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GUIDANCE ON GOOD AGRICULTURAL AND  
MANUFACTURING PRACTICES FOR  
FRUITS AND VEGETABLES

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PUBLIC HEARING  
HELD ON FRIDAY, DECEMBER 5, 1997 AT  
THE CLAYTON HUTCHESON AGRICULTURAL CENTER  
559 NORTH MILITARY TRAIL  
WEST PALM BEACH, FLORIDA

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 4 John Vanderveen, Ph.D., Acting Deputy Center Director,  
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 5 Martha Roberts, Ph.D., Deputy Commissioner for Food  
 and  
 6 Safety, Florida State Department of Agriculture  
 and  
 7 Consumer Services  
 8 Clayton Hutcheson, Director, Palm Beach County  
 Cooperative Extension Service  
 9 Douglas L. Archer, Ph.D., Chair and Professor, Food  
 Science and Human Nutrition, University of  
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1                   (The following Public Hearing commenced at  
2           9:10 a.m.)

3                   MS. ISAACS: Good morning. Thank you for  
4           joining us this morning, and we also thank our  
5           head table of participants for weathering the  
6           weather yesterday and joining us.

7                   You all should have a copy of the agenda in  
8           your packets, the new and improved agenda as of  
9           this morning, and I'm going to go through here  
10          and briefly introduce our participants here.

11                  Down at the far end is Dr. John Vanderveen.  
12          John is the Acting Deputy Center Director with  
13          FDA Center for Food Safety and Applied Nutrition.

14                  Next to John is my boss, Mike Chappell, the  
15          Acting District Director of the FDA Florida  
16          District Office.

17                  And next to Mike is Dr. Martha Roberts.  
18          Martha is the Deputy Commissioner for Food Safety  
19          with the Florida Department of Agriculture and  
20          Consumer Services.

21                  And then we have former FDA'er, Dr. Douglas  
22          Archer, who is a Chair and Professor, Food Safety  
23          with the University of Florida, Food Science and  
24          Human Nutrition.

25                  Did I get that sort of right, Dr. Archer?

1 DR. ARCHER: Certainly.

2 MS. ISAACS: All right. Just checking.

3 John, who was going to introduce Terry, but  
4 I guess I'm introducing Terry. Terry Troxell.

5 What is your title, Terry, with CFSAN?

6 MR. TROXELL: Director of Programs and  
7 Enforcement Policy Commission and of Dairy, Food  
8 and Beverages.

9 MS. ISAACS: And one of the drafters of the  
10 document.

11 Okay. And we have my other boss, Richard  
12 Barnes, is the Director of FDA's Division of  
13 Federal State Relations in Rockville, Maryland.

14 And we have Clayton Hutcheson. Clayton is  
15 the Director of Palm Beach County Cooperative  
16 Extension Service, whom I'm sure a lot of you  
17 know, and we certainly appreciate his hospitality  
18 today and he's going to be giving some welcoming  
19 remarks.

20 Okay. Let's give a little background  
21 information about this initiative. On  
22 October 2nd of this year, President Clinton  
23 announced a plan entitled Initiative to Ensure  
24 the Safety of Imported and Domestic Fruits and  
25 Vegetables.

1           As part of this initiative, the President  
2           directed the Secretary of Health and Human  
3           Services, in conjunction with the Secretary of  
4           Agriculture, and in close cooperation with the  
5           agricultural community, to issue guidance on good  
6           agricultural practices, affectionately referred  
7           to as GAPS?

8           Do you call them GAPS, too?

9           MR. TROXELL: GAPS.

10          MS. ISAACS: GAPS. And good manufacturing  
11          practices, GMPs for fruits and vegetables.

12          FDA and USDA have developed draft working  
13          papers that addressed microbial food safety  
14          hazards and good management practices associated  
15          with water quality, sanitation, hygiene,  
16          transportation, manure and municipal sludge  
17          common to the growing and harvesting of most  
18          fruits and vegetables that are sold to consumers  
19          in an unprocessed or minimally processed form.

20          These preliminary drafts are intended to be  
21          further developed and refined to assist growers  
22          and handlers in examining their operations for  
23          potential microbial hazards, and in identifying  
24          management practice options that may be adopted  
25          to minimize the risks of microbial contamination

1 for fresh produce.

2 So the purpose of this meeting is to solicit  
3 your input on this draft guide. This meeting is  
4 part of a series of town hall meetings that are  
5 being held across the country. A public meeting  
6 was held in Washington, D. C. on November 17th  
7 and approximately 150 people attended. Comments  
8 from that public meeting are included in the  
9 draft of the guide that will be presented today.

10 I believe there is going to be another  
11 meeting Monday to address international concerns;  
12 that's also in the Washington, D. C. area.

13 Grassroots town hall meetings have also been  
14 held this week in Grand Rapids, Michigan on  
15 Monday, they had about a hundred folks there, and  
16 Geneva, New York on Wednesday attracted about 75  
17 attendees.

18 So today we hope to get your comments, your  
19 reactions to this draft guide and, later on, if  
20 you get home and think of additional points, you  
21 can go ahead and submit a written comment to the  
22 FDA.

23 Your information packet includes an  
24 announcement for this meeting, and that  
25 announcement tells you where to send additional

1           comments, and it's very important that you  
2           include the docket number with that comment. So  
3           we encourage you to do so after we go away today.

4           This meeting is being transcribed so that  
5           the scientists preparing the guidance document  
6           can carefully review your comments and make  
7           revisions to the document as appropriate.

8           As far as housekeeping, some of you may have  
9           found the rest rooms already right outside the  
10          entrance. There will be coffee, we hope. It has  
11          been ordered. There are several restaurants  
12          close by, and Clayton has provided a map to the  
13          ones closest to us. We really want to just break  
14          for one hour for lunch and be back here to get  
15          the input from you all.

16          We hope that you all picked up an  
17          information packet about FDA and USDA at the  
18          registration desk. And we intend that today's  
19          meeting will be informal; you will have ample  
20          opportunity for comment.

21          As you see from the agenda that we're  
22          scheduled to adjourn at 4:00 o'clock, but I'm  
23          sure if there's a lot of interest, that everybody  
24          will stay till the last person is heard. Am I  
25          right?

1           Okay. In addition, if some of you don't  
2 really want to make your comments orally, we have  
3 a little written two-part form, comments,  
4 questions, and Frank Goodwin has those available  
5 for you; just fill it out and raise your hand and  
6 Frank will collect it and we'll get it to the  
7 right panelist up here and address your concern,  
8 and I'll read your comment or question.

9           Okay? Are there any questions thus far?

10          All right. Well, let's start off with Mike  
11 Chappell.

12          MR. CHAPPELL: Good morning.

13          I think if we're going to hear from these  
14 people, we're going to have to have a little more  
15 enthusiasm.

16          MS. ISAACS: Try it again.

17          MR. CHAPPELL: Good morning. A little  
18 better. You might want to tone them down toward  
19 the end of the day.

20          Well, I'm here on behalf of the Food and  
21 Drug Administration to welcome you to this town  
22 meeting, as well as representing John Turner, who  
23 is the regional director for the Southeast Region  
24 of the Food and Drug Administration.

25          I'd like to emphasize a few points, very few

1 points about the President's Initiative and our  
2 purpose here today. First of all, it is a  
3 collaborative effort. It includes the United  
4 States Department of Agriculture and state and  
5 local Departments of Agriculture, and,  
6 importantly, for today's meeting, it includes  
7 you.

8 As Lynn mentioned, this is one of a series  
9 of meetings -- I think this is the third of six,  
10 I guess we held them last week, and there will be  
11 some next week also -- throughout the country to  
12 hear your concerns. The meeting that Lynn  
13 mentioned on Monday in Washington, December the  
14 8th, will deal with international concerns.

15 The use of the town meeting is -- or the  
16 grassroots meeting is fairly new to FDA. We,  
17 really, over the last few years as part of, I  
18 guess, a re-invention of government, we began to  
19 use these instruments more in getting people's  
20 input earlier on in the process of developing  
21 guidelines and regulations.

22 And it's certainly appropriate to do that,  
23 because if you look at the history of this  
24 country, that is a forum that has been used  
25 throughout history to understand what the people

1 really need, the people really want, and the  
2 people's concerns.

3 So this is a forum; this is your forum, this  
4 is your opportunity to speak with us, to share  
5 with us your concerns and certainly understand  
6 what we're going to be giving you today and  
7 presenting to you. Certainly, we ask that you be  
8 frank, you be open with us, and we'll certainly  
9 do the same with you.

10 I think it's very appropriate that we're  
11 having one of these meetings in the Southeast,  
12 particularly here in Florida. The Southern  
13 United States and Southeastern United States  
14 produces a significant portion of the fresh  
15 fruits and vegetables consumed in the United  
16 States.

17 And it's also in this area where we have a  
18 wide variety of representatives of the producers.  
19 We have everything from the small family farm to  
20 the major agribusinesses. And this is, again,  
21 your opportunity to talk about these issues, to  
22 understand these issues and let us know how you  
23 feel about them.

24 I'd like to mention a little bit about -- I  
25 mentioned the Southeast Region. The Southeast

1           Region of the United States is composed of eight  
2           states, the Commonwealth of Puerto Rico and the  
3           U.S. Virgin Islands. There is a district --  
4           district throughout the Southeast, they are  
5           located in Atlanta, Orlando, San Juan, Nashville,  
6           and New Orleans. There are about 500 of us. We  
7           have two laboratories located, one in Atlanta and  
8           one in San Juan. There's about 125 people  
9           associated with those laboratories. The rest of  
10          us in those district offices and the 28 other  
11          support offices for those districts comprise the  
12          500 people in the Southeast.

13                 The laboratories analyze thousands of  
14                 products in the course of a year, generating  
15                 hundreds of different analyses to ensure that the  
16                 products that we regulate are safe, effective,  
17                 and wholesome.

18                 The rest of us throughout the inter-lands  
19                 and in these other offices that I mentioned, are  
20                 basically the field investigational force; we do  
21                 the inspections, we conduct investigations in  
22                 support of the Food, Drug and Cosmetic Act and  
23                 other associated acts.

24                 But FDA overall is involved in the  
25                 production, import, transport, storage, and

a

1 monitoring of products that account for about  
2 \$750 billion a year in our economy. So we have  
3 major job and, of course, food safety is one of  
4 FDA's major concerns.

5 It is our responsibility to make sure that  
6 the food on American's tables is both safe and  
7 wholesome. And part of that process is to try to  
8 prevent problems before they occur. And as part  
9 of that, one of the things we do is try to assess  
10 risks associated with these products, and that is  
11 one of the bases for our public health  
12 commission.

13 Based on our public health responsibilities,  
14 the President has charged FDA to take the lead in  
15 developing a guidance document to assist farmers  
16 in minimizing microbial hazards. I must  
17 emphasize that we are developing guidance and not  
18 regulations.

19 Those of us within FDA understand the  
20 difference and we understand the possible  
21 nuances. And I know for people who are not that  
22 familiar with it, it may get muddled and one may  
23 appear to be the other.

24 And I think as we go through the day -- and  
25 I ask you to pay particular attention to this --

1 we're going to talk about the differences between  
2 guidance and regulations and how that really will  
3 affect what this whole process is about.

4 The President's Initiative does not require  
5 new regulations on microbial safety of foods.  
6 You'll hear that repeatedly throughout the course  
7 of the day and it's important for you to  
8 understand that.

9 Richard Barnes, who is now part of the food  
10 safety initiative -- I guess in his former life  
11 he's a director of the Division of Federal State  
12 Relations, and many of you may already know him,  
13 but he'll talk a lot more about this -- the  
14 regulation, per say, and the differences in the  
15 guidance.

16 The task at hand is twofold for us: First,  
17 we're going to review some of the major features  
18 of President Clinton's initiative on fresh  
19 produce, and Richard will give you some of the  
20 background on that and the forces that led to it.

21 Secondly, and most importantly, we need to  
22 have your input on the draft guidance on good  
23 agricultural practices, which Lynn has already  
24 referred to as GAPS.

25 The drafts in your information packet, it's

1 fairly fresh, I think we got it just a few days  
2 ago, and it represents our first stab at this.  
3 It does represent input from the both the  
4 sciences at USDA and FDA, and they represent only  
5 preliminary thinking on our part.

6 Obviously, you have to have something to  
7 start with, something to get the discussion  
8 going, and that's what this is.

9 The produce subcommittee of the National  
10 Advisory Committee on Microbial Criteria and  
11 Foods, which is an advisory body to FDA, has  
12 reviewed this draft, and it's my understanding  
13 their comments have been incorporated.

14 So now it's your turn. We expect you to go  
15 over this with us, give us your comments, ask  
16 questions. It's really important that we  
17 understand each other. If you don't understand  
18 something we're saying, you need to be clear on  
19 that. And, likewise, we need to be clear on your  
20 thoughts and feelings.

21 All of these town hall meetings, all of  
22 these grassroots meetings, the comments will be  
23 carefully analyzed, they will be reviewed prior  
24 to issuance of the final draft document, which  
25 will be issued in the Federal Register early in

1 1998.

2 Even after it's been issued, there will  
3 certainly be a comment period, and you'll have  
4 another opportunity to comment on that draft at  
5 that point. It also will be -- it is now posted,  
6 as I'm sure the -- when the final draft goes out,  
7 will be posted on FDA's web site or Internet  
8 site.

9 If you picked up one of these blue folders  
10 outside, you already have the FDA Internet  
11 address. It's on -- it's certainly on this  
12 particular insert. If you haven't picked that  
13 up, please do so. We've become so accustomed now  
14 to using the Internet to provide information  
15 that, in the field, this is the first place we go  
16 to find out what's the most current thinking in  
17 the various centers within FDA.

18 So I encourage you to use that to certainly  
19 see what's happening, what's going on, not only  
20 in this initiative, but in other areas of FDA.

21 Well, we got a little bit of a late start,  
22 but I certainly want to make sure I don't step on  
23 anybody's toes, talk about things that's going to  
24 be addressed further, so I'm going to stop now.

25 But I do want to encourage you to be open,

1 to be frank with us. We're here to listen, and  
2 I'm sure that if -- there's going to be plenty of  
3 time for questions and just so we can hear your  
4 concerns and comments.

5 So with that, Lynn, I'll turn it back over  
6 to you.

7 MS. ISAACS: Thank you, Mike. And the FDA  
8 home page is [www.fda.gov](http://www.fda.gov). And you will find a  
9 wealth of information on it.

10 Okay. Dr. Vanderveen, you're next.

11 MR. VANDERVEEN: Thank you, Lynn.

12 I'm John Vanderveen, as Lynn has told you,  
13 and I would like to extend my welcome to all the  
14 welcomes that you'll get this morning on behalf  
15 of the Center for Food Safety and Applied  
16 Nutrition and all of our partners in this food  
17 safety initiative.

18 And there are six partners; there's several  
19 sections of USDA that are actively involved with  
20 this. The Center for Disease Control, the  
21 Environmental Protection Agency is playing a  
22 significant role, and we are all very pleased  
23 that you have taken the effort to come here  
24 today. We recognize that you have busy  
25 schedules, we recognize also that some of you

1 have come long distances, and we're very pleased  
2 that you're willing to make that effort.

3 I'd like to introduce one other person. I  
4 think Camille Brewer is back there in the back of  
5 the room. Camille is one of our compliance  
6 officers, and she's been the project manager for  
7 a number of these efforts, produce initiative  
8 efforts, and she has been largely responsible for  
9 organizing much of what you're going to see  
10 today.

11 I would like to mention the fact right off  
12 that we have the safest food supply in the world.

13 There is -- we continue to say that, we're very  
14 proud of that. USDA regulating meat and poultry  
15 and FDA regulating a good portion of the other  
16 food supply. We are very, very pleased all the  
17 time with the response that the farmers, the  
18 processors, and retailers do in making our food  
19 supply as safe as it is.

20 Nevertheless, there are problems from time  
21 to time and we have to expect that, I guess, but  
22 we always try to make things better.

23 As you heard, the President, two months ago,  
24 initiated this produce initiative and we are very  
25 anxious to fulfill the goals that he's outlined

1           in this. But our main purpose is to gain from  
2           you your advice, your counsel, your constructive  
3           criticism and gain from the benefit of your  
4           knowledge. I'm the first to admit that we can't  
5           be in your shoes at all times and know all the  
6           nuances that are important in trying to do what  
7           we're trying to do in this area.

8           I want to acknowledge, also, that there has  
9           been significant input to where we are at the  
10          present time from the industry. The trade  
11          associations, the educational arms of those trade  
12          associations have played a significant role in  
13          recent years in trying to guide us in what needs  
14          to be done relative to such a guide as we're  
15          trying to put forth today.

16          I've met with a number of trade associations  
17          over the last two or three years; they have sent  
18          me their materials and asked for my input to it,  
19          and we're very pleased that they're working so  
20          hard in this area, and we hope that this  
21          relationship can continue in a very positive  
22          manner.

23          There's more about this initiative on  
24          produce that I want to emphasize and just take a  
25          moment to do it. As you've already heard, this

1 is a guidance document that we're trying to  
2 prepare and we think it's very important for  
3 various reasons.

4 It's about partnerships between government  
5 agencies, farmers, transportation processors,  
6 retailers, and even the consumer, and it's about  
7 a new paradigm where the government will place  
8 more emphasis on helping to prevent food safety  
9 problems by establishing good agricultural  
10 practices and good manufacturing practices and  
11 less on traditional end item inspection and  
12 testing.

13 We just don't have the resources; it's just  
14 not a good way to operate, and as a consequence,  
15 we want to enter into a much more -- we hope that  
16 with Seafood HACCP you will see the results of  
17 this partnership starting in January, and we will  
18 soon have an in-juice HACCP proposal in the  
19 Federal Register.

20 And we hope that you will understand that  
21 this is a program where we're trying to work with  
22 the industry and try to prevent problems and not  
23 rely on the traditional compliance approach to  
24 gaining food safety.

25 We want to establish also a dialogue, and we

1 want you to be able to feel free to come in to  
2 see us from time to time if you have problems.  
3 We've always had our doors open to talk with  
4 people and we want to emphasize that as well.

5 I think that there's one other aspect I  
6 would like to talk about today, and that is the  
7 fact that, in developing this guide, is for -- as  
8 you'll hear today -- for our domestic industry,  
9 but the guide is very important in dealing with  
10 our trading partners as well.

11 As you know, there are various trade  
12 agreements required, that we have standards that  
13 are equal between those for domestic and those  
14 for imports of all our products. And we must  
15 start out by defining what our standards are, and  
16 then only in that way can we say to foreign  
17 governments, this is our standard and we expect  
18 you to meet that standard.

19 So I emphasize that, although we're working  
20 on a guide for domestic production of foods,  
21 we're anxious to use that guide eventually as our  
22 standard as what we expect from other imports to  
23 this country.

24 In closing, I'd like to say just two things:  
25 I appreciate very much Mr. Hutcheson's efforts to

1 have us here in this very nice facility. I'm  
2 with the 4-H -- I guess I was going to say  
3 student -- but 4-H member for about 12 years 45  
4 years ago, and I must say, things weren't quite  
5 this good. We usually met in the middle of a  
6 dairy farm barn floor or someplace like that, not  
7 nearly as nice as this, and we certainly  
8 appreciate your kind invitation here, and we hope  
9 all of you will participate very fully today.

10 Thank you very much.

11 DR. ROBERTS: I bring you greetings from  
12 State Government, Commissioner Bob Crawford,  
13 Commissioner of Agriculture for the State of  
14 Florida welcomes you, and we're delighted to be  
a participant in this meeting and to gain  
15 perspective from everyone involved.

17 We commend FDA and commend USDA for trying  
18 to address this issue and for allowing  
19 participation by state government, by industry,  
20 by consumers, and all stakeholders.

21 Quite frankly, it's unbelievable that we  
22 have a major political initiative that is very  
23 scientific issue of food safety, and I think,  
24 quite frankly, it puts us into a different arena  
25 and casts some different perspectives that we're

1 all having to deal with as we go forward on this  
2 very major initiative.

3 So as state government, we're prepared to  
4 work very closely with our federal partners, FDA  
5 and USDA, to ensure that we have a very science-  
6 based common sense guidance to the industry.  
7 We're very pleased that FDA has been charged to  
8 develop this in cooperation in partnership with  
9 USDA and to set standards for imported and  
10 domestic product.

11 Food safety is a major priority of the  
12 Florida Department of Agriculture and Consumer  
13 Services. It is the department's priority, it is  
14 the public's priority, industry's priority,  
15 universities and health professionals alike.

16 Within the department, we focus on the  
17 potential microbial risk, attempting to prevent  
18 it through good sanitation and hygiene and to  
19 provide the safest food supply to our citizens in  
20 our inspection and laboratory testing programs of  
21 the State.

22 We're emphasizing examination for food-borne  
23 pathogens, everything from Salmonella to E. coli  
24 to Listeria, and would like analytical procedures  
25 for other things, such as cyclospora that we have

1 to deal with as food-borne risk in the State of  
2 Florida.

3 The State of Florida is responsible for the  
4 inspection and laboratory surveillance of over  
5 28,000 retail food stores, warehouses, and  
6 processing establishments in the State of  
7 Florida. We have almost 300 individuals  
8 associated with this program, and we're delighted  
9 that one of these public meetings is held in the  
10 State of Florida. We think it's a very  
11 appropriate location.

12 For many years, this very county in which  
13 we're seated was the fourth and fifth largest  
14 agricultural county in the United States  
15 producing over \$1 billion in cash receipts in a  
16 whole host of fruits and vegetables. But yet,  
17 due to the impact of many government regulations,  
18 state, federal, local, as well as increasing  
19 competition from imports, within the last census,  
20 we have seen this county dwindle from fourth or  
21 fifth down to 11th.

