the pricing  
11 formulas. The table was downloaded from the AMS  
12 Dairy Program's site at [www.ams.usda.gov](http://www.ams.usda.gov), and,  
13 again, you can find the page from there. It is  
14 Table 30 of the FMMO annual statistics. I will  
15 use the simple annual average of the "final"  
16 prices - butter at 1.2193, nonfat dry milk at  
17 0.8874, cheese at 1.2470, and dry whey at  
18 0.3285.

19 Document F is Table 31 of the Annual  
20 Statistics - Federal Milk Order Class I and  
21 Class II Advanced Prices and Pricing Factors,  
22 2006.

23 Document G is Table 32 of the Annual  
24 Statistics - Federal Milk Order Class II, Class  
25 III and Class IV Milk and Component Prices,

1 2006. These are official reports of USDA as  
2 found at the AMS Dairy Web site cited earlier.  
3 Note that by applying the formulas found in D on  
4 the average of the commodity prices in Document  
5 E will not necessarily yield the same numbers as  
6 the class and component prices in Documents F  
7 and G.

8 Document H, Table 33 - Federal Milk Order  
9 Principal Pricing Points, with Class I  
10 Differentials, Document I, Table 34 - Class I  
11 Skim Milk Price by federal Milk Order Marketing  
12 Area, 2006, Document J, Table 35 - Class I  
13 Butterfat Price by Federal Milk Order Marketing  
14 Area, 2006, and Document K, Table 36 - Class I  
15 Milk Price by Federal Milk Marketing -- Federal  
16 Milk Order Marketing Area, 2006, represent the  
17 use of the Document D formulas for 2006 in  
18 setting the Class I prices in each of these  
19 orders. These are also official reports of the  
20 USDA as found at the AMS Dairy Web site.

21 Document L, Table 5 - Number of Producers  
22 Delivering Milk to Handlers Regulated Under  
23 Federal Orders, by Marketing Area, 2006,  
24 Document M, Table 6 - Receipts of Producer Milk  
25 by Handlers Regulated Under Federal Orders, by

1 Marketing Area, 2006, and Document N, Table 7 -  
2 Average Daily Delivery of Milk Per Producer to  
3 Handlers Regulated Under Federal Orders, by  
4 Marketing Area, 2006, are official reports of  
5 USDA as found at the AMS Dairy Web site. These  
6 will be used to provide producer data that will  
7 be used to show how price changes impact  
8 producers.

9 In estimating the impact of changes, the  
10 total receipts for producers for the year  
11 (Document N) were divided by the number of  
12 producers in December (Document L). I chose to  
13 use the December number of 51,355 rather than  
14 the simple average as it more closely represents  
15 the numbers today. The simple average of  
16 production producer -- per producer per year  
17 will be multiplied times changes to the blend  
18 prices estimated for various changes. The  
19 impact on producers who are outside of the FMMO  
20 system is not estimated. USDA has repeatedly,  
21 and correctly, asserted that the changes to  
22 pricing in the FMMO system has an impact on all  
23 milk sold in the nation. We have not sought to  
24 estimate that impact.

25 Document O, Table 8 - Butterfat Test of

1 Producer Milk, by Federal Milk Order Marketing  
2 Area, 2006, Document P, Table 9 - Nonfat Solids  
3 Test of Producer Milk, by Federal Milk Order  
4 Marketing Area, 2006, Document Q, Table 10 -  
5 Protein (True) Test of Producer Milk, by Federal  
6 Milk Order Marketing Area, 2006, and Document R,  
7 Table 11 - Other Solids Test of Producer Milk,  
8 by Federal Milk Order Marketing Area, 2006, are  
9 also official reports of USDA as found at the  
10 AMS Dairy Web site. These will be used to  
11 illustrate the per class computations discussed  
12 later.

13 Document S, Table 13 - Utilization of  
14 Producer Milk in Class I Products, by Federal  
15 Milk Order Marketing Area, 2006, Document T,  
16 Table 14 - Class I Utilization Percentage of  
17 Producer Milk, by Federal Milk Order Marketing  
18 Area, 2006, Document U, Table 15 - Butterfat  
19 Test of Producer Milk Used in Class I Products,  
20 in the FMMO Area, 2006, and Document V, Table  
21 16 - Nonfat Solids Test of Producer Milk Used in  
22 Class I Products, by Federal Milk Order  
23 Marketing Area, 2006, are official reports of  
24 USDA as found at the AMS Dairy Web site. The  
25 numbers in those tables, particularly the annual

1 average, are used to compute the impact on Class  
2 I values at test.

3 Document W, Table 17 - Utilization of  
4 Producer Milk in Class II Products, by Federal  
5 Milk Order Marketing Area, 2006, Document X,  
6 Table 18 - Class II Utilization Percentage of  
7 Producer Milk, by Federal Milk Order Marketing  
8 Area, 2006, Document Y, Table 19 - Butterfat  
9 Test of Producer Milk Used in Class II Products,  
10 by Federal Milk Order Marketing Area, 2006, and  
11 Document Z, Table 20 - Nonfat Solids Test of  
12 Producer Milk Used in Class II Products, by  
13 Federal Milk Marketing Order Area, 2006, are  
14 official reports of USDA as found at the AMS  
15 Dairy Web site. The numbers in those tables,  
16 particularly the annual averages, are used to  
17 compute the impact on Class II values at test.

18 The Document AA, Table 21 - Utilization of  
19 Producer Milk in Class III Products, by Federal  
20 Milk Order Marketing Area, 2006, Document BB,  
21 Table 22 - Class III Utilization Percentage of  
22 Producer Milk, by Federal Milk Order Marketing  
23 Area, 2006, Document CC, Table 23 - Butterfat  
24 Test of Producer Milk Used in Class III  
25 Products, by Federal Milk Order Marketing Area,

1 2006, Document DD, Table 24 - Protein (True)  
2 Test of Producer Milk Used in Class III  
3 Products, by Federal Milk Order Marketing Area,  
4 2006, Document EE, Table 25 - Other Solids Tests  
5 of Producer Milk Used in Class III Products, by  
6 Federal Milk Order Marketing Area, 2006, are  
7 official reports of USDA as found at the AMS  
8 Dairy Web site. The numbers in those tables,  
9 particularly the annual averages, are used to  
10 compute the impact on Class III values at test.

11 Document FF, Table 26 - Utilization of  
12 Producer Milk in Class IV Products, by Federal  
13 Milk Order Marketing Area, 2006, Document GG,  
14 Table 27 - Class IV Utilization Percentage of  
15 Producer Milk, by Federal Milk Order Marketing  
16 Area, 2006, Document HH, Table 28 - Butterfat  
17 Test of Producer Milk Used in Class IV Products,  
18 by FMMO Marketing Area, 2006, and Document II,  
19 Table 29 - Nonfat Solids Test of Producer Milk  
20 Used in Class IV Products, by Federal Milk Order  
21 Marketing Area, 2006, are official reports of  
22 USDA as found at the AMS Dairy Web site. The  
23 numbers in those tables, particularly the annual  
24 averages, are used to compute the impact on  
25 Class IV values at test.

1 Document JJ was prepared by me and  
2 summarizes the assumptions that will be used to  
3 estimate the impact of changes to various parts  
4 of the component formulas. The average monthly  
5 NASS prices for each of the commodities for 2006  
6 from Document E are listed. The standard  
7 butterfat, true protein, other solids and solids  
8 not fat are derived from the formulas in  
9 Document D. The averages for butterfat, true  
10 protein, other solids and solids not fat that  
11 are actual tests for the various classes and  
12 weighted were taken from Documents O, P, Q and  
13 R. The total pounds of milk per class were  
14 taken from Documents S, W, AA and FF.  
15 Utilization by class is the average annual  
16 classification as found in Documents T, X, BB  
17 and GG.

18 The number of producers was taken from  
19 Document L, the total receipts from Document M,  
20 and the average annual deliveries is a function  
21 of the total receipts divided by the number of  
22 producers in Document L, and as I indicated  
23 earlier, from December.

24 Document KK was prepared by me and utilizes  
25 these assumptions to compare the financial

1 impact of the changes adopted by USDA since it  
2 issued its Tentative Final Decision on the  
3 pricing formulas in December 2000. Document KK  
4 demonstrates that the blend price has been  
5 reduced by 56 cents per hundredweight over that  
6 period as a result of incremental changes to the  
7 pricing formulas.

8 Because the format of Document KK is used  
9 elsewhere in this testimony, it's important to  
10 take time to explain it in detail. The primary  
11 purpose of the format is to compare one set of  
12 formulas to another and determine what the  
13 changes are to the component prices, the class  
14 prices, the class prices at test and the blend  
15 prices.

16 The methodology is straightforward. There  
17 are four commodity to component computations:  
18 Butter to butterfat, cheese to protein, nonfat  
19 dry milk to solids not fat, and dry whey to  
20 other solids. These computations are labeled  
21 across the top of the spreadsheet. Each  
22 computation is divided into two columns. The  
23 column on the left under each formula represents  
24 the current values as listed in Document D, and  
25 I might add as labeled Current. The column on



1 the right represents the changed values, and  
2 that is marked As Changed. Generally, each  
3 component is computed separately from the other  
4 components, with the exception of the butterfat  
5 price which is used in cheese to protein  
6 computations. The component prices combine in  
7 the class and blend prices computed later.

8 Each of the factors and values of the  
9 formulas are listed along the left side. The  
10 first of these is the product price. The  
11 product prices for these comparisons, except  
12 those in which the change in the product price  
13 is the issue, are the average NASS commodity  
14 prices for 2006 as found at Document E. The  
15 product price for butter is \$1.2193. The make  
16 allowance is the value assigned as the cost per  
17 pound of the product such as .1202 per pound for  
18 butter. The net per pound is the product price  
19 less the make allowance. This difference is  
20 multiplied by the product yield to arrive at the  
21 component prices found at the bottom of the  
22 table with the exception of the cheese to  
23 protein formula. In the case of the cheese to  
24 protein formula, the product yield of 1.383 in  
25 the spreadsheet is the yield for protein only

1 and is part of other calculations used to derive  
2 the protein price.

3 At the next to last row on this  
4 spreadsheet, the component prices are shown.  
5 For the butterfat, solids not fat, and other  
6 solids, the component prices are the product  
7 yield times the net per pound. To determine the  
8 protein price, a more detailed analysis is  
9 required. Rows 5, 6 and 7 simply repeat the  
10 information set out in rows 1, 2 and 3. Row 8  
11 (cheese from butter yield) represents the  
12 Van Slyke cheese yield formula. This number,  
13 1.572 in the current formula, implies a  
14 butterfat recovery of 89.40 percent, the number  
15 necessary to obtain 1.572 by using the Van Slyke  
16 formula. The result is the Class III butterfat  
17 value per pound. Since the FMMO uses the same  
18 basic butterfat price for all classes, it is  
19 necessary to make adjustments to the protein  
20 price. The details of this adjustment are  
21 explained in more detail when I will discuss  
22 alternative values for some of the factors in  
23 this part of the formula.

24 The butterfat price is the component price  
25 for butter to butterfat. Note it takes the

1 values calculated in the "Butter to Butterfat"  
2 conversion. In the first column of the "Cheese  
3 to Protein" conversion, which is the current  
4 formula, the value of 1.3189 is input. In the  
5 "As Changed" column, the value of 1.3467 is  
6 input, which represents the as changed value in  
7 the "Butter to Butterfat" conversion. Those  
8 numbers are then multiplied by the factor of .9,  
9 which represents the ostensible 90 percent  
10 butterfat recovery in the formula. The  
11 "Fractional Pound of Butter" row represents the  
12 equivalent value of Class IV butterfat as used  
13 in the protein formula. This fractional pound  
14 is subtracted from the butterfat price for the  
15 difference between the Class IV and Class III  
16 price.

17 The next factor, Fat to True Protein Ratio,  
18 is 1.7 in the Current column. What it means and  
19 how it should be changed is described elsewhere.  
20 For the moment, the factor is multiplied times  
21 the Class IV to Class III butterfat for the  
22 adjustment to protein, .5953 in this case. It  
23 is added to the protein before adjustment. The  
24 latter is the product of the earlier net per  
25 pound times the product yield. The sum of the

1 protein before adjustment and the adjustment to  
2 the protein is the component price.

3 The As Changed column is computed  
4 identically as the Current column except where  
5 the values are stated in bold and italics. For  
6 example, in this worksheet, the butterfat make  
7 allowance in the As Changed is stated as 0.1150,  
8 which signals differences from the Current  
9 column for that value.

10 In Document KK, the values in the As  
11 Changed column represent those values found in  
12 the Tentative Final Decision published in  
13 December of 2000, effective from January 2001  
14 through March of 2003. The values in bold and  
15 italics identify those changes.

16 And let me add that the values that I use  
17 in that, although it is for that period, I  
18 actually did use the average test values from  
19 2006 as indicated earlier and as is in the  
20 assumption Table JJ.

21 The second table in Document KK compares  
22 the class prices at standard test, 3.5 percent  
23 butterfat, 2.9915 percent true protein, and  
24 5.8 percent other solids, based upon the  
25 computed component prices. The top row

1 represents prices based on current formulas.  
2 The second row represents prices using the  
3 changed values. The last row is the difference  
4 per hundredweight.

5 Since milk is never sold at standard test,  
6 the third table is necessary. Using the data  
7 from the Annual Statistics as summarized in  
8 Document JJ, the class prices at average test  
9 throughout the FMMOs are computed. The formula  
10 for the class prices at test are as follows:

11 Class I Price at Test equals 1 minus Class  
12 I butterfat percent times Class III skim. That  
13 product plus Class I butterfat percent times the  
14 butterfat price times 100.

15 The formula for Class II at test is:

16 Class II Price at Test equals 1 minus Class  
17 II butterfat percent times 9 times the solids  
18 not fat price plus .07 cents. That product then  
19 is added to the Class II butterfat price -- or  
20 Class II butterfat percentage times the Class II  
21 butterfat price increased by .007, and that  
22 times 100.

23 Class III Price at Test equals 1 minus the  
24 Class III butterfat price times the product of  
25 the percent of protein times 100 times the

1 protein price plus the other solids percent  
2 times 100 times the other solids price plus the  
3 Class III butterfat percent times the butterfat  
4 price times 100.

5 Class IV Price at Test equals 1 minus Class  
6 IV butterfat percent times solids not fat  
7 percent times 100 times solids not fat price  
8 plus Class IV butterfat percent times the  
9 butterfat price times 100.

10 In addition, a blend price is computed by  
11 weighing the prices at test using the class  
12 usage for 2006. It is computed by dividing the  
13 total pounds marketed by the pool values in the  
14 next table. This is not intended to create a  
15 statistical blend such as we see in each month's  
16 milk marketing orders' reports. It is, instead,  
17 to establish a baseline (the current formulas)  
18 and provide a method to approximate component,  
19 class price, and blend impact as the result of  
20 the changes. For that reason, as well as  
21 simplicity, this blend price does not include  
22 any adjustments for location values of Class I  
23 prices, payments into and out of the reserve,  
24 market administrators' fees and other parts of  
25 determining an official final blend price

1 computation for producer payment or statistical  
2 purposes.

3 The last table computes the blend values at  
4 test and class prices computed above. The pool  
5 is the sum of the class values without  
6 adjustment for location or other non-class price  
7 issues.

8 What the spreadsheet tells us, then, is the  
9 expected change in component prices, class  
10 prices at standard test, class prices at actual  
11 test, and pool values at test and blend prices  
12 and the difference between each of those between  
13 current formulas and the changes being  
14 discussed. In this example, the spreadsheet  
15 tells us that the 2000 Tentative Final Decision  
16 formulas had butterfat at 2.83 higher, protein  
17 at 7.19, solids not fat at 2.43 higher, and  
18 other solids at 5.73. Class I and Class III  
19 were 64 cents higher, and Class II and IV were  
20 31 cents higher at test. At test Class I  
21 increased -- or that should be at Class III. At  
22 test Class I increased 60 cents; Class II  
23 increased at 42 cents; Class III increased at 63  
24 cents; and Class IV at 35 cents. Producer blend  
25 prices have been reduced an average of 56 cents

1 per hundredweight. The final number on the  
2 page, 13,245, estimates the annual reduction per  
3 the average producer shipping into the Federal  
4 Marketing Order system.

5 Each time that we analyze a proposed change  
6 in the pricing formula, we have prepared and  
7 included a document identical in form to  
8 Document KK. And this way, each individual  
9 proposed change can be assessed in terms of its  
10 total financial impact on producer income and  
11 compared with other changes.

12 Error in Butterfat Price Formula.

13 Proposal 6 proposes an increase in the  
14 yield factor for butterfat to butter from 1.20  
15 to 1.211. The purpose of this change is to  
16 correct for a mathematical error in the  
17 Department's calculation of "shrinkage." In the  
18 Final Decision establishing the Class III and IV  
19 pricing formulas from November 2002, the  
20 Department made substantial reductions from the  
21 yields in the Recommended Decision of  
22 October 2001 by including, for the first time,  
23 adjustments for "shrinkage." Because these  
24 changes were included in the Final Decision but  
25 not in the Recommended Decision, interested



1 parties were not provided an opportunity to  
2 respond to the changes.

3 Assuming for the moment that shrinkage  
4 should be accounted for in the formula, the  
5 assumed shrinkage was improperly calculated.  
6 The purpose of Proposal 6 is to correct this  
7 improper calculation. The 2002 Final Decision  
8 described the incorporation of shrinkage as  
9 follows:

10 The loss allowance for butterfat will be  
11 reflected by adjusting the 0.82 divisor in the  
12 butterfat price formula. Testimony and comments  
13 indicate that farm-to-plant losses on all milk  
14 solids is 0.25 percent, or (0.0025), with  
15 butterfat incurring an additional loss of  
16 0.015 pounds per hundred pounds of milk.

17 The butterfat price formula is determined  
18 as follows --

19 **JUDGE PALMER:** Let me interrupt you for a  
20 second. I don't think we need a break, but I'm  
21 wondering whether you do, and I'm going to leave  
22 it up to you. Whenever you feel like you want a  
23 break, just raise your hand.