22 We feel that this is an apt place to have  
23 this hearing because of the diversities of  
24 agriculture in this county. And it is also very  
25 appropriate because this was one of the very

1 first counties in the nation over three years ago  
2 where we started experiencing so many cases of  
3 food-borne illness from a unbefore recognized  
4 parasite, cyclospora. I'm very glad that  
5 Dr. Jean Malecki will be later talking a little  
6 bit about that, as far as the numbers of cases  
7 experienced here in this county from imported  
8 strawberries.

9 And this county is also the site of some  
10 very proactive citizen groups. We have some  
11 senior citizen groups in the area that are  
12 extremely active with the department, are trying  
13 to do more in the whole area of helping the  
14 department to enforce our country of origin  
15 labeling laws so that the general public will  
16 know the source of fruits and vegetables that  
17 they are eating.

18 So we are a state in which we have a  
19 tremendous partnership. Our philosophy in the  
20 State of Florida has always been cooperative.  
21 We've had innovative partnerships with federal  
22 government, with state government, with local  
23 government, with our industry groups, with  
24 consumer groups, with our universities, and with  
25 Extension Service, and we feel that that's the

1 very best way to attack problems.

2 We're a state where every one of these  
3 groups has, as their major focus, food safety  
4 consumer issues and water and environment, and  
5 they're all priorities for state government  
6 federal consumer groups, industry and  
7 universities alike.

8 So this partnership is excellent and we  
9 focus on partnerships as the necessary step in  
10 this guidance. But we'd also like to look at the  
11 goal of health. And within my welcome, I'd like  
12 to make a few comments relative to that, because  
13 that is the ultimate goal of any GAPS or GMPs  
14 relative to this industry, is to increase the  
15 public health in this country.

16 And I am personally concerned that, as we  
17 have any further drop in domestic production of  
18 fruits and vegetables with any increased  
19 importation from third world nations, that we  
20 make certain that we apply the current  
21 regulations on sanitation and production to the  
22 importation from other nations.

23 It is very difficult for us to absorb  
24 reports of all sewage and irrigation waters on  
25 nations from which we're having product imported.

1           If we reduce domestic production, have we  
2           increased public health safety in this country,  
3           and I do not think that we will have.

4           One of the major parts that we strongly  
5           support in the document is the area concerning  
6           water concerns and water impact on food safety.  
7           We are a state that has very major complex  
8           regulations involving water safety, water  
9           quality, and the source of water.

10          Water in the State of Florida is regulated  
11          very strictly by our five water management  
12          districts as far as the Florida Department of  
13          Environmental Protection. The actual water  
14          allowed to be used by agriculture is given to  
15          them on a water use permit that allocates to  
16          agricultural uses specific quantities of water  
17          annually and the specific source of that water.  
18          So they could not, and it would be very difficult  
19          to immediately change any source.

20          But the water use in agriculture is about  
21          60 percent farm ground waters with about  
22          80 percent of many of our industries already  
23          having shifted to low volume drip irrigation.  
24          Water we use is emphasized as a goal of the state  
25          as far as use of reclaimed water, but edible

1 crops that will not be peeled, skinned, cooked,  
2 or semi-processed before consumption are not  
3 permitted to be using treated effluent.

4 We support any reasonable proposal that will  
5 increase food safety in this nation. The number  
6 of deaths and illnesses is unacceptable, but we  
7 want to support something that will be based on  
8 sound science, on advisory groups'  
9 recommendations. We're very pleased that those  
10 have been entered into the proposed draft.

11 We would hope that our federal counterparts  
12 will support the additional research GAPS that  
13 have been identified and that will base all these  
14 good agricultural practice recommendations on  
15 common sense and reality and risk to the public.

16 And we earnestly ask that what we have  
17 currently in place as far as sanitary  
18 requirements in the United States be initially  
19 enforced on both domestic and imported product.

20 We need also to ensure that we're listening  
21 to our voices, and that's why I want to commend  
22 FDA and USDA for doing just that.

23 Today I'll be listening as a regulator.  
24 I'll be listening with a regulator hat who's top  
25 priority is food safety and who wants to ensure

1           the highest degree of safety to the foods that  
2           we're purchasing, the foods we're producing, the  
3           foods we're consuming.

4                     We've got about 14.7 million citizens in  
5           this state and over 40 million annual visitors.  
6           That's a lot of meals being served and it's a lot  
7           of food safety requirements.

8                     I'll be listening as a professional  
9           microbiologist who's very concerned with the  
10          threat of the condition of some of the imported  
11          products that we're seeing from nations not  
12          having adequate sanitation.

13                    If I'm told not to eat salads or fruits and  
14          vegetables in a nation I'm visiting, even in the  
15          very best of restaurants, why would I want to buy  
16          them and purchase them once they're imported into  
17          the United States. That's a personal philosophy.

18                    As a microbiologist, I also know that dirt  
19          and fields are not sterile and they can't be. I  
20          strongly support, though, the requirement that  
21          you can't expose the food to untreated human or  
22          animal waste.

23                    I'm listening as a member of an agricultural  
24          agency that knows the efforts of our agricultural  
25          industry to try to address food safety concerns

1 and prevent contamination. And I'm also going to  
2 be listening to you as a mother and a grandmother  
3 because I want the safest and cheapest food  
4 supply. I want it to continue; I want the older  
5 and the younger members of my family not to be  
6 submitted to any undue risk, but I also want them  
7 to eat more fruits and vegetables because it's  
8 the best way, and one that our National Academy  
9 of Sciences has recognized as the best way to  
10 prevent cancer and chronic human disease.

11 So I commend FDA for their activity and I  
12 commend them on having the National Advisory  
13 Committee on Microbiology for Criteria for Foods  
14 to address this issue. We would ask you to  
15 thoughtfully consider the committee's  
16 recommendation and to pursue those with all care  
17 and deliberation.

18 We want you to continue, as you're doing  
19 here, to actively seek the input of all parties  
20 and we're delighted at that. And we thank you  
21 for letting the input of those who know how  
22 fruits and vegetables are grown in real life to  
23 provide information to you.

24 We want to all work together to seek the  
25 highest level of safety for the U.S. food supply

1 and to aggressively apply current standards. We  
2 want you to actively support country of origin  
3 labeling, too, so that consumers can know where  
4 the produce that they're eating has come from.

5 We look forward to hearing from the  
6 industry, we look forward to continuing to work  
7 with FDA because we're a state in which  
8 partnerships are effective and we want to see the  
9 President's Initiative soundly and reasonably  
10 applied.

11 Thank you.

12 MR. HUTCHESON: I wanted to take just a  
13 moment to welcome you on behalf of Dr. Chris  
14 Waddill, dean and director of the Cooperative  
15 Extension Service here in Florida, she couldn't  
16 be here today. But the Extension Service here in  
17 Florida has a commitment to carrying out the  
18 educational role that has been given to us over  
19 the years.

20 As I look at what's going on here today and  
21 what may come out of it in the future, we have  
22 dealt with and provided educational services for  
23 training of pesticide applicators leading to  
24 their certification when that came along, that's  
25 happening, of course, throughout the United

1 States, and Extension Services came through on  
2 that. The worker protection standards, when that  
3 came along, the Extension Service geared up to  
4 make sure that educational programs were there to  
5 be delivered to the agricultural people.

6 So Dr. Waddill has renewed her commitment to  
7 make sure that the Extension Service here in  
8 Florida is able to deliver and to provide those  
9 educational services that are going to make a  
10 difference for the industry here in Florida.

11 Whatever comes out of this meeting today and  
12 ultimately out of this process, the Extension  
13 Service will probably be -- have a responsibility  
14 for doing some part of the educational role that  
15 will be certainly associated with this.

16 Since my role is to remain unbiased and not  
17 make any inflammatory comments, I'm going to kind  
18 of stop there and welcome you to the facility.

19 I might say, there are some members of the  
20 press here today. We have some tables over along  
21 the wall; if that's more convenient for you, feel  
22 free to use those.

23 But, again, on behalf of Dr. Waddill and the  
24 Extension Service here in Florida, welcome, and  
25 we stand ready to support the industry and to

1 make life as easy as possible at the end of this  
2 entire process.

3 Thank you.

4 DR. ARCHER: I'm Doug Archer. I'm from the  
5 University of Florida which is the land grant  
6 school here in the State. And I don't speak for  
7 the University of Florida; if you know much about  
8 academics, nobody can represent academics, they  
9 all have their own opinions.

10 In any event, I'm allowed to make  
11 inflammatory remarks, unlike Clayton, so I'll  
12 make a couple.

13 We're here today to talk about this  
14 document, this draft guide. And when I was with  
15 FDA, the last ten years I was with the agency, I  
16 spent in Washington, D.C., and there used to be  
17 rule of thumb in Washington that when you put  
18 something out, it had to pass the hee-haw test,  
19 and if you think about that, it becomes self-  
20 explanatory.

21 And I have to admit, when I was reading  
22 this, I did get a few hees and haws out of it.

23 couple of them I'll just mention that I think the  
24 agencies might want to reconsider are some

1           \$15,000 to cover my swimming pool and I still  
2 have frogs, snakes and other things that crawl in  
3 and out of it, so I don't think that's a  
4 practical solution.

5           Another thing that I think they might want  
6 to reconsider is the control of migratory birds.  
7 I'm not aware that migratory birds have to land  
8 in order to defecate and, frankly, I'd rather  
9 have them on the ground where they probably  
10 aren't going to saddle up to the green bean bush  
11 to do their business, rather than indiscriminate  
12 bombing overhead. So I don't think it's possible  
13 to enforce no-fly zones over the entire southern  
14 half of the State of Florida.

15           Now that might sound funny, but I don't  
16 think it's funny for a variety of reasons. I  
17 don't think it's funny if, in any way, these  
18 efforts, through publicity or whatever, decrease  
19 the consumption of fresh fruits and vegetables  
20 from whatever source.

21           Remember -- and Dr. Roberts brought it up,  
22 but it's very important that we keep in mind --  
23 the consumption of fresh fruits and vegetables is  
24 the single most important preventive public  
25 health measure in the United States. It saves

a

1 more lives than food-borne disease takes ten  
2 times over each year. And that is a fact, it's  
3 medically proven fact; it's not speculation.

4 Now, why is this effort happening at all?  
5 Well, I think Dr. Roberts also alluded to that.  
6 There is a good dollop of politics involved as  
7 well as some reality. There have been some  
8 outbreaks associated with fresh fruits and  
9 vegetables.

10 But where I take exception with some of the  
11 information in the guide are the examples that  
12 have been chosen. I mean, there are some real  
13 outbreaks that can be cited. But why confuse  
14 processed foods with fresh produce? Why bring up  
15 frozen coconut milk? I'm not aware that that's  
16 fresh produce. Why give false examples of  
17 outbreaks?

18 And I just pulled one because it happened  
19 here in Florida, and it's in the guidance  
20 document and it cites the outbreak in 1995  
21 involving fresh-squeezed orange juice at a theme  
22 park here in Florida. And the add-on to that is  
23 that, although the cause of the contamination was  
24 not identified, at least one of the groups  
25 supplying oranges to the implicated processor

1 irrigated with surface water that may have been  
2 contaminated.

3 Well, if that's not speculation on  
4 speculation, I don't know what is. Because the  
5 cause of that outbreak, I think, was pretty well  
6 established, and it had nothing to do with  
7 irrigation water. So why have things like this  
8 in a document that's going to have any credence  
9 on the outside.

10 I think what you'll hear today from a lot of  
11 people is, this thing is going too fast. Now,  
12 there's a reason for that. FDA is in the  
13 executive branch of government, and the Chief  
14 Executive of the United States told him to do it  
15 in 90 days. And when he speaks, you do it in 90  
16 days.

17 I did the same thing, I had to do the same  
18 thing when I was there. I never have experienced  
19 anything quite like this in the 20 years I was  
20 with the agency, but nevertheless, that's why  
21 it's on a fast track.

22 I wish the process would slow down and I  
23 wish that more time and more care could be given  
24 to putting things down on paper; because once  
25 they're down on paper, sometimes they're very

1 hard to erase.

2 Well, I've said some negative things, but  
3 what are the positives? I think there are some  
4 good things here and good things that need to be  
5 considered. I think anything that decreases  
6 illness in the United States is a positive thing,  
7 and if this effort can do that, more power to it;  
8 let's get down to work and find the things that  
9 will have the most bang for the buck and do those  
10 things.

11 But where should the effort be? I mean,  
12 there's a lot in here on all kinds of things in  
13 the growing field, and is that really where we  
14 ought to be focusing our efforts. And I say no.  
15 At least in my opinion, no.

16 What I don't see in here -- I see some  
17 illusions to it coming in the future, but I  
18 really believe that the biggest bang for the buck  
19 would be anything that could empower the consumer  
20 and the end product user of fresh produce.

21 Educate them, give them the knowledge they need  
22 to treat the food safely, not to contaminate the  
23 food and subsequently cause people to become ill,  
24 which many of these outbreaks have really  
25 involved, taking Neem juice, putting it on

1           lettuce, feeding it to people and wondering why  
2           they become ill.

3                   I think the other big bang for the buck  
4           would be for the agencies that regulate either  
5           disinfecting compounds or sanitizing compounds to  
6           be able to put those, and assure producers that  
7           those compounds could be put on a fast-track for  
8           approval. Without that, we have chlorine and we  
9           have precious little else that's been really  
10          approved and blessed by the federal government in  
11          the way of food additives.

12                   I think those are two things that the  
13          agencies could do and where they could devote a  
14          lot of these resources to really, really make an  
15          impact.

16                   Thank you.

17                   MS. ISAACS: Thank you, Dr. Archer.

18                   And we do do a lot in the area of consumer  
19          education already. We have a network of consumer  
20          affairs officers, now called public affair  
21          specialists, about 40 of us total nationwide, and  
22          we do work very closely with Extension.

23                   In fact, one of the programs that the  
24          Florida District office started with Brevard  
25          County Extension Service several years ago was

1           recently recognized with -- they received the  
2 Vice President Gore's Hammer Award for Excellence  
3 in Consumer Education. So I just had to add  
4 that.

5           Our main focus this year is food safety for  
6 seniors and it's an elder education project, and  
7 most of the volunteers involved with this are  
8 family community educators affiliated with  
9 Extension. And this particular program has also  
10 been extended to several other counties in  
11 Florida. And in your package, you will also see  
12 a variety of some FDA consumer education  
13 materials.

14           Okay. Are there any questions at this  
15 point?

16           You can see how we're going to proceed;  
17 Mr. Barnes is going to present an overview of the  
18 President's Initiative and get into the GAPS,  
19 take a short break, hopefully, the coffee will  
20 have arrived, and then he will continue with his  
21 preview and any questions that you have that need  
22 to be clarified, break for lunch, a short  
23 presentation by USDA, additional questions, and  
24 open it up to industry group presentations, a  
25 number of which have been -- to start us off,

1 have been arranged by United Fruit & Vegetable  
2 Association, Stacey Zawel.

3 Did I get that right, Stacey?

4 DR. ZAWEL: Pretty good, yeah.

5 MS. ISAACS: Okay. We thank you all for  
6 your participation.

7 Then we will open it up to comments from any  
8 other stakeholders.

9 Now, we have seven folks lined up from the  
10 Fruit & Vegetable Association members who are  
11 going to kick off the industry presentations.  
12 And anyone else who knows now that they're going  
13 to want to comment, can sign up over there at the  
14 desk. We have an industry sign-up sheet, and  
15 also all stakeholders' sign-up sheet just so that  
16 we'll flow a little quicker.

17 Okay? Any questions? Stacey?

18 DR. ZAWEL: Should I go to the mike?

19 MS. ISAACS: Whatever.

20 DR. ZAWEL: Martha, I had a question. Stacey  
21 Zawel with United Fresh Fruit & Vegetable  
22 Association.

23 Martha, you had stated in your introduction  
24 something about imported strawberry outbreak.

25 DR. ROBERTS: I meant imported raspberry

1 outbreak.

2 DR. ZAWEL: Okay. Thank you. I just wanted  
3 to clarify.

4 MS. ISAACS: Okay. Anybody else?

5 DR. ROBERTS: Thank you for the correction.

6 MS. ISAACS: Okay. Mr. Barnes? Come on  
7 down.

8 MR. BARNES: Good morning. My name, again,  
9 is Richard Barnes, and I am one of the team  
10 leaders for the Food Safety Initiative Team  
11 working at FDA.

12 I've been with FDA a couple of years as the  
13 Director of Federal State Relations. I came to  
14 FDA from the State of Oklahoma, where I was  
15 Director of Consumer Protection before going up  
16 and deciding to work with the Food and Drug  
17 Administration.

18 A couple things I'd like before I get into  
19 the presentation to talk about how we got to this  
20 point, the President's Initiative, and then  
21 actually talk about the good agricultural  
22 practices.

23 First of all, several people have said, you  
24 know, this is a -- why pick on the fruits and  
25 vegetables. And we really are not. This is part

1 of a total initiative, and I don't know if you've  
2 seen this report to the President May of 1997.  
3 Food safety from Farm to Table, a National Food  
4 Safety Initiative.

5 And I'm involved, complete with all of the  
6 food safety initiative involving all of this, as  
7 well as the produce and import food safety  
8 initiative part that is leading to the guide to  
9 minimize microbial problems, hazards in fruits  
10 and vegetables.

11 The process, the President's entire program  
12 is exactly that; it's from farm to table. It  
13 takes the whole system and puts it together into  
14 a package. And so it talks about what -- this  
15 part of it that we're talking about this morning  
16 and what happens on the farm and the producers,  
17 packers and so on that lead up to the retail  
18 distribution chain, through the retail chain, and  
19 all the way to the consumers.

20 Several weeks ago, the secretaries of USDA  
21 and Health and Human Services announced the  
22 campaign called Fight BAC, B-A-C, which is a  
23 consumer campaign with four things they're  
24 concerned about in educating the consumer on  
25 handling foods.

1           The 1997 FDA Food Code has been produced and  
2           is out for distribution, and part of the food  
3           safety initiatives is to encourage jurisdictions,  
4           agencies to adopt the Food Code, which contains  
5           the best science available for the retail  
6           industry. Upgrading and looking at more good  
7           manufacturing practices; the use of HACCP, Hazard  
8           Analysis and Critical Control Points throughout  
9           the processing and manufacturing industry for  
10          food products, and also in now looking at retail,  
11          and where that fits and how that all goes  
12          together.

13                 So this Food Safety Initiative is a  
14                 composite of everything from farm to table. It  
15                 puts us all together, all of us, as food safety  
16                 people protecting each other to ensure the safety  
17                 of our food supply throughout the entire thing.  
18                 So that's one part that I want to bring up.

19                 Secondly, I'm going to walk over here and  
20                 turn the overhead on, and I'll keep trying to  
21                 talk, hopefully, you can hear me, the group isn't  
22                 real large, so that you can hear me.

23                 People have asked about the schedule. This  
24                 is the tentative schedule that, as Dr. Archer  
25                 said, we are held to by the President of the

1 United States in trying to meet the guides that  
2 he wants for the Food Safety Initiative and the  
3 Produce Food Safety Initiative.

4 In November, on the 12th or 17th, there was  
5 a public meeting that was held in Washington, it  
6 was also held with the Produce Subcommittee of  
7 the National Advisory Committee for the  
8 Microbiological Criteria for Foods. I have to  
9 stop and think when I say that.

10 As a result of that, the working draft of  
11 the guide was produced and put out, which all of  
12 you have. And I would like to ask you, how many  
13 of you have seen a copy of the guide prior to  
14 today? How many of you have had a chance to  
15 really look at it? Okay. Good.

16 In my presentation a little bit later -- I'm  
17 not going to go through word for word of the  
18 guide -- we want you to be able to take time to  
19 look at it; those of you who haven't had a  
20 chance, those of you who have to digest it, to  
21 look at it, and to provide comments not only here  
22 at the meeting, but also the written comments  
23 that you're able to do through the end of  
24 December. In January, we're going to compile and  
25 evaluate all of these things that are being done.

1           Again, as we told you this morning or at the  
2           beginning, there's a transcript being provided.  
3           Those transcripts are going to be gone through by  
4           the scientists at the agency. We're also looking  
5           at bringing in our other people to assist us  
6           during this entire process of the whole food  
7           safety initiative; state people, industry people  
8           that are going to assist in this whole process.

9           Then, from that, we're going to publish a  
10          notice in the Federal Register sometime in March,  
11          where there will be another comment period. At  
12          the end of the comment period, there may be  
13          another meeting, depending on what's necessary,  
14          what comes out of all the comments. And then,  
15          sometime in July or later, the availability of  
16          the final guide will be produced.

17          Now, is this hard and fast, somebody said.  
18          And as of yesterday, my meeting very early  
19          yesterday morning, no, it is not. We are held to  
20          what the President tells us, but some of it may  
21          be shifted back a little bit, and that is based  
22          on the comments that we're getting from people  
23          from the first two grassroots meetings. So some  
24          of this time line may be moved back somewhat as  
25          we go through the process.

1           Okay. Any questions on that I'll take?  
2           That's just a very brief overview of the  
3           schedule.

4           Now I'm going to have to turn -- we're going  
5           to use some slides, so I'll turn the lights down  
6           a little bit when I get ready to do that, and if  
7           I don't get lost in my notes, we'll be all set in  
8           being able to read my notes from up here.

9           We encourage you to ask questions. One of  
10          the reasons I came to the Food and Drug  
11          Administration -- Dr. Vanderveen talked about the  
12          change in paradigms -- and one of the reasons  
13          that I applied and was very excited about going  
14          to work for Food and Drug was the fact that I was  
15          going to be a part of the change of the paradigms  
16          at the agency.

17          I'm here and I like to be here and I'm glad  
18          to present here because it involves my view and  
19          my change of paradigm, my guess for this, and  
20          that is that it involves everybody. It involves  
21          the state, it involves the growers, it involves  
22          the producers, it involves the consumers to have  
23          input into things, which is a change from the way  
24          things have been done in the past.

25          And so that's why I'm part of the team, is

1 to encourage and to make sure that I remind  
2 everybody during the whole process that we want  
3 the input from as many people as possible to make  
4 sure that this is a consensus document; that this  
5 guidance -- and I'm going to stress that word  
6 over and over again -- that this guidance has the  
7 input of everybody who wants to have something to  
8 say into it before it's finalized.

9 Okay. If you could turn the slide projector  
10 on for me please, Camille? See how we have to  
11 adjust the lights.

12 Can you see that? Good.

13 Initiative to ensure the safety of imported  
14 and domestic fruits and vegetables. In October  
15 of 1997, the President announced a directive to  
16 improve the safety of fruits and vegetables for  
17 both domestic and those imported from foreign  
18 countries. In his message, he wanted to develop  
19 guidance to the industry that would not have the  
20 force of regulation, that would not be a  
21 regulation, but would provide guidance to the  
22 industry, taking the input of everybody who was  
23 interested to help improve the safety of fresh  
24 fruits and vegetables to minimize the risk from  
25 unsafe produce.

1           Again, several people already have talked  
2           about the outbreaks that have occurred over the  
3           past years, and there have been several of those  
4           that have occurred from both domestic and from  
5           imported produce, but the goal is that we want to  
6           have the safest produce available to our  
7           consumers.

8           And we do have that, and the President said  
9           so in his message, that we do have a very safe  
10          produce supply, but that we wanted to increase  
11          it. And we want to increase it because both he,  
12          the National Cancer Institute, the Food and Drug  
13          Administration, the USDA, all support the idea  
14          that more fruits and vegetables, fresh fruits and  
15          vegetables are important to the health of our  
16          nation and our citizens and our consumers.

17          We all know that the idea of having fresh  
18          fruits and vegetables in our diet is important to  
19          our national health and that we want to keep it  
20          that way, we want to keep it safe and we want to  
21          make it safer as we go through this entire  
22          process of the farm to table food safety  
23          initiative, improving the safety of foods all the  
24          way along the line.

25          The elements of the initiative include a

1 legislative element, that one's already been  
2 done. On November 23rd, a bill was introduced  
3 into Congress to give the Food and Drug  
4 Administration the authority to work on imported  
5 foods very similar to what USDA, FSIS has for  
6 meat and poultry products. It would allow us  
7 to -- and I have some of the dates -- it was  
8 supported by -- introduced in the House of  
9 Representatives on November 13th, it's HR-3052,  
10 it's called The Safety of Imported Food Act of  
11 1997.

12 And essentially what it says is it changes  
13 21-CFR, or the -- I'm sorry, not 21-CFR, but the  
14 Food, Drug and Cosmetic Act, to add some language  
15 that would allow the Food and Drug Administration  
16 to look at foods that come into the country based  
17 upon -- and I'll say that have not been imported  
18 in the United States, that have not been  
19 prepared, packed, and held under a system of  
20 conditions or subject to measures that meet the  
21 requirement of the Act, or otherwise achieve a  
22 level of protection required as determined by the  
23 secretary.

24 Well, there are several steps that the  
25 agency must go through before that's done, and

1           there are several things that are different from  
2           what the USDA has. There would be no  
3           pre-approval, for example, what FSIS has is going  
4           into foreign meat plants. We have to show as an  
5           agency how we would enforce such a rule, how we  
6           would implement it. We'd have to show that no  
7           one would be denied entries of products into the  
8           country or that there would be licensing or pre-  
9           approval, for example, like low-acid canned  
10          foods. So all of that has to take place as a  
11          result of this legislative proposal before any of  
12          it happens.

13                 The administration portion of it is the  
14                 guidance to industry, which we're going to talk  
15                 about shortly, the good agricultural practices,  
16                 and eventually good manufacturing practices, as  
17                 well, to deal with that segment of the industry  
18                 from the farm up through other places where it is  
19                 controlled already under the CFRs.

20                 And I hope that all of you understand when  
I  
21                 say CFRs, what I'm referring to it's the Code of  
22                 federal regulations; it's the documents that  
23                 guide the Federal Agencies and have the rules and  
24                 regulations written into them. 21 Series is the  
25                 Food and Drug Administration, for example, the 40

1 series is the Environmental Protection Agency,  
2 and so on.

3 You're going to hear me talk a lot this  
4 morning about good manufacturing practices that  
5 are already in place for producers and  
6 manufacturers. The good manufacturing practice  
7 is Section 110 of the 21 CFR series.

8 And then there's also a budget request, and  
9 that would be for '99, for FY99. There is no  
10 money budgeted for this initiative in FY98. So  
11 some of the things that would be done under it in  
12 both domestically and imported for it would be in  
13 FY99.

14 And the biggest requirement why we're here  
15 today is that we had a requirement to report to  
16 the President within 90 days of the October thing  
17 on where we were and how we were going, how this  
18 process was coming together, how the project was  
19 working, good agricultural practices, good  
20 manufacturing practices, what the schedule would  
21 be for all of those things to get it done.

22 And as Dr. Archer said, the man that we work  
23 for made the request that we do that in 90 days,  
24 and we're trying to adhere to it as much as we  
25 can.

1           Under the administrative section, the FDA,  
2           in conglomeration with the USDA, is to issue,  
3           within one year, the guidance for good  
4           agricultural practices and guidance for good  
5           manufacturing practices.

6           As a part of that, beside those guidance  
7           documents, also, then, we're going to work  
8           together to coordinate assistance and educational  
9           activities to both domestic and the foreign  
10          industry, the farming and producing industries,  
11          and both of them will be done as a part of that.  
12          Already, there has been cooperation between --  
13          Cooperative Extension Service talks about doing  
14          some of this, as well as hooking on to what's  
15          being done, as I talked about earlier, on the  
16          other Food Safety Initiative as well.

17          There it is again; guidance, not regulation.  
18          Several people -- and we have said that you're  
19          going to hear that too much, and perhaps I need  
20          to just reinforce it again. That is the goal of  
21          this document. We want it to be a guidance  
22          document, an assessment, a self-assessment, to  
23          use another word, for the growing community to  
24          look at their practices, to help improve their  
25          practices, to help increase the food safety or

1 the safety of food, fruits, and vegetables in the  
2 in the food safety chain.

3 It's to help the farms, the growers, and the  
4 producers identify the appropriate practices  
5 where you can minimize microbial hazards. And  
6 the cartoon underneath that is Fight BAC; that's  
7 the one I talked about that's being geared  
8 towards consumers in the country. There was a --  
9 the secretary's released last month, you're going  
10 to see more of him in many things.

11 And there's four areas, again, in that to go  
12 along like the four areas of the good  
13 agricultural practices; clean hands, avoid cross-  
14 contamination, proper temperatures, and cooking.

15 Good Agricultural Practices, the Guide to  
16 Minimizing Microbial Food Safety Risks for Fruits  
17 and Vegetables is the document that we're going  
18 to look at a little bit later. That's what they  
19 want -- or the President wanted us to produce, to  
20 do. It is a broad scope document. It is going  
21 to be very broad.

22 Many of the things you've already heard this  
23 morning, Dr. Roberts talking about the water in  
24 Florida, for example, there will be sections of  
25 the guidance document that are not going to

1           apply.

2           In other discussions we've had, for example,  
3           the amount of manure that's used in vegetables  
4           and fruit production in the State of Florida, for  
5           example, is very minimal, except for chicken  
6           litter, perhaps, in some areas. So it's going to  
7           be different areas of the country that are going  
8           to have different parts of that document be  
9           important to them, depending upon local laws and  
10          regulations, depending upon current practices.

11          And that's why we're here. Again, we're  
12          here to let you tell us what things will work for  
13          you, what won't, and if things are left out of  
14          the document that we have not considered, that  
15          those things get -- become a part of it as well.

16          We've already talked about the public  
17          meeting that happened in November and these  
18          meetings. The international meeting will occur  
19          next Monday in Washington, D. C., and there also  
20          is a second explanation of the good agricultural  
21          practices meeting that's going to occur, I  
22          believe, in Miami sometime next week.

23          Now this -- I left this slide in because it  
24          was used at the other grassroots meetings.  
25          However, I can tell you that the specific GAPS,

1 good agricultural practices, good manufacturing  
2 practices for four fruits and vegetables is being  
3 reconsidered. And as a result of the comments of  
4 the grassroots meeting, although we never had any  
5 criteria had been decided of what would be used  
6 for these fresh fruits or vegetables, none had  
7 been selected; it was intended that it will all  
8 come through a public notice, a Federal Register  
9 notice and public meetings.

10 At this point in time, as a result of the  
11 first two grassroots meetings and input from the  
12 industry, this is being reconsidered on whether  
13 or not there will be some specific -- this year  
14 or anytime in the near future -- whether there  
15 will be specific good agricultural practices or  
16 good manufacturing practices for four fresh  
17 fruits and vegetables during FY98.

18 So I've left this slide up because it was  
19 part of the other grassroots meetings, but also  
20 tell that you this whole process for the specific  
21 GAPS and GMPs is being reconsidered.

22 Outreach and educational activities are a  
23 big part of this process. Assistance to the U.S.  
24 farmer by the FDA and USDA on implementing the  
25 good agricultural practices, the new FDA

1           Extension Service, educational programs,  
2           assistance with people that you are used to  
3           working with and being part of your farming  
4           community to assist you in doing an assessment of  
5           your growing practices.

6           There's also going to be, in FY98, technical  
7           assistance to foreign countries. To initiate the  
8           development of training modules and to coordinate  
9           the development of non-FDA training network,  
10          which might involve industry groups, which might  
11          involve associations, which might involve private  
12          entities, to provide technical assistance to  
13          foreign countries using the same document to help  
14          them to be sure that their -- the level of safety  
15          of their produce is the same as ours.

16          That's a very quick overview of how we got  
17          to here, of how the President put forth this  
18          portion of the Food Safety Initiative.

19          Are there any questions I can answer about  
20          this part of it anyway? Anything I've left out?

21                 Yes?

22                 MR. BROWL: Which of the four fruit and  
23                 vegetables --

24                 MR. BARNES: Could you go to the microphone,  
25                 please? And also, state your name for us.

1           MR. BROWL: My name is Joseph Brawl  
2           (phonetic) I'm executive vice president of the  
3           Florida Gift Fruit Shipper's Association.

4           Which of the four fruit or vegetable groups  
5           you have considered or are still considering,  
6           GAPS and GMPs in 1998?

7           MR. BARNES: None have been considered that  
8           I'm aware of. The original proposal was that  
9           there would be eight sometime selected, that  
10          there would be specific good agricultural  
11          practices or good manufacturing practices  
12          selected for. None have been selected or even  
13          looked at.

14          What was proposed was that through the  
15          industry, through other means, eventually some  
16          would be looked at. But as I said, that are now  
17          being reconsidered and there are no -- at this  
18          point in time anyway, there's a possibility that  
19          that will not be done in the near future.

20          But that will happen with consultation with  
21          everybody. Again, this is an open process.

22          Yes? Please go to the microphone, state  
23          your name, please? I'm sorry, there's somebody  
24          in the back, Stacey.

25          MR. ROBBINS: John Robbins, consulting

1 engineer in food sciences.

2 Is that a function of the criteria that's  
3 involved, or is that a function of public comment  
4 that there's nothing been added to that list?

5 MR. BARNES: The criteria were never  
6 developed. There was never a criteria that we  
7 had developed to that point in time.

8 What we had announced was that we would look  
9 at some specific good agricultural practices for  
10 some specific commodities. The criteria were  
11 never developed to that point in time.

12 But as a result of the comments from the  
13 first two grassroots meetings and from the  
14 industry as a result of some other presentations,  
15 that is being reconsidered on whether or not  
16 there will be specific GAPS or GMPs for products.

17 MR. ROBBINS: Thank you.

18 MR. BARNES: Stacey?

19 DR. ZAWEL: Stacey Zawel with United Fresh  
20 Fruit & Vegetable Association.

21 Richard, I missed something that you said  
22 and wanted to get clarification on a Miami  
23 meeting? What is that and what's it about?

24 MR. BARNES: Camille, help.

25 John, do you have that?

1           MR. VANDERVEEN: There will be -- I believe  
2 there was another Miami meeting planned under a  
3 different auspices and we are going to make a  
4 presentation there.

5           I believe our director of the constituent  
6 services is going to make that presentation.  
7 There are a group of people from various  
8 countries coming to be at that meeting anyway,  
9 and it was an opportunity to inform them about  
10 our program and our -- and our legislative  
11 initiative, and that's an opportunity.

12           Do you have anything more to say on that,  
13 Terry?

14           MR. BARNES: The meeting and, again, to  
15 follow what John said, is a presentation; it's  
16 not a grassroots meetings. It's a presentation.

17           MR. VANDERVEEN: That's right. It's just a  
18 presentation.

19           MR. BARNES: Right. I'm sorry if I left you  
20 with the impression that it's a grassroots  
21 meeting. It is not.

22           MS. BREWER: It's a committee of Latin  
23 American Action --

24           MR. BARNES: That's right. Latin American  
25 Action Council.

1           MR. VANDERVEEN: This meeting was planned a  
2 long time ago. It was put together by the  
3 Foreign Aid Service. We were invited to  
4 participate. It was designed to help with  
5 providing information to countries about our  
6 requirements in meeting the regulations that we  
7 have for foods being sold in this country.

8           There were some other meetings planned in  
9 other countries. I believe they're still going  
10 to occur. The original focus had more to do with  
11 pesticides and things of that sort.

12           MR. BARNES: Yes, ma'am?

13           DR. MALECKI: Hi, my name is Dr. Jean  
14 Malecki, I'm a health officer here in Palm Beach  
15 County.

16           And my question has to do with the document  
17 itself, and I understand that it's one deeply  
18 routed in values.

19           My concern, and probably this will be  
20 discussed later -- if it wasn't going to be, I  
21 hope it will be -- with all the guidance and  
22 technical assistance that can be provided, my  
23 concern is more of importation, what happens from  
24 a regulatory standpoint if there is still  
25 evidence of contamination?

1 MR. BARNES: Terry?

2 MR. TROXELL: Your question is, if we find  
3 contamination on a product that's offered for  
4 entry?

5 DR. MALECKI: If we still have continuing  
6 human illness related --

7 MR. TROXELL: We would be able to take  
8 action against those products under the Food,  
9 Drug and Cosmetic Act.

10 DR. MALECKI: Well, in the past, we have  
11 not. So I was wondering if there's going to be  
a dialogue in the future in terms of relationships  
12 contractually and so forth.  
13

14 Right now, it's obvious to me that it's been  
15 a consumer choice more than anything else. And,  
16 again, my concern is, is that if we provide all  
17 this guidance and technical assistance, again, my  
18 concern is importation; what does ultimately  
19 occur from epidemiological evidence, from public  
20 health relationships with the folks as FDA would  
21 have a health commission to either embargo or  
22 stop sale.

23 MR. TROXELL: At this point, we would need,  
24 under the FD&C Act, to make the link of a  
25 poisonous or deleterious substance such as a

1           microbiological problem in the product, or that  
2           the products were produced under unsanitary  
3           conditions to prevent their importation.

4           DR. MALECKI: Thank you.

5           MR. BARNES: At one of the other grassroots  
6           meetings -- and to show you that things are being  
7           done all over the country and many of them have  
8           been looked at in the process -- there is one  
9           that -- one of the Cooperative Extension Services  
10          had a brochure, Prevention of Food-Borne Illness  
11          Begins on the Farm. And Dr. Archer, wherever you  
12          went to -- one of the things -- I like words  
13          anyway, and one of the first sections in here is  
14          clean soil.

15          Any other questions on the first part of  
16          this? We are waiting for coffee to be set up.

17          Would you like to take a short break now,  
18          even though the coffee isn't ready, or would you  
19          like me to go on and we'll take a break when that  
20          gets done? We'll be flexible.

21          Go on? All right. We'll do that.

22          MS. ISAACS: Hold on, Richard.

23          MR. BARNES: We'll go about, maybe 15  
24          minutes, 20 minutes?

25          MS. ISAACS: Okay. If you come back 15

1           minutes --

2           MR. BARNES: No, I thought they said go on.

3           MS. ISAACS: Oh, okay. All right.

4           MR. BARNES: So about 15 or 20 minutes and  
5 then we'll take a break.

6           MS. ISAACS: Never mind.

7           MR. BARNES: Again, the scientists who work  
8 on this document are in the room. When you ask  
9 questions, if you ask me, for example, the time  
10 and temperature requirements for composting  
11 untreated manure in a 30 degrees centigrade  
12 environment that's very damp, you'll see this  
13 glazed look come across my face, and I'll start  
14 pointing to someone.

15           And, also, I'm not going to go into  
16 specifics of this whole document. We want you to  
17 take some time to look at it, to develop opinions  
18 on what it is. I'm going to highlight only  
19 during this presentation what is in the guide to  
20 minimize microbial food safety hazards for fresh  
21 fruits and vegetables.

22           And so I'm going to talk about the document  
23 in general. At the end, we'll do a short  
24 question and answer period, then we will either  
25 go to lunch, depending upon how we do on time.

1           Probably we'll go to lunch a little bit early and  
2           then come back and then do the other  
3           presentations.

4           The reason for the document in the beginning  
5           of it talks about the reasons for this guide; the  
6           recent outbreaks have raised concerns about the  
7           safety of foods, including fresh fruits and  
8           vegetables that are not processed to eliminate  
9           pathogens.

10          And that's part of the problem. The problem  
11          is that we do not have a way to eliminate  
12          pathogens from some fresh fruits and vegetables.  
13          You know the names of the microorganisms,  
14          cyclospora, E. coli 0157:H7, Salmonella,  
15          cryptosporidium. There are many organisms that  
16          have been involved in outbreaks in recent years  
17          involving fresh fruits and vegetables that are  
18          difficult to remove. I mean, we don't have fried  
19          lettuce sandwiches; we don't cook lettuce to 155  
20          degrees for 15 seconds like we do a hamburger.

21          And so we have to be involved in the entire  
22          process from farm to table in ensuring that we do  
23          not -- we reduce or eliminate pathogens wherever  
24          possible in that process.

25          They're not subject to many of the steps

1 that normally occur in food processing that would  
2 eliminate or reduce microbial load that most  
3 processed foods receive, or they aren't cooked.  
4 Therefore, we have to find other ways to reduce  
5 the microbial contamination, especially for raw  
6 produce products.

7 And, again, at the same time, we have to do  
8 that and what we're telling people eat more of  
9 them; it's important to your health.

10 Potential vehicles for pathogenic  
11 contamination, and which this document is divided  
12 in, are into four areas; water, manure/municipal  
13 sewage slush, water field facility sanitation  
14 hygiene, and under transportation there is one  
15 other area which is called the trace-back; where  
16 we're now calling it positive lot identification  
17 instead of trace- backs.

18 Again, as you've heard everybody say, it is  
19 intended as guidance only; it's intended as  
20 self-assessment. It's not a check list; it will  
21 not contain everything that you need to know. We  
22 will not have every bit of information that's  
23 there. But it's to get you to think, to look at,  
24 and evaluate your growing practices, your on-site  
25 processing facilities, to look at what could be

1 done to minimize the food safety risks.

2 It encourages you to take a proactive role  
3 in the food safety chain. It will be the first  
4 step in the food safety chain. It has the best  
5 advice of FDA and USDA in consultation with all  
6 of you. The reason for the grassroots meetings  
7 with scientists, Cooperative Extension, the  
8 universities -- and other universities, with  
9 anybody who is willing to provide input into that  
10 process.

11 The document focuses on common elements in  
12 growing, production, and distribution, and where  
13 they will reduce the risk of microbial  
14 contamination.

15 However, it does not contain all of the  
16 scientific knowledge that we have or that we are  
17 aware of, or that we know about to get everything  
18 to answer all the questions. There are many gaps  
19 in the science, treating manure, for example.  
20 There has been a lot of research and work done  
21 with municipal sewage sludges, but not as much  
22 done with manure.

23 And so there's a lot of gaps in the science.

24 And part of this initiative is to improve the  
25 science, to develop research, to help provide you

1 with better information for your farming  
2 practices.

3 Where there's uncertainty, the guidance will  
4 be qualified using terms like "minimize" or  
5 "avoid" or "where feasible". And those are words  
6 that are used in guidance. Again, somebody said  
7 the difference between guidance and regulations;  
8 regulations usually don't use those words, they  
9 usually use "shall" or "may" or "do".

10 In this case we're saying, you want to look  
11 at, minimize, or avoid where feasible. And  
12 that's important because there are some times  
13 that you cannot do that, you cannot avoid certain  
14 things. You cannot avoid the birds flying over.

15 I don't know how to do that. If you invent  
16 something, please let me know, I'll invest in it.

17 It is intended to provide practical advice  
18 appropriately qualified. And appropriately  
19 qualified means as a result of this process, of  
20 going through the whole process of ensuring that  
21 everybody has input.

22 In some areas, the guidance may properly be  
23 more specific such as when practices are related  
24 to federal, state, or local laws. As Martha  
25 Roberts talked about earlier, in Florida the

1 water usage is fairly tightly controlled.  
2 Alternate water sources may not be available to  
3 you, so you're stuck or restricted in what you  
4 can do based upon federal, state, or local laws.

5 In many cases, a packing house may come  
6 under the Code of Federal Regulations and the  
7 good manufacturing practices, Section 110,  
8 because they are considered a food processing  
9 establishment, where some are not. And that has  
10 a lot to do with where they're located, the type  
11 of process they're in, and so on and so forth.  
12 And it depends, in the Code of Federal  
13 Regulations on how they fit into that process.

14 Many times packing houses in the field, open  
15 sheds where packing is done, it's gone directly  
16 from there to the retail segment and through the  
17 distribution chain and through the retail  
18 segment, are not covered under that good  
19 manufacturing practices.