24 **MR. YALE:** Let's maybe get through the end  
25 of this section, so we'll keep going.

1           **JUDGE PALMER:** Okay.

2           **MR. YALE:** For every pound of butterfat,  
3 0.0025 pounds is lost in the farm-to-plant  
4 transfer, and then in parentheses it does the  
5 formula  $1 \text{ minus } .0025 \text{ equals } .9975$ .

6           The next point is in addition, for every  
7 pound of butterfat, and we put "sic, should be  
8 for every hundredweight of milk (See 67 Fed.  
9 Reg. 67917)," there is an additional 01 -- .0150  
10 farm-to-plant loss on butterfat solids, and in  
11 parentheses it does ( $.9975 \text{ minus } .0150 \text{ equals}$   
12  $.9825$  pounds of butterfat).

13           Dividing  $.9825$  by  $0.82$  results in a  
14 butterfat factor of  $1.20$  ( $0.9825$  divided by  $0.82$   
15 equals  $1.20$ ).

16           Therefore, the Class III and IV butterfat  
17 value per pound is computed as follows, and this  
18 is in parentheses: (NASS butter price minus  
19  $0.115$ ), and that difference is multiplied by  
20  $1.20$ , and the citation is 67 Fed. Reg. 67920  
21 (November 7, 2002).

22           The error is further explained by the  
23 following: Assuming that overall milk volume at  
24 the farm is reduced by  $.25$  percent in  
25 transportation and fat is further reduced by

1 .015 pounds per 100 pounds of milk received at  
2 the plant, the milk at the plant is the farm  
3 volume adjusted for shrink in accordance with  
4 this formula: 3.5 times .9975 minus 0.015  
5 equals 3.47625. That is, if the farm test  
6 indicated 3.5 pounds of butterfat per  
7 hundredweight, that amount is first reduced by  
8 the 25 percent for the farm-to-plant loss. The  
9 result is then further reduced by a loss of .015  
10 pounds of butterfat solids.

11 And that is -- I want to insert in there,  
12 and that is the rate on a hundred pounds of  
13 milk.

14 The yield from this reduced volume is  
15 divided by the farm weight to obtain the yield  
16 from farm weight to product. The Final Decision  
17 instead increases the farm-to-plant shrink  
18 factor by a full 1.5 percent. The formula used  
19 by the Department, therefore, is 3.5 times the  
20 difference of .9975 minus 01 -- .015, or carried  
21 out 3.5 times 0.9825 equals 3.43875. The  
22 difference is that the Department assumes that  
23 the plant utilizes .0375 pounds of butterfat  
24 less than it should, and that's 3.47625 plus  
25 3.43875. A comparison of the correct formula

1 with the Department's formula demonstrates the  
2 Department has incorrectly placed the second set  
3 of parentheses in its formula.

4 The correct formula is, and I will use  
5 parentheses because it's important,  $((3.5 \text{ times}$   
6  $0.9975) \text{ minus } 0.015) \text{ equals } 3.47625$ .

7 The Department computation is  $(3.5 \text{ times}$   
8  $(0.9975 \text{ minus } 0.015)) \text{ equals } 3.43875$ .

9 The Department implicitly acknowledged its  
10 error in the 2002 Final Decision. In the  
11 manufacturing price formulas, the butterfat  
12 shrinkage is used in two places. First, it is  
13 used in calculating the butterfat price.  
14 Second, it is used in calculating the  
15 butter-cheese yield in the protein formula.

16 In the butter-cheese yield in the protein  
17 formula, the Department correctly calculated the  
18 butterfat shrink in the butter-cheese yield by  
19 first incorporating farm-to-plant shrink and  
20 then incorporating the additional 0.015 pound  
21 reduction per hundredweight.

22 The Van Slyke formula for the cheese yield  
23 of 3.5 pounds of butterfat in a standardized 100  
24 pounds of milk is  $0.90 \text{ times } 3.5 \text{ times } 1.09$ , and  
25 that product is then divided by 62, which equals

1 5.538. To calculate the yield of one pound of  
2 butterfat, the result is divided by 3.5, or  
3 5.538 divided by 3.5 equals 1.582. This is the  
4 source of the 1.582 factor which was used in the  
5 formulas in the Department's decision beginning  
6 in January 2000 through the Final Decision in  
7 2002.

8 Applying the shrink for butterfat, the  
9 formula was modified as follows: .90 times 3.5  
10 times .9975, and that product subtracted -- I'm  
11 sorry, I need to restate that. It needs to be  
12 under parens. (0.90 times ((3.5 times 0.9975)  
13 minus 0.015) times 1.09) divided by 0.62 equals  
14 5.5003. Since we want to know the yield of one  
15 pound of butterfat on the farm, we divide 5.5003  
16 by 3.5 for a yield of 1.572. That is the new  
17 yield in the protein formula in the Final  
18 Decision.

19 Here the Department correctly placed the  
20 second set of parentheses in the formula. In  
21 the butterfat formula, it is done incorrectly.

22 The Department's butterfat formula is (3.5  
23 times (.9975 minus 0.015)) equals 3.43875, but  
24 the Department's protein formula is (0.90 times  
25 ((3.5 times .9975) minus 0.015) times 1.09)

1 divided by 62 equals 5.5003.

2 Correctly calculating the butterfat yield  
3 would result in the following: 3.5 times .9975,  
4 and that product -- from that product subtract  
5 0.015 equals 3.47625.

6 3.47625 divided by 3.5 equals .9932.

7 Dividing .9932 by .82 (the yield of  
8 butterfat from one pound of butter) equals  
9 1.211. By placing the parentheses in the wrong  
10 place, USDA incorrectly computed the formula as  
11 follows: 3.5 times .9875 or 3.43875. And that  
12 3.483 -- that 3.43875 divided by 3.5 equals  
13 .9825, and .9825 divided by .82 equals 1.98.  
14 The resulting factor is 1.2. For butter at  
15 \$1.05 per pound, the increase in the producer  
16 price is .0413 cents per hundredweight on 3.5  
17 milk.

18 In addition to incorrectly calculating the  
19 butterfat yield, the 2002 Final Decision failed  
20 to correct the cheese to protein component price  
21 formula. The current formula calculates the  
22 protein price as a residual difference between  
23 the Class III price and the Class IV butterfat  
24 price.

25 In the Tentative Final Decision on Class

1 III and IV prices, published by the Department  
2 on December 7, 2000, and in subsequent  
3 decisions, the Department agreed that the amount  
4 of Class IV butterfat that was to be subtracted  
5 from the value of butter and cheese to calculate  
6 the protein price was to be factored by the  
7 butterfat recovery.

8 The formula developed by the -- adopted by  
9 the Department in the 2000 Tentative Final  
10 Decision utilized an implied butterfat recovery  
11 of 90 percent. Thus, to determine the value of  
12 Class IV butterfat, the Department properly  
13 multiplied the Class IV butterfat price by .9 in  
14 the formula. In the process of reducing the  
15 yield to account for farm-to-plant shrink, the  
16 result was a butterfat yield of 1.572, which is  
17 equivalent to a butterfat recovery of  
18 89.4 percent. In the protein formula, the  
19 corresponding factor should be used. The  
20 point -- the 0.90 in the protein formula should  
21 be replaced with .894 to be consistent with the  
22 calculation of the Class IV butterfat price.

23 Accordingly, we are amending our Proposal 6  
24 to correct for both the change in the butterfat  
25 yield and the calculation of the protein.

1           In Document LL, a document prepared by me  
2           using the same format as used in KK, Comparison  
3           of Impact on Blend by Correcting the Errors in  
4           Applying Shrink to Butter to Butterfat and  
5           Adjustment for Class IV Butterfat in Protein  
6           Price to Current Formula, the impact of the  
7           error in the shrink computation is shown. The  
8           estimated impact is seven cents per  
9           hundredweight and an average loss to dairy  
10          producers each year of 1,683.

11          The farm-to-plant shrink should be removed.  
12          Incorporating so-called "farm-to-plant losses"  
13          into the plant yield factors should be  
14          discontinued. In the 2002 Final Decision  
15          setting the current yields, the USDA stated,  
16          "Butterfat Price."

17          Your Honor, I think this would be a good  
18          place for a break. I think that's what I had  
19          said before.

20          **JUDGE PALMER:** All right. Let's break  
21          here. We'll start again with the Section VII on  
22          page 17, take a ten-minute break.

23          *(At this time a recess was taken.)*

24          **JUDGE PALMER:** Back on the record.

25          **MR. YALE:** Section VII, The Farm-to-Plant



1 Shrink Should Be Removed.

2           Incorporating so-called "farm-to-plant  
3 losses" into the plant yield factors should be  
4 discontinued. In the 2002 Final Decision  
5 setting the current yields, the USDA stated,  
6 "Butterfat Price. This Final Decision continues  
7 to use the NASS price for Grade AA butter in  
8 calculating the butterfat price to be used in  
9 Class IV, and uses the current and the  
10 Recommended Decision's make allowance of .115  
11 cents. However, this Final Decision changes the  
12 use of a .82 divisor in the price formula to a  
13 multiplier of 1.20 in order to provide  
14 consistency to price formulas and to account for  
15 farm-to-plant milk losses." 67 Fed. Reg. at  
16 67918.

17           The Federal Milk Marketing Order system and  
18 its pricing and blending program should not be  
19 used by producers, cooperatives or processors to  
20 mask inefficiencies or to obligate those who  
21 provide milk more efficiently to subsidize those  
22 who do not. Adjustments to the pricing formulas  
23 to account for farm-to-plant shrink is a  
24 carryover from a period of lesser efficiency.  
25 What was then recognized as general industry

1 practice now penalizes those producers whose  
2 cooperatives and buyers have taken the steps to  
3 improve the accuracy and specificity of the  
4 measurements for their milk and their  
5 components.

6 Traditionally a milk hauler would stop at  
7 several farms and use a dipstick to measure the  
8 amount of milk picked up at each farm or other  
9 measuring method. The process is detailed in  
10 Appendix B to the PMO, see Document MM.

11 In the modern day, the hauler scale weighs  
12 his rig before and after a single pickup and  
13 delivers that milk directly to the plant, where  
14 a similar scale observation is made.

15 While we recognize in many instances milk  
16 haulers still have several stops on their route,  
17 this is increasingly the exception and not the  
18 rule. Today, over half the milk in the country  
19 is produced on farms that can deliver a full  
20 tanker of milk. Document NN, Milk Cows: Number  
21 of Operations, Percent of Inventory and Percent  
22 of Milk Production by Size Group, United States  
23 2005-2006, is Table 27 from "Farms, Land in  
24 Farms, and Livestock Operations 2006 Summary,  
25 released February 2, 2007," by the National

1           Agricultural Statistics Service (NASS),  
2           Agricultural Statistics Board, U.S. Department  
3           of Agriculture. It shows that 51.6 percent of  
4           the milk comes from operations that have more  
5           than 500 dairy cattle. At 65 pounds per day per  
6           cow, the lowest milk production in that group is  
7           32,500 pounds per day - well able to fill a  
8           tanker of milk within 48 hours of harvest.

9           And, by the way, I might add that the  
10          48-hour harvest is required by the PMO.

11          Much, probably most of the milk in the next  
12          tier, 200 to 499 head, are in a similar position  
13          because from about 350 cows on up, the producer  
14          has reached the point where a single pickup will  
15          fill a tanker. In the case of the others,  
16          depending on the proximity of the market, they  
17          could still fill smaller straight trucks. Thus,  
18          we are approaching a time where nearly  
19          two-thirds of the milk comes from farms that are  
20          or could be single farm pickups. By the time  
21          this hearing process ends, that number will be  
22          only higher.

23          I have conferred with the employees  
24          responsible for farm weights and tests, milk  
25          marketing reconciliation, and accounting for

1 some of my clients. Those employees indicate  
2 that the net of all overages and underages  
3 between farm weights and tests and plant weights  
4 and tests is a wash. In almost all instances,  
5 the difference between the farm weights and  
6 tests and the plant weights and tests is  
7 significantly less than the .25 percent assumed  
8 by the Federal Milk Marketing Order  
9 presumptions. If there is a consistent error,  
10 steps are taken to identify the source of the  
11 difference and to correct it.

12 The primary reason for the minimal  
13 differences in weights is that all the members  
14 of Select, Continental and Zia, and the  
15 producers with most of the milk marketed by Lone  
16 Star, ship a full tanker load of milk at each  
17 pickup. This leads to greater specificity and  
18 accuracy in the observation of the milk picked  
19 up at the farm. These cooperatives are not  
20 unique. Document N, Table 7 - Average Daily  
21 Delivery of Milk Per Producer to Handlers  
22 Regulated Under Federal Orders, by Marketing  
23 Area, 2006, shows that the average daily pickup  
24 in the Florida, Pacific Northwest, Southwest and  
25 Arizona Marketing Areas is sufficiently large

1 for full tanker pickups of approximately 50,000  
2 pounds from farms within 48 hours of harvest as  
3 required by the PMO. As for the other marketing  
4 areas, there are a number of farms that also  
5 qualify for single farm pickups.

6 To maintain its relevance, the Federal  
7 Order System needs to recognize the changing  
8 technologies and efficiencies in milk production  
9 and marketing. We need to demand that our  
10 regulations fairly compensate producers for  
11 becoming more efficient. Maintaining a  
12 farm-to-plant shrink adjustment in the pricing  
13 formula penalizes those producers who have  
14 become more efficient and caters to those who  
15 could become more efficient, but decline to do  
16 so. The concept of farm-to-plant shrink is a  
17 remnant of the dairy industry that I began  
18 working in 30 years ago; really 34. It has no  
19 place in the modern, globally-competitive  
20 marketplace in which we now compete.

21 Our Proposal 7 would eliminate the  
22 farm-to-plant shrink adjustments from the  
23 pricing formulas. Adoption of Proposal 7 would  
24 signal to end a triple penalty to efficient  
25 producers.

1           First, elimination of farm-to-plant shrink  
2 would result in a minimum pay price premised on  
3 the reality experienced by my clients that true  
4 farm weights are equivalent to plant weights.  
5 The current formula confers an unwarranted  
6 windfall on our buyers who, essentially, pay for  
7 less milk than they receive.

8           Second, because our member farmers have  
9 true weights, eliminating farm-to-plant shrink  
10 from the formulas will end the subsidization of  
11 those producers whose farm weights and tests are  
12 inaccurate and erroneous.

13           Third, because the manufacturing formulas  
14 are the basis for Class I and II pricing  
15 formulas, those prices are reduced unnecessarily  
16 as a result of the farm-to-plant shrink  
17 adjustments.

18           The shrink is not "stickiness" or milk left  
19 in vessels. It results from the weighing and  
20 testing at the farm. Milk hauling is typically  
21 contracted to independent haulers hired by  
22 producers or their cooperatives. Volume losses  
23 are due to the use of "dipsticks" and the  
24 conversion of those imprecise measurements  
25 instead of using actual observed weights. The

1 PMO describes it this way: "Carefully insert  
2 the measuring rod, after it has been wiped dry  
3 with a single-service towel, into the tank.  
4 Repeat this procedure until two identical  
5 measurements are taken. Record measurements on  
6 the farm weight ticket." Document MM, page 4.  
7 The visual measurement of the rod provides an  
8 opportunity for interpretation. Do you read at  
9 the top or the bottom of the meniscus. A hauler  
10 who reads the meniscus of the dipstick at its  
11 highest point credits the producer with slightly  
12 more milk than picked up, while the hauler  
13 benefits by keeping his customer happy. If  
14 those who purchase the milk checked the economic  
15 incentive for this, the farm-to-plant shrink  
16 would effectively end.

17 Fat losses are not necessarily the result  
18 of fat sticking to pipes and tanks. Imagine if  
19 .015 pounds of butterfat per hundredweight  
20 actually stuck to the pipes. In a full tanker  
21 of 500 hundredweight, this is a full 7.5 pounds  
22 of butterfat clinging somewhere in the works.  
23 In a plant that receives even a modest 10 loads  
24 of milk per day, each year 13 tons of butterfat  
25 would be sticking to pipes and tanks somewhere,

1 never to be seen again. At a large, modern  
2 cheese plant where 140 loads of milk are  
3 delivered each day, this amounts to half a ton  
4 of butterfat sticking to pipes each day, a truly  
5 staggering case of clogged arteries. So high is  
6 such a number that the buyer would require, and  
7 obtain, procedures from the sellers of milk to  
8 eliminate these errors.

9 And I want to add, I want to make clear  
10 that we're talking about the farm-to-plant loss  
11 and not losses within the plant itself.

12 The most common source of these butterfat  
13 losses is inaccurate sampling and testing. The  
14 failure to fully agitate the tanks before  
15 measurement, the failure to properly take the  
16 sample, and simple errors in testing account for  
17 the bulk of the "shrink." In other words, the  
18 "shrink" being claimed will include situations  
19 where the plant tester has arrived at lower  
20 tests than the selling cooperative. Today the  
21 market administrators' offices routinely check  
22 test equipment to insure accurate tests. Even  
23 with modern testing equipment, there are still  
24 ranges and each side has the incentive to go to  
25 the end of the range in its favor.



1           Assuming such behavior is okay and  
2           assigning a regulatory cost to such behavior  
3           masks the problem. There is no economic  
4           incentive for the parties to solve the issue.  
5           These losses are not too small to ignore.  
6           Regulations should demand solutions rather than  
7           institutionalize inefficiency in a rule based  
8           upon decades-old analyses.

9           USDA said in the 2002 Final Decision,  
10          "Federal Orders have always contained provisions  
11          for 'shrinkage.' Since handlers have to account  
12          for all receipts and utilization, the shrinkage  
13          provision allows assigning a value to milk  
14          losses at the lowest priced class, providing  
15          explicit recognition that some milk loss is  
16          inevitable in farm-to-plant movement." 67 Fed.  
17          Reg. 67917, November 7, 2002.

18          But in the modern dairy industry, milk loss  
19          is not "inevitable" and those who are  
20          inefficient should not be rewarded by subsidies  
21          from those who have solved the problem. The  
22          marketplace has devised arrangements to contract  
23          for shrink, and reductions to the pay prices for  
24          inefficient producers should be left for the  
25          marketplace to determine.