20 Common vectors for pathogens of all fresh  
21 produce, such as water and manure. There are  
22 certain things that are common to growing no  
23 matter what. And there are vectors that we know  
24 are there. Water -- and I'm going to talk about  
25 it in a few minutes -- is a very, common vector

1 for many, many pathogenic organisms.

2 On the other hand, there's also a big  
3 difference in the size of the farms, the  
4 regionality of farming practices, types of farms,  
5 climate, soil differences, fertilizer sources,  
6 employee availability, et cetera, et cetera, et  
7 cetera.

8 The document will try and take into account  
9 in being general and broad-scoped to account for  
10 all of those things. But, again, there are some  
11 sections that you may find in this area that do  
12 not apply, where in other areas they do.

13 One of the things that I was thinking about  
14 this morning, in the section that talks about  
15 making sure that you restrict livestock from the  
16 fields. And at this time of year in Oklahoma and  
17 Texas and that part of the country, they are  
18 grazing their cattle on the wheat fields, eating  
19 the green tops off of them. And that's a common  
20 practice. That's a common practice in that part  
21 of the country, although it's not a fresh fruit  
22 and produce, that's a common practice of letting  
23 the cattle into the fields for the winter wheat.

24 Then there are cultural practices that vary  
25 widely between different types of produce and

1 different varieties of specific types of produce.  
2 A strawberry is not a strawberry is not a  
3 strawberry, or a rose is a rose is a rose. How  
4 you grow a strawberry here in Florida may be  
5 different from the way it's grown in another part  
6 of the country.

7 Martha Roberts said this morning that, for  
8 example, many of you have already gone to drip  
9 irrigation. Well, that's not true in other parts  
10 of the country where they're unable to do that  
11 for many different reasons. And so there's  
12 different ways of doing things, even within the  
13 same product, based upon different sections of  
14 the country.

15 We want to be able to tailor it as much as  
16 possible, but allow enough flexibility in the  
17 document to ensure that the differences that  
18 occur across this country can be taken into  
19 account.

20 And the last question there -- I stepped  
21 ahead too much -- is the question of why we're  
22 here. How can we best provide practical concrete  
23 advice to growers that will move us toward safer  
24 produce without being unnecessarily costly to the  
25 growers and the industry?

1           Now, that's what the guidance document is  
2 intended to be. And how can we do that? How can  
3 we best provide that guidance that will assist  
4 you in ensuring the quality of the products.  
5 Okay?

6           Water. Now, before we get to the actual  
7 section, there's a couple other sections in the  
8 document you need to be aware of.

9           Definitions. It talks about several  
10 definitions. There may be some need to add some  
11 more in there, or you can be a judge of that kind  
12 of thing that might need to be defined a little  
13 bit better for certain people or certain entities  
14 in that document.

15           The first section is on water. And I  
16 think -- how are we doing on the coffee? Can  
17 you --

18           MS. BREWER: Ten more minutes.

19           MR. BARNES: Ten more minutes. Okay. Keep  
20 talking.

21           Source and quality of water are extremely  
22 important. One, because water is an inherent  
23 source of contamination itself. Because it picks  
24 up -- when I went to college, I learned that  
25 water is called the universal solvent; you give

1 it enough time, it will dissolve anything, and it  
2 will carry it with it as it goes through the  
3 process.

4 And so it can pick up and become a source of  
5 contamination itself. And you can't say because  
6 it comes out of the water tap that it's safe  
7 water.

8 If you remember the cryptosporidium outbreak  
9 in Michigan, that's it. You've always thought,  
10 well, if you turn the tap on, the water comes  
11 out, it must be safe. Well, it isn't always that  
12 way. We have to be constantly vigilant about the  
13 water supplies that we're using to ensure that  
14 they maintain and they stay safe. It's a very  
15 good vehicle for spreading pathogens in the  
16 field, during harvest, or in the packing house.

17 And the water you start out with may not be  
18 contaminated, but it can become contaminated  
19 through the process; either in the process of  
20 washing, moving fruits or vegetables through a  
21 flume, using water as a transportation vehicle,  
22 cleaning the food, so on and so forth.

23 These are some of the organisms that can be  
24 carried through water and have been associated  
25 with outbreaks that are associated with different

1 types of fruits and vegetables and water  
2 products, as well.

3 Because of water's potential as a source of  
4 pathogenic microorganisms, growers should  
5 carefully analyze their practices involving  
6 water.

7 Use a lot of ground water. I just put a new  
8 well pump in my well, and I wound up having to  
9 chlorinate the daylights out of it to clean the  
10 well back up again, to get the E. Coli out of my  
11 well as a result of putting a new pump and  
12 fooling around with it, touching it, and doing  
13 everything else. That water was safe before, and  
14 now it's safe again. But in between times, I had  
15 to test it and to treat it, to make sure that it  
16 stayed safe.

17 So you have to be able to look at your  
18 practices and what you've done, what's going on,  
19 what's happening around you involving the water  
20 products and the water that you're using. You  
21 want to try to seek to limit the possibility for  
22 water-borne contamination. And that gets more  
23 and more difficult as it goes through the  
24 process.

25 Recognize the potential for water source to

1           contain pathogens. If you're using a surface  
2           water source, is there runoff from someplace  
3           else, are you downstream from a sewage plant, has  
4           there been a lot of rain that has allowed runoff  
5           from a livestock operation upstream from you. Is  
6           there a dairy operation upstream from you where  
7           there is a creek or a tributary that runs through  
8           the field where the cows are pastured.

9           So you've got to look at what happens to the  
10          water, and then also that it has sufficient  
11          quality for its intended use. Using a surface  
12          water to do the initial dirt wash off a product  
13          that is going to then be further washed down the  
14          road in the packing shed with a cleaner water  
15          supply, that's the kind of process that you want  
16          to look at. So what is its intended use. You  
17          need to tailor it to the needs of the operation.

18          Now, in the document, for example, it talks  
19          about -- I can't say it -- counter-current flow.

20          In other words, you want to start where the  
21          product is supposed to be the cleanest with your  
22          cleanest water, and if you're going to reuse that  
23          water, like Dr. Roberts talked about this  
24          morning, is that the water goes back towards the  
25          beginning process so that you don't -- that you

1 use your cleanest water at the point where you  
2 want the product to be the cleanest, and if  
3 you're reusing that water, that it then goes --  
4 it's reused back at a different portion, not at  
5 the final rinse stage, for example, is one of the  
6 ways you can do it.

7 And, again, the guidance does not preempt  
8 any applicable federal, state, or local  
9 regulations or laws or practices. You've got to  
10 combine all of that together. Dr. Roberts said  
11 this morning, there are plenty of regulations,  
12 and that's true, there are. And sometimes the  
13 regulations do what we want them to do, and  
14 sometimes they don't.

15 One of the things I do other than this kind  
16 of stuff, is I do a lot with teams and with  
17 change. And one of the -- I believe Steven Cubby  
18 (phonetic) said, you give a man a fish, you feed  
19 him for a day; you teach a man to fish, you feed  
20 him for a lifetimes.

21 Sometimes in the regulation business, we're  
22 doing the former, and what we really need to do  
23 is the latter. And sometimes this type of  
24 document, guidance, that has the input of  
25 everybody, does the latter.

1           Growers should consider -- don't fail me  
2           now. So, again, do an assessment; identify and  
3           review the source of water used on your farm. If  
4           it's in Florida, then you're controlled by the  
5           Department of Environmental Quality using ground  
6           water, you still need to look at what has  
7           happened to that ground water, what have you done  
8           to it.

9           As the degree of water to produce contact  
10          increases, so does the need for good quality  
11          water. Again, the higher up the chain that you  
12          get closer and closer to the consumer, the higher  
13          the quality of water needs to be. And the review  
14          can include determining whether the source of  
15          water is from a well, open canal, so on and so  
16          forth. In that process, you're going to look at  
17          the water and what's happening to it as it gets  
18          closer to that end product.

19          Now, this one; controls may include delaying  
20          water use till the water quality improves.  
21          That's not very practical. We realize that. But  
22          what we want you to do is to be aware of that, be  
23          aware of what's happening to your water so that  
24          you can change, if necessary, do something  
25          different.

1           Now, that may not be practical, as  
2           Dr. Roberts said this morning. You're pretty  
3           well controlled in the State of Florida in how  
4           your water usage is done, but you need to look at  
5           that process. If something does go wrong, what  
6           are your alternatives, what kind of things can  
7           you change in your particular operation.

8           Irrigation water. Again, many factors  
9           influence the choice of an irrigation system.  
10          Water availability and state, for example, is  
11          what I just talked about earlier.

12          Cultural requirements for different types of  
13          crops. An orchid needs a different water supply  
14          than a strawberry or raspberries do. So in the  
15          way that it's supplied to. Depending upon the  
16          crop, you need to look at considering the water  
17          delivery system that minimizes the direct water  
18          to produce contact for certain produce, or that  
19          that contact is far enough away from the  
20          harvesting of the product that the likelihood of  
21          pathogenic contamination is decreased.

22          Water used for crop protection sprays also  
23          needs to be considered. Although you may say,  
24          well, it doesn't make any difference, I'm just  
25          mixing a pesticide with this, it's been found

1 that many pesticides mixed with the water do not  
2 necessarily kill microorganisms that are in that  
3 water; they're not designed to do that, so they  
4 may survive. So the contamination could be still  
5 there. And so the water that's used to mix crop  
6 protection sprays also needs to be considered in  
7 the process.

8 Let me catch up to my notes.

9 Mixing crop protection sprays. Growers need  
10 to be sure that the water is of adequate quality  
11 for this purpose.

12 Good agricultural practices to protect the  
13 integrity of the water source. For example, if  
14 you're using your ground water to mix a herbicide  
15 or a pesticide, you want to be sure that, not  
16 only is that good quality for the stuff -- the  
17 pesticide or herbicide spray that you're going to  
18 use to spray on the crops, but you also want to  
19 be sure that your pesticide doesn't contaminate  
20 your water source. There are many, many  
21 instances around the world where someone has been  
22 mixing pesticides or herbicides and accidentally  
23 wound up putting it back into their water source  
24 into the well or even into the municipal water  
25 supply.

1           Once you get to the point where you're  
2           using -- you're starting to wash produce, you  
3           really need to take a better look at the water  
4           supply to make sure it's safe and sanitary, and  
5           that it is in a packing environment that you're  
6           using, as you go through the process, you're  
7           using cleaner water.

8           Even with sanitizers, the water might  
9           eliminate the pathogens on the surface of the  
10          produce, but it may not. And in some cases, the  
11          pathogens are internalized, the wash water is not  
12          going to do it.

13          When I flew in yesterday, after we came  
14          under the clouds, I looked down, I could see a  
15          lot of swimming pools. And I know a lot of you  
16          know about swimming pools; this is very similar  
17          to it; a good analogy. You put two kids in the  
18          swimming pool and the chlorine level stays pretty  
19          high; you put 40 kids in the swimming pool, what  
20          happens to your chlorine level. It disappears.

21          The same thing is occurring when you're  
22          washing fruits and vegetables; as you continue,  
23          and you've lowered microbial load and it  
24          increases in the water, even with chlorine in it,  
25          it uses it up, and if you're not careful, if

1           you're not monitoring it, if you're not replacing  
2           it, like an automatic system in a swimming pool  
3           will do, the ability to kill pathogens or to  
4           reduce them in the water goes away and becomes  
5           virtually nothing.

6           There's one of the things in there that  
7           already was commented on, on tomatoes, one of the  
8           guidances in there was talking about washing  
9           tomatoes with water that's ten degrees warmer  
10          than the tomato to stop internalization of the  
11          thing. So the growers -- many of you said, but  
12          you don't understand, we're trying to cool the  
13          produce and get the field heat out of it at the  
14          same time.

15          And this is one of those things where we  
16          come to you and say, here's a scientist saying,  
17          this is a good way to keep the pathogens out of  
18          the thing using scientific principle, and here's  
19          a grower saying, but I've got to do something  
20          else. Somewhere we've got to find a way that  
21          those two come together, and that's part of,  
22          again, why we're here.

23          If pathogens are not removed or inactivated,  
24          they can spread so a significant portion of the  
25          produce becomes contaminated. And that's, you

1 know, the old adage, the one bad apple, the  
2 barrel of apples; same thing.

3 If you had one load coming out of the field  
4 that was very highly contaminated for some  
5 reason, and you start mixing it together in a  
6 wash tank and washing it together, now all of  
7 them could become contaminated if you're not  
8 careful of what's happened with that water.

9 Chlorine, as Dr. Archer said, is one of the  
10 most commonly used ones. There are some others  
11 being used that are used in other environments,  
12 like processing or food service environment, but  
13 they have not been used for this type of  
14 operation.

15 And again, once you get into using these  
16 kind of things, you want to be sure that you  
17 understand their usage, how they should be used,  
18 and how to monitor their use during the time that  
19 you're using it as a disinfectant.

20 Cooling operations. Water and ice used in  
21 cooling should be considered a potential source  
22 of contamination. Several food-borne illness  
23 outbreaks have occurred as a result of ice; ice  
24 made from an improper source or ice becoming  
25 contaminated. It is just like a water.

1           One of the things that I deal a lot in the  
2 retail environment, earlier this week, I said I  
3 was working on the retail portion of the Food  
4 Safety Initiative; we talked about many of the  
5 same kind of things that we'll talk about later  
6 in hygiene. You know, when people who take your  
7 glass in a retail environment and stick it  
8 through the ice, what have they done? Have they  
9 contaminated the ice? Very possibly yes.

10           Okay. So you've got to look at that because  
11 of outbreaks of the organisms shown here.

12           Growers need to be made aware of the water  
13 source used to make ice needs to -- used for  
14 cooling operations has to be in good sanitary  
15 condition. But, again, it's becoming in contact  
16 with the produce and, therefore, should not carry  
17 pathogens to the produce, but you should do it.  
18 Okay?

19           MS. BREWER: Richard? We're ready. We can  
20 take a break now.

21           MR. BARNES: Okay. That's a good break.  
22 We'll just break right here for 15 minutes.  
23 We'll be back at 11:00 o'clock.

24           (Thereupon, a short recess was taken.)

25           MR. BARNES: We'll try and get through this

1 section of it here in about 20 minutes, do a  
2 short question and answer, and then break for  
3 lunch a little bit early, take an hour for lunch  
4 and get back and then finish up this afternoon.

5 I'm going to try and speak a little bit  
6 slower so that I don't wear out our  
7 transcriptionist before lunch.

8 And a couple things from earlier that people  
9 brought up. One is that, when I was talking  
10 about water and wash water and talking about the  
11 supply of the water, municipal supplies, potable  
12 water supply, I did not mean to imply that, as a  
13 grower, if you're using municipal water, you  
14 should go test it; that should be done for you by  
15 the entity, the municipality, the authority  
16 providing the water to you, and they should have  
17 the records.

18 So I didn't mean for -- when I was talking  
19 about potable water, that you should be testing  
20 water all over the place. Just be aware of your  
21 source of water and where it comes from.

22 We talked about water and ice and cooling  
23 and, finally -- and this is the very end of it --  
24 is that, again, it's just that we want you to be  
25 aware of the fact that water is a vehicle for

1 spreading localized contamination; that water can  
2 carry pathogenic organisms with it, and that it  
3 can be spread from one group of products to  
4 another, or spread through a group of products;  
5 that when you're using water in washing  
6 operations, that you're aware of the potential  
7 contamination of that water as it's being used,  
8 and that you monitor its use throughout the  
9 process.

10 Manure and sewage sludges. As I said  
11 earlier this morning, health officials and  
12 scientists agree that animal manure and human  
13 fecal matter are a significant source of human  
14 pathogens, and that untreated use of these -- use  
15 of untreated products such as these on a product  
16 that is not going to be further -- where the  
17 pathogens are not going to be further reduced is  
18 a significant risk.

19 The use of manure or municipal sewage sludge  
20 in the production of produce must be closely  
21 managed to limit potential for pathogen  
22 contamination of produce.

23 Now, we know that -- and I'll talk about it  
24 in a minute -- that there are not a lot of use of  
25 municipal sewage sludge so much in the farming

1 community, but that it has been used. And where  
2 I come from and was working in Oklahoma, every  
3 spring, one of the places we went to get the best  
4 tomato plants was at the city municipal sewage  
5 sludge plant, because they were grown in the  
6 drying beds and they had beautiful tomato plants  
7 that got about that high that you could take home  
8 and plant and grow nice tomatoes.

9 So it is being used, and there is more  
10 research has been done on municipal sewage sludge  
11 than on a lot of manure products. So there is  
12 some evidence of its use. They know that this is  
13 a good soil conditioner and that properly treated  
14 sewage sludge that has pathogens reduced and does  
15 not have heavy metals in it -- which is one of  
16 the other things that they definitely look at --  
17 municipal sewage sludges is a good soil  
18 conditioner and fertilizer.

19 You've got to be alert to the presence of  
20 human or animal fecal matter that may be  
21 introduced into the produce growing and handling  
22 environment. The use of manures, whether it's  
23 chicken or other type of animal manure, is used  
24 in the environments. And, again, it talks about  
25 in the document, site packing, for example, and

1 so on. You've got to be aware of that process.

2 Properly treated manure or municipal sewage  
3 sludge is a safe and effective fertilizer. But  
4 untreated or improperly treated manure could  
5 contain pathogens that eventually would get into  
6 the produce and contaminate the produce.

7 And, for example, with some produce, leafy  
8 produces like lettuces or whatever, if it was  
9 contaminated, it may be very difficult, then, to  
10 wash that product or to eliminate the pathogenic  
11 organism from it before it goes on through the  
12 food safety chain.

13 Although municipal sewage sludge is not  
14 widely used on fields growing fresh produce,  
15 there is a lot of information about its use and  
16 where it has been used, and it does, again, serve  
17 as a source -- untreated sludge serves as a  
18 source of contamination for produce.

19 Again, the sources of fecal contamination,  
20 untreated or improperly treated manure, nearby  
21 composting or treatment operations, nearby  
22 livestock or poultry operations, municipal  
23 wastewater storage or disposal areas, you know,  
24 if you have a produce field very close to a  
25 municipal sewage plant and something happens

1           because of a rain or whatever and they have to  
2           bypass, even though that's their -- with all the  
3           requirements they have, if that happens, if they  
4           bypass and it gets into your field, you need to  
5           be aware, if that happened, the possibility of  
6           contamination of produce.

7                     And then, finally, the last one, high  
8           concentrations of wildlife in growing areas. We  
9           were talking during the break about some of the  
10          things Dr. Archer talked about, covering ponds.  
11          And, again, those -- that's not a thing, but  
12          covering tanks might be a better analogy.

13                    We would not ask -- and I was telling them  
14          in Maryland, the deer we have, I don't care how  
15          you build a fence, if the deer want in, they're  
16          going to eventually get there to your garden. So  
17          that's not -- again, it's looking at what's  
18          around you; what types of contamination can  
19          occur.

20                    And Dr. Roberts was talking about, saying,  
21          you know, putting in a produce growing area  
22          downhill from a cattle operation is not -- would  
23          not be considered really good practice and  
24          should -- and would be the kind of thing we're  
25          looking at.

1           Growers need to develop and follow good  
2           agricultural practices for handling manure to  
3           reduce the potential of introducing microbial  
4           hazards of produce. And this talks about  
5           different practices; processes such as composting  
6           to reduce the levels of pathogens, minimizing  
7           direct or indirect manure-to-product contact, and  
8           assessing adjacent or nearby land to determine  
9           the risk that it may pose as a result of water  
10          runoff, wind blowing, and so on and so forth.

11          Some of the treatments to reduce pathogens  
12          in manure; passive, nature and time. There is a  
13          competition that occurs with the soil  
14          microorganisms that have a tendency to overwhelm  
15          the pathogenic organisms when it's tilled in and  
16          it is allowed to sit for a period of time.  
17          Active types of things, like pasteurization,  
18          anaerobic digestion, aerobic digestion, et  
19          cetera.

20          Composting divides it again, which most of  
21          you are probably aware of, what it is and how it  
22          helps to make the manure safer, reduce the  
23          pathogenic or the organism level in the manure so  
24          that it can be used as a safe amendment.

25          And some of the science is there, some of it

1 is not. The NCRS has some data on composting,  
2 they have some booklets on composting we can use,  
3 talks about some of these things that have been  
4 done with EPA and municipal sewage sludge, two or  
5 three days at 131 degrees, I think it is, I can't  
6 remember what the exact temperature was. It  
7 talks about they know that that will reduce the  
8 thing, but some of it for manure is not known.

9 And, again, how you compost manure here in  
10 Florida is going to be a lot different in  
11 December than how you compost manure in North  
12 Dakota, so there's a big difference in how that  
13 works.

14 We don't have the data to tell you all the  
15 time and temperature recommendations. In one of  
16 the statements in there, it talks about -- maybe  
17 one of my next slides -- of putting it on the  
18 soil so many days ahead of time then leaving it,  
19 and these are minimum amounts of time. And  
20 there's one of them, it talks about 120 days.  
21 And there's not really the science to support  
22 that yet, but it's a recommendation.

23 Again, it will vary, depending upon whether  
24 you're using treat or untreated manure. And,  
25 again, here's a -- the growers may reduce the

1 risk of contamination from manure by maximizing  
2 the time between application and harvest.

3 The minimums range from 40 to 60 days, but  
4 some recommendations are 120 days or longer. And  
5 that's a recommendation; that's not always -- and  
6 that's part of the research process that's going  
7 to go on under this initiative, is to look at  
8 those kind of things to determine and to give you  
9 better data on what kinds of things you need to  
10 do, what kind of operations need to take place,  
11 moving the product from outside in, et cetera, et  
12 cetera, et cetera.

13 Natural fertilizer, such as composted manure  
14 have to be produced in a manner to reduce the  
15 likelihood of introducing microbial hazards. And  
16 there's many questions about that. If it's been  
17 produced in a composting facility, it gets to you  
18 and you store it outside for a while, is it  
19 possible for microbes to get to grow or to be  
20 reintroduced into the composted or treated manure  
21 for fertilizer.

22 So how it's handled and what happens to it  
23 after it's been treated may have an impact, and  
24 there's some of that information that is not  
25 available.

1           Cross-contamination which could occur as a  
2           result of your composting operation from stuff  
3           being wind-blown or runoff from it going downhill  
4           into your field where you're growing the produce.  
5           Depends on, again, looking at the process, how  
6           and where it's being done, is there any  
7           likelihood of contamination occurring in that  
8           process.

9           And, again, there's some -- not a clear  
10          indication that composting or other treatments  
11          totally eliminate the pathogens. In many cases,  
12          you're not talking about a sterile product. It's  
13          been reduced to a low enough level, but it's not  
14          a sterilized product. If you were going to buy  
15          sterilized manure, that's one thing, but if you  
16          just composted it, it may reduce the pathogens.

17          But, again, in some of the organisms that  
18          have been seen, the levels that were required to  
19          cause food-borne illness may be very, very low.  
20          So even though we reduce them to a very low  
21          level, it may not be enough to eliminate the  
22          possibility of contamination of the final  
23          product.

24          So you want to consider even treated manure  
25          under the same aspect that you might untreated

1 manure, being sure there's a long enough period  
2 of time, even after you applied treated manure to  
3 the product before harvesting is similarly to  
4 what you would do for untreated manure.

5 Again, here it talks about cross-  
6 contamination runoff, leaching from wind spread  
7 from your composting operation or your manure  
8 handling operation.

9 We're going to go on now and talk a little  
10 bit about sanitation and hygiene and microbial  
11 hazards associated with workers and people who  
12 are working in the field.

13 The worker health and hygiene do play a  
14 critical role in the controls to minimize  
15 microbial contamination of fresh produce. The  
16 fecal oral route is the majority of the way that  
17 many of these pathogenic organisms affect people.

18 That is how it occurs; that's where the  
19 organism is shed, from the human body, a person  
20 who is ill, and can wind up on the hands or  
21 something else, and wind up back in the mouth of  
22 another person.

23 And so the fecal oral route is the primary  
24 microbial concern with most of the organisms  
25 we're talking about.

1           Good hygienic practices by workers are  
2           essential in the control of microbial hazards.  
3           And, again, as I had talked to you earlier or  
4           showed you earlier the other document from farm  
5           to table, that's part of the essential thing all  
6           the way through to the consumers.

7           All of the educational campaigns, all of the  
8           documents that you see from the entire Food  
9           Safety Initiative reemphasize this, that good  
10          hygienic practices from the farm all the way  
11          through the housewife or house-husband at home  
12          preparing the meal are necessary in order to  
13          avoid the contamination of the food products.

14          People who are ill, who are working in any  
15          part of the food safety chain, whether it's in  
16          the field, picking produce, packing it,  
17          distributing it, processing it, serving it,  
18          retail to the consumer, anywhere along that line,  
19          it's possible that it can become contaminated and  
20          wind up causing illness.

21          What we would like -- and in the document it  
22          talks about -- is to control those hazards in the  
23          growing environment. Employees tell -- or report  
24          to the person who's in charge about their health  
25          as they go -- as they're working, to talk about

1 diseases that they understand and have some  
2 education or are talked to about the diseases  
3 that are transmissible through food that they may  
4 carry, that they could contaminate the food  
5 product with. That the people in charge should  
6 be aware of the health of their employees,  
7 wherever possible. And that individuals with  
8 diarrheal disease shouldn't be handling directly  
9 fresh produce.

10 Now, we realize that you could certainly not  
11 say to the farm worker, or the person working in  
12 the shed, if you're sick, we can't let you work.  
13 Their livelihood is just the same thing we deal  
14 with in the restaurant; they are paid for the  
15 time that they're there. But what we have done  
16 in the other environments is look at what other  
17 kinds of tasks can that person perform without  
18 actually having their hand on the food product  
19 itself. Could they drive a truck, could they  
20 clean and maintain equipment that day, could they  
21 work at -- I should say work in the manure pile,  
22 that's not -- are there other things that they  
23 can do other than actually putting their hand on  
24 the produce during times that they're ill that  
25 might minimize their contact with it.

1 All the employees who are involved in the  
2 harvesting, packing, and distribution of fresh  
3 produce should be trained in good hygienic  
4 practices. I can tell you from my long  
5 experience in hand washing, without getting up on  
6 my soap box, that a great percentage of the  
7 people in this country do not wash their hand  
8 after they go to the bathroom. And that's not  
9 out only in the fields; that's every day, every  
10 place you go. If you don't believe me, next time  
11 you go out to the theater, you go somewhere out  
12 to dinner or whatever and you go to a public  
13 restroom, take a minute and look and see; look  
14 and see how many people come in and go out, and  
15 the only thing they stop at the sinks and the  
16 mirror for is to check their hair.

A

17 Consider establishing a training program.  
18 good training program would cover -- a part of it  
19 would cover hygienic practices. Also, it might  
20 be part of a total program where you look at all  
21 the other things that are necessary for you as an  
22 operator or producer in the field.

23 A system to monitor. How can you be sure  
24 that the people that are working in your packing  
25 shed, after they have gone to the little green

1 building out back, have washed their hands before  
2 they come back in and sort produce or chop it or  
3 put it in plastic bags. They need to be taught  
4 proper hand washing techniques.

5           Wherever possible, you'd like them to use  
6 warm water and soap. But any water and soap --  
7 any potable water and soap is going to remove  
8 contamination from their hands, especially after  
9 something that talks about things in the thing,  
10 after smoking and eating, after going to the rest  
11 room, which is very, very important, after being  
12 out -- let's say that they did work in the  
13 morning, working shoveling or working at the  
14 composting pile with manure, moving the outer  
15 layer into the center. Then in the afternoon  
16 they're coming and helping with the harvest. You  
17 want to be sure that they have not caused any  
18 cross-contamination, that they've washed their  
19 hands.

20           On-site latrines and elimination of wastes  
21 outside of these facilities with some kind of a  
22 good toilet facility needs to be ensured. There  
23 has to be a way for people to eliminate waste  
24 from their body in a safe and sanitary manner  
25 that is not going to cause pollution or

1           contamination of the environment or the produce.

2           Toilet facilities, the proximity and  
3           accessibility for harvest crews is important. If  
4           you're harvesting a section of land and you've  
5           got one port-a-potty that's at the opposite  
6           corner of it, is it accessible to the employees  
7           or are they not going to make it all the way over  
8           there on their way.

9           So you need to look at where they're  
10          located, that you have enough facilities for the  
11          number of people that are working, and that  
12          workers have the opportunity to use the  
13          facilities when needed.

14          Assure that the location of facilities is  
15          not near a water source that's used in irrigation  
16          or that there's any way that contamination from  
17          that should it overflow or gets blown over, it  
18          leaks, whatever is going to contaminate water  
19          source, the produce itself, equipment that might  
20          be used out in the field, so that there's no way  
21          that runoff or anything else is going to  
22          contaminate the product.

23          Again, hand washing stations, it's very  
24          important, especially after using the rest room,  
25          anybody with diarrheal disease should be suspect

1 and should be looked at as a possibility of  
2 carrying or shedding the pathogenic organisms,  
3 and that's a call that you're going to have to  
4 look at and do, but the idea of having toilet  
5 paper, the ability to wash and dry their hands is  
6 going to make a lot of difference.

7 Service the portable toilets away from the  
8 field, if possible. If not, to be sure that the  
9 truck that services it can get into the field and  
10 close to it without contaminating anything. If

a

11 spillage should occur from the truck, that it  
12 doesn't wind up all over your produce, et cetera.  
13 Make sure the drainage is correct. If something  
14 does go wrong, that it's disposed of away from  
15 the produce or the packing shed or whatever other  
16 facility you're using.

17 A little bit different. This is the  
18 harvesting precaution itself for the product.  
19 Wherever possible, get as much dirt, mud, et  
20 cetera, off the produce while in the field. What  
21 you're talking about here -- or what we're  
22 talking about is eliminating as much  
23 contamination as possible before it gets into the  
24 packing shed, before it gets into the  
25 transportation system, before it gets into the

1           packing boxes, et cetera.

2                   Somebody said -- we talked about muddy  
3 cartons or pallets, using them to stand in in the  
4 field while they are harvesting, standing on the  
5 pallets or standing in the cartons that the  
6 produce is going to be packed in while they're  
7 filling one, and then stepping out of it, and  
8 then using that one, then, to fill the produce.  
9 Those kind of things need to be looked at during  
10 the harvesting operation to be sure that there  
11 isn't cross-contamination or contamination of the  
12 vehicles that transport the produce.

13                   If it's packaged in the field, make sure to  
14 look at the contamination process -- or that it  
15 isn't contaminated and being carried through the  
16 system. Inspectors, anybody else who is handling  
17 the produce, sorting it, grading it, whatever  
18 they're doing with that product, that they also  
19 have good hygienic practices; that they're  
20 washing their hands or using some other method of  
21 ensuring that they don't contaminate the produce  
22 themselves.

23                   Equipment maintenance. Now we're talking  
24 about field equipment. Maintaining equipment  
25 sanitation. Now that word sanitation does not

1 mean sanitizing. And that just means the ability  
2 to remove gross dirt, et cetera, from the  
3 harvesting or the equipment that's used in the  
4 production process or the harvesting process.

5 That may be everything from harvesters to  
6 tools, et cetera, et cetera, that need to be  
7 cleaned on an occasional or regular basis to  
8 ensure that they don't add to or contribute to  
9 the contamination of the final product.

10 You certainly are well aware you're not  
11 going to use a manure spreader to haul lettuce  
12 back to the packing shed, but the other pieces of  
13 equipment need to be looked at as well for gross  
14 contamination. If that farm wagon that's towed  
15 behind the tractor happened to go through the  
16 field that you just applied untreated manure to,  
17 and you're not going to produce, there's a  
18 possibility that it's going to carry some of that  
19 back into your produce field.

20 Again, you're going to look at the whole  
21 facility so that anything in the process from  
22 harvest through processing that makes contact  
23 with the produce is cleaned and is not going to  
24 add or contribute to the contamination of that  
25 product.

1           Poor sanitation in the packing house can  
2 increase the risk of contamination of the produce  
3 and the water supplies that are used in that  
4 environment that are used with the product.

5           Again, closed packing houses in many cases  
6 that are permanent facilities may be covered  
7 under the Code of Federal Regulations, Part 110,  
8 Good Manufacturing Produces, and the water and a  
9 lot of the cleanliness and the equipment types  
10 and so on that are used in that facility are  
11 going to be different from the ones that are used  
12 in an open packing shed out in the field.

13           Equipment that is used in the packing  
14 process or in the processing facility, knives,  
15 saw blades, et cetera, et cetera, need to be  
16 inspected and cleaned on a regular basis. Again,  
17 it goes back to the same thing we've been talking  
18 about all along, anything where there's a  
19 possibility of adding to or putting contamination  
20 into the product needs to be looked at and cared  
21 for in the proper manner.

22           Pest control. Here, we're talking about  
23 primarily in a closed facility; a closed packing  
24 house, not an open packing shed. You want to be  
25 sure that animals are excluded, that maybe it's

1 source of contamination. So there are many  
2 things that can be done even around open packing  
3 sheds that eliminate or reduce the risk of insect  
4 or rodents, birds, et cetera from being in that  
5 environment. Not giving them harborage, places  
6 to hide, to nest, those kind of things.

7 So those things you just need to look at to  
8 try to keep the processing facility, the packing  
9 house and the grounds around them in good  
10 condition so that they don't become a vector for  
11 contamination.

12 And then there's transportation. Now that  
13 we've got it out of the field, it's been in your  
14 packing house, it's put in the packages, the  
15 crates, the pallets, whatever the method of  
16 transportation is, now it gets -- starts it  
17 through the food safety chain moving up towards  
18 final consumption. And this is a part that you  
19 also need to be aware of.

20 The people who transport your food products,  
21 what kind of vehicles are they using. You're  
22 certainly not going to be putting your crates of  
23 lettuce into a cattle hauler for him to take back  
24 because he hauled cattle down here and now he's  
25 going back to somewhere up north, he's going to

1           hall your lettuce back.

2           You want to be sure that the vehicle that is  
3           being used to transport your product that you  
4           spent so much time and effort on to ensure it's  
5           free from contamination doesn't add to the  
6           contamination at that point in time.

7           Cross-contamination with other foods and  
8           non-food surfaces can occur during transport.  
9           There's a DOT law that was passed many years ago,  
10          most of you are aware of, called -- regarding the  
11          back-hauling of hazardous waste products, the  
12          back-hauling of food products after hazard waste  
13          and those type of things were hauled in vehicles,  
14          to ensure that that doesn't occur.

15          But that doesn't cover other kinds of things  
16          that might be in vehicles. So you need to be  
17          aware of what might happen during the transport  
18          of your product to ensure there's segregation  
19          from other types of food that might contaminate  
20          your produce and to ensure that the carrier has  
21          met some kind of sanitation requirements; the  
22          truck has been washed out, been swept out, that  
23          the -- there's no leftovers from the previous  
24          cargo that's carried in that that could lead to  
25          or cause a problem with your product.

1           And, again, this is a communication problem.  
2           Make sure that all along that way, that you're  
3           aware of what's happening to your product while  
4           still under your control.

5           And traceback -- and, again, we're calling  
6           this, really, positive lot identification instead  
7           of traceback. Traceback is the process that we  
8           go through when we look back to find -- an  
9           epidemiologist goes back, a health professional  
10          goes back to try to find out the cause of the  
11          food-borne outbreak.

12          Positive lot identification is the ability  
13          to identify those lots. And this becomes very  
14          difficult. It is very difficult to do this and,  
15          we realize that, and that's why it's here,  
16          because we need your suggestions. We realize  
17          that after it leaves your facility, your packing  
18          house and it goes to a distributor, it may be  
19          commingled or that, in some instances where it's  
20          going directly from your field to someone who is  
21          packaging the product who bought the product from  
22          you, they commingle it with products from many  
23          other farms.

24          And so positive lot identification is a  
25          problem, but we need your input into how we could

1 better do that. How could we better identify the  
2 products coming from anywhere so that they could  
3 be followed back so we know where they came from  
4 so we could determine how the contamination is  
5 occurring and stop it.

6 Again, traceback won't prevent a hazard, but  
7 it can limit the potential scope of an outbreak,  
8 limit the populations at risk, lead to specific  
9 sources or fields, lessen the economic burden on  
10 the operators and on the growers, limit the  
11 economic burden on specific products.

12 In talking to the gentleman earlier about  
13 the impact that -- somebody saying this caused an  
14 outbreak or that caused an outbreak, it happened  
15 in the whole industry; we've seen that over and  
16 over again. We know that that happens.

17 We've seen it with hamburger chains who did  
18 not have contaminated hamburgers, or even have  
19 meat product in their thing, but because they had  
20 a hamburger, they felt the impact of it. So we  
21 see that all the way through the industry.

22 Again, positive lot identification minimizes  
23 the unnecessary expenditure of public health  
24 resources, reduces consumer anxiety, and that the  
25 operators have procedures to trace it back from

1 the farm to receiver and so on.

2 If there's any things that -- ideas that you  
3 have to help us with that process, to talk about  
4 how we can better identify the lots, that's  
5 information we're interested in.

6 And this just talks a little about traceback  
7 and the type of things that are needed in order  
8 to follow a product back to its roots.

9 And that's a very brief, very general  
10 overview of the guide. Let me put the lights on.  
11 Wake up.

12 With that, it's about 11:30; why don't we  
13 have a few minutes of questions about the  
14 presentation, if you've got any questions that we  
15 can answer quickly, and then we will break for  
16 lunch.

17 So does anybody have any questions this  
18 morning or are we just ready for lunch?

19 DR. ARCHER: Doug Archer, University of  
20 Florida. I just had a quick question because I  
21 came across it when I was reading the guidelines.

22 What is the perceived risk for open lesions?  
23 I mean, I know aesthetically it's not fun to  
24 think about eating blood, but what's the risk?  
25 What's the microbial risk?

1           MR. TROXELL: The ongoing infection and  
2 spreading that in -- the infectious materials  
3 into the produce.

4           DR. ARCHER: I mean, usually we think of  
5 staphylococcus, you know, as the risk from an  
6 open lesion.

7           I'm not aware of a single outbreak of staph  
8 food poisoning from fruit and vegetables, and I  
9 think there's a good reason for that  
10 physiologically.

11           But what other kind of infectious -- I'm not  
12 aware of any food-borne infectious material that  
13 gets passed along from a lesion. That was my  
14 question.

15           MR. TROXELL: Okay.

16           DR. ARCHER: And I guess the other one I was  
17 curious about, there's a lot of detail on hand  
18 washing procedures for people that are working in  
19 the growing field.

20           What about people in the grocery store?

21           MR. BARNES: There -- and I talked this  
22 morning about the total continuum of this farm to  
23 table.

24           DR. ARCHER: No, I mean a consumer.  
25 Probably they fondle produce a whole lot more

1 than the people --

2 MR. BARNES: The -- again, the Fight BAC  
3 campaign, one of the things it talks about is  
4 specifically that, is geared towards the  
5 consumer.

6 The food code, that covers a whole segment  
7 of the retail industry, goes into great detail on  
8 hand washing and the necessity for that and the  
9 GMPs and the processing and the manufacturing  
10 environment, which is probably better controlled  
11 there than in many places, it goes with that  
12 there.

13 This is the final piece. Again, this is the  
14 farm to table continuum, and your comment about  
15 the -- other than Staph aureus from an open  
16 lesion, again, that may not be a significant  
17 factor in the field, but it is part of the  
18 continuum. If we continue to talk with the same  
19 message all the way from farm to table, the  
20 message gets through.

21 Anything else?

22 DR. ZAWEL: Stacey Zawel from the United  
23 Fresh Fruit & Vegetable Association.

24 Terry, I had a question for you regarding a  
25 specific statement in the document, and I know

1           this has been mentioned over and over in the  
2           sense of the impracticality of this specific  
3           recommendation which is in 1.1 under irrigation  
4           where it says to cover open reservoirs.

5           I never asked the question and so now I'm  
6           going to ask you the question. In the context of  
7           developing some of these ideas or things that a  
8           grower could institute to impact public health,  
9           what is it that was envisioned here?

10          MR. TROXELL: Covering open reservoirs was  
11          an earlier draft. Is it in this -- I mean, I  
12          thought we pulled it out.

13          MR. BARNES: Yes, it still is.

14          MR. TROXELL: It is? Well, it shouldn't be  
15          there.

16          DR. ZAWEL: Okay.

17          MR. TROXELL: And it was supposed to be  
18          changed to being a -- protecting your --  
19          basically, your water shed. And that's the kind  
20          of thing you can have some impact on. But --

21          DR. ZAWEL: Okay.

22          MR. TROXELL: -- covering reservoirs doesn't  
23          work.

24          DR. ZAWEL: Thank you.

25          The other statement that I wanted to make or

1 follow with a question is that, the United Fresh  
2 Fruit & Vegetable Association represents growers  
3 all across the United States as well as in other  
4 countries and, in fact, many of our growers  
5 domestically also grow in other countries.

6 And so given that, it's important for us to  
7 take a position that we need to encourage the  
8 appropriate food safety measures no matter where  
9 we're growing, and I think that the industry  
10 domestically has certainly shown a tremendous  
11 amount of leadership in that area, and now the  
12 federal government is also doing the same thing.

13 But along that line -- obviously, it's going  
14 to be very important how that gets implemented so  
15 it doesn't impact a domestic grower.

16 And along that line, though, the WTO is  
17 undertaking this, and CODEX has, in fact,  
18 directed, at the last food and hygiene committee  
19 meeting, directed Canada, or a Canada volunteer  
20 to draft guidance in this area for cold produce,  
21 and France had also volunteered to draft guidance  
22 for fresh-cut, and I'm wondering how this is all  
23 going to fit together, or if it does.

24 MR. BARNES: To answer that, yes. And in my  
25 notes, which I kind of couldn't see all of them

1           that are written down, but I had -- in the  
2           beginning of it, I want to talk that this was  
3           designed to be consistent with WTO and with GATT  
4           and with other things as well.

5           And so that -- that -- I didn't say that,  
6           but that fits into what you're saying, is that we  
7           don't want this to be inconsistent with any of  
8           those things, nor do we want to develop something  
9           that -- reinvent the wheel, I guess is the best  
10          way to put it.

11          So those things, we hope, will be  
12          incorporated as we go through the process.

13          DR. ZAWEL:   So you --

14          MR. VANDERVEEN:  Well, let me just make the  
15          comment that in order to deal with CODEX, we have  
16          to have a position.  And to get out in front of  
17          it is a lot better than trying to react to what  
18          someone else is writing.  And a quick reaction is  
19          also good.

20          So if we can get our heads together and come  
21          up with what we think is a good guidance, and  
22          there's general agreement with it, we can respond  
23          to whatever drafts that come around.

24          And let me just say, also, we're trying  
25          desperately that when a CODEX document does get

1 out, we want public comment on that, as well.  
2 But I think we ought to have our discussions  
3 amongst ourselves long before CODEX gets to the  
4 point of having a final draft.

5 MR. TROXELL: Let me add, also, that, as you  
6 recall in the public meeting on the 17th, Stacey,  
7 I acknowledged and commended the industry for the  
8 work that they've already accomplished in this  
9 area and, you know, the work that's been done has  
10 been well articulated and efforts to implement it  
11 have been well done, and I think it's going to  
12 help us come up with a good document that -- you  
13 know, we can put out as a -- as something for  
14 both domestic and imports to work with. I think  
15 it's going to help us come out with something a  
16 lot quicker and it will be a better document,  
17 so --

18 DR. ZAWEL: And one sec.

19 I guess my concern is that -- or not  
20 necessarily concern, but my hope would be -- and  
21 I know Canada has talked to the FDA -- is that  
22 this document be perhaps a model wherever, that  
23 we, the U.S., takes a role and works closely with  
24 Canada in the development, and I think you're  
25 already doing that. But rather than having two

1 separate initiatives for U.S. growers, that could  
2 be part of developing equivalent standards for  
3 the U.S. -- for the world.