1           The Department has also said in the Final  
2 Decision, "The loss allowances in the Class III  
3 and IV formulas are intended to reflect actual  
4 losses that are beyond the processing handler's  
5 ability to control. In addition, farm-to-plant  
6 losses cannot be assigned to a lower class value  
7 since the milk solids unavailable for processing  
8 effectively have no value in the Class III and  
9 IV formulas." 67 Fed. Reg. 67917, November 7,  
10 2002.

11           But these losses are within the processing  
12 handler's control. A handler can refuse to  
13 accept milk from shippers that demonstrate  
14 unacceptable farm-to-plant losses. The handler  
15 can request assistance from the market  
16 administrator to check the tanks and the testing  
17 methods.

18           And I might add, it's not in the testimony,  
19 many states also have provisions to observe and  
20 test and verify the weights for purposes of  
21 their weighers' and measurers' licenses.

22           The handler can contract for milk based on  
23 farm tests without shrink and adjust their  
24 payments accordingly.

25           Additionally, the Department stated, "Prior

1 to Federal Order reform, milk pricing for all  
2 Federal Milk Marketing Orders relied on the  
3 Grade B Minnesota-Wisconsin (M-W) price series  
4 and later the Basic Formula Prices. These  
5 prices were determined by manufacturer milk  
6 plant survey reports of Grade B milk purchases  
7 free of government price regulation and  
8 represented a competitive pay price for milk.  
9 The competitive pay price factored the entire  
10 cost of processing milk purchased from farms  
11 into finished dairy products. In contrast to  
12 the competitive pay prices, Federal Order reform  
13 could no longer rely on a competitive pay price  
14 and purposefully chose NASS surveys of  
15 end-product prices and sales to establish Class  
16 III and IV prices with product price formulas.  
17 Many of the plants reporting to NASS purchase  
18 large quantities of milk from individual  
19 producer cooperatives. The end-product pricing  
20 formulas developed under reform were based in  
21 part upon the cost to process raw milk into  
22 finished dairy products." 67 Fed. Reg. at  
23 67917, November 7, 2002.

24 The basic contractual relationship  
25 described in the Final Decision has not changed.

1 Cooperatives can still negotiate with their  
2 members and pay them on actual milk deliveries.  
3 Proprietary handlers can refuse to accept milk  
4 from producers with excessive losses.

5 When the Department incorporated shrink  
6 adjustments in the Final Decision, it made the  
7 following statements to explain the  
8 incorporation of the adjustments:

9 "The hearing testimony, as well as comments  
10 to the Recommended Decision, provide sufficient  
11 evidence to conclude that the Recommended  
12 Decision formulas do not properly consider  
13 farm-to-plant losses that occur. Testimony  
14 indicates that these losses are .25 percent on  
15 all milk solids, and that butterfat milk solid  
16 losses are an additional .015 pounds per  
17 hundredweight of milk. These losses need to be  
18 represented in the pricing formula, according to  
19 these claimants, to account for the out-of-plant  
20 losses that occur prior to processing raw milk  
21 into finished products such as cheese or  
22 butter/powder." 67 Fed. Reg. at 67917.

23 "An adjustment to the price formulas to  
24 account for the difference in milk components  
25 paid for various -- or paid for versus

1 components actually received is appropriate.  
2 Based on the hearing record and comments filed  
3 by numerous parties, the farm-to-plant  
4 adjustment will reflect a .25 percent loss of  
5 nonfat solids, including protein and other  
6 solids, and a .25 percent loss of butterfat,  
7 plus a .015 pound loss of butterfat."

8 **MR. STEVENS:** Your Honor, could we have  
9 this part just inserted in the record because  
10 he's reading from Federal Register citations.  
11 That whole page on -- you know, starting in the  
12 middle of 23 to 24 is all from the Federal  
13 Register, so if anybody has a problem with it,  
14 fine. If not, can we just insert it as read?

15 **MR. YALE:** Okay, I mean I would take that  
16 as read.

17 **MR. STEVENS:** Maybe when you come to those  
18 parts in the future, just refer to the Fed.  
19 Reg., and if anybody has a problem, then have it  
20 be on the record, but otherwise just shorten it  
21 up that way if you could, Ben.

22 **JUDGE PALMER:** Good suggestion. We'll take  
23 it.

24 **MR. YALE:** Okay. Those sections that are  
25 at the Federal Register as cited in the

1 Decision, and then I would also note in the  
2 following thing is that the next page where it  
3 has the cheddar cheese yield contribution and  
4 how those pounds are computed referenced at 67  
5 Fed. Reg. at 67929, and I won't read those.

6 *(The following was not read, but herein*  
7 *inserted into this record:*

8 "An adjustment to the price formulas to  
9 account for the difference in milk components  
10 paid for versus components actually received is  
11 appropriate. Based on the hearing record and  
12 comments filed by numerous parties, the  
13 farm-to-plant adjustment will reflect a 0.25  
14 percent loss of nonfat solids, including protein  
15 and other solids, and a 0.25 percent loss of  
16 butterfat, plus a 0.015 pound loss of butterfat.  
17 These adjustments are reasonable and are  
18 reflected in the respective yield factors used  
19 for computing the milk component prices. 67  
20 Fed. Reg. at 67918.

21 "This final decision incorporates an  
22 adjustment to the respective yield coefficients  
23 of each milk component. The adjustment is based  
24 on an overall factor of 0.25 percent loss of  
25 each milk component and an additional 0.015

1 pounds of butterfat lost between the farm and  
2 the receiving plant. 67 Fed. Reg. at 67918.

3 "These loss allowances are adopted into the  
4 Class III and IV pricing formulas. The  
5 farm-to-plant losses are reflected on the end  
6 products that result from Class III and IV milk,  
7 namely, cheese, dry whey, nonfat dry milk, and  
8 butter. They are reflected in this way to ease  
9 the concerns raised by Select Milk and  
10 Continental Dairy who indicated that reflecting  
11 farm-to-plant losses on the front end of the  
12 product formulas (based on farm milk) may cause  
13 confusion. 67 Fed. Reg. at 67918.

14 "When farm-to-plant losses are incorporated  
15 into the Van Slyke cheese yield formula, the  
16 Van Slyke formula results in the protein price  
17 factors from which the Class III protein price  
18 is derived. 67 Fed. Reg. at 67928.

19 "The Van Slyke Formula Used in This Final  
20 Decision.

21 "Cheddar cheese pounds attributable to  
22 butterfat =  $((0.9 \times 3.5) \times 1.09 / (1 - 0.38)) = 5.5379$   
23 pounds of cheddar cheese.

24 "Cheddar cheese pounds lost due to the  
25 0.015 farm-to-plant butterfat loss =  $((0.9 \times 3.5)$

1            $x1.09/(1 - 0.38) = 0.0237$  pounds of cheddar  
2           cheese,  $5.5379 - 0.0237 = 5.5142$  of cheese after  
3           farm-to-plant loss.

4           "Cheddar cheese pounds lost due to the 0.25  
5           percent solids loss on fat solids = 5.5142  
6           pounds of cheese from butterfat  $x(1 - 0.0025)$ ,  
7            $5.5142 x 0.9975 = 5.5004$  pounds of cheese from  
8           farm butterfat.

9           "Cheddar cheese yield contribution per  
10          pound of fat at farm = 5.5004 pounds of  
11          cheddar/3.5 pounds of fat at farm = 1.572.

12          "Cheddar cheese pounds attributable to  
13          protein =  $((0.8220 x 2.9915) - 0.01) x 1.09/(1 -$   
14           $0.38) = 4.1473$  pounds of cheddar cheese.

15          "Cheddar cheese pounds lost due to the 0.25  
16          percent solids loss on protein solids = 4.1473  
17          pounds of cheese from protein  $x(1 - 0.0025)$  for  
18          farm-to-plant loss =  $4.1473 x 0.9975 = 4.1369$   
19          pounds of cheese from farm protein pounds of  
20          cheddar/2.9915 pounds of protein at farm =  
21          1.383.

22          "Cheddar cheese pounds from standard farm  
23          milk = 5.5004 pounds of cheese from standard  
24          farm butterfat + 4.1369 pounds of cheese from  
25          standard farm protein 9.6615 total pounds of



1 cheese from standard farm milk.

2 "The butterfat-to-protein ratio factor in  
3 this final decision is 1.17 and is derived by  
4 dividing the farm butterfat by the farm protein  
5 (i.e. 3.5 pounds of butterfat/2.9915 pounds of  
6 protein = 1.17). 67 Fed. Reg. at 67929.

7 "The butterfat yield coefficient is changed  
8 from 1.582 to 1.572 to reflect the farm-to-plant  
9 butterfat losses. The remainder of the protein  
10 price formula is unchanged. 67 Fed. Reg. at  
11 67927.

12 "The results of the above computations  
13 yield the following protein price formula:

14 " $((\text{NASS cheese price} - 0.165) \times 1.383) +$   
15  $((\text{NASS cheese price} - 0.165) \times 1.572) - (\text{butterfat}$   
16  $\text{price} \times 0.9)) \times 1.17.$

17 "67 Fed. Reg. at 67929."

18 *(End of insert)*

19 **MR. YALE:** So I'm now in the paragraph just  
20 before the beginning of Section VIII.

21 And that is our Proposal 7 to remove shrink  
22 has the following impact on component prices:  
23 Butter to butterfat yield goes from 1.20 to  
24 1.22. The cheese to protein formula also  
25 changes. Protein factor goes to 1.386 if only

1 the shrink is removed. Butterfat recovery goes  
2 from 89.40 percent to 90 percent and the factor  
3 to 1.582 and the solids not fat goes from .99 to  
4 .9925. Document 00 was prepared by me and  
5 computes the component, class and blend prices  
6 by making those changes to the formulas. The  
7 result on average 2006 NASS prices was seven  
8 cents increase in the blend and \$1,595 on the  
9 annual proceeds for an annual -- or for an  
10 average producer.

11 The need to change the commodity to  
12 component yields.

13 Public data available on dairy products and  
14 yields.

15 The definition of commodity products.

16 Before a discussion of product yields can  
17 be had, we should begin by clearly identifying  
18 the commodity products that are the basis for  
19 the pricing system. It should go without saying  
20 that if the NASS prices, or as we argue later,  
21 CME prices, provide the prices utilized in the  
22 pricing formulas, then the make allowances and  
23 the yields should be tied to the products in the  
24 price series utilized and no other products  
25 should be utilized to determine make allowances

1 or yields.

2 For protein, the proxy for cheese and the  
3 basis for determining the value of milk used in  
4 all cheeses are 40-pound block and 500-pound  
5 barrel commodity cheddar cheese prices. The use  
6 of "commodity" cheddar is significant because  
7 there are a lot of producers of cheddar style  
8 cheeses that do not produce commodity cheeses.  
9 Many of these cheddars are not sold in blocks or  
10 barrels. They come in plastic covered loafs and  
11 wheels. Some are wrapped in black wax or larded  
12 cloth. These are sold as artisan or specialty  
13 cheeses at higher prices. In the United States,  
14 cheddar cheese comes in many varieties. These  
15 include, but are not limited to mild, medium,  
16 sharp, New York style, Colby/Longhorn, white,  
17 Vermont and full fat. New York style cheddar  
18 cheese is a particularly sharp cheese, which  
19 means it's aged, I might add, sometimes with a  
20 hint of smoke. Cheddar cheese is provided for  
21 use as sliced, cubed, shredded and mixed to make  
22 spreads and other uses. The costs of plants  
23 making cheeses that are not reported cannot be  
24 considered. Their costs and practices are not  
25 reasonably comparable to commodity plants.

1           These extra costs are offset by higher sales  
2           prices (or should be).

3                   Regulations specify the standard of  
4           identity for cheddar cheese. Document PP,  
5           Standard of Identity for Cheddar Cheese,  
6           21 C.F.R. Section 133.113, and Document QQ,  
7           Standard of Identity for Cheddar Cheese Used in  
8           Manufacturing, 21 C.F.R. Section 133.114, define  
9           the product subject to the NASS cheese survey.  
10          I will refer to different parts of this  
11          regulation later, but it should be pointed out  
12          now that under Subsection (b)(1), the  
13          ingredients must be milk, nonfat milk or cream  
14          as defined by regulation. Document RR, Dairy  
15          Product Prices Cheddar Cheese, is a copy of the  
16          reporting instructions for cheddar cheese as  
17          used in the pricing formulas. It requires that  
18          the cheese meet the standards of identity for  
19          cheese, and it should be cheddar cheese.

20                   Unique among dairy products, butter is not  
21          defined by regulation, but by statute.

22          21 U.S.C.A. Section 321a, see Document SS. NASS  
23          butter must meet this definition. Document TT,  
24          Dairy Product Prices Butter. NASS butter also  
25          must -- must also meet USDA Grade AA standards.

1           USDA Grade AA standard is reached if butter  
2           (defined by statute) scores 93 out of 100 points  
3           based upon aroma, flavor and texture.  USDA  
4           Grade AA butter will be delicate and sweet in  
5           flavor, with a fine and pleasing aroma.  It is  
6           made from Grade A sweet cream, smooth and creamy  
7           in texture and easily spread.

8           The Standard of Identity for nonfat dry  
9           milk is at Document UU, Standard of Identity for  
10          Nonfat Dry Milk, 21 C.F.R. Section 131.125.  The  
11          requirements for NASS purchases are set forth in  
12          Document VV, Dairy Product Prices Nonfat Dry  
13          Milk.  These include USDA Extra Grade and U.S.  
14          Public Health Grade A.  USDA Extra Grade "means  
15          the laboratory tests show that it possesses a  
16          sweet and pleasing flavor, a natural color, and  
17          satisfactory solubility.  USDA inspectors also  
18          check the instant milk for other quality factors  
19          such as moisture, fat, bacteria, scorched  
20          particles, and acidity."  And this comes from  
21          the USDA Web site at [www.ams.usda.gov/dairy](http://www.ams.usda.gov/dairy) and  
22          then their grade section.

23          I might also add that for Extra -- USDA  
24          Extra Grade that's not stated in here is that  
25          the moisture is a little bit less than what the

1 standard of identity would allow.

2 Dry whey does not have a standard of  
3 identity. Document WW, Dairy Market News  
4 Terminology, does not define dry whey, although  
5 it includes prices for whey powder and whey  
6 protein concentrate. The NASS survey form,  
7 Document XX, Dairy Products Prices Dry Whey  
8 requires that the product meet USDA Extra Grade  
9 edible nonhydroscopic dry whey standards.  
10 Document YY contains the definition for dry whey  
11 when used by USDA in Supplemental Specifications  
12 for Plants Manufacturing, Processing and  
13 Packaging Whey, Whey Products and Lactose.

14 Lack of public data on yields and other  
15 factors.

16 Despite the fact that end product pricing  
17 for FMMOs has been used since January 2000 and  
18 contemplated since the mid 1990s, there still  
19 has been no study on actual yields at the  
20 commodity plants. This is disappointing because  
21 the information that does exist is known by  
22 processors but not producers. This lack of  
23 available information limits producer  
24 participation in hearings such as this and  
25 hinders the ability to establish active

1 formulas. But the total absence of complaints  
2 by plants regarding the current yields speaks  
3 enormously in favor of the proposition that they  
4 are too low. With the limited data available to  
5 us, we will show that that is in fact the case.

6 There is a total lack of public data on  
7 this issue. It is not in the interest of the  
8 processors to provide this information. Higher  
9 yields will result in higher producer prices.  
10 If the current yields were too high for any  
11 processor, let alone ones of average efficiency,  
12 there would be requests to lower the yields.  
13 Since there are no such complaints, it means  
14 that the yields are below the lowest yielding  
15 plants! Otherwise, we would expect complaints  
16 from processors similar to those made regarding  
17 make allowances.

18 Although the adjustment of yields has a  
19 significant impact on the accuracy of the  
20 formulas, USDA has not asked for the  
21 information. RBCS provided some yield  
22 information, although it was not requested by  
23 the participating plants. After all, those  
24 requesting the RBCS study had an interest in the  
25 lower minimum prices, not raising the yields.

1 Likewise, the Cornell study did not seek yield  
2 information, although the make allowances  
3 surveyed have real meaning only relative to the  
4 yields of the plants. CDFA provides some yield  
5 information which can be made usable.

6 Changing factors in the cheese to protein  
7 formula.

8 Our proposal includes an adjustment to the  
9 yield of pounds of cheese from one hundredweight  
10 of milk. Our proposed change is due to three  
11 different factors. First, the current formula  
12 assumes that a plant recovers 90 percent of the  
13 butterfat when making cheese. We propose  
14 changing this recovery percentage to 94 percent  
15 to reflect modern efficiencies.

16 Second, the current formula assumes that  
17 casein represents 82.2 percent of the true  
18 protein in milk. But at average producer tests,  
19 the actual percentage of casein in milk is 83.25  
20 percent. We propose changing the percentage of  
21 casein in the formula to reflect the more  
22 accurate percentage of casein.

23 Third, the fat to protein ratio in the  
24 cheese to protein formula used to adjust protein  
25 to compensate for the difference between Class



1 III and Class IV butterfat should be changed to  
2 1.214 to reflect average producer tests.

3 The yield factor in the formula is an  
4 indivisible part of the formula.

5 The make allowances are a function of the  
6 yield. If we take the total cost of making  
7 cheese (or any other manufactured product) and  
8 divide those costs by the total pounds of  
9 product produced, a cost of production per pound  
10 of product is determined. In the minimum price  
11 formulas where we are attempting to approximate  
12 the manufacturing allowance for a plant of  
13 average efficiency, the yield of product assumed  
14 by the formula has a direct impact on the make  
15 allowance. If the costs of a plant are divided  
16 over a smaller volume of produced product, a  
17 higher make allowance results.

18 Under the current formulas, producers are  
19 actually "paying" for higher yields at the  
20 plant. Make allowances cover all costs  
21 associated with operating the plant, including  
22 depreciation on the equipment and systems that  
23 increase butterfat recoveries and yields. Make  
24 allowances include a return on investment for  
25 the equipment that increase yields. These costs

1 are reflected in the cost surveys that form the  
2 basis of the make allowances. Fairness and  
3 consistency require that the yields be  
4 considered and updated so that producers share  
5 in the benefits gained from the additional costs  
6 passed back to them.

7 Looking at only make allowances and  
8 ignoring the product pricing and the yields  
9 results in an incomplete picture. The end  
10 product pricing formulas are proxies for what  
11 the milk is worth. The concept is to determine  
12 what a plant must keep to pay costs and be  
13 profitable and what is left is what can be paid  
14 for milk. To determine that product price, one  
15 needs to know how much milk will be received,  
16 how much product comes from that milk (or  
17 yield), and how much the product is sold for (or  
18 product price). Any business that ignored how  
19 efficient it was would not long survive.

20 Make allowances without direct linkage to  
21 the product being made and the yields are  
22 meaningless. The make allowances also reflect  
23 the type of vats purchased, their butterfat  
24 recovery, whether they are designed to capture  
25 whey and separate and return the butter to the

1 vat, ultrafiltration that increases recovery  
2 both of fat and the amount of casein to make  
3 cheese. The yields represent the plant  
4 management and its ability to produce sufficient  
5 cheese from a quantity of milk at a price.

6 The use of the Van Slyke formula.

7 USDA has used the Van Slyke formula as the  
8 basis for computing Class III prices. I  
9 prepared Document ZZ which sets forth the  
10 Van Slyke formula. The formulas solve for the  
11 amount of cheese from milk as well as for only  
12 protein and butterfat yields. The formulas are  
13 as follows:

14 Pounds of cheese equals the butterfat  
15 percentage -- or recovery percentage times the  
16 butterfat pounds. That product is added to the  
17 percentage of casein times the protein pounds.  
18 That product is -- you subtract .01 and then you  
19 add those two and take that times .109 and  
20 divide that by 1 minus the moisture content.

21 Pounds of cheese from butterfat equals  
22 butterfat recovery percent times butterfat  
23 pounds times .109 and that is divided by the dry  
24 matter or one minus the moisture percentage.

25 The pounds of cheese from protein equals

1 the percent of casein times the protein pounds  
2 minus .01, that taken times 1.09, and that is  
3 divided by 1 minus the moisture percentage.

4 The parts of the formula at issue are the  
5 percent of casein in protein and the butterfat  
6 recovery rate. The fat to protein ratio is a  
7 creature of the Class III protein component  
8 pricing.

9 Each of these three have impacts on the  
10 pricing. I prepared Document AAA, Sensitivity  
11 of Class, Component, and Blend Prices to Various  
12 Change in Cheese to Protein Formula, which looks  
13 at how small but significant changes in these  
14 values influence the ultimate prices producers  
15 receive. The numbers were derived by using a  
16 modification of the worksheets such as Document  
17 KK.

18 I also prepared Document BBB, Sensitivity  
19 of Class, Component, and Blend Prices by Changes  
20 to Butterfat Recovery, Casein Percent and Fat to  
21 Casein Ratio, which does not imply but actually  
22 computes the yields based upon the changes to  
23 the butterfat recovery and percent of casein in  
24 the protein. Using this worksheet and setting  
25 the values to those in the current formulas, I

1 used the Scenario function of the Quattro  
2 spreadsheet program calling for iterations as  
3 discussed below. Each of the three values,  
4 butterfat recovery, casein percent and fat to  
5 true protein ratio were independently and  
6 individually adjusted. Document AAA summarizes  
7 the result of that analysis.

8 Table 1 of Document AAA considers the  
9 impact of changing the implied butterfat  
10 recovery in the formula from the stated, but  
11 reduced, 90 percent by 1 percentage increments  
12 to 100 percent. The impacts relate changes from  
13 the current formula. Since protein is only used  
14 in Class III and, depending on the Class IV  
15 price, Class I, the changes to those prices at  
16 the standard tests and at actual test are  
17 computed as well as a blended value. For  
18 example, changing the formula to imply 94  
19 percent would result in a 10.5 cent increase in  
20 the blend price.

21 Table 2 of Document AAA shows the effect of  
22 changing the casein as a percent of protein. As  
23 explained in detail later, the current casein  
24 percent of 82.2 percent inaccurately reflects  
25 the percentage of casein in, and I want to add

1 the average milk producer milk.

2 This table compares the result of .0 -- I'm  
3 sorry, this table compares the result of a  
4 .10 percent change in this factor on the  
5 component, class and blend prices. For example,  
6 a percentage of 83.2 percent would result in a  
7 change of 2.3 cents per hundredweight in the  
8 average blend, or over a thousand dollars per  
9 year to an average producer, assuming no other  
10 changes.

11 Table 3 of Document AAA looks at the  
12 sensitivity of changes to the butterfat to true  
13 protein ratio. Currently in the formula it is  
14 1.17. The table looks at the impact by raising  
15 it to 1.23 at 0.01 increments. For example, use  
16 of 1.23 results in a 3.7 cent blend price  
17 increase.

18 In summary, consideration of these factors  
19 and arriving at the most appropriate will have a  
20 significant impact on producer blend prices.

21 Use the correct casein percent in true  
22 protein of milk at average test.

23 We propose adjusting the formula to reflect  
24 the ratio of casein to true protein at weighted  
25 average producer test. USDA uses the weighted

1 average price as reported by NASS as the  
2 starting point for formulas. It is appropriate,  
3 in fact virtually required, that the weighted  
4 average or averages, where appropriate, be used  
5 in the other parts of the formula.

6 The USDA decided early on in the FAIR Act  
7 order reform to use true protein rather than  
8 total (crude) protein. The difference between  
9 true protein and total protein is the amount of  
10 non-protein nitrogen, or NPN. True protein is  
11 not a fixed percent of total protein.  
12 Traditionally, true protein was measured and the  
13 total protein was calculated by adding a factor  
14 back to the true protein. This is one reason  
15 USDA decided to use true protein. The amount of  
16 NPN in crude protein varies, but a study done by  
17 personnel at USDA AMS and Cornell determined  
18 that a fair factor for non-protein nitrogen is  
19 an unchanging .19. Document CCC, David M.  
20 Barbano and Joanna M. Lynch, "Frequently Asked  
21 Questions: Changing from Crude Protein to True  
22 Protein," May 14, 1999.

23 Since true protein for milk with a crude or  
24 total protein test of 3.20 is 3.01, milk with a  
25 crude protein test of 3.1 would have a true

1 protein of 2.91, not 2.916, which would be the  
2 calculated true protein if calculated by a  
3 simple ratio.

4 Because non-protein nitrogen is a fixed  
5 number, the use of a fixed percent of casein in  
6 the Van Slyke formula can result in  
7 discrepancies if producer milk has a protein  
8 test different from that assumed when the  
9 percentage in the formula is calculated.

10 Document DDD, Comparison of Casein in Crude  
11 Protein to Implied Casein in True Protein at Two  
12 Rates, was prepared by me to analyze the  
13 relationship between casein in crude protein and  
14 in true protein in tabular form. In the Final  
15 Decision of 2002, USDA stated that the percent  
16 of casein in crude protein was 78 percent, 67  
17 Fed. Reg. at 67928. With that as a starting  
18 point, one can compute the amount of casein in  
19 crude protein by simple multiplication.

20 In Document DDD, the leftmost column,  
21 Percent of Crude Protein, lists various crude  
22 protein percentages from 2.9 percent to  
23 4.0 percent in increments of .05 percent. The  
24 second column, NPN, is the amount of non-protein  
25 nitrogen, a fixed .19 percent. The third



1 column, True Protein, represents the amount of  
2 true protein which is the simple difference of  
3 the crude protein and the NPN. The fourth  
4 column, Percent of Casein in Crude Protein, is  
5 the percent of crude protein which is casein, or  
6 78 percent. In the fifth column, Casein, I  
7 computed the amount of casein by taking  
8 78 percent of the crude protein.

9 The sixth column, Percent of Casein in  
10 Formula, represents the factor used in the  
11 current cheese to protein portion of the  
12 component pricing. The seventh column, Casein  
13 Implied in Formula, computes the amount of  
14 casein that is implied in the current formula by  
15 taking the percent of casein in the formula  
16 times the true protein. The eighth column,  
17 Implied Less Actual, determines the difference  
18 between the casein computed by taking 78 percent  
19 of the crude protein and the casein computed by  
20 taking crude protein less .19 and that times  
21 82.2 percent as in the current formula.

22 The ninth column, Percent of Casein  
23 Proposed, uses 83.25 percent instead of the  
24 82.2 percent. Document O and Q show the average  
25 butterfat tests and true protein of producer

1 milk in each of the orders. The average for  
2 butterfat is 3.69 percent and for true protein  
3 is 3.05 percent. Additionally, Documents BB and  
4 CC show the percent of butterfat and protein  
5 used in Class III. The latter shows an average  
6 of 3.69 percent butterfat and 3.04 percent for  
7 orders that pay on components.

8 The current formula has an implied  
9 82.2 percent casein. This is incorrect for  
10 producer milk at the average weighted tests in  
11 the market. Document DDD shows that all farmers  
12 with less than 3.56 percent true protein are  
13 penalized by the inaccurate implied percentage  
14 in the current formulas. That is the point when  
15 82.2 percent of true protein equals 78 percent  
16 of crude protein. That is a full half point of  
17 protein higher than the average. We do not have  
18 studies showing the distribution of protein  
19 rates, but the number now used as a basis for  
20 milk pricing only applies to higher protein  
21 yield cattle, mostly in the Jersey, Ayrshire, or  
22 Brown Swiss breeds. And Guernsey, for those who  
23 have noticed that.

24 The formulas that use weighted average  
25 prices for commodities should also use weighted

1 averages for true protein. The range of the  
2 average is very small. Since 2000, the all  
3 market average is 3.00 with a standard deviation  
4 of plus or minus .07. To accommodate the highs  
5 and lows would mean utilizing a factor for  
6 casein from 8.2 percent to -- 83.2 percent to  
7 83.3 percent. 83.25 percent is sufficiently  
8 accurate.

9 With that in mind, the appropriate ratio of  
10 casein to total protein is 83.25 percent at the  
11 weighted average true protein test within the  
12 Federal Milk Marketing Orders. Applying this  
13 casein percent to the Van Slyke formula, the  
14 result would be as follows:

15 The protein yield equals the casein percent  
16 times the protein pounds. That product minus .1  
17 and that difference times 1.09 divided by the  
18 dry matter, and I worked down, it's in the  
19 document, each of the numbers, it comes down to  
20 per pound 4. -- or it comes down to a total of  
21 4.202519, and to reduce that to the yield for a  
22 pound of protein, you divide the 4.202519 by  
23 2.9915 and that comes up with a result rounded  
24 to three decimal places of 1.405.

25 Document EEE, Comparison of Impact on

1 Class, Component and Blend Prices by Changing  
2 the Percent of Casein in True Protein to Current  
3 Formulas, was prepared by me and changes only  
4 the protein yield in the formulas and then  
5 recomputes the component, class and blend  
6 prices. The change would increase the Class  
7 III, and through that the Class I, prices by  
8 seven cents and overall improve blend prices by  
9 five cents, for an annual average gain per  
10 producer of \$1,277.

11 The butterfat recovery in the cheese to  
12 protein formula should be adjusted.

13 The current cheese formulas price protein  
14 based upon an effective butterfat recovery of  
15 89.40 percent. This recovery is calculated by  
16 reducing an assumed 90 percent recovery by a  
17 factor for farm-to-plant shrink for all milk and  
18 for butterfat. The basis for using 90 percent  
19 before the farm-to-plant shrink is found in the  
20 2002 Final Decision, which is stated in here and  
21 is found at 67 Fed. Reg. 67907, 67929,  
22 November 7, 2002.

23 These bases stated in the Final Decision  
24 are unreasonable and unsupportable today.  
25 First, Kraft does not make the commodity cheddar

1 cheese reported in the NASS survey, but makes a  
2 higher quality cheese that has a different value  
3 and is produced in a manner different than  
4 commodity cheddar cheese, testimony of Mike  
5 McCully, page 1116-18, March 2, 2007.

6 Similarly, Leprino does not make any commodity  
7 cheese. In any event, basing the value of milk  
8 produced by farmers in 2007 using plant  
9 efficiency information for cheese vats now more  
10 than 20 years old is simply wrong.

11 The final statement in the decision, "The  
12 preponderance of the record indicates that most  
13 cheese manufacturers should be able to obtain a  
14 90 percent butterfat recovery" is true. So low  
15 is the 90 percent to reality that not a single  
16 plant has complained about the yield. If it  
17 represented average production in cheese plants,  
18 then there would be someone on the short side.  
19 The only parties on the short side of this  
20 factor are producers.

21 In addition to the inapplicability of the  
22 previous rationale for a 90 percent butterfat  
23 recovery, the surveys and studies relied upon to  
24 set make allowances show that plants are, in  
25 fact, realizing yields significantly higher than

1 those implied in the current price formulas.

2           Parenthetically, I want to note that those  
3 of you who received a preliminary copy of my  
4 statement, that the portions found in it at  
5 approximately pages 36 to 39 have been withdrawn  
6 and the following statement, which is my sworn  
7 statement, will differ from those pages.

8           California in its plant cost surveys  
9 provide some information regarding yields. The  
10 CDFA 2003 cost study for 2002 reported a  
11 weighted average yield of 10.85 pounds of cheese  
12 per hundredweight of milk. The weighted average  
13 moisture was 37.08 percent and the weighted  
14 average vat tests were 3.95 percent fat and 8.95  
15 percent solids not fat, Document FFF, CDFA  
16 Cheese Processing Costs Released November 2003.

17           For 2003, CDFA reported a weighted average  
18 yield of 10.92 pounds of cheese per  
19 hundredweight of milk. The weighted average  
20 moisture was 37.12 percent, and weighted average  
21 vat tests was 3.94 percent fat and 8.95 percent  
22 solids not fat, Document GGG, CDFA Cheese  
23 Processing Costs Released November 2004.

24           For 2004, CDFA reported a weighted average  
25 yield of 11.53 pounds of cheese per

1 hundredweight of milk. The weighted average  
2 moisture was 37.04 percent, and the weighted  
3 average vat tests were 4.02 percent fat and  
4 9.05 percent solids not fat, Document HHH, CDFA  
5 Cheese Processing Costs Released November 2005.

6 Exhibit III, Cheese Manufacturing Costs,  
7 Current Study Period: January Through  
8 December 2005 with Comparison to the Same Time  
9 Period Prior Year (2004), reported a weighted  
10 average yield of 11.89 pounds of cheese per  
11 hundredweight of milk for all cheeses and 12.20  
12 pounds of cheese per hundredweight of milk for  
13 40-pound blocks. For all cheeses the weighted  
14 average moisture was 37.22 percent and the  
15 weighted average vat tests were 4.35 percent  
16 butterfat and 9.30 percent solids not fat. For  
17 blocks, the weighted average moisture was  
18 38.04 percent, and weighted average vat tests  
19 were 4.29 percent fat and 9.17 percent solids  
20 not fat.

21 These reports are summarized by me at  
22 Document JJJ, Estimating California Butterfat  
23 Recovery, Table 1, Summary of CDFA Cheese  
24 Processing Yields.

25 Not yield -- okay. These numbers do not

1 directly answer the butterfat recovery rate.  
2 Based upon a phone conversation I had with  
3 Venetta Reed of CDFA, the yields -- I confirmed  
4 that the stated yields are vat yields, not  
5 yields from producer milk. Relying on the  
6 standard of identity to make commodity cheddar  
7 cheese, the input has to be milk, cream or skim  
8 milk. Document PP. CDFA reports the  
9 utilization of solids fat and nonfat in its  
10 classes. Class 4b is equivalent to the FMMO  
11 Class III. Document KKK, CDFA Class Utilization  
12 2002 through 2005, is a report that I prepared  
13 that comes from the CDFA Web site where it  
14 reports utilization by each class. I took the  
15 Excel report available at that site and inverted  
16 it so that it starts with 2002 and ends with  
17 2005 (to match the time of the studies). CDFA  
18 has the practice of putting the most recent data  
19 at the top, but it is otherwise the same data  
20 available there. Document LLL, Milk Pooling  
21 Comparative Statement 2004 to 2005, is a report  
22 of CDFA summarizing pool data.

23 Cheese yield is a function, in part, of  
24 protein but not total solids not fat.  
25 California does not report protein separately



1 from the other solids not fat. To arrive at the  
2 protein value, it is necessary to look at other  
3 sources. One such source is information from  
4 Dairy Herd Improvement Association, or DHIA.  
5 The Document MMM, Annual Summary DHIA Records  
6 California 2002 through 2005, comes from the  
7 California DHIA Web site, [www.cdhia.org](http://www.cdhia.org). The  
8 information from these sheets came from the  
9 annual summaries at that Web site. These  
10 reports are summarized in Document JJJ, Table 2,  
11 Summary of Component Tests Reported by DHIA  
12 California.

13 To arrive at what the butterfat recovery is  
14 at these plants, it was necessary for me to use  
15 a mass balance of a cheese and whey powder plant  
16 computation. Exhibit 34 is a spreadsheet  
17 compared entirely by me. It represents the flow  
18 of components into a cheddar cheese plant and  
19 their allocation to products and by-products.  
20 This mass balance will permit us to approximate  
21 the butterfat recoveries necessary to obtain the  
22 kind of vat yields that were identified in the  
23 CDFA exhibits.

24 The process explained in this mass balance  
25 represents a simplified version of mass balances

1 for cheese and other product plants that I have  
2 done for my clients as we consider issues of  
3 plant participation and negotiation of prices  
4 for milk. It was totally prepared by me relying  
5 upon information that was available from public  
6 and reliable private sources. I removed the  
7 confidential information. The methodology has  
8 been tested against others who have prepared  
9 similar mass balances in the process of these  
10 negotiations and has proven itself to be  
11 appropriately designed.