4 MR. TROXELL: And the process we have  
5 outlined is inviting everybody to participate.  
6 We're going out of our way to solicit input from  
7 every major producing region in the U.S. and  
8 trying to solicit input internationally, that's  
9 why we're holding an international meeting and  
10 hoping we will be able to come up with something  
11 that will be a template for the CODEX, will be  
12 able to show some leadership here, and I don't  
13 think with the way things are -- the status of  
14 the situation, that we really can wait for two,  
15 three, four years for CODEX to come to agreement  
16 on something.

17 MR. BARNES: Yes?

18 MR. STUART: My name is Mike Stuart, I'm  
19 with Florida Fruit & Vegetable Association, and  
20 this is a question for any one of you up on the  
21 panel.

22 We've been hearing a lot that -- through  
23 this process about the importance of making sure  
24 that this guidance document is consistent with  
25 the WTO, and I guess that's fine.

1           But I guess my concern is, what efforts are  
2           we taking to ensure that the guidance is  
3           consistent with existing state, federal, and  
4           local laws and regulations?

5           We've got, obviously, a very complex set of  
6           rules and regulations that apply to this  
7           industry, not just here in Florida, but  
8           throughout the United States, and to the degree  
9           that there may be provisions in it -- we've  
10          already talked about some of the irrigation  
11          issues, but I think there are some of the issues  
12          regarding worker reporting and that type of thing  
13          that may perhaps apply in the face of either  
14          local or state regulations or even federal laws  
15          and regulations that would apply to that specific  
16          area.

17          What are you doing from an inner-agency  
18          process to ensure that we're being consistent and  
19          not providing guidance to an industry that might  
20          be encouraging them to get into some gray areas  
21          of other laws that they're already required to  
22          comply with?

23          MR. TROXELL: We -- this is a very --  
24          obviously, a very complex agricultural system,  
25          and the requirements across the country vary

1           tremendously.

2           This document probably does not say it  
3           strong enough, or say it at all yet, as a matter  
4           of fact, but the recommendations here, the  
5           advice, the -- to minimize this, when feasible,  
6           et cetera, that's in here, has to be like that  
7           because of the great variety of the situations  
8           across the country.

9           But we need to make it very clear in here  
10          that this does not substitute or replace any  
11          state or local requirements, and we will do that.  
12          This is not to undermine in any way --

13          MR. STUART: I guess the reason for the  
14          question, I don't want to see producers in the  
15          United States, anywhere in the United States,  
16          Florida in particular, finding themselves in a  
17          situation where they're having to deal with their  
18          buyers in the marketplace because they want them  
19          to comply with the particular items found in this  
20          guidance, and then having that particular  
21          provision, whatever it happened to be, put them  
22          in some gray area against state or federal law or  
23          regulation on that specific area. I think that's  
24          extremely important that you don't put producers  
25          in that predicament.

1           MR. TROXELL: And we agree, and if there's  
2 items in this document that cause such problems,  
3 we need to know about those items.

4           MR. BARNES: And there are several sections  
5 in there involved, that Terry said, that already  
6 talked about applicable -- I think a couple of my  
7 slides showed that where the applicable guidance  
8 may come from federal, state, or local laws  
9 that -- first, and these may supplement it a  
10 little. But that those existing laws are what  
11 need to be followed.

12           This is a guidance document, again. And  
13 maybe we need to put that in each chapter, but I  
14 know it's in there in several places.

15           DR. ROBERTS: May I be permitted to ask a  
16 question, too?

17           MR. BARNES: Certainly.

18           DR. ROBERTS: Along that very same line, I  
19 know there's been a lot of discussion, even in  
20 the room today, as to how best can FDA state  
21 within the document that these should not become  
22 de facto regulations at this very moment, you  
23 know, with buyers insisting that people meet a  
24 certain specific suggestion within your proposal.

25           MR. TROXELL: Well that, of course, is

1 always a risk that guidance or advisories will  
2 become, effectively, requirements through  
3 contracts by your grocery stores or your food  
4 service establishments and so on.

5 The only thing we can really do there is  
6 emphasize that this is guidance; it's not  
7 regulatory, it's not binding. And the other  
8 thing I think that helps that situation is, in  
9 the document we talk about minimize, avoid to the  
10 extent feasible, you know, if practical, and so  
11 on, and it's very difficult to take those terms,  
12 which are -- to take those terms and convert them  
13 into something that becomes a requirement.

14 I mean, because if you say avoid to the  
15 extent feasible, well, okay, that's a matter of  
16 degree, and people can avoid to the extent  
17 feasible to different degrees.

18 MR. VANDERVEEN: I think, Martha, you do  
19 bring out a good point, and I think we'll go back  
20 and, maybe you want to put on the front of this  
21 document as draft. It's clearly a draft at this  
22 point in time; it is a working draft, and we  
23 probably have been a little hasty in not labeling  
24 it as such.

25 MR. BARNES: It is labeled at the bottom in

1 little letters.

2 MR. VANDERVEEN: Oh, yeah. It says working  
3 draft down in the bottom. You might want to put  
4 that in great, big letters at the top, especially  
5 if you're --

6 MR. TROXELL: We would clearly like to hear  
7 your ideas and how we can cast this to help avoid  
8 the problem of this becoming a requirement  
9 through contracts.

10 MR. VANDERVEEN: Well, the question of when  
11 it's a final document, if someone wants to use it  
12 in that manner and they have good reason to do  
13 it, then that's reasonable. But we do have  
14 that -- we recognize that that is an issue.

15 MR. BARNES: We've got -- how about two more  
16 questions and then we'll break for lunch. And  
17 we'll start in the back, you were up there first,  
18 please.

19 MR. MATTHEW: Good morning. My name's  
20 Charlie Matthew, I'm with Florida Fruit &  
21 Vegetable Association.

22 In the guidance you've dedicated an entire  
23 section to crop protection sprays. And my  
24 question is, what information and data do you  
25 have that would show this much significance to

1 crop protection sprays?

2 MR. TROXELL: I don't think -- well, there's  
3 no intention by the amount of words to indicate  
4 the weight of the problem. I think we just need  
5 to use as much -- put as much information in  
6 there as necessary to assure that the correct  
7 practices are taken.

8 I don't know that this is a very serious  
9 problem, but it's something that we have to  
10 recognize and make recommendations to deal with.

11 MR. MATTHEW: And I agree with you, that  
12 there possibly could be perhaps the potential.

13 But my question is, you know, you've  
14 dedicated an entire section to the importance of  
15 this, and I don't understand -- and what are the  
16 instances where you can document that applying  
17 pesticides had resulted in problems, you know,  
18 microbial problems?

19 MR. TROXELL: Okay.

20 MR. MATTHEW: And following along with  
21 that -- and I don't handle this -- but you're  
22 using language like "should" and "verify", that  
23 don't know, perhaps we should be using -- should  
24 be using verification and other things that other  
25 places that are perhaps more important than

1 something where we really don't, to my knowledge,  
2 have a documented occurrence of a problem.

3 DR. ROBERTS: Terry, if I might on that --

4 MR. BARNES: Thank you.

5 DR. ROBERTS: -- earlier point, you know,  
6 again, we have a whole section in there, and to  
7 my reading and recollection, the only instance  
8 you ever show where that might be a problem is in  
9 your investigation of the Guatemalan raspberry  
10 situation, and some of the documents that you put  
11 out there about a situation in a foreign country,  
12 you were then -- the description of what you  
13 found said that that was a potential problem in  
14 foreign country on the Guatemalan raspberries and  
15 cyclospora.

16 But I've never seen a documented mention for  
17 a domestic situation. There may be some that I  
18 don't know about.

19 MR. TROXELL: But this document is for  
20 domestic and foreign produce production.

21 DR. ROBERTS: Okay.

22 MR. BARNES: One more question, and then  
23 we'll go to lunch.

24 DR. BEASLEY: Terry, I'm going to put you on  
25 the spot, I guess, because basically -- my name's

a

1 Larry Beasley and I'm with A. Duda & Sons. We  
2 grow about 40,000 acres of vegetables and a  
3 little bit of citrus and I'm quite concerned  
4 about your guidance document.

5 We're talking about perception of a  
6 perceived problem, and we're talking about  
7 liability.

8 Mike Chappell, John Vanderveen, Martha, you  
9 brought up the subject of guidance, Richard  
10 Barnes, you brought up the subject of guidance.

11 I'd like to point out to you, there's a  
12 buyer here from Kroger, and he's drafting his  
13 letter now to his buyers with the tick marks on  
14 it based on your guidance document, telling us  
15 what we will or won't do, and what they will  
16 consider that we have to have in place in order  
17 for them to purchase from us.

18 This is not guidance. Guidance is only one  
19 step in the evolution of a regulation, and I  
20 don't care what you write in fine print or bold  
21 print on your document; this is a regulation. No  
22 question. Point made.

23 MS. ISAACS: Okay. Enjoy your lunch and  
24 please be back one hour from the time you  
25 currently have on your watch.

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(Thereupon, a lunch recess was taken.)

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(Thereupon, the Public Hearing resumed at  
1:05 p.m.)

MS. ISAACS: This afternoon we're going to  
begin with the role of the USDA and our presenter  
is Dr. Ricardo Gomez.

Ricardo is the principal horticulturist with  
Cooperative State Research Education and  
Extension Service, USDA.

Is that Washington, I take it?

DR. GOMEZ: Yes.

MS. ISAACS: Washington, D. C.

Okay. So he's going to discuss the role of  
USDA.

DR. GOMEZ: Thank you. Before I start on  
the role of USDA, which is somewhat complex, I  
wanted to thank Clayton. I think his offering  
this facility to us has been fantastic.

Clayton and I, by the way, went to school --  
talking about a communications -- went to school  
at the University of Florida in the late '60s,  
'68, nine and so on. Both in the same department  
of fruit crops, and we didn't know each other.

1 But I had talked to Clayton about six, seven  
2 years ago, Clayton? So we sort of know each  
3 other a little bit. But thanks. The facility's  
4 great.

5 The role of USDA. We are an extremely  
6 complex department; we have several roles. We  
7 have regulatory roles, outreach, and education  
8 roles. And in this initiative, I think we can  
9 take advantage of all those three roles that the  
10 department offers.

11 As you all know -- or if you don't, I'll  
12 tell you -- there are some regulatory agencies  
13 within the department. The Food Safety  
14 Inspection Service is that which is responsible  
15 for meat and poultry inspections in the U.S. and  
16 foreign lands.

17 The Animal and Plant Health Inspection  
18 Service is also one that has point of entry  
19 responsibilities to keep agriculture safe,  
20 American agriculture safe from foreign pests.  
21 These two agencies can really be a lot of help in  
22 having also outreach capabilities in those  
23 foreign areas, as well as within the U.S.

24 The foreign agricultural service, through  
25 its international cooperation and development

1 activities and the scientific exchange programs  
2 also has a major role that it can play in here.

3 But getting closer to the initiative itself  
4 is the national agricultural statistical service  
5 which has working relationships with the  
6 departments of agriculture in all -- in all of  
7 the 50 states working with the State Agricultural  
8 Statistical Services.

9 And they're the ones that survey -- do  
10 surveys on our farms -- statistical and valid  
11 surveys, by the way -- to get information on  
12 crops, pesticides and so on. And I think we've  
13 been talking to them in this initiative about  
14 trying to include, as part of their surveys, some  
15 questions that may be applicable to this  
16 initiative so that we get some valid feedback  
17 from them. So that's one agency that we are  
18 dealing with as a part of this initiative.

19 There's two or three other agencies, the  
20 Agricultural Research Service, which is the  
21 intramural research agency of the department.  
22 And this agency serves the -- both the regulatory  
23 agencies as part of the research programs and  
24 other agricultural research of probably more  
25 basic type than the other agency which I belong,

1           which is the Cooperative State Research Education  
2           and Extension Service. That one is really the  
3           federal department.

4           And here's the first time I'm using the word  
5           partner; it's a federal partner of the  
6           Agricultural Extension Service and the  
7           Agricultural Experiment Station System.

8           So our agency and ARS are those that do the  
9           research. And we will be, as we identify some  
10          knowledge gaps -- and these are not good  
11          agricultural practice; holes in our knowledge --  
12          that we will be putting into motion some  
13          research.

14          And as was stated before, I think Richard  
15          said that we're not -- we do not have monies in  
16          the FY98 budget for this, but there are some  
17          funds that have been requested for the fiscal  
18          year '99 and beyond. So there may be some monies  
19          available to do some research on specific aspects  
20          of this initiative later on.

21          One other agency, as well as ours that has  
22          routes or branches down to the local level is the  
23          Natural Resources and Conservation Service. The  
24          Extension System and NRCS, as well as the  
25          partners in the Soil and Water Conservation

1 District, really touch the producer, him or  
2 herself. And those are the agencies that will  
3 really be involved in the outreach and  
4 educational programs through this initiative for  
5 the Department of Agriculture.

6 I think that partnership that we have with  
7 NRCS, with ARS, with our local Extension System,  
8 is really the foundation that this initiative  
9 needs to look at to go forward and be functional.

10 As has been stated before by many of you,  
11 the initiative needs to be based on good science,  
12 but we don't have all the science. We need to  
13 identify those gaps, those knowledge holes, and  
14 start working on them very quickly.

15 I know ARS has already made some changes in  
16 funding directions and they are working, or  
17 starting to gear up to work on some of the  
18 composting questions that have arisen within this  
19 short period of time that we have been working  
20 on.

21 So there are possibilities, not only of  
22 additional funding, but also of redirection.  
23 Redirection is good and it works in a straight  
24 line agency. And that's another point that I  
25 want to stress to you, is that both the

I

1 Experiment Station System and the Extension  
2 System are partners with my agency, but we're not  
3 a straight line agency. God forbid me if I tell  
4 Clayton, as a federal guy, to do something  
5 because I fear what he's going to tell me back;  
6 really fear it.

7 So we have a good relationship, but we are  
8 partners. As a matter of fact, the federal  
9 branch is a minor partner in the Extension  
10 System. We only fund about 30 percent of the  
11 whole extension deal, whereas the state and local  
12 levels fund the rest. So we are a minor partner,  
13 but we can be -- we can be very successful,  
14 especially if there's some additional money.

15 So let me give you an example or two of some  
16 of the other -- some of the things that we have  
17 done as partners.

18 We have a program that is called the  
19 Pharmacist Program, which was borne by the  
20 federal agencies, NRCS and CSREES, working with  
21 the land grant institutions to develop a  
22 management tool for producers mainly to do with  
23 the environmental consequences of agricultural  
24 practices, but looking at it from an economic  
25 point of view.

1           And I think I need to stress the point,  
2           economic point of view. If an initiative is  
3           going to work, it needs to be based on sound  
4           economics; nobody should really take a bath  
5           trying to follow any of these guidance documents.

6           We need to develop the guidance documents  
7           with common sense, based on science, and based on  
8           economic reality.

9           The Pharmacist Program has been very  
10          successful, and Michigan State University and  
11          several other institutions are already working to  
12          incorporate into that pharmacist -- which is a  
13          computer driven program, but nonetheless, it's a  
14          good program -- they're starting to put in some  
15          of these food safety and quality aspects into  
16          that.

17          But it still leaves the ultimate decision in  
18          the hands of the producer. It does not take away  
19          the management aptitudes.

20          Another program in which NRCS and Extension  
21          have been working very closely in is the water  
22          quality. And we have, in each and every state,  
23          just about, some water -- water shed management  
24          projects that have shown us some of the real  
25          practices that will deter runoff, that will deter

1 pesticide contamination of waters and so on. And  
2 I think these two models -- and there are many  
3 others, by the way -- but these two models are  
4 based on science, they are based on common sense,  
5 and they are not pushing the economic picture out  
6 of the way.

7 They are based on economics; on good  
8 economics, so there's some profit still available  
9 to the producer.

10 It is also a voluntary type program at this  
11 point in time, even though some of the farm  
12 management plans that NRCS has responsibilities  
13 for require certain management tools or practices  
14 incorporated. But it's still a -- they're still  
15 voluntary, if you participate in a USDA farm  
16 program, then you have to have a management plan.

17 The voluntary aspect, the good science and  
18 so on, are what make these type of programs work.  
19 We do not take the producer and make him a slave.  
20 We let him or her manage that production  
21 facility.

22 We also have, in the CSREES, in my agency,  
23 other programs that really need, and could be  
24 very useful to this initiative, and we're  
25 bringing all these things in. Even though today

1           it may not appear the USDA has a vital role in  
2           this initiative, we do. Believe it.

3           And as the guidance documents continue to  
4           develop, we will have more. You need to remember  
5           that FDA is not a non-agricultural based agency,  
6           whereas the USDA is an agricultural based agency.  
7           So we need to be complementary.

8           But other programs in which my agency can  
9           help with are the Expanded Food and Nutrition  
10          Program, which also addresses the consumer issues  
11          associated with this initiative. And there are  
12          some. It's not only the responsibility of the  
13          producer to manage the output of fresh fruits and  
14          vegetables to be -- to increase the microbial  
15          contamination; it's throughout the food chain up  
16          to the consumer.

17          That's the responsibility of us as people,  
18          as consumers, also. We have that. We are also  
19          involved, and the department is greatly involved,  
20          in the food stamp program. These are all  
21          vehicles that we can use to help not only educate  
22          the producer, but all of us that do consume.

23          And before I end my points, I do want to  
24          remind you -- and I think it has been said  
25          before -- that there's probably -- there is more

1 risk to your health of not consuming fresh fruits  
2 and produce and vegetables than there is of  
3 consuming some that are contaminated.

4 So keep on eating your veggies and your  
5 fruits, fresh veggies and fruits, do that. It's  
6 healthy. Very healthy.

7 Thank you.

8 MS. ISAACS: Are there any questions for  
9 Dr. Gomez?

10 MS. TRUNK: I'm Maria Trunk (phonetic) from  
11 the Tropical Fruit Island, a grower, shipper,  
12 packer in Homestead. We are also importers of  
13 tropical fruits and vegetables from the Carribean  
14 and Central and South America.

15 I have two questions. Just drawing on my  
16 experience in working with plant quarantine  
17 issues, I've seen that a pattern of APHIS and ARS  
18 working very closely together to quantify pest  
19 risks from produce from other countries and then  
20 developing treatments or practices which  
21 adequately address those risks.

22 Is this the kind of research that you would  
23 envision, this kind of risk assessment would be  
24 done in this -- in this case?

25 DR. GOMEZ: I really don't know at this

1 point. I think there must be a risk assessment  
2 type avenue in there, yeah.

3 DR. TROXELL: Let me just comment that --  
4 and, obviously, this initiative is focusing  
5 totally on microbes, not other aspects.

6 Microbiological quantitative risk assessment  
7 is pretty much in its infancy. There are very  
8 few quantitative risk assessments actually  
9 ongoing, and one that I'm aware of is for -- for  
10 eggs from farm to table that the USDA is doing.

11 This is a developing field, and it will be  
12 applied as it develops. There are qualitative  
13 risk assessments that are done all the time and  
14 that have been done for years in food programs.

15 So we do not -- do not really have the  
16 complete tools to be able to do quantitative risk  
17 assessments at this time for microbiology  
18 problems.

19 MS. ISAACS: Can you all hear in the back?  
20 Perhaps you weren't close enough.

21 MS. TRUNK: Okay. I'll ask my second  
22 question, then.

23 I guess I'm just a little bit unclear on how  
24 this all fits together, but we saw at the  
25 beginning of the presentation a time table that

1 called for a final guide to be issued in the  
2 summer of '98, and yet we're hearing that maybe  
3 research funds won't be available until fiscal  
4 '99. How does this all fit together?

5 DR. TROXELL: This does not anticipate  
6 complete answers on all the science. That's why  
7 the document will be using a lot of relative  
8 terms; it's better to compost longer than shorter  
9 and, you know, not specific times and so on.

10 We need a lot of research to be able to  
11 pinpoint all the answers. Once those answers are  
12 pinpointed, then there could be much more, you  
13 know, very, very concrete advice.

14 But at this point, the information isn't  
15 available, and as it becomes available, guidance  
16 will be revised and practices -- recommended  
17 practices will be changed.

18 DR. GOMEZ: I want to tell you a little  
19 story to Brooks here.

20 I was involved in the ethylene dibromide  
21 problem when mangoes from Santo Domingo or Haiti  
22 were starting to be brought in, and there was a  
23 tremendous panic.

24 But through working with ARS, with the  
25 Experiment Station System also, and with APHIS

1 hand in hand as partners, that problem was  
2 resolved.

3 So there are opportunities for this in the  
4 future and I hope they will be resolved, as well,  
5 working as partners. Not one agency can do it  
6 all by itself, but working together, we can solve  
7 some of these problems.

8 MS. ISAACS: Anyone else?

9 DR. BEASLEY: In two of the documents you  
10 passed out this morning --

11 MS. ISAACS: Could we have your name,  
12 please?

13 DR. BEASLEY: I'm sorry. Larry Beasely with  
14 A. Duda & Sons again. And I'll try not to be as  
15 emotional as I was earlier in the day. I get  
16 frustrated from time to time.

17 It says in here that 9,000 deaths are  
18 directly linked to food-borne pathogens and  
19 that's in two different places in that handout.  
20 Not the one that you prepared, but handouts we  
21 were given outside here.

22 How many of those 9,000 deaths are due to  
23 pathogens found on fresh fruit and vegetables?  
24 Anybody?

25 DR. TROXELL: I don't think we have an

1 answer to that.