12 Dr. Barbano at the May 2000 hearing on  
13 manufacturing formulas presented his own version  
14 of a mass balance. I did not use it because I  
15 did not prepare it, but it, too, fairly  
16 describes the entirety of the cheese making  
17 process. It is our request that this format be  
18 used in all surveys of plants for costs in order  
19 to establish the kind of mass balance found in  
20 the plants for which the make allowances are  
21 fixed. It provides a greater picture.

22 And at this point I want to talk about this  
23 Exhibit 34 in a little more detail.

24 The purpose of this modeling is -- is to  
25 try to summarize all of the complex data

1 necessary to determine the yields in the plant  
2 into some much more simply mathematical  
3 statements. It has the potential to reduce the  
4 cost of some of the experimentation to arrive at  
5 particular numbers and it can be extrapolated to  
6 give us some idea of what is going on in real  
7 plants. It is, in fact, really a mathematical  
8 model of a component flow through a cheese whey  
9 powder plant. I'm not proposing that you can go  
10 home and make cheese based upon this report.

11 The report across the top has a description  
12 which is self-explanatory. There's an unlabeled  
13 column we'll talk about in a minute. The total  
14 volume, butterfat, true protein, lactose, other  
15 solids, total solids not fat, total solids in  
16 water. The other solids in this case differs  
17 from what that's used in the Federal Order  
18 program in that it represents the solids that  
19 are not fat, that are not protein, and are not  
20 lactose, generally ash and minerals.

21 That unlabeled column has the inputs that  
22 are brought into the program. We'll explain  
23 those in detail when we get there, but virtually  
24 everything in that column, I think with the  
25 exception of the cheese yield, is computed.

1           In addition, other inputs into this  
2 particular form would be found down where we  
3 have -- down near the bottom of the first page  
4 on total vat, talks about butterfat recovery  
5 rate, it's 95 -- or 94 percent, 82.2 percent on  
6 the protein, and 38 percent for the water.

7           I want to summarize what happens here. I  
8 anticipate that there will be extensive  
9 Cross-Examination that will develop it further.

10           We start in the plant with the inputs of  
11 the milk, and we start with raw milk, and I have  
12 set the volume at one million pounds. Doesn't  
13 matter how soon or whatever. I just put the  
14 volume one million. And using tests, and I  
15 believe these were sample tests of true out of  
16 one of the California reports, you will see a  
17 line of across there in terms of actual pounds  
18 and then occasionally under each of these in  
19 lower -- or much smaller fonts will be their  
20 percent of the total volume that is in that  
21 component. It kind of gives us a way of  
22 following what's going on.

23           So we have the butterfat, the protein, the  
24 lactose solids, all that came in. The program  
25 would have allowed for the use or the

1 introduction of starter condensed. As far as  
2 the starter, the only information I had I felt  
3 was confidential. It amounts to -- I think by  
4 standards of identity to only 1 percent or less  
5 of the input, and I decided not to put that in  
6 there. I don't think it changes really what I  
7 want to show this -- this report to be.

8 The condensed, you can allow for condensed  
9 as a fortification. Again, it wasn't necessary,  
10 and all I wanted to reflect again what the milk  
11 was that -- the effect of milk coming delivered.

12 The whey cream is the amount of whey cream  
13 that was recovered from a prior process, a vat  
14 of a similar amount of milk and similar  
15 components. A hundred percent means we  
16 incorporated all of that that was available.

17 We then gross out the volumes, and I put in  
18 a single line here of .15 percent of in plant  
19 product reduction. In the models that we did,  
20 we actually went step by step as product was  
21 being handled and based upon what manufacturers  
22 would testify or tell us the losses were, what  
23 the experience was, we put a number in there.  
24 This is a number, I put it in, the purpose of  
25 this is to reflect that there are plant losses

1 considered, and in the end of the day, it  
2 doesn't change our position where we want to go  
3 with these yields.

4 One may suggest other numbers and that's  
5 fine, that's why the inputs are there. Other  
6 numbers could be put to see what the impact  
7 would be.

8 And then we have the net amount of the  
9 product that's available to process. In this  
10 particular case, we separated all of the milk;  
11 it's not necessary, you know, plants can work  
12 out that percentage or whatever, but just for  
13 this one we separated all the milk, so we end up  
14 having the cream and the butterfat or the cream  
15 and the skim milk available to be added to the  
16 vat. And then that made the skim milk available  
17 in some cases to be fortified through a UF  
18 process. Sometimes the UF isn't used, sometimes  
19 the UF is used off site and it's a supply of  
20 milk and the milk is delivered already gone  
21 through the filtration process. The whole  
22 purpose of it is just to allow for that to show  
23 how that might play in there. Again, the  
24 percentage of UF milk to be used can vary, it's  
25 there, and that would leave the amount of milk

1 that was UFed, the amount of skim milk that's  
2 not UFed and then there's a certain amount of  
3 solids that remain in the permeate.

4 Traditionally, and it varies, but as you  
5 pass milk through the UF membrane, you lose --  
6 the retentate, the part that you want to use,  
7 keeps only about a third of the lactose and  
8 about a third of the other solids, but generally  
9 keeps most of all the protein, so that's --  
10 those are the solids passed through.

11 And then that gives you this column for the  
12 ultrafiltered milk retentate. The 300 percent  
13 indicates a 3X, three-to-one concentration.

14 And then we have the permeate that comes  
15 out, so that's the result of the  
16 ultrafiltration.

17 We then take for the vat contents, we add  
18 any milk that was not separated. In this case  
19 there was none. The skim milk that's not UF,  
20 and there was some. The cream, the condensed,  
21 the whey cream and the subtotal.

22 And then the question is -- and this varies  
23 from plant to plant how it's done. Some might  
24 have put in all of the UF, and it probably  
25 should have been in this case, and then they

1 would bring in the unused skim, but the question  
2 is to balance the vat to some standard, and  
3 there's a lot of research out there, and cheese  
4 makers or anything else, they all have their  
5 different versions, depends on the variety, but  
6 one of the common numbers used is that the  
7 casein to fat ratio is .70, so using that as a  
8 ratio, then we -- and we standardize to the  
9 cream because it's got the higher values, so all  
10 of the cream is used and then we try to find out  
11 enough solids to bring the casein up to that  
12 ratio, and that's the way this model's  
13 established.

14 Others can do it differently. I've seen it  
15 where it's -- they use a different way of doing  
16 the ratio and they standardize to the solids,  
17 not fat, but that's how this one was done.

18 And as a result of that, to get that mix up  
19 we determined that it was necessary to add of  
20 the -- the skim milk another 110,000 pounds.  
21 And that gave us a total vat of about  
22 885,000 pounds of product. And you can now see  
23 that the yields are 4.4 -- not the yields, the  
24 percentages are 4.40 percent for the butterfat  
25 and 3.70 percent for the protein, as compared to



1 when we started out with 3.68, 2.96, and that's  
2 why the comment that its vat test is important  
3 to understand because that's not necessarily  
4 producer tests and that's -- ultimately we want  
5 to know what that does to producer milk.

6 I do a computation of the percentage that's  
7 used of the proteins that come from the MPC or  
8 the UF, the percent of the proteins, and we then  
9 compute using the Van Slyke formulas the  
10 butterfat yield and the protein yields and from  
11 that compute the amount of cheese and protein  
12 that's in the -- in the mix in this model.

13 Now, I'll be the first to admit I'm not a  
14 cheese maker in the sense of knowing how to get  
15 those exactly mixed, but the formula and the  
16 methodology permits that ability to make those  
17 adjustments to fit something that's right.

18 Based upon this percent -- or this  
19 percentage of butterfat recovery, this casein as  
20 a percentage of true protein and a 38 percent  
21 moisture, we computed, using the Van Slyke  
22 formula, 12.61 percent. And that gives us the  
23 amount of volume that goes into the cheese.

24 We go over to the next page, I've just  
25 summarized the two to show how they come

1 together, the vat ingredients and the amount of  
2 cheese.

3 Now, what's left of that, we have a stream  
4 that goes into the whey processing. I have put  
5 the process in here more for example than to  
6 show, you know, what the exact amounts would go,  
7 but typically it's a situation where you skim  
8 out the whey butter, make it available to go  
9 back into the vat, and then what is left plus  
10 the permeate and all these others are mixed up  
11 and provides a fluid sweetened whey cream which  
12 then goes through a series of concentrations,  
13 either RO or evap or other processes and then  
14 dried to reach a powder of 96.5 percent.

15 Now, to make sure that everything's been  
16 covered, we have this mass balance of the  
17 solids, and you can see the total inputs, which,  
18 by the way, reflect the actual total inputs  
19 before we took out the in-plant losses, and then  
20 identified where those different went, and you  
21 can see that the solids total out to equal so  
22 that we have accounted for all the solids.

23 Now, I did an analysis down here to talk  
24 about -- and this is really the key part of why  
25 I did this report. This is the number that I

1 want to get to to illustrate why I think that  
2 our approach of looking at butterfat recovery is  
3 wrong. The focus has tended to be on the single  
4 Van Slyke formula looking at a single vat. It  
5 does not represent the answer to this question:  
6 If a producer delivers a hundred pounds of fat  
7 to a plant, how much of that fat goes out in  
8 cheese outside of the plant. Taking the  
9 Van Slyke formula to a single vat for a  
10 commodity cheese plant is not going to be solved  
11 by that.

12 So what we have here is the pound of  
13 cheese, we have the pounds of butterfat in raw  
14 milk, which is 36,800 pounds. The butterfat in  
15 the cheese as a percentage of that raw milk is  
16 99.48 percent. Now, if you look at the vat --  
17 the fate that showed up in the cheese through  
18 this one vat, it's 94.25 percent. The point  
19 that comes out here is that this would have  
20 been -- theoretically the way this model was set  
21 up is this was the second vat. The first vat  
22 used exact same information, the same process,  
23 same percentages, same inputs, same components  
24 and it yielded approximately -- and it shows up  
25 here at the top where we brought it in in terms

1 of whey cream, approximately 4,800 pounds of  
2 whey cream. That whey cream got added in, but  
3 that was from the prior producer. As you do  
4 this over a number of vats through the process,  
5 you get a much higher yield because you're now  
6 taking -- whatever the yield is, say it's  
7 90 percent fat recovery, you're taking  
8 90 percent the first time, you take that  
9 10 percent with some loss, it gets added back  
10 into the vat and the next vat gets 90 percent of  
11 the fresh milk that is in there plus the  
12 90 percent of the whey, so you have now  
13 recovered almost 99 -- theoretically 99 percent  
14 of the butterfat that the producer delivered to  
15 the plant.

16 And that is the fundamental purpose of why,  
17 you know, we did this was to illustrate how to  
18 get to that. And you can see a difference in a  
19 vat yield and an ingredient yield.

20 Now, what's the impact of that. If you  
21 take -- and, by the way, I do want to note, I  
22 came up in reality, I think the butter -- or the  
23 whey yields should have been lower than they  
24 were. If you take the pounds of cheese now that  
25 are produced at the plant times the cheese

1 price, so you're now selling -- the plant's  
2 going to sell all the cheese that it makes, and  
3 you take that times the cheese price, and I used  
4 the average price that was reported for NASS of  
5 1.247, I came up with a value of \$139,221.

6 Now, if, again, using the raw milk costs  
7 that are associated with the plant using in the  
8 Class III formula, you're only acquiring that on  
9 about 8 -- about 9.8 pounds instead of 11 point  
10 some, and it's 117,794.

11 I also estimated that in reality out of  
12 this in terms of powder based upon the amount of  
13 valuing the whey powder at the protein content  
14 rather than its total weight, you've got an  
15 equivalent of about 16,977 pounds of whey  
16 powder, and at 32.85 cents, again, the average  
17 NASS price, that gives you \$5,577, so the gross  
18 between the cheese and the whey is \$144,798 off  
19 of this milk that came in.

20 Using the Class III pricing system, which  
21 is how they pay for this, without any premiums  
22 or anything, it's \$117,794. Now, ordinarily in  
23 one of these mass balances we would go into a  
24 pro forma income statement where all of the  
25 costs would be detailed in great detail and

1 prices affixed and added up. All of that would  
2 have been confidential and it's really  
3 irrelevant, so what I've done, assuming that you  
4 have a make allowance equal to what is part of  
5 the formulas currently, you take out for the  
6 111,645 pounds of cheese at 16.82 cents, that's  
7 \$18,779. And for the 16,977 pounds I equivocate  
8 on a protein basis of the whey powder, was --  
9 \$3,320 was the cost, for a total manufacturing  
10 cost of 22,100.

11 The result of this is is that there was a  
12 profit by taking the amount of cheese and whey  
13 produced at the plant and the yields that were  
14 done, subtract out the costs as we provide under  
15 the Federal Order program, which is just on --  
16 it's on all the milk, and then taking the make  
17 allowance on all of the powder and all the whey  
18 produced, we were able to come up with a profit  
19 still of about \$4,900, or about 49 cents -- or  
20 about five cents a hundredweight -- I'm sorry,  
21 49 cents a hundredweight and five cents a pound.

22 Now, am I saying that every cheese plant  
23 makes an additional five cents over the plant?  
24 This is suggesting that that's not unlikely.  
25 The point is is that it's to show to us two

1 things. Number one, as I pointed out, the  
2 butterfat utilization is understating it  
3 grossly. And by not including the yield and  
4 understanding the make allowances, we are  
5 implicitly providing an additional economic  
6 factor benefit to the plants that has not been  
7 considered to date on any of these issues.

8 Okay. I'm going to be returning back now  
9 to the -- I think I've covered all that.

10 Oh, one other issue that I want to point  
11 out that this helps us with. Using the ratio of  
12 .70 of casein to fat, we can go back to those  
13 California vats where we know what their  
14 butterfat was and estimate a likely casein  
15 content or protein content and determine what  
16 the butterfat recovery is.

17 And I did that by a formula of taking .7  
18 times the butterfat percent and dividing that by  
19 .78, and that gives us a ratio of fat to casein,  
20 and using that number we can approximate a  
21 protein value in those vats. And the result of  
22 that was for 2002, 3.54 percent; 2003,  
23 3.54 percent; 2004, 3.61 percent; and 2005,  
24 3.90 percent. And now using that information,  
25 over that four-year period I came out with an

1 average vat, per vat, of butterfat recovery of  
2 93 percent, with ranges as high as 95.

3 Now, with that -- that coupled by the fact  
4 or the reincorporation of the whey shows that  
5 there should be a higher butterfat.

6 I now want to go back to the statement.

7 These estimates of butterfat recovery  
8 fairly state what is happening in those plants.  
9 Several other observations support these levels.  
10 First, the California DHIA report of 2005 showed  
11 a composite 3.68 percent butterfat test for the  
12 entire state. See Table 2, Document JJJ,  
13 Summary of Component Tests Reported by DHIA  
14 California.

15 For the same period as the DHIA report,  
16 CDFA's cheddar cheese processing costs study  
17 showed that the composite average vat butterfat  
18 in all the plants in the study was 4.35 percent.  
19 This study encompassed virtually all of the  
20 cheddar cheese produced in California. The  
21 difference between 4.35 percent in the cheese  
22 and 3.68 percent in the raw milk supply is  
23 .67 percent of butterfat. This is not  
24 additional butterfat in terms of pounds, but  
25 represents, as shown earlier in the mass



1 balance, the concentration of the milk received  
2 from the producers.

3 The concept that the total butterfat  
4 recovery of a plant, that is the -- that is that  
5 percentage of the butterfat that comes in the  
6 plant door that goes out as cheese is higher  
7 than the stated 90 percent is much easier to  
8 understand when one takes even a 90 percent  
9 recovery vat. If the 10 percent remaining, the  
10 whey butter, is added into the next vat with the  
11 raw milk and that gets a 90 percent butterfat  
12 recovery, then effectively 99 percent (that is  
13 90 percent in the first pass and 90 percent of  
14 the remaining 10 percent in the second pass)  
15 ends up in the cheese.

16 Part of the CDEFA formula includes a  
17 computation for whey butter. Document NNN,  
18 California Milk Pricing Formulas. It includes a  
19 factor for .27 pounds of whey butter. With an  
20 average butterfat test of 3.68, this implies  
21 that nearly 93 percent of the butter is  
22 recovered in the making of the cheese; 3.68  
23 minus .27 divided by 3.68 equals .9267. Again,  
24 because of the policy to understate the value of  
25 milk to plants, this recognition of whey butter

1           overstates the amount so as to understate the  
2           actual recovery in the plants.

3           More to the point, as a service to a client  
4           I was asked to analyze several years' worth of  
5           milk checks received from a cheese plant in  
6           California. In this case, the producers  
7           received payment based on a cheese yield  
8           formula. Each load of milk was tested for  
9           butterfat and protein and the yield of that milk  
10          computed or determined. In total, I analyzed  
11          hundreds of such individual computations of  
12          yields. The formula for computing yields was  
13          overtly not stated, but was consistent with the  
14          use of the Van Slyke formula, 78 percent of  
15          casein to total protein and 94 percent butterfat  
16          recovery. Similar analysis for producers  
17          selling milk to plants in other states where  
18          modern plants pay on a cheese yield formula, the  
19          implied yields reflect butterfat recovery in the  
20          same or higher range.

21          The RBCS study introduced at the 2006  
22          hearing on make allowances reported a cheese  
23          yield of 10.4 pounds per hundredweight on all  
24          cheeses and 10.7 pounds per hundredweight on  
25          40-pound blocks. A copy of that report is

1 Document 000, Charles Ling Testimony Exhibit 18  
2 in 2006 Make Allowance Hearing.

3 Applying FMMO average tests of butterfat  
4 and true protein, 3.69 percent and 3.04 percent  
5 respectively, the results show a butterfat  
6 recovery of 95.25 percent for all cheeses.

7 Document PPP, Estimating Butterfat Recovery on  
8 RBCS Report.

9 Unfortunately, the Cornell study introduced  
10 at the 2006 hearing on make allowances failed to  
11 survey and report plant yields. That is a  
12 critical error in both planning and execution  
13 that should not happen again in any USDA study  
14 aiming at obtaining the correct pricing  
15 formulas.