2 DR. BEASLEY: Then we don't know what the  
3 risk is, do we?

4 DR. TROXELL: Well, the percentage of the  
5 outbreaks associated -- and cases of illness  
6 associated with produce has gone up. It had been  
7 fairly minimal. It's now up to, I believe, five-  
8 eighths to eight percent of the total outbreaks  
9 and illnesses.

10 The known cases are generally considered the  
11 tip of the iceberg because the monitoring systems  
12 do not allow you to really understand the full  
13 magnitude. And there have been estimates that,  
14 based on what's -- what your known illnesses are,  
15 the actual illnesses are 50 to a hundred times  
16 larger.

17 DR. BEASLEY: Well, you state in here, six  
18 and a half to 33 million illnesses. And I'm only  
19 directing this to deaths.

20 And what I'm asking -- my question is: How  
21 many of those deaths are related to fresh fruit  
22 and vegetable; not eggs, not meat, not something  
23 cross-contaminated by meat; something that you  
24 directly trace back to fresh fruit and  
25 vegetables?

1 MR. BARNES: I --

2 DR. BEASLEY: Not the processed vegetables,  
3 but --

4 MR. BARNES: And I don't know that -- I  
5 don't have any of that data here. I don't know  
6 if that data's available, because normally it's  
7 traced back to an organism. And I'm just looking  
8 at the list of Salmonella, E. Coli 0157, Listeria  
9 monocytogenes, which all have been found in fresh  
10 fruits and vegetables, which can be very serious,  
11 even life threatening to high risk possible  
12 populations, regardless of the vehicle.

13 And those numbers are -- where the deaths  
14 come from are the numbers people have died from  
15 specific organisms, not necessarily from a  
16 specific outbreak that -- I mean, I don't have  
17 that data here. It may be somewhere.

18 The Center for Disease Control and  
19 Prevention may have -- maybe it will link it  
20 directly from the organism back to the product  
21 and be able to tell you that, but I don't have  
22 that data.

23 DR. BEASLEY: Could someone from this august  
24 group get some information like that back to us  
25 to so that we know what the risk is?

1           MR. VANDERVEEN: What we can give you is the  
2 work of the subcommittee -- produce subcommittee  
3 of the advisory committee on microbiological  
4 quality of food in which they have listed from  
5 the literature those cases associated with  
6 produce outbreaks, and we will -- we will provide  
7 you that.

8           DR. BEASLEY: Thank you, sir.

9           MS. ISAACS: Okay. Moving right along.

10          We are into the industry group presentations  
11 ahead of time. Thank you everyone.

12          And at this time, I would really like to  
13 thank Dr. Stacey Zawel, she's the Director of  
14 Scientific and Regulatory Affairs with United  
15 Fruit & Vegetable Association based out of  
16 Alexandria. And she and Michael Stuart with the  
17 Florida Fruit and Vegetable Association in  
18 Orlando, were able to arrange some member  
19 speakers to start off the industry segment.

20          So we really -- and the tremendous job they  
21 did in publicizing this event in a very short  
22 turn-around and getting the draft out to their  
23 members. We appreciate it so much.

24          So Stacey, did you want to say a few words?

25          DR. ZAWEL: Thanks, Lynn. I just want to

1 say very few words, actually.

2 What United has done in this process is  
3 tried to take advantage of these meetings and  
4 capitalize on them, Michigan, New York as well as  
5 the rest of them all along the road, to put  
6 together a number of industry experts to convey  
7 and to represent numerous commodities, why  
8 certain practices are followed, to demonstrate  
9 the diversity and complexity of the industry, as  
10 well as conveying what's practical and reasonable  
11 for the industry to do, and demonstrate that, in  
12 fact, the industry takes the issue of food safety  
13 extremely seriously.

14 In Florida, we have, in all cases, rely  
15 very, very heavily on the local associations,  
16 regional associations to identify the appropriate  
17 people and, therefore, I want to thank Mike  
18 Stuart, the President of the Florida Fruit &  
19 Vegetable Association, and the rest of the  
20 association in the effort that they have put  
21 forward to identify the appropriate people in  
22 Florida.

23 With that, Mike.

24 MS. ISAACS: Mike, would you mind coming --  
25 I think it works out a lot better if you're not

1 shy and don't mind coming up to the front podium.  
2 It makes it a lot easier as far as transcription,  
3 and easier for all of us to see you and hear you.

4 MR. STUART: Thank you, Lynn. And I too  
5 want to thank Dr. Zawel for all of her efforts in  
6 coordinating the industry's examination and  
7 responsive participation in this whole effort.

8 This is, as I think we've all discussed here  
9 today, with the complexity of this industry, it's  
10 very difficult to bring an industry together from  
11 various sections of the country and throughout  
12 North America, for that matter, what they've been  
13 involved with here, try and play a good, strong,  
14 constructive role in this process.

15 Again, my name is Mike Stuart. I'm the  
16 president of Florida Fruit & Vegetable  
17 Association, and we're an organization represents  
18 vegetable, citrus, tropical fruit and producers  
19 of other agricultural products in the state.

20 As has been mentioned here -- I know  
21 Dr. Roberts mentioned it this morning and others  
22 have as well -- we have a very diverse and  
23 complex industry here in the state. The fruit  
24 and vegetable sector represents about 50 percent  
25 of the entire industry. It's about \$3 billion

1           worth of farm gate value on an annual basis. We  
2           lead the nation, I believe, in some 14 different  
3           fruit and vegetable crops including citrus,  
4           tomatoes, green peppers and others.

5                     I think, again -- and I hate to reiterate  
6           something that's been mentioned by people  
7           earlier, but eating a diet rich in fruits and  
8           vegetables is extremely important to the health  
9           of all Americans.

10                    And along those lines, for several years,  
11           FFVA along with a partnership of literally  
12           hundreds of different organizations and companies  
13           around the country, has been actively involved in  
14           promoting that message of eating five servings of  
15           fruits and vegetables a day in partnership with  
16           federal agencies like the National Cancer  
17           Institute.

18                    I am happy to say that we are making, I  
19           think, some excellent progress in that goal.  
20           When we started out in 1989, 1990, consumption  
21           was at about three to three and a half servings  
22           per day. We're looking for some data to come  
23           out, hopefully, earlier next year that will show  
24           us somewhere between four and four and a half  
25           servings of fruits and vegetables a day for the

1 American population.

2 So we are making some progress. And I think  
3 it's important, as we move through this process,  
4 to ensure that we're doing something that will  
5 encourage people to eat more fruits and  
6 vegetables and not frighten them away from eating  
7 those very important products.

8 We do believe that our industry, and in our  
9 membership in particular, produces a very safe  
10 and wholesome product throughout Florida. We  
11 comply with literally a myriad of state, federal,  
12 and local regulations, many of which have to do  
13 with providing a sanitary and healthful product  
14 to consumers. But along those lines, we do  
15 obviously support science-based efforts to  
16 further enhance the wholesomeness of fruits and  
17 vegetables consumed here in Florida throughout  
18 the United States.

19 As an industry, we recognize that the  
20 incidence of food-borne illness attributed to  
21 fresh produce has increased over the past ten  
22 years. Unfortunately, other than the  
23 epidemiological studies that have been conducted  
24 with each reported illness that we've had during  
25 that time, there's really been insufficient

1 research conducted to determine the source and  
2 cause of many of these outbreaks.

3 We have, however, particularly over the last  
4 few years, I think, approached this whole issue  
5 in a very proactive manner. Last year, we began  
6 a process within our own organization to assist  
7 our members in the identification and mitigation  
8 of potential sources of microbial contamination  
9 of fruits and vegetables.

10 Our growers' check list for microbial safety  
11 on such produce was developed and designed under  
12 the simple premise that consumers deserve the  
13 ability to purchase produce that has been  
14 produced, distributed, and marketed in a manner  
15 which minimizes the risk of food-borne illness.

16 Another key premise of the document,  
17 however, was the fact that crops such as fresh  
18 fruits and vegetables which are produced in a  
19 natural environment cannot be expected to be  
20 completely free of microbial agents.

21 Here just recently, the National Advisory  
22 Committee on microbial criteria for foods, which  
23 was just mentioned here just a minute ago,  
24 reinforced that reality in a white paper that was  
25 produced here, I believe, the week before last,

1           which stated, and I quote: "The focus of  
2 activities must be realistically directed towards  
3 risk reduction and not elimination."

4           I need to also point out several other  
5 industry initiatives have also been undertaken in  
6 the whole area of microbial safety. FFVA worked  
7 closely with Dr. Zawel and the United Fresh Fruit  
8 & Vegetable Association as well as 18 other fruit  
9 and vegetable -- primarily producer organizations  
10 from around the United States and throughout  
11 North America, for that matter, in the  
12 development of industry-wide guidance to minimize  
13 microbiological food safety risks for produce,  
14 which also focuses on risk identification and  
15 mitigation at the grower, shipper, handler level.

16           Additional efforts have also taken place on  
17 the West Coast with Western Growers Association  
18 in cooperation with the International Fresh & Cut  
19 Produce Association. I know the Florida  
20 Department of Citrus and several other  
21 organizations around the country have also taken  
22 a proactive effort in addressing these issues and  
23 providing industry guidance back to the industry.

24           I think it's important, though, to point out  
25 that in each of these cases, these efforts have

1           taken several months, if not years, to develop  
2           among people who are intimately knowledgeable and  
3           versed in the application and production of  
4           different cultural practices within the industry.

5           We also have worked closely with the Fresh  
6           Produce Subcommittee of the National Advisory  
7           Committee to identify these risks as well. We,  
8           along with United Fresh Fruit & Vegetable, hosted  
9           the Fresh Produce Subcommittee down here in  
10          Florida a year ago -- actually, it will be two  
11          years this coming January, to go out literally  
12          and spend some time in the fields and the groves  
13          and the packing houses so they could get a  
14          firsthand view of what's going on here in Florida  
15          so that they have a good, sound basis for making  
16          the recommendations.

17          Unfortunately, we still have many unanswered  
18          questions regarding the introduction and  
19          transmission of food-borne pathogens and fresh  
20          produce and that was an assessment that was drawn  
21          by the subcommittee, and we strongly agree with  
22          that assessment.

23          We appreciate that the agents' draft  
24          guidance to minimize microbial food safety  
25          hazards for fresh fruits and vegetables has been

1 developed as guidance as opposed to regulation;  
2 we think that is obviously very positive for the  
3 industry. But as has also been mentioned here,  
4 and I need to reiterate that, you need to  
5 recognize that, although the federal government  
6 has taken great pains, I believe, to try and  
7 ensure all of us that this is, in fact, guidance,  
8 I think its application in the marketplace needs  
9 to be closely examined. And although you do  
10 consider it guidance, I think, as we move down  
11 the road here, the buying end of our industry may  
12 dictate otherwise.

13 The draft document has also been put  
14 together in the two months since the announcement  
15 of the President's Initiative, and we are very  
16 concerned, quite frankly, with the speed in which  
17 this train is moving down the track.

18 Again, the produce industry is highly  
19 complex and diverse and what may be applicable to  
20 one commodity may not be applicable to another,  
21 or what may be applicable to one producing area  
22 certainly may not be applicable to another. That  
23 is accurate, I think, here in Florida as well as  
24 throughout the country.

25 It is essential that the complex and diverse

1 nature of our industry be taken into account.

2 And this -- we've heard, I think, this time and  
3 time again today, and I think you'll hear it more  
4 as other industry people get up to speak. We  
5 seriously doubt that this agency can really  
6 accurately put together this kind of document in  
7 the type of short time period that you've  
8 described here today.

9 Any guidance also must have a strong  
10 scientific basis. It's clearly been identified  
11 by the Fresh Produce Subcommittee that more  
12 research needs to be conducted on how, when, and  
13 where this contamination occurs. It needs to be  
14 addressed, though, not just at the production  
15 level, but throughout the distribution chain all  
16 the way to the table.

17 Contamination can occur anywhere in the  
18 chain, and it's been well documented in recent  
19 years, particularly by public health officials,  
20 that much of the contamination occurs at food  
21 preparation sites, whether in food preparation at  
22 restaurants or particularly in the home.

23 While it's been shown to be incidents of  
24 food-borne illnesses associated with fresh  
25 produce have increased in recent years, it's

1           important, however, to put the relatively few  
2           incidents involving fruits and vegetables into  
3           context with the one billion servings of fruits  
4           and vegetables that are consumed by Americans  
5           every single day. It should also be pointed out  
6           that not only has consumption of produce  
7           increased during that time, but more importantly,  
8           the amount of fruits and vegetables imported in  
9           the United States has risen dramatically during  
10          that time as well.

11                 According to federal statistics, the amount  
12          of imported fruits and vegetables consumed in the  
13          United States has basically doubled in the past  
14          ten years. Meanwhile, it's also been reported  
15          that FDA testing of imports has declined.

16                 Although the initial thrust of the  
17          President's Initiative seems to be focused on  
18          imported foods, the domestic industry now seems  
19          to be the focus of this initiative and this  
20          guidance effort. It's important the focus of  
21          this effort be directed on those countries where  
22          the sources of these food-borne illnesses are  
23          commonly found or endemic.

24                 We also believe that a key element in the  
25          President's Initiative should be to provide

1 consumers with information on the country of  
2 origin of the produce they buy at the  
3 supermarket. If you visit any Florida store,  
4 grocery store, you would find country of origin  
5 labeling in each of the bins where those products  
6 are located. Florida and Maine, to date, are the  
7 only states in this country that require country  
8 of origin labeling. Consumers have told us time  
9 and time again in research studies that they want  
10 that information. We agree that they should have  
11 it.

12 We encourage and we urge the FDA and the  
13 USDA to move forward cautiously and slowly with  
14 this initiative, taking into account the  
15 implications not only on the production of fruits  
16 and vegetables, but what implication it might  
17 have on the marketplace itself. Any guidance  
18 should be based solely on documented risk and  
19 science-based solutions. There is no need to  
20 move at the current rapid pace.

21 Those involved in the development of the  
22 document need to fully understand current  
23 industry practices, as well as the myriad of  
24 state laws and regulations that impact this  
25 industry. This means more structured industry

1 input as well as getting all of you out into the  
2 field, out into the groves and packing houses to  
3 see firsthand how our industry operates.

4 Again, we appreciate the opportunity to  
5 appear before you today. We thank you very much  
6 for providing all of us the opportunity to  
7 participate in this particular session. We do  
8 urge you to get the industry more involved on a  
9 daily basis with this effort.

10 We have a number of industry people here  
11 that will speak either representing a different  
12 grower organization or individual representatives  
13 themselves over the next hour or so. So we look  
14 forward to hearing their input.

15 And, again, I thank you very much from all  
16 of us.

17 MS. ISAACS: Thank you, Mike.

18 I might add, Mike, that a couple of us  
19 dietitians here today -- Judy, do you want to  
20 raise your hand -- serve as very active members  
21 of the Florida-based partnerships and we do have  
22 most of our meetings at your office, of course.

23 Okay. Next, we'll have Mr. Bobby McKown.  
24 Did I get your name right?

25 MR. MCKOWN: That's correct.

1           MS. ISAACS: He's with Florida Citrus Mutual  
2 out of Lakeland, Florida.

3           MR. MCKOWN: Good afternoon, and welcome to  
4 each of you and thank you for the agencies and  
5 the representatives here today coming down to  
6 allow the opportunity for the various interests  
7 in Florida to give their viewpoint relative to  
8 the issue at hand.

9           My name is Bobby F. McKown, I'm executive  
10 vice president and CEO of Florida Citrus Mutual.  
11 Florida Citrus Mutual is a voluntary cooperative  
12 association whose active membership consists of  
13 11,676 citrus growers operating within the State  
14 of Florida.

15           The comments we're offering you today, we  
16 offer those, we believe that they are factual and  
17 we bring some points to you that we think you  
18 should give serious consideration as you do the  
19 further deliberation relative to the proposal at  
20 hand.

21           Florida Citrus Mutual generally supports  
22 existing federal and state initiatives geared  
23 toward increasing assurances of fruits and  
24 vegetables whether produced domestically or  
25 imported are safe. Florida Citrus Mutual has a

1 long history of working very closely with the  
2 Food and Drug Administration, the U.S. Department  
3 of Agriculture, IFAS, the Florida Department of  
4 Agriculture, the Florida Department of  
5 Environmental Protection, the United States  
6 Department of Environmental Protection, all to  
7 make sure that we have the world's safest and  
8 most abundant supply of affordable foods and  
9 particular with citrus and processed citrus  
10 products.

11 Citrus Mutual endorses the comments of  
12 Florida Citrus Packers, which you will hear  
13 today, the Florida Department of Citrus, the  
14 Florida Department of Agricultural Consumer  
15 Services, and the Florida Institute of Food and  
16 Agricultural Sciences.

17 Fresh Florida citrus is highly regarded  
18 throughout the world as a safe and reliable  
19 source of nutrition and plays a vital role in the  
20 health and the well-being of many of the less  
21 privileged countries and nations throughout this  
22 world.

23 Florida citrus growers are rightfully proud  
24 of their heritage, of global food and safety  
25 records. And that is a strong testimony for

1           their diligent efforts to continue in that  
2           tradition. Never in the history of the Florida  
3 citrus industry -- and I repeat again -- never in  
4 the history of the Florida citrus industry, has  
5 there been a case of food-borne illness as a  
6 result of the consumption of fresh Florida  
7 citrus.

8           And as an aside, we spend -- the growers  
9 are assessed in excess of \$12 million a year in  
10 order to provide continuous inspection at the  
11 receiving points, at the processing plants, at  
12 the packing houses, and all the way through the  
13 finished product that is shipped then to the  
14 consumers of these United States and throughout  
15 the world. \$12 million of continuous USDA  
16 inspection. And I say to you that we have that  
17 total safety net in place and we support that  
18 proposition.

19           Nevertheless, Florida Citrus Mutual strongly  
20 supports continuous inspection for all fresh and  
21 processed citrus, domestic, as well as imported.  
22 Frankly, that's not the case relative to imported  
23 products coming into this country whether it be  
24 processed or fresh.

25           Florida Citrus Mutual further believes that

1 vigilance is the key to maintaining the best  
2 reputation for safety among our global trading  
3 partners and stands ready to cooperate with state  
4 and federal efforts to ensure global food safety  
5 for all nations.

6 And we strongly urge that any guidance  
7 recommendations be based solely upon the most  
8 sound science. And if you do not have the  
9 science, that you don't rush to judgment to make  
10 that decision prior to having that science when  
11 there's no proven problem and the best available  
12 information about the growing, the harvesting,  
13 the handling, the processing, and packaging of  
14 any fruits and vegetables foreign or domestic.

15 In this regard, while many of the  
16 recommendations provided in the current guidance  
17 document are well-recognized industry practices,  
18 certain others are rather inappropriate for the  
19 following reasons:

20 Number one, as stated earlier, the naturally  
21 protective peeling on fresh citrus, coupled with  
22 current well-recognized industry practices aimed  
23 at sanitary growing, handling, and packaging have  
24 established the highest degree of food safety and  
25 set the standards in the world marketplace.

1           Two, in the production stages of citrus,  
2           there is very little likelihood of contamination  
3           from irrigation water because the industry  
4           standards of low volume under-tree microjet  
5           systems direct their spray away from the fruit  
6           and toward the surface of the root zone. These  
7           systems routinely require ozonation or  
8           chlorination to prevent clogging.

9           Furthermore, irrigation is only done on an  
10          as-needed basis, carefully monitored by state and  
11          local agencies, and growers are required to  
12          identify their sources of irrigation water and  
13          carefully monitor both quantity and quality of  
14          withdrawals as well as discharges. Any existing  
15          very small overhead irrigation is rapidly being  
16          phased out of our industry, in fact, it is almost  
17          non-existent today.

18          Any irrigation utilizing reclaimed water is  
19          carefully monitored for quality control by  
20          suppliers and must meet stringent state and  
21          federal guidelines. Further periodic testing of  
22          water sources for microbial contamination in the  
23          field is unwarranted, time consuming, and  
24          expensive.

25          Florida citrus growers in certain areas of

1 the state rely heavily on surface water from  
2 reservoirs, rivers, and stormwater retention  
3 basins for their irrigation needs, and these  
4 sources have been carefully monitored by the  
5 state water management districts, under the  
6 careful and watchful eye of the Department of  
7 Environmental Protection to ensure the continued  
8 safe use of these sources. These state agencies  
9 have carefully undertaken massive efforts to  
10 significantly enhance water quality in every  
11 single one of these systems.

12 The guidance documents suggest consideration  
13 be given to total protection for open water  
14 bodies. But this is impractical and unwarranted,  
15 in our opinion. Florida has established a  
16 classification system for surface and subsurface  
17 water bodies and a vast, oftentimes redundant,  
18 network of regulations serving to protect and  
19 enhance water quality.

20 This has served as a model for many other  
21 states throughout these United States. And, in  
22 fact, Florida was the lead state that moved in  
23 the development of water standards at which we  
24 operate today.

25 Whereas the guidance documents suggest

1           consideration be given in the decisions being  
2           made with regard to adjacent land use  
3       compatibility, the recommendation has merit where  
4           feasible. Florida's rapid population growth has  
5       taxed existing conditions that safe potable water  
6           and pressure has come to bear on growers in some  
7           areas to accept the lowest quality of water  
8           available for irrigation purposes.

9           Florida Citrus Mutual has played a key role  
10          in the development of rules and regulations to  
11       protect the integrity of the excellent reputation  
12          of the industry by requiring careful monitoring  
13       of treatment and delivery processes of reclaimed  
14       water whenever state agencies has encouraged or  
15       required its use.

16          In addition, we played a key role in the  
17       development of state and federal guidelines for  
18       sludge application for citrus and in the  
19       application of groves throughout the State of  
20       Florida where used.