16 Document QQQ, Exhibit 65 from the 2006 Make  
17 Allowance Hearing, showed a New Mexico plant  
18 with a 10.25 pound yield of 38.8 percent  
19 moisture. Average component tests for New  
20 Mexico are 3.58 percent and protein  
21 3.06 percent. Using the same methodology for  
22 the RBCS study, the estimated butterfat recovery  
23 was 93.4 percent.

24 Other studies and publicly available  
25 evidence recognize that butterfat recovery

1 higher than 90 percent are expected in modern  
2 plants. In his text on cheese manufacturing,  
3 Vikram Mistry, a professor of Dairy Science, I  
4 guess it's the late Mr. Mistry, at South Dakota  
5 State University demonstrates the Van Slyke  
6 formula with a butterfat recovery of 93 percent,  
7 Kosikowski and Mistry, "Cheese and Fermented  
8 Milk Foods," Vol. 1, Third Ed. 1997, pages  
9 623-24. It's not the late Mistry, it's the late  
10 Kosikowski.

11 Prior to the use of end product pricing,  
12 the price support for cheese was 10.1 pounds for  
13 100 pounds of milk at 3.67 percent butterfat,  
14 which reflects a 92 percent butterfat recovery,  
15 and that was based on technology more than 20  
16 years ago.

17 Manufacturers --

18 **MR. VETNE:** Your Honor, before we continue  
19 on here, we can't unring a bell, I guess the  
20 exhibit's been marked, but the next couple  
21 paragraphs refer to a cheese vat manufacturer  
22 and a press release and promotional material  
23 from the cheese plant manufacturer.

24 It's pretty common experience of  
25 manufacturers to engage in a little puffing, and

1 that may be what this is, but we don't know  
2 because the manufacturer is not here, but I  
3 assume like other -- other manufacturers of  
4 goods and services, there will be puffing  
5 involved. You know, "up to"; you know, what  
6 does up to mean. Well, it means there's stuff  
7 below that.

8 So I object to this.

9 **JUDGE PALMER:** I'll sustain the objection.  
10 I'm going to mark it, it's on page 40, and it  
11 starts where -- right where it says "A press  
12 release from Scherping Systems"?

13 **MR. VETNE:** Right where it starts  
14 "Scherping Systems, a manufacturer of cheese  
15 vats, installed four new vats at the Cabot  
16 (Agri-Mark) plant in 2002." And I would also  
17 note that one of the exhibits shows the  
18 installation was in 2004, I mean, so we've got a  
19 disconnect here between the dates given.

20 **JUDGE PALMER:** I'll sustain the objection  
21 because it's a press release. I think that's --  
22 can't quite rely on that.

23 **MR. MILTNER:** Your Honor, we'd like to -- I  
24 guess you've already ruled, but we'd like to  
25 include it in the exhibit packet as an offer of

1 proof.

2 **JUDGE PALMER:** It'll stay in there --

3 **MR. YALE:** Let me explain also what its use  
4 is. I mean the use is not to take this and say  
5 okay, this is the make allowance we're going to  
6 use. The point of it is is to indicate that  
7 publicly plants and the makers of the equipment  
8 are indicating that the level of butterfat  
9 recovery is higher than 90 percent. At what  
10 level, this cannot be used to establish what  
11 that level is, but it clearly establishes that  
12 that's not the level today, and I think in that  
13 regard it is the statement against interest of  
14 them and it's a statement that does indicate --

15 **JUDGE PALMER:** I'd let it be used for  
16 cross-examination but not as direct evidence.  
17 We won't receive it, but I've heard what you've  
18 said. It'll stay in the exhibit as part of an  
19 offer of proof.

20 **MR. YALE:** Moving on. Finally, a  
21 comparison of FMMO average tests on all producer  
22 milk and FMMO tests for milk that goes into  
23 Class III shows that virtually all butterfat  
24 from producer remains in cheese - effectively a  
25 100 percent butterfat recovery. Compare

1 Document CC, Table 23 - Butterfat Test of  
2 Producer Milk Used in Class III Products, by  
3 Federal Milk Order Marketing Area, 2006, showing  
4 3.69 percent with Document O, Table 8 -  
5 Butterfat Test of Producer Milk, by Federal Milk  
6 Marketing Area, 2006, showing the same butterfat  
7 percent.

8 **MR. MILTNER:** Excuse me one moment.

9 Your Honor, can I get a clarification on your  
10 objection, your sustained objection. Is that  
11 only as to Document RRR?

12 **JUDGE PALMER:** Right, it's only as to the  
13 statement that I saw on page 40 and 41.

14 **MR. MILTNER:** There are two documents, one  
15 of which Mr. Vetne spoke to, one of which he did  
16 not.

17 **JUDGE PALMER:** Well, you explain your  
18 objection. Is that just to --

19 **MR. MILTNER:** The final sentence of -- the  
20 first full sentence on page 41 I don't believe  
21 was moved to be struck and I don't believe that  
22 you did strike it.

23 **MR. VETNE:** Well, my objection was to that  
24 paragraph and to the two accompanying exhibits,  
25 both of which are Scherping promotional

1 material.

2 **MR. MILTNER:** Well, a proposal is not  
3 promotional material.

4 **MR. YALE:** Let me explain -- thank you,  
5 Counsel. I'd forgotten about that. SSS has  
6 nothing to do with Cabot. Other than that, I'm  
7 going to make no other identity of where it  
8 comes from because it's some confidential  
9 information, but this is the information that  
10 the most common manufacturer of vats in the  
11 United States is presenting to manufacturers of  
12 cheddar cheese what they're going to expect from  
13 the equipment when it's installed.

14 **MR. VETNE:** That's my point exactly.

15 **MR. YALE:** And that is -- for me as an  
16 expert to testify or me to even testify in terms  
17 of my opinion why I think the 90 percent is too  
18 low, the fact that I have information available  
19 to me that shows that this is being sold at a  
20 higher rate ought to be made part of the record  
21 to show that the 90 percent is too low. That's  
22 all it's there for, is to indicate that  
23 that's -- because in the Federal Order in the  
24 Final Decision, it said that based upon the fact  
25 that vats installed before the 1980s weren't



1 used in those yields, I think it's important to  
2 get some information in here showing what there  
3 is floating around of expectations in 2007.

4 **JUDGE PALMER:** Well, we'll allow the record  
5 to show that you've obtained information that  
6 the manufacturer of these vats say that they can  
7 get higher yields, but as far as that statement  
8 as to what those yields would be, I'll sustain  
9 the objection.

10 **MR. YALE:** That's fine.

11 **JUDGE PALMER:** Okay.

12 **MR. YALE:** Based on these facts, we know  
13 that butterfat recovery in the cheese making  
14 process is far greater than the ostensible  
15 90 percent or the actual 89.4 percent that is  
16 the current formula. The current formula  
17 grossly understates the butterfat recovery that  
18 plants obtain given using the make allowances  
19 which they claim.

20 Just as the 94 percent is implied in the  
21 cheese yield from butterfat, so should the same  
22 factor be used to adjust the butterfat value in  
23 the formula. Thus, with only the changes to the  
24 butterfat recovery, the formula for protein  
25 should be as follows, with changes in bold

1           italics, and that is the protein equals the  
2           cheese price minus .1682, that difference times  
3           1.383, we then add to that the following  
4           computation. We take the cheese price minus  
5           .1682, multiply that difference by 1.653, and  
6           then we subtract from that .94 times the  
7           butterfat price, and that difference we multiply  
8           by 1.17 and then that is added back to the  
9           protein value that we computed before.

10           Document TTT, Comparison of Impact on  
11           Class, Component and Blend Prices by Correcting  
12           Butterfat Recovery in the Cheese to Protein  
13           Formula, prepared by me, shows the impact of  
14           adjusting the butterfat recovery to 94 percent.  
15           The resulting factor in the butterfat adjustment  
16           would go from 1.572 to 1.653. The protein  
17           component price would rise 4.05 cents, the Class  
18           I and III would increase, at test, 12 cents, and  
19           the blend price would increase 9 cents. The  
20           average dairy farmer would receive an additional  
21           \$2,180 per year as a result of this necessary  
22           correction.

23           **MR. ROSENBAUM:** Your Honor, before Mr. Yale  
24           continues, I have an objection to the next two  
25           pages of his testimony.

1           This is a proposal to change the fat to  
2 protein ratio in the formula from 1.17 where it  
3 currently is to 1.214. You can see that in the  
4 first paragraph.

5           Your Honor, this is not part of the noticed  
6 hearing. This proposal is not covered by the  
7 notice, and we therefore object to pages 42 and  
8 43 and to this proposal being considered.

9           **JUDGE PALMER:** Speak to that, sir.

10          **MR. MILTNER:** Your Honor, all of the  
11 manufacturing price formulas and all of the  
12 factors are open for debate. This is a logical  
13 outgrowth of the proposal that had been noticed.  
14 Everyone's on notice --

15          **JUDGE PALMER:** Let's go to the proposal,  
16 guide me through it. I don't remember it --

17          **MR. MILTNER:** Sure.

18          **JUDGE PALMER:** -- that clearly. That would  
19 be Exhibit 1, I guess, would it not? Or 2?

20          **MR. MILTNER:** 1.

21          **JUDGE PALMER:** 1.

22          **MR. MILTNER:** The notice, Your Honor, is  
23 that the national public hearing is being held  
24 to consider and take evidence on proposals  
25 seeking to amend the Class III to Class IV

1 product price formulas applicable to all Federal  
2 Milk Marketing Orders.

3 Dairy Producers of New Mexico are the  
4 proponents of Proposal 6, 7 and 8. Proposal 6  
5 speaks directly to the butterfat shrink  
6 adjustment and yield factor in butterfat  
7 recovery. Proposal 7 talks about eliminating  
8 farm-to-plant shrink and butterfat shrink.  
9 Proposal 8 talks specifically about the product  
10 price formulas, changing the yield factors.

11 **JUDGE PALMER:** Do we have anything about  
12 fat to protein, though?

13 **MR. YALE:** It's in the formula, Your Honor.  
14 Can I speak to that? I mean he's giving the  
15 legal argument, but I have the factual part.

16 **JUDGE PALMER:** All right. I'll let you  
17 explain it.

18 **MR. YALE:** The protein formula, component  
19 formula in the Federal Order Program is a  
20 combination of taking the protein, value of the  
21 protein in the milk and then you adjust the  
22 difference between the Class III butterfat and  
23 the Class IV butterfat values. And we -- as we  
24 went through this formula, by proposing these  
25 changes in the percentages of the butterfat

1 that's being used and changes in the butterfat  
2 price to jibe those up to being used, the  
3 average values of butterfat and protein, as I've  
4 testified for the last hour or so on that, you  
5 come up to this level, and what happens now is  
6 although we've corrected all that, all of the  
7 sudden the rest of that formula that's in the  
8 protein formula, it's in the -- that .117 or we  
9 want to make it .124 -- 14 is part of the  
10 formula that's in the -- that's being subject to  
11 change, and it's necessary, in our opinion, to  
12 be consistent that the same standards that apply  
13 all along have to apply here, otherwise we're  
14 going to have a disjuncture in the program.

15 Anybody that's come to these hearings --  
16 this hearing knew that that protein, that step  
17 that I've mentioned and quoted several times was  
18 going to be at issue. We're just proposing to  
19 get it all consistent.

20 **JUDGE PALMER:** Counsel at Government table,  
21 confer with Mr. --

22 **MR. BESHORE:** Your Honor, may I?

23 **JUDGE PALMER:** -- Rower and give some  
24 thought to this.

25 Yes, I'll hear from Mr. Beshore meanwhile.

1           **MR. BESHORE:** Marvin Beshore for DFA and  
2           Dairyalea.

3           I think Mr. Yale's testimony with respect  
4           to this aspect is fair and within the hearing  
5           notice, both in terms of the general hearing  
6           notice which Mr. Miltner described, and the fact  
7           that, as Mr. Yale has testified, the -- this  
8           adjustment in the innards of the formula is a  
9           logical outgrowth of the other specifically  
10          noticed and requested changes to the formula.  
11          And we all know that logical outgrowths are  
12          quite permissible within the scope of these  
13          hearings.

14          **JUDGE PALMER:** Well, if you can prove to me  
15          it's logical. I can't read it that well. Help  
16          me with the language in the notice. What are we  
17          looking at, Proposal 6?

18          **MR. BESHORE:** The overall language in the  
19          notice talks to III and IV formulas. 6, 7 and  
20          8, as Mr. Miltner just went through them and as  
21          Mr. Yale testified, the adjustments that are  
22          specifically provided for in those proposals  
23          lead to this corollary adjustment in the  
24          formulas.

25          **JUDGE PALMER:** Let me see what it says.

1 Proposal 6 says they want to change the  
2 butterfat shrink adjustment, yield factor and  
3 the butterfat recovery percentage, and this  
4 one's going to do what, this is going to get fat  
5 to protein, is it, protein different?

6 **MR. YALE:** In the formula, we start off  
7 with just computing the value of the protein by  
8 determining, you know, this straight formula,  
9 that you take the value of cheese, subtract the  
10 make allowance, and you take it times this  
11 yield, and currently in the formula it's 1.383.

12 Well, for -- we had originally proposed, as  
13 you know, and we withdrew it, was a proposal  
14 that that would be the end and that was the  
15 protein formula and there was no more  
16 adjustments to be made, and that was what we  
17 called a separate Class III and separate Class  
18 IV butterfat proposal. That was withdrawn.

19 And the Department uses, and we're  
20 accepting and willing to go along with that,  
21 uses basically the same formula to compute  
22 butterfat for all four classes of milk.

23 The problem is is that the value of  
24 butterfat valued in Class III is a -- is based  
25 on the cheese price. The value of butterfat in

1 Class IV is based on the butter price. They're  
2 not the same, and their yields are different, so  
3 the Department says we want Class III to be  
4 priced at the Class III butterfat price -- or a  
5 Class IV butterfat price, so without giving an  
6 unnecessary adjustment up or down to the Class  
7 III price, we have to adjust one of the  
8 components by a factor so that the value of the  
9 Class IV butterfat is there and you don't do any  
10 undue enhancement over here in the protein.  
11 That's what that .94 is doing.

12 **JUDGE PALMER:** What I'm concerned about is  
13 whether or not folks such as those represented  
14 by Mr. Rosenbaum had adequate notice of this so  
15 that they could be prepared, and that's why I  
16 now would like to hear from the Government's  
17 attorneys.

18 **MR. STEVENS:** Your Honor, we discussed it.  
19 Garrett Stevens, Office of General Counsel.

20 It is true, I guess, that the number that  
21 is out there is 1.17. The number in this  
22 testimony is 1.214. We agree with Mr. Beshore's  
23 point that this is -- this might be considered a  
24 reasonable adjustment to the hearing notice that  
25 was issued. The evidence will tell whether such



1 an adjustment is supported by the evidence. If  
2 it's not, obviously the Secretary wouldn't make  
3 the change. If it is supported by the evidence,  
4 he might consider the change, and then it would  
5 be subject to comment, and we would take the  
6 comments, consider those and determine whether  
7 the final result should be what was originally  
8 determined or what is proposed or something  
9 else.

10 **JUDGE PALMER:** I'm going to be guided by  
11 you, and overrule the objection. And you have  
12 a -- an exception. All right, sir.

13 **MR. YALE:** All right. Thank you for the  
14 order, Your Honor, so we've got that clarified.

15 Change the fat to protein ratio in the  
16 butterfat adjustment to the protein component  
17 price.

18 Following the goal that in fixing values,  
19 wherever practical, the weighted average should  
20 be used, the weighted average of the FMMO system  
21 of fat to protein is 1.214 and thus that should  
22 be the number for the formula protein  
23 adjustment, not the current 1.17.

24 The current cheese to protein formula  
25 adjusts the simple protein component price to

1 act as a residual to the difference between the  
2 Class IV butterfat and the value of butter used  
3 in cheese. In simple terms, the difference  
4 between the two different butterfat values will  
5 be carried by the protein so that the overall  
6 value of Class III at test will not change as a  
7 result of changing the butterfat value.

8 Since the adjustment is being stated per  
9 pound of protein and there is less protein than  
10 butterfat, the rate of adjustment, first  
11 computed as per pound of butterfat, has to be  
12 increased so that on the fewer pounds of protein  
13 the same total value is adjusted. In that  
14 regard, the current formula uses the ratio of  
15 1.17. This represents the ratio of standardized  
16 tests of 3.5 percent butterfat to 2.9915 percent  
17 true protein.

18 The problem with that ratio is that it  
19 represents a small fraction of the milk actually  
20 delivered by producers. According to Document  
21 00 and Document PP, the average tests for  
22 butterfat and protein are 3.69 percent and  
23 3.04 percent respectively. This represents a  
24 ratio of 1.214. Document UUU, Ratio of  
25 Butterfat to True Protein at Various Tests,

1 prepared by me, shows the ratios of butterfat to  
2 true protein through a range of 3.2 percent --  
3 from 3.2 percent to -- through 3.8 percent  
4 butterfat and 2.85 to 3.65 percent of true  
5 protein. The increments are .05, except that  
6 2.9915 percent was inserted as a row and  
7 3.69 percent was inserted as a column to show  
8 where the current ratio falls and the proposed  
9 one would fall.

10 Having the ratio incorrectly as the  
11 standardized tests effectively undervalues milk  
12 at test for more than one-half of the producer  
13 milk marketed in the FMMO system. Again, since  
14 the starting point is weighted average prices  
15 for the products, the concept of weighted  
16 average should pass through the entire program.  
17 After all, it is the milk at test that plants  
18 purchase, not standard test milk.

19 Document VVV, Comparison of Impact on  
20 Class, Component, and Blend Prices by Correcting  
21 Butterfat to Protein Ratio in the Cheese to  
22 Protein Formula, prepared by me, shows the  
23 impact on producer prices by making this change.  
24 The impact on the protein component price is  
25 2.24 cents. Prices at test increase seven cents

1 and the blend price increases five cents, with  
2 the average producer at her or his test  
3 receiving an additional \$1,217 per year. The  
4 impact goes beyond that, however, because it  
5 multiplies other changes that are being proposed  
6 such as changes to the butterfat recovery.

7 Summary of changes to the cheese protein  
8 formula.

9 Based on the testimony above and the  
10 supporting documents, we are recommending  
11 changes to the cheese to protein formula to,  
12 one, imply a 94 percent butterfat recovery; two,  
13 recognize that 83.25 percent of true protein is  
14 in casein, and, three, adjust the butterfat to  
15 protein ratio to 1.214. Utilizing these  
16 adjustments, the formula should be as follows:

17 Protein equals the difference of cheese  
18 price minus .1682 times 1.405 and the cheese  
19 price minus .1682 times 1.683, that -- from that  
20 we subtract .94 times the butterfat price times  
21 1.214, and that last difference is added to the  
22 protein price that we just computed.

23 Document WWW, Comparison of Impact on  
24 Class, Component and Blend Prices by Correcting  
25 Yields to the Cheese to Protein Formulas,

1 prepared by me, shows how all of these changes  
2 to the formula will impact the various prices.  
3 The protein component price would increase by  
4 8.82 cents. The Class I price at test would  
5 increase by 27 cents, the Class III by 26 cents,  
6 and the blend price by 20 cents. The average  
7 dairy farmer would receive an additional \$4,743.

8 Change to the yield factor for nonfat dry  
9 milk to 1.02.

10 USDA in setting the nonfat dry milk yield  
11 stated -- and we quote this section, it's there.

12 Prior to the Final Decision effective 2003,  
13 the formula was a multiplier of 1. The current  
14 formula for nonfat dry milk to --

15 **JUDGE PALMER:** Just a second. Let's go off  
16 the record for a moment.

17 *(A discussion was held off the record.)*

18 **JUDGE PALMER:** Back on the record. I'm  
19 sorry.

20 **MR. YALE:** The current formula for nonfat  
21 dry milk to solids not fat states an  
22 inconsistency. According to the standards of  
23 identity, nonfat dry milk is the product of  
24 removing water from pasteurized skim milk. The  
25 resulting powder may not "contain more than 5

1 percent of weight by moisture." Document UU,  
2 Standard of Identity for Nonfat Dry Milk  
3 21 C.F.R. Section 131.125. Because of the cost  
4 of drying as well as the fact that the moisture  
5 is less valuable than the powder, the  
6 expectation is that the nonfat dry milk will be  
7 sold at nearly 95 percent dry matter. The case  
8 of Extra Grade, the moisture is lower,  
9 4.5 percent. The solids not fat component price  
10 for the FMMO pricing system is based upon dry  
11 matter with no moisture. But the current  
12 formula implies that nonfat dry milk is drier  
13 than solids not fat. According to the standards  
14 of identity, one pound of solids not fat will  
15 produce as much as 1.05 pounds of nonfat dry  
16 milk. It is impossible to produce less than a  
17 pound as the current formula contends.

18 It is irrational to assume that there are  
19 more pounds of nonfat dry milk solids than there  
20 are pounds of nonfat dry milk in a quantity of  
21 nonfat dry milk. Nonfat dry milk is  
22 approximately 3.2 percent moisture. Thus the  
23 Final Rule represents a loss of 5.2 pounds of  
24 nonfat milk solids in every 100 pounds of nonfat  
25 dry milk or a 5 percent loss.

1           Exhibit 9, admitted earlier in the hearing  
2           at page 19, includes a graphic description of  
3           the typical butter powder plant. This shows  
4           that the output from such a plant -- that, by  
5           the way, is provided by CDFA and I think I've  
6           included it in my book. This shows that the  
7           output from such a plant, output paid for by the  
8           make allowances included in the formula, is not  
9           only powder and butter, but condense and  
10          buttermilk both bulk and powder.

11           Document XXX, Excerpts from Stephenson and  
12          Novakovic, Determination of Butter/Powder  
13          Plan -- that should be Plant Manufacturing Costs  
14          Utilizing an Economic Engineering Approach, June  
15          1990, A.E. Res. 90-6 and excerpts from  
16          Stephenson and Novakovic, Manufacturing Costs in  
17          Ten Butter/Powder Processing Plants, September  
18          1989, A.E. Res. 89-12, indicates these solids  
19          are salvaged and processed into buttermilk  
20          powder.

21           CDFA in a nearly ten-year-old study  
22          examined actual yields in butter powder plants.  
23          It found the yields then to average 1.025. We  
24          certainly are not less efficient. Document YYY,  
25          CDFA Butter and Powder Yields, 1998. All of

1 these studies show a combined nonfat dry milk  
2 and buttermilk powder yield in excess of 1.025  
3 pounds of product from each pound of solids not  
4 fat. However, buttermilk powder is slightly  
5 less valuable than nonfat dry milk and so we are  
6 proposing a yield of 1.02 pounds of solids not  
7 fat in each pound of finished product.

8 Thus the formula for nonfat dry milk before  
9 adjusting for the make allowance should be:

10 Solids not fat equals nonfat dry milk minus  
11 .1570 times 1.02.

12 I prepared Document ZZZ, Comparison of  
13 Impact on Class, Component and Blend Prices by  
14 Correcting the Yield of the Nonfat Dry Milk to  
15 SNF, which incorporates only the change to the  
16 nonfat dry milk yield. The change would result  
17 in a 2.19 cent increase in the solids not fat  
18 component price, 18 cent increase in the Class  
19 II at test, and 18 cent at the Class IV at test  
20 and a 4 cent blend. On the average, a producer  
21 will receive an additional \$984.

22 With all of the changes to the yields, I  
23 prepared Document AAAA, Comparison of Impact on  
24 Class, Component and Blend Prices by Correcting  
25 the Yields, which incorporates all changes



1 proposed to the yields. The change would result  
2 in a 2.2 cent increase in the butterfat  
3 component price, 12.82 cent increase in the  
4 protein component price, 2.19 cent increase to  
5 the solids not fat component price and no change  
6 to the other solids price. In terms of class  
7 prices, it would result in a 43 percent  
8 increase -- 43 cent increase in Class I, 35 cent  
9 increase in Class III, 46 cent increase in Class  
10 II, 29 cent increase in Class IV, all at test,  
11 and a 42 cent blend increase. On the average, a  
12 producer will receive an additional \$9,787.

13 Make allowances.

14 Our Proposal 3 seeks to adopt new make  
15 allowances for each of the four surveyed  
16 commodities. We propose the adoption of the  
17 following make allowances:

18 Butter, 11.08 cents.

19 Cheese, 16.38 cents.

20 Nonfat dry milk, 14.1 cents.

21 Dry whey, 15.0 cents.

22 The Basis for Our Proposed Make Allowances.

23 These make allowances are drawn directly  
24 from the survey of manufacturing plant costs  
25 performed by Dr. Mark Stephenson and the Cornell

1 Program on Dairy Markets and Policy.

2 Dr. Stephenson compiled sample weighted average  
3 costs for each commodity that allowed him to  
4 draw inferences about the population of  
5 manufacturing plants located in Federal Milk  
6 Marketing areas.

7 With the exception of dry whey, the make  
8 allowances we propose are identical to those  
9 observed by Dr. Stephenson in his sample  
10 weighted average. For dry whey, we propose  
11 adopting the sample weighted average make  
12 allowance for nonfat dry milk and adding in the  
13 additional cost attributable to the energy  
14 needed to make dry whey. Dr. Stephenson's  
15 survey indicated that this additional energy  
16 cost was approximately 9 cents per pound of  
17 product. The testimony in past hearings  
18 suggested that this additional cost was 1 to 2  
19 cents per pound of product. Our proposal adds  
20 .9 cents to the proposed make allowance for  
21 nonfat dry milk.

22 California Data Should Not Be Included in  
23 This Federal Price Formula.

24 The California study, a virtual census of  
25 manufacturing costs for plants in California,

1 cannot be used because it only reflects costs in  
2 California, and those costs are admittedly  
3 higher than the rest of the country. The  
4 California data also reflects a different mix of  
5 plants than in the FMMO system both in terms of  
6 products, but also markets, location of milk to  
7 plants, and costs.

8 At Document NNN, CDFA Pricing Formulas, the  
9 CME price is reduced and then a make allowance  
10 is taken off. For example, for cheese, the  
11 product value is cheddar cheese minus .0252  
12 dollars minus .1780 dollars and then that times  
13 10.2.

14 The real formula simplified combines the  
15 price adjuster with the make allowance for 20.32  
16 cents. Document BBBB, Comparison: CME Cheddar  
17 Cheese Prices/Audited California Cheddar Cheese  
18 Sales 24-Month Period, December 2004 through  
19 November 2006, is prepared by CDFA and available  
20 at its Web site. It compares the CME cheddar  
21 price to what plants sell the cheese for. That  
22 shows that the average sales price in 2006 was  
23 not .0252 cents less than the CME, but 1.62  
24 cents. This effectively reduces the make  
25 allowance from 17.8 cents to 16.9 cents. Even

1 then it is for 10.2 pounds and the FMMO price is  
2 for 9.89 pounds. The extra value of the .31  
3 pounds at the cheese price further reduces the  
4 California effective make allowance more,  
5 bringing it almost to the 16.5 cents that we had  
6 before these changes took effect earlier this  
7 year. The formula used by USDA to consider  
8 California's make allowances, besides just the  
9 use itself, is thus fundamentally flawed as it  
10 is mixing apples and oranges.

11 In the case of Document CCCC, Comparison:  
12 CME Butter Prices/Audited California Butter  
13 Sales 24-Month Period, December 2004 through  
14 November 2006, this shows a higher adjustment in  
15 sales than the formula, but it should be noted  
16 that most of the butter in California is  
17 produced at less than the stated make allowance.

18 In addition, because the plants purchasing  
19 Federal Order producer milk have different  
20 manufacturing and regulatory costs, it is not  
21 proper to utilize California plant costs to  
22 approximate the costs for Federal Order plants.

23 California data was first included in the  
24 computation of make allowances to compliment the  
25 data drawn from the RBCS data. RBCS data, at

1 least prior to 2006, was not compiled and  
2 reported for the purpose of computing make  
3 allowances. Now that USDA has abandoned the use  
4 of the RBCS survey to set make allowances, there  
5 is no longer a need to rely on California's data  
6 to make up for the uncertain accuracy of the  
7 RBCS data. While it may have been proper to use  
8 the audited California data as a verifying and  
9 balancing factor to the RBCS study in 2000, the  
10 data for Cornell is far more complete and  
11 verifiable than the RBCS survey. The Cornell  
12 data, as a more comprehensive survey of plants  
13 in the Federal Order System, provides a  
14 sufficient basis to set make allowances.

15 I prepared Document DDDD, Comparison of  
16 Impact on Class, Component and Blend Prices by  
17 Correcting Make Allowances to the Current  
18 Formulas, which incorporates only the change to  
19 the make allowances. The changes result in a  
20 62/100 cent change in the butterfat component  
21 price, a reduction of a small amount in the  
22 protein component price, a 1.58 cent increase in  
23 the nonfat dry milk and a 3.77 cent increase in  
24 the other solids component price. Overall, it  
25 would increase the blend by 22 cents per

1 hundredweight, with an average producer gain of  
2 \$5,065.

3 Conclusion.

4 In the midst of the minutia and complexity  
5 of price formulas, the Department should not  
6 forget that the establishment of minimum prices  
7 has a real impact on dairy farmers. Absent a  
8 viable community of dairy farmers, there will be  
9 no dairy products, thus no need for plants to  
10 process dairy products, and certainly no need  
11 for a Federal milk marketing system. Whether  
12 employed by or an agent of producers or not,  
13 everyone in this room, at least for this  
14 hearing, directly depends upon the producers and  
15 their continued ability to produce the good and  
16 wholesome product that they do.

17 Nationwide there are about nine million  
18 milk cows, and another three million in  
19 heifers -- that should be four and a half  
20 million in heifers and dry cows. In total,  
21 farmers have investments in almost \$25 billion  
22 in cattle alone in order to provide valuable  
23 dairy products. Farmer investment exceeds the  
24 investment of plants that process the milk, and  
25 the number of farm workers exceed the number of

1 workers in the plants.

2 For example, a \$200 million cheese plant  
3 that requires seven million pounds of milk per  
4 day requires farms with 100,000 cows, or \$450  
5 million investment, and that's total cattle and  
6 equipment and everything, and over a hundred  
7 employees on the farm, plus many more to handle,  
8 haul, market and account for the milk.

9 Finally, I want to briefly address those  
10 who argue that all we set are "minimum prices"  
11 and plants can pay more. That is a dangerous  
12 view. One of the benefits of the FMMO system is  
13 that everyone is supposed to be on the same  
14 pricing system and generally the same level.  
15 This is a price risk reducer that enhances  
16 producer prices. If USDA at the urging of some  
17 of those in this hearing continue to depress  
18 these "minimum prices," producers will be forced  
19 to find other sources of reference prices for  
20 future contracts and the hodgepodge of pricing  
21 schemes will introduce additional price risk  
22 which will be felt in lower producer prices. A  
23 fairly established reference price for milk used  
24 in manufacturing is essential. These so-called  
25 "minimum prices" have been the reference price

1 for setting prices in the U.S. It has been a  
2 common practice to price milk at the Class III  
3 price plus, and, yes, even a minus, a basis.  
4 Document FFFF, CME Daily Dairy Report,  
5 February 23, 2007, notes that when the U.S.  
6 District Court for the Northern District of Ohio  
7 denied the motion for preliminary injunction,  
8 futures markets for Class III prices dropped up  
9 to 22 cents. As the CME reporter noted,  
10 "Yesterday's ruling was considered partly  
11 responsible for a big drop in milk futures  
12 today." What prices are set here are viewed as  
13 prices in the marketplace, minimum or not.

14 Our proposals will help in that regard by  
15 regaining some of the money that was lost since  
16 2001, which should be added to the statement.  
17 More importantly, the most important tool for  
18 dairy producers will obtain more of their trust  
19 by being fair. Our proposals will result in the  
20 following formulas:

21 Butterfat equals butter price minus 1  
22 point -- .115 times 1.22.

23 Protein is the cheese price minus .1638  
24 times 1.405 plus the cheese price minus .1638  
25 times 1.653 minus .94 times the butterfat price



1 times 1.214.

2 The solids not fat equals the nonfat dry  
3 milk minus .1410 times 1.02.

4 And the other solids, dry whey minus .1590  
5 times 1.03.

6 I prepared Document EEE, Comparison of  
7 Impact on Class, Component, and Blend Prices by  
8 Correcting Make Allowances to Current Formulas,  
9 which incorporates only the change to the make  
10 allowances. The changes would result in a 2.83  
11 cent change to the butterfat component price, an  
12 increase of 12.74 cents in the protein component  
13 price, 3.82 cent increase in the nonfat dry  
14 milk, and a 3.77 cent increase in the other  
15 solids component price. Overall it would  
16 increase the blend by 63 cents per  
17 hundredweight, with an average producer gain of  
18 \$14,868. In comparison to Document KKK shows --  
19 or Document KK which showed that since 2001 the  
20 formulas had reduced producer blend prices by 57  
21 cents, the increase that we ask for is not only  
22 supported by the facts, but really only a modest  
23 seven cents over correcting incorrect portions  
24 of the formula.

25 On behalf of Dairy Producers of New Mexico,

1 Select Milk Producers, Inc., Continental Dairy  
2 Products, Inc., Lone Star Milk Producers, Inc.,  
3 and Zia Milk Producers, Inc., I want to thank  
4 the Department for holding this hearing. We  
5 urge the Department to adopt Proposals 3, 6, 7,  
6 8 and 15 as stated herein and as amended.

7 **JUDGE PALMER:** Anything further on your  
8 Direct testimony?

9 **MR. YALE:** I don't have anything further.

10 **MR. ROSENBAUM:** Your Honor.

11 **JUDGE PALMER:** Yes, sir.

12 **MR. ROSENBAUM:** Your Honor, I feel a little  
13 bit bushwhacked here. Not only were we supposed  
14 to have seen these things a week ago, but we got  
15 his testimony last Wednesday, and now we get his  
16 final testimony, he's dropped three pages of it,  
17 replaced it with this Exhibit 34, and then ran  
18 through it in a way I could not follow, and it's  
19 really leaving us in a situation that's quite  
20 unfair.

21 At a minimum, I'd like to ask him some  
22 questions today about Exhibit 34 because I can't  
23 possibly ask meaningful Cross-Examination  
24 without doing that.

25 **JUDGE PALMER:** The reporter's okay to go a

1 little longer?

2 **MR. YALE:** Could we have a break before we  
3 do that?

4 **JUDGE PALMER:** Yeah, let's take a  
5 five-minute break or so and then we'll ask some  
6 questions on that.

7 *(At this time a recess was taken.)*

8 **JUDGE PALMER:** All right. Back on the  
9 record.

10 **CROSS-EXAMINATION,**

11 **QUESTIONS BY MR. STEVEN J. ROSENBAUM:**

12 Q Mr. Yale, I've got some questions about Exhibit  
13 34. At the top, there's a row called raw milk  
14 that has volume numbers beginning with a  
15 million.

16 A Yes.

17 Q Do you see that?

18 A Yes.

19 Q And that's assuming what, a million pounds of  
20 raw milk?

21 A A million pounds of milk going into the silo  
22 from the farm.

23 Q All right. Now, you have -- you then break down  
24 that milk in various components.

25 A That's right.

- 1 Q And you continue going from left to right.
- 2 A That's right.
- 3 Q Where -- and, for example, you're assuming that  
4 the butterfat content is 3.68 percent; correct?
- 5 A Right.
- 6 Q And that's why you have 36,800 pounds of  
7 butterfat; correct?
- 8 A Right.
- 9 Q And you have similar percentages for true  
10 protein, lactose, other solids, total SNF, total  
11 solids and water; correct?
- 12 A Correct.
- 13 Q Where do those all come from?
- 14 A These were -- I can't tell you -- I'm trying to  
15 remember -- I'm thinking this came off of one of  
16 those DHIA California, but it was representative  
17 of just -- as you know, raw milk comes in from  
18 the farms in all kinds of levels, and the  
19 purpose was to come up with a level that, you  
20 know, was somewhat representative of what one  
21 might find in the milk.
- 22 Q Well, you put in as exhibits various information  
23 from DHIA; correct?
- 24 A Yes.
- 25 Q And is there a sheet that has those same numbers

1 that now appear --

2 A No, I don't know that there are. That wasn't  
3 the purpose. I don't think that there's a sheet  
4 in here -- if you give me a minute, I'll look to  
5 see, but I don't know that there is necessarily  
6 a sheet that would show specifically that that's  
7 where those numbers came from.

8 There may have been some other source of  
9 information that I had from some other sample  
10 milk or something that I put in there. I did  
11 not view the exact percentages there as being --  
12 they are representative of milk one would find  
13 someplace within the system. And the question  
14 wasn't so much what it was, but how do those  
15 solids that do show up work their way through  
16 the plant.

17 Q Well, but, for example, the ratios of casein to  
18 butterfat are critical for determining yield;  
19 right?

20 A That is correct.

21 Q Now, you -- going further down on Exhibit 34,  
22 there's an entry for whey cream; correct?

23 A Yes.

24 Q And do I understand that to mean that your  
25 analysis here assumes that whey cream that's

1           been produced in the cheese making process is  
2           being added back into the vat to make cheese?

3   A       That's exactly what's happening.

4           What -- what we did, Mr. Rosenbaum, is I  
5           took this same -- exact same spreadsheet that  
6           you see here, okay, everything being the same  
7           with one difference, and that is that where it  
8           says whey cream, it was zero, all right, and it  
9           computed and went through this whole process and  
10          it comes down and I -- you know, as you notice  
11          on the left -- or the right side, I have  
12          numbers. If you look down at page -- or page --  
13          it's on the second page, line 69, there was a  
14          computation of whey cream, so on the exact same  
15          spreadsheet other than we didn't introduce the  
16          whey cream up there in the inputs, I computed  
17          this as a background to the one that's printed  
18          out here, that came up with a value which in  
19          this case happened to be 4,861 pounds of whey  
20          cream, and that was brought in to be added into  
21          the vat. That's where that number comes from.

22   Q       The ultimate butterfat recoveries here are being  
23          driven in part by the assumption that the whey  
24          cream is being reprocessed into cheese; is that  
25          right?

1 A That is fundamentally the comment that I'm  
2 making, yes, which I understand to be common in  
3 commodity cheddar cheeses.

4 Q You've not conducted a study of that, I take it?

5 A Well, it's in the discussions that we've had  
6 over the years that --

7 Q I mean, there's been direct testimony to the  
8 contrary in this hearing; you're aware of that  
9 fact?

10 A Not on commodity cheeses. The testimony dealt  
11 with very special, full fat cheeses that Kraft  
12 specified for a certain level of quality. It is  
13 not for full fat -- it's not for the commodity  
14 cheeses.

15 Q Can you point to any specific testimony there's  
16 been on that subject, that the whey cream is  
17 reprocessed with respect to that cheese?

18 A I think the statement by -- the only one I think  
19 that so far we've had up to this point was the  
20 one of Mr. McCully, and I think he stated that  
21 Kraft does not do it, but I'm trying to remember  
22 whether he said that it was done, but it was not  
23 done by Kraft.

24 I mean, you know, for the higher quality  
25 cheeses I would admit they don't, but what we're

1 talking about here is the commodity cheese which  
2 NASS reports the sales price of.

3 Q Now, going down further, you've got a heading  
4 called milk separation; correct?

5 A Yes.

6 Q And that's where you're separating the cream?

7 A That's right.

8 Q And then there's a ultrafiltration heading;  
9 correct?

10 A Yes.

11 Q And what you're doing there is you're taking the  
12 skim milk from which the cream has been removed  
13 and you're running it through a ultrafiltration  
14 system; correct?

15 A That's right.

16 Q To a 300 percent ultrafiltration level; correct?

17 A Well, three-to-one concentration of the  
18 solids --

19 Q Okay.

20 A -- is approximately what it is.

21 Q Okay. And so that --

22 A Pardon me, not solids, the total volume  
23 three-to-one.

24 Q And that's giving you 76,204 pounds of  
25 ultrafiltered milk retentate; correct?



1 A Right. Seventy-six thousand, yeah, two hundred  
2 four, right.

3 Q Now, the next heading is vat contents; correct?

4 A Well, yeah, the next -- you mean big heading,  
5 yes.

6 Q Big heading, right. Now, there it looks like  
7 you are assuming in the vat you have  
8 110,417 pounds of UF milk retentate; correct?

9 A Yes, it does.

10 Q And you only had produced, though, 76,204 pounds  
11 through the ultrafiltration of the million  
12 pounds that you had begun with; correct?

13 A That is correct. That -- that does overstate  
14 the amount of protein, I see the point there.

15 Q Well, my point is that your whole formula,  
16 correct me if I'm wrong, but your formula seems  
17 to presuppose you're bringing in an extra 35,000  
18 pounds of ultrafiltered milk retentate in order  
19 to achieve the goal of 70 percent casein to fat  
20 ratio; is that correct?

21 A I mean you're absolutely right, Mr. Rosenbaum.  
22 That is the goal that's being done there, and  
23 why that number -- I see that, that did  
24 overstate the amount of protein that was  
25 available, and I appreciate you pointing that

1 out because I thought the protein was coming out  
2 high and I wasn't sure where it was, so I was  
3 rechecking it, but that is correct, that should  
4 be only 7,000 pounds of protein at that level.

5 Q Well, if it's only 76,000 pounds of protein,  
6 you're not going to hit your casein to fat  
7 ratio, are you?

8 A Well, the point is is that under this scenario  
9 with a 25 percent skim milk to be UF and the  
10 others, you're right, but what you're able to do  
11 is make adjustments in -- by the way, most of  
12 the UF milk that we were doing was like at 3.3  
13 ratio. There's other things that can be done to  
14 adjust the amount of protein that would be  
15 available without bringing in the other solids  
16 and the fat to do that.

17 Q But you're going to have to do something to get  
18 the casein to fat ratio up, correct, to  
19 70 percent, something beyond just using --

20 A If you use your target of 70 percent, you would  
21 have to add -- there's 3,000 pounds of protein  
22 that appears to be missing here, yes.

23 Q Three thousand pounds?

24 A Yes, 3,000 pounds of protein.

25 Q All right. I see it. And -- and the Van Slyke

1 formula is based upon a combination of how much  
2 fat there is and how much casein there is;  
3 correct? That's how you produce cheese?

4 A Yes, it is, so the amount of protein, if it goes  
5 down, the amount of cheese that would be  
6 produced would go down because you have less  
7 protein, that is correct.

8 Q All right. Under the butterfat column across  
9 from total fat, there's a 4.40 percent. Do you  
10 see that?

11 A Yes.

12 Q And there are similar numbers for true protein,  
13 lactose, etc.

14 A Right.

15 Q What is the source of that information?

16 A That's supposed to be the 38,945 divided by the  
17 885,159.

18 Q I'm sorry, point to me -- say that one more  
19 time, please.

20 A All right. What the small percentages are  
21 supposed to represent is the percentage of the  
22 butter -- in this case, the butterfat column,  
23 what percentage that is of the volume under that  
24 same row.

25 Q So it's 38,945 divided by 885,159?

1 A Right.

2 Q And going across, each of these numbers is  
3 supposed to be divided by --

4 A It should all be -- it should all be the same  
5 thing.

6 Q So the denominator is consistently 885,159?

7 A That is the intent. And it's more -- with the  
8 exception of one or two places, it is almost  
9 totally for informational purposes.

10 Q Okay. Now, the butterfat recovery rate you show  
11 as 94 percent; correct?

12 A Yes.

13 Q Is that an assumption or is that derived?

14 A Yes. As I stated in my Direct testimony, that  
15 94 percent in that row, row 52, 94 percent,  
16 82.2 percent and the 38 percent, were all values  
17 that were inputted.

18 Q I mean that's the 94,000 -- \$84,000 question  
19 here, right, is what butterfat recovery one  
20 should assume, and -- for purposes of the  
21 Federal system; right?

22 A Well, it is and it isn't. I mean it is the  
23 question here. The point of this table was to  
24 show not so much that 94 is the right number,  
25 Mr. Rosenbaum. The purpose of this was to show

1 that you use whatever recovery rate you use, you  
2 will have a whey butter that will come off,  
3 approximately 6 percent if it's 94, 10 if it's  
4 90, and that the bulk of that gets added back in  
5 subsequent vats such that you are able to  
6 recover in excess of even 94 percent in the  
7 actual amount of milk that is delivered to the  
8 farms and then turned into cheese as it goes out  
9 the back end, so whether I use 94 or 92 or 96 or  
10 90 or 89.4, I think the premise will still be  
11 supported by what we're doing.

12 Q If you assume the whey cream is added back in?

13 A The fundamental assumption in here is the whey  
14 cream is added back in for a commodity cheddar  
15 cheese of the kind that is routinely reported on  
16 the NASS survey.

17 Q But you don't purport Exhibit 34 to support a  
18 94 percent butterfat recovery rate; rather,  
19 that's -- the point of Exhibit 34 is not to  
20 prove that 94 percent is the right number?

21 A You're absolutely right. That was not its  
22 intent.

23 Q Because that's an assumption in the document.

24 A That's right.

25 Q Okay. And then the -- the target composition of

1 61.41 percent, is that --

2 A You know, I think that's an erroneous, that  
3 whole thing -- that line and that -- was  
4 supposed to have been deleted, and I -- I'm not  
5 sure what that number is.

6 Q All right. What about the 12.61 percent?

7 A The 12.61 percent is the yield that was  
8 generated using the Van Slyke formula based upon  
9 the percentage of protein and butterfat that are  
10 in these products -- or in this formula; that if  
11 you were to run the Van Slyke formula, or the  
12 modified -- the Van Slyke formula based upon the  
13 4.40, the 3.7, the 94 percent butterfat and the  
14 82.2, that's the number that you'd receive.

15 Q Well, the 4.4 percent butterfat, is that -- is  
16 that dependent upon the accuracy of the  
17 3.68 percent butterfat in the raw milk?

18 A 3.6 -- 3.68 percent, yes.

19 Q Right.

20 A So that if you had a higher butterfat raw milk,  
21 then you probably would have a -- the way this  
22 thing's going, maybe a higher value in the vat,  
23 or if you had a lower butterfat, you'd have a  
24 lower butterfat in the vat.

25 Q Is the 4.4 percent butterfat in the vat a

1 calculation based upon the assumed starting  
2 point of 3.6 percent?

3 A Yes, it is. And all those steps should be laid  
4 out here on this sheet.

5 Q And the same would be true for a total solids  
6 nonfat, correct, the 9.12 percent shown in the  
7 vat is dependent upon there being 8.42 percent  
8 in the milk to begin with; correct?

9 A If you go down through the steps, yes.

10 Q The 111,645 pounds of cheese, just tell me the  
11 math by which that's derived, what times what?

12 A The -- the way this is to work is that you have  
13 the butterfat -- the pounds of butterfat is a  
14 function of the -- trying to remember how to  
15 state this. Using the amount of butterfat that  
16 was there and the butterfat recovery and the  
17 yield, I computed the amount of butterfat that  
18 was going to be left in the cheese, and I  
19 believe -- and it may come out and I -- it's  
20 getting late, but I think that that is -- that  
21 is 94 percent of the butterfat that was in the  
22 vat that shows up in that particular cheese.

23 Q You're saying the 36,608 pounds of butterfat?

24 A Is 94 percent of 38,945.

25 Q And where does the 111,645 --

1 A Well, I do a similar computation to determine  
2 the amount of protein, and based upon I believe  
3 some ratios, the amount of the lactose and other  
4 solids, although I think those were .09, I don't  
5 have the formula right here in front of me, it  
6 has some -- I can speak to you generally, but we  
7 compute -- using the butterfat, as I said,  
8 94 percent of the 38,945, 82.2 percent of the  
9 32,720, we arrive at the amount of butterfat and  
10 protein, and then the factor of .09 that you see  
11 in the Van Slyke formula, and there's some  
12 modification because we're actually looking at  
13 the solids and stuff in there and the ratios of  
14 other solids to lactose, we approximate the  
15 amount of lactose that remains in this process  
16 that shows up in the cheese and the amount of  
17 other solids, because primarily in the process  
18 of cheddaring cheese, not only is the  
19 coagulation of the fat held together by the  
20 protein, but it's also significant removal of  
21 the lactose from the milk.

22 And then with that and then the 38 percent  
23 moisture, you're able then to back into the  
24 111,645.

25 I also think -- let me check this out.



1           Because I think we double-checked this and it  
2           worked.  Yeah, that's how we came up with  
3           those -- that's how we came up with that total.  
4           The result is that there is some variation off  
5           of the -- you know, off of the yield.  But  
6           that's how we came up with that number.

7   Q       What do you mean, there's some variation?

8   A       Well, the 12.61 I believe is the computation  
9           used in the Van Slyke formula, which was the  
10           starting formula of figuring out what's in the  
11           cheese, but the real point of it is is you  
12           determine how much fat and how much protein  
13           ended up in the cheese and from that derive the  
14           rest of the components that comes to the  
15           111,645.

16  Q       So you're producing --

17  A       Probably more cheese than what the 12.61 showed  
18           by a couple, maybe fifty, a hundred pounds.

19  Q       On the second page, you have something called  
20           ingredient yield.  Could you tell us what that  
21           means?  That's the very bottom.

22  A       Yeah.

23  Q       11.11.

24  A       Yes.  11.11 was that if you just look at one vat  
25           and look at the yield with the ingredients that

1 came in, okay, you have an -- 11.11 percent is  
2 the yield. That's how many pounds of -- you get  
3 11.11 pounds out of a hundred pounds of that  
4 milk at the test stated above.

5 Q So what's the difference, then, between that and  
6 the vat yield? What are you incorporating to  
7 result in 11.11 percent for --

8 A Well, the vat yield is representing the -- it's  
9 just showing the different yields. The vat  
10 yield will differ from the ingredient. That's  
11 what it's showing. The ingredient is if you  
12 just look at the ingredients, run one vat  
13 through, this is the percentage and you're done.

14 Q Is the difference between the 11.11 and the  
15 12.61 percent the effect of adding the whey  
16 cream back?

17 A It's the effect of adding the whey cream back  
18 and the concentration of the product through UF.

19 Q When you were testifying before, you provided  
20 some values --

21 A Yes.

22 Q -- which don't otherwise appear in Exhibit 34.  
23 If we copied these down right, you said there  
24 was a cheese value of \$139,221.

25 A Yes.

1 Q And what --

2 A I took the 11 -- if you look at Exhibit 34, line  
3 45 -- I'm sorry, not 45, I apologize. Line 57,  
4 okay, so that's 111,645, and the 1.02, 47, comes  
5 from Exhibit JJ, and that was the average mass  
6 cheese price recorded for 2006 that shows up in  
7 whatever the market report.

8 Q All right. And then you had a whey value as  
9 well.

10 A Yes.

11 Q What was that? We didn't get that copied down.  
12 What was that?

13 A The value was 55,777, and I'll tell you why, and  
14 I think I may have pointed out where it was.  
15 This had run last night and we were done and  
16 somehow or another the wrong spreadsheet came  
17 out.

18 Based on the value of protein or the amount  
19 of protein in the whey powder, it actually shows  
20 up that the amount of protein, rather than  
21 62,000 pounds of whey powder, it should be  
22 closer to about 17,000, 16,977, if you do it on  
23 a protein basis, and I took that number times  
24 .3 -- or 32.85 cents per pound again from  
25 Exhibit JJ and that gave a value of 55,077 --

1 \$5,577, and then I added the cheese, the  
2 139,221, to the 5,577 and that gives you  
3 144,798, and that was the gross value.

4 Q Okay. Then you said the cost inputs were  
5 \$117,794; is that correct?

6 A Yes.

7 Q That's based on what?

8 A That's the Class III milk price for milk at the  
9 test that show up on line 1 using the average  
10 component prices that were computed, and I think  
11 those are the ones that would have shown up in  
12 Exhibit KKK under current, or KKK and a number  
13 of others under the current pricing.

14 Q That's for a million pounds?

15 A That's for a million pounds at the test that  
16 show up at the top of line 34.

17 Q So you're assuming zero cost for the 35,000  
18 pounds of ultrafiltered milk potentate you're  
19 bringing in?

20 A I'm not bringing that in. That's been produced  
21 at the plant. Oh, the other 25 -- yes, we would  
22 have to make some adjustment. I see what you're  
23 saying, yes. There would be some additional  
24 cost for that. I'm sorry, KK, you're right.

25 Q The source is KK, not KKK?

1 A The source is KK.

2 Q The KK numbers are based on what time frame?

3 A As I stated in my Direct testimony, I took the  
4 identified exhibits from the market  
5 administrator's office and we looked at the  
6 average for 2006 for the NASS prices. I then  
7 used the formulas as they are now stated, and I  
8 have that in exhibit in there, that are now in  
9 place for each of the butter to butterfat,  
10 protein to -- or cheese to protein, nonfat dry  
11 milk to solids not fat, the other solids to --  
12 or dry whey to other solids price. I then used  
13 those formulas to compute what the current -- or  
14 what the component prices would be using those  
15 average NASS prices under current formula.

16 **MR. ROSENBAUM:** That's all I have for now.

17 **JUDGE PALMER:** We'll be back tomorrow  
18 morning at nine o'clock.

19 *(At 6:17 p.m., Monday, April 9, 2007, the*  
20 *hearing in this matter was recessed, to*  
21 *reconvene at 9:00 a.m., Tuesday, April 10,*  
22 *2007.)*

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1 STATE OF INDIANA )  
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I, Dianne D. Lockhart, a Notary Public and Stenographic Reporter within and for the County of Marion, State of Indiana at large, do hereby certify that on the 9th day of April, 2007, I took down in stenograph notes the foregoing hearing;

That the transcript is a full, true and correct transcript made from my stenograph notes.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my notarial seal this 17<sup>th</sup> day of April, 2007.

*Dianne Lockhart*  
NOTARY PUBLIC

My Commission Expires:  
July 22, 2007  
County of Residence:  
Marion County