21          Although the practice is very limited, we  
22       believe that key safety measures have been  
23       adopted to control application quantity and  
24       quality. We further believe that efforts within  
25       the citrus industry to regulate worker activities

1 in the grove aimed at safeguarding against  
2 pathogenic contamination of citrus would be  
3 unwarranted and misdirected. Worker activities  
4 in the grove are not entirely controllable and  
5 workers are sensitive to their privacy rights.  
6 And I can assure you that that is a very key  
7 element that is a management decision in working  
8 with employees today; you, too, must be very  
9 cognitive of their privacy rights.

10 Education is the best method to address the  
11 possibility of any contamination of packed and  
12 processed fruits and vegetables. Efforts in this  
13 respect are strongly supported by the state trade  
14 associations, IFAS, universities, the Department  
15 of Citrus, Florida Department of Agriculture,  
16 USDA and others.

17 In conclusion, I would say to the panel and  
18 those in the audience today, Florida Citrus  
19 Mutual firmly believes a threat of contamination  
20 of microbial hazard should be addressed for  
21 continued rigorous inspection efforts of all  
22 fresh and processed citrus at packing and  
23 processing plants and at port of entry.

24 As a practical matter, so much has been done  
25 up to this point to ensure food safety and

1 production agriculture that the most likely  
2 causes of contamination would be in open air  
3 marketplaces, improperly protected displays at  
4 retail locations, and failure on the part of  
5 consumers to exercise best judgment in the  
6 handling, storage, and preparation of the  
7 produce.

8 All the best efforts of the growers must be  
9 complemented by the best efforts of wholesalers,  
10 retailers, consumers, and Florida Citrus Mutual  
11 applauds the effort of federal and state agencies  
12 to ensure that growers' efforts are not in vain.

13 Because, frankly, we are doing those things  
14 today to make sure that the product we delivered  
15 wholesale into the distribution channel trade  
16 within this country and other countries, that we  
17 meet the very high standards. Because the basic  
18 premise of advertising and promoting Florida  
19 citrus of which the growers assess themselves  
20 approximately \$80 billion a year to promote our  
21 product, is the one hundred percent purity of our  
22 product.

23 And I can assure you that we have a greater  
24 desire to find and know the problem long before  
25 an agency of the government's going to tell us,

1           because that's the number one item that we  
2 protect, and that's the purity of our product and  
3 the wholesomeness it represents in the  
4 marketplace.

5           So in closing, Florida Citrus Mutual  
6 supports continuous inspection of all fresh and  
7 processed citrus, foreign and domestic, as well  
8 as all efforts aimed at the most likely sources  
9 of contamination as identified by sound  
10 scientific evidence, and the most sufficient  
11 means of controlling, including increased  
12 consumer awareness and education is our belief  
13 that that's what the major goal must be of any  
14 actions undertaken.

15           So I thank you for allowing me the  
16 opportunity to express these comments on behalf  
17 of Florida Citrus Mutual and its almost 12,000  
18 members, and we continue look forward to continue  
19 to work with you.

20           Thank you.

21           MS. ISAACS: Thank you, Mr. McKown.

22           Now we're going to hear from Dr. Chip  
23 Hinton. He's with the Florida Strawberry Growers  
24 Association in Plant City, Florida. And we  
25 always try to do food demos in cooperation with

1           Extension Service at the Strawberry Festival.  
2           Wonder why.

3                   DR. HINTON:  When we put this program  
4           together, I'm sure it was more than coincidental  
5           that in order to demonstrate the diversity of our  
6           commodities, that we had citrus, which is our  
7           largest fruit, followed by strawberries, which  
8           has half the acres that they have members.

9                   I appreciate this opportunity to address the  
10          issue of microbial safety of our produce.  I also  
11          want to assure you that every agriculturist in  
12          this room supports your objective and is open to  
13          your suggestions on how we can do an even better  
14          job of assuring food safety for our consuming  
15          public.

16                   You must believe that our comments relative  
17          to process are not meant to be obstructionist,  
18          but are aimed at reaching our mutual objective as  
19          painlessly as possible.

20                   Let me tell you a little about Florida  
21          Strawberries.  As mentioned, we are located in  
22          the Plant City, Dover area.  We have the  
23          interesting dichotomy of being a small family  
24          operation; our median size farm is 19 acres, our  
25          average size farm is 34 acres.  Total plastic

1 culture, one hundred percent drip irrigation.

2 At the same time, we're a \$120 million  
3 industry and we employ over 9,000 workers, field  
4 level. There's some advantages in having  
5 virtually 20 percent of the production of  
6 strawberries in a nation within a 20-mile radius.

7 One of them is that we are not only a small  
8 family, but we're a large community. And we work  
9 together and we can, in fact, get the entire  
10 community together under one roof in our  
11 educational process.

12 I want you to know that the Florida  
13 strawberry industry has tried to be ahead of the  
14 curve on food safety. Every year, we hold a two-  
15 day educational session; we've done this now for  
16 15 years, to address topics like field  
17 sanitation, in fact, that was the topic of our  
18 discussion this past summer, and that over  
19 80 percent of our growers attended that  
20 particular session.

21 Food safety is a regular item on our grower  
22 newsletters, both through our Florida Strawberry  
23 Growers Association and through our sister  
24 organization, FFVA, and our entire membership is  
25 enrolled in FFVA. We cooperated with voluntary

1 industry-wide efforts to develop GMPs for field  
2 level protection of produce, as Mike mentioned.

3 And we have an outstanding relationship and  
4 a mutual respect for both the Institute of Food  
5 and Agricultural Sciences, which co-sponsors our  
6 two-day session, and the Florida Department of  
7 Agricultural Services. We view them both as  
8 willing cooperators and outstanding resources to  
9 solve problems.

10 Within our system and our design, we  
11 recognize that with 9,000 workers, that's  
12 probably the most limiting practice that we have.

13 Our production occurs within 20 miles of our --  
14 of a pre-cooler; harvests are immediately cooled  
15 and they are, in fact, kept refrigerated, 34  
16 degrees, as long as they are within our control.

17 Our workers -- and I've been on virtually  
18 every farm that we have -- have a situation field  
19 sanitation that is regulated at the state level  
20 both in number of facilities and distance to  
21 facilities with potable water, hand-washing  
22 facilities and so forth. We have incorporated,  
23 through our WPS program, an addition of field  
24 sanitary systems this past year, and so we are  
25 really doing everything we can short of holding

1 people's hands to assure the necessity of good  
2 field sanitation.

3 I think one of the things that you may not  
4 have been totally aware of until today was that  
5 agriculture is already pretty well regulated.  
6 The perception is there's very little regulation  
7 of agriculture at the field level.

8 An extension agent in Hillsboro County once  
9 took a project of identifying agencies regulating  
10 agriculture and he provided a brief synopsis of  
11 the rules and permits required for each agency.  
12 The guide quickly grew to 1,080 pages.

13 We developed a case study with use in  
14 farming for the future to determine the impact of  
15 regulations on agriculture, and we sent out a  
16 questionnaire to those regulatory agencies that  
17 would have impact upon an agricultural facility.  
18 We contacted 46 regulatory agencies. Forty-six  
19 agencies. Many with multiple permits, several  
20 duplication services with other agencies, and  
21 most not realizing how each related to the other  
22 agencies.

23 Some of your guidance bullets address  
24 sources of irrigation water. In West Central  
25 Florida, virtually all of our production is

1           within a water use caution area. Both quantity  
2           and source are regulated and metered. Switching  
3           and moving permits is closely monitored and  
4           extremely difficult. As I mentioned, we're  
5           virtually a hundred percent drip irrigation. So  
6           most of our production water is used -- is ground  
7           water.

8                     One of the things I'd like for you to  
9           understand in your development of your  
10          regulations is, when you develop BMPs, so many of  
11          them interrelate and overlay. I'm going to give  
12          you a little anecdote, a true anecdote, that has  
13          occurred to us over the past several years.

14                    As I mentioned, we're a hundred percent drip  
15          irrigation. There were a number of reasons why  
16          we made that conversion. First of all, we  
17          determined that we could save roughly 40 percent  
18          of our water, and we were under some pressure to  
19          reduce water usage in our production of  
20          strawberries.

21                    One of the things we quickly discovered was  
22          that we would also be able to fertigate through  
23          the system which, in fact, reduced our fertilizer  
24          use by roughly 45 percent by putting the  
25          fertilizer right at the root zone. That made not

1           only the water quantity, but the water quality  
2           people happy.

3           When you're putting water at the root zone,  
4           you don't get the plant wet, which reduced our  
5           incidence of disease. As we mentioned, water is  
6           the carrier. That reduced our pesticide use by  
7           15 to 20 percent.

8           Now, when we had an increased harvest as a  
9           result of that -- we increased our harvest by  
10          25 percent as a result of that, and our  
11          marketable fruit, which made everything much more  
12          productive.

13          So here we are, we've reduced water use by  
14          roughly 40 percent, fertility requirements 35 to  
15          40 percent, protected our water quality, reduced  
16          disease, increased marketable fruit by  
17          20 percent, and reducing our pesticide use by 15  
18          to 20 percent.

19          Then in 1994, the month of February, we  
20          didn't get a drop of rain. And Canada, which has  
21          an MRL of 20 percent of that of the U.S. on  
22          Captan, started rejecting our strawberries. The  
23          problem was that with our dry plants and without  
24          overhead irrigation, we didn't have anything to  
25          rinse off the Captan in the process.

1           Now we solved the immediate problem by  
2           cranking up our overhead irrigation, which  
3           removed about eight or nine percent of the  
4           residues, and we followed up with grower  
5           education programs and we haven't had a problem  
6           since.

7           I mention that because that's the one  
8           incidence that we've had with FDA, and our one  
9           black eye of involvement in 1994. And I'm  
10          bearing my soul just so that you understand that,  
11          number one, that when you have a best management  
12          practice, it's a moving target, and while we  
13          consider it to be moving in one direction, it  
14          moves both ways.

15          When we use overhead irrigation to  
16          accomplish what I consider a trade issue more  
17          than a food safety issue, we will have to have  
18          more water than what we would need under drip  
19          irrigation. This will affect our fertility, it  
20          will affect disease and everything else. So when  
21          you make a regulation, when you make a  
22          recommendation, you need to understand that there  
23          may be unanticipated results.

24          As an addendum to that anecdote, I would  
25          like to say that Martha put on another hat and

1 she told us that in order to maintain her  
2 credibility -- and we encourage her to do so --  
3 that we would be under a lot of scrutiny the  
4 following year. Every one of our growers was  
5 inspected the following year. We had zero  
6 violations.

7 I think that that probably is a testimony to  
8 the fact that we try to do what is best for our  
9 community. BMPs are not isolated; they're  
10 convoluted, interrelated, and complex. They may  
11 be influenced by other BMPs and missions, and  
12 sometimes diverse direction occurs when they are  
13 compromised by other competing missions.

14 You need to know all the players, the other  
15 missions, and to minimize any anticipated  
16 negative results, you need to think ahead. It's  
17 desirable to identify impacts before they become  
18 recommendations which may become regulations.

19 You say that you're talking about  
20 recommendations and guidance, and I believe you.

21 I think in my 25 years of similar jobs such as  
22 I'm working right now, I have found one thing to  
23 be true, and that is that once your  
24 recommendations are made, it's really out of your  
25 hands. You don't have control if they become

1 regulations by de facto or by outside influence.

2 So if you cannot resolve the problem after  
3 it leaves your hands, your emphasis must be  
4 before it leaves your hands. And you can  
5 accomplish a whole lot, first of all, by making  
6 sure that what you have is based on science,  
7 based on practical information and, for God's  
8 sake, not on giving us something to shoot for.

9 I wish I had a nickel for every time a  
10 regulator said, this will not be binding, but we  
11 want to give you something five years down the  
12 road to shoot for. Because no one can tell your  
13 business better than you, and no one can tell  
14 whether that target is a realistic target.

15 You need to be aware of the tremendous  
16 diversity in production practices among the  
17 numerous commodities you are addressing. It may  
18 be reasonable for my industry to trace back  
19 produce beyond the shipper, beyond the grower, to  
20 the individual worker in the field. And we can  
21 do that; we can actually tell you what worker  
22 picked a flat of berries. I say that because a  
23 lot of our people are doing it because we want to  
24 maintain our own quality control.

25 But, secondly, you need to understand that

1 most of our berries are broken up somewhere  
2 before they get to the consumer, and we have no  
3 control over that. The train of information is  
4 lost at that period.

5 There was some discussion here relative to  
6 collateral damage. The incidents that we have  
7 had recently relative to strawberries, incidents  
8 of cyclospora and E. Coli both occurred when we  
9 were not in production. That's probably the only  
10 safe way to say that you can be assured that  
11 things could not be traced back to you; we were  
12 not producing at that time.

13 And I can't speak for my friends in  
14 California, but I know them well, and I have been  
15 assured from some very reasonable sources that  
16 they were not the source of that problem as well.

17 We lost some money as a result of that  
18 situation, even though we weren't in production,  
19 because people thought of strawberries in a  
20 different way than they had prior to that  
21 information. I know for a fact that California  
22 lost over \$40 million on the second incident  
23 alone, and they were not at fault.

24 We have the same ultimate objective and that  
25 is public health. Please move slowly and

1 carefully and minimize the negative impacts on  
2 growers.

3 A diet that is a cornucopia of fruits and  
4 vegetables is in the best interest of the  
5 consumer. It's important that one of your  
6 unanticipated impacts not be the reduction of our  
7 domestic supply of fruits and vegetables.

8 A reduction of supply of produce will  
9 influence the cost to the consumer, a reduction  
10 in domestic supply of produce will influence  
11 public health.

12 Thank you.

13 MS. ISAACS: Thank you, Dr. Hinton. Next  
14 we'll hear from Dr. Mohammed Ismail. I hope I'm  
15 not fracturing your name. Was I close?

16 DR. ISMAIL: Very good.

17 MS. ISAACS: What's the proper -- tell me  
18 what your pronunciation is.

19 DR. ISMAIL: It's pronounced in many  
20 different ways.

21 MS. ISAACS: All right. I'll say Ismail  
22 then. Okay?

23 DR. ISMAIL: Ismail.

24 MS. ISAACS: Ismail. Dr. Ismail is with the  
25 Florida Department of Citrus out of Lake Alfred,

1 Florida.

2 DR. ISMAIL: Thank you, Madam Chairman,  
3 distinguished members of the head table, ladies  
4 and gentlemen in the audience.

5 It is true, my name is Mohamed Ismail. I  
6 work for the Florida Department of Citrus and  
7 serve as the Scientific Research Director for  
8 fresh fruit.

9 Our staff is located at the Citrus Research  
10 & Education Center at the University of Florida,  
11 Lake Alfred. The Scientific Research Department  
12 was established in 1941 and, believe it or not,  
13 by an act of the Florida legislature, and we were  
14 moved to Lake Alfred about 50 years ago.

15 I have a Ph.D. in horticulture and I  
16 specialize in post-harvest citrus technology,  
17 including packing house operations and quarantine  
18 treatments.

19 The department staff includes engineers, a  
20 plant pathologist, plant physiologists, chemists,  
21 and food scientists and microbiologists. The  
22 Florida Citrus Commission and the Florida  
23 Department of Citrus, as a unit, is a government  
24 agency established in 1935 by an act of the  
25 Florida legislature as a result of an industry

1 request.

2 The act called the Florida Citrus Code  
3 states -- and it is ironic in a way that how the  
4 words are put together -- that the commission,  
5 department was set up to protect and enhance the  
6 quality and reputation of Florida citrus fruit  
7 and processed citrus products in both domestic  
8 and foreign markets.

9 It also acts to protect the health and  
10 welfare and stabilize and protect the citrus  
11 industry of the state which, in turn, helps  
12 promote the general welfare and social and  
13 political economy of the state.

14 The Florida Citrus Commission, Department of  
15 Citrus is financed by an excise tax placed on  
16 each box of citrus moved through commercial  
17 channels. The Florida Citrus Code stipulates the  
18 maximum tax and how funds generated are  
19 allocated. The portion of that tax is deposited  
20 in the state's general revenue fund to offset  
21 administrative costs.

22 We do support local, state, and federal  
23 efforts to enhance food safety and improve the  
24 quality of our food supply. We also believe in  
25 the importance of a healthy diet, rich in fresh

1 fruits and vegetables as part of a healthy  
2 lifestyle, and citrus does figure prominently in  
3 the diet as a good source of many vitamins and  
4 minerals.

5 The edible portion of the fruit, of the  
6 citrus fruit, is naturally protected by the peel  
7 against microbial contaminants, and it is also  
8 further protected by a natural abundance of  
9 citric acid and other organic acids creating a  
10 low pH environment, ranging between 3.2 in  
11 grapefruit, to 4.0 in oranges, which can deter a  
12 large number of disease causing organisms.

13 Nevertheless, we support the implementation  
14 of sanitary measures and guidelines which would  
15 strengthen and enhance the safety of fresh citrus  
16 and fresh citrus juice.

17 As a state agency, the Florida Department of  
18 Citrus has placed a great deal of emphasis on  
19 education through publication of fact sheets,  
20 passive manuals and workshops. We have just  
21 released two fact sheets on the microorganisms on  
22 food and beverage and on reducing the risk of  
23 microbial contamination of fresh citrus fruit.

24 We also collaborated on preparation of a  
25 model of Hazard Analysis Critical Control Point

1 for the fresh squeezed juice industry. And in  
2 1996 and 1997, we organized workshops on  
3 microbiologic safety of fresh-squeezed citrus  
4 juices.

5 So we definitely place a great deal on the  
6 education side informing our constituents of the  
7 best science and the best research results and on  
8 the importance of education.

9 We also have a very active research program  
10 as we are the scientific research department of  
11 the Florida Department of Citrus. We conduct  
12 research on fresh fruit, on fresh-cut, and fresh-  
13 squeezed citrus juice. Our research activities  
14 include challenge studies on peeled, fresh-cut  
15 oranges using Salmonella, E. Coli,  
16 staphylococcus, and Listeria.

17 We are also studying microbial contamination  
18 of fresh citrus fruit and are developing physical  
19 and chemical methods for surface disinfection.  
20 Our research staff will continue to survey the  
21 microflora of citrus fruit in the grove, the  
22 packing house, and in fresh-squeezed juice  
23 plants. We plan to also conduct challenge  
24 studies and develop effective preventative  
25 measures and food surface disinfection methods at

1 various points of production and packing and  
2 distribution.

3 It is very important to recognize the  
4 potential for contamination of fresh fruit and  
5 vegetables that can occur in retail and wholesale  
6 outlets, and, indeed, in the hands of the  
7 consumer. These are areas of utmost importance  
8 which needs to be studied in order to develop  
9 sound and objective protective sanitary measures  
10 and practices. And these are areas that I do not  
11 see in the guidance document; what happens at  
12 retail, wholesale, and in the hands of the  
13 consumer.

14 Florida produces approximately 250 million  
15 boxes, which is approximately 10.2 million metric  
16 tons, of oranges, and about 55 million boxes of  
17 grapefruit, which is approximately 2.2 million  
18 metric tons. While only six percent of our  
19 oranges are shipped fresh, most of the  
20 tangerines, tangelos, and grapefruit are shipped  
21 fresh. When recommending guidelines, we must not  
22 lose sight of the intended use of a given crop.  
23 An orange crop harvested for processing, which  
24 includes a potential kill step, can be handled in  
25 a manner different from oranges or other citrus

1 fruit picked for the fresh fruit market.

2 The Florida fresh citrus packing industry  
3 benefits not only from the natural protection of  
4 a divinely designed fruit, a citrus fruit, but  
5 also from certain common practices in our groves  
6 and citrus packing house operations.

7 Among these -- and I might be a little bit  
8 repetitious here -- the extensive use of under-  
9 tree irrigation, the microjet systems which  
10 minimizes exposure of fruit to irrigation water,  
11 fruit trenching at the packing house with  
12 chlorinated and ozonated water with automated  
13 control of pH and chlorine concentrations, the  
14 use of automated systems to clean and sanitize  
15 harvesting bins, also the increased use of  
16 plastic bins that minimize fruit damage and aid  
17 with bin cleanliness. The use of sanitizers such  
18 as chlorine and quaternary ammonium, compounds to  
19 clean degreening and storage room and packing  
20 line equipment. The increased use of high  
21 pressure washers to improve fruit cleanliness and  
22 the use of automated grading and packing systems  
23 to minimize human contact. And, finally, the  
24 increased use of refrigerated storage and  
25 refrigerated transport.

1           Finally, I would like to mention that each  
2 commodity is unique in the way it is grown,  
3 handled, shipped, and ultimately consumed. To  
4 recommend implementation of one set of  
5 regulations to all fruits and vegetables, in our  
6 opinion, is inappropriate.

7           Thank you.

8           MS. ISAACS: Thank you, Dr. Ismail. And now  
9 we will hear from Dr. Larry Beasley, who I think  
10 we've already heard from earlier today, but maybe  
11 a little more extensively.

12           Dr. Beasley is with A. Duda & Sons,  
13 Incorporated back in the Central Florida area  
14 from Oviedo, Florida.

15           DR. BEASLEY: Central Florida, South  
16 Florida, Texas, Arizona, and California. And I  
17 get to visit all of those. I haven't been home  
18 in two weeks, and I will get home next week,  
19 along about Wednesday.

20           There's one thing I'd like to thank all of  
21 you for, and that means you in the group here, as  
22 well as the medical association and the  
23 universities. During my lifetime, my life  
24 expectancy has increased by several years, and I  
25 found out this morning that it's due in part to

I

1 the consumption of fresh fruit and vegetables.

2 plan on continuing to eat them.

3 In addition to that, I'd like to also point  
4 out to you -- and I think the point's already  
5 been made, but I'd like to reiterate -- that  
6 first and foremost, as a producer of fresh fruit  
7 and vegetables, we have a responsibility to the  
8 consumer, and if we were to shirk that  
9 responsibility, we would quickly be out of  
10 business. Food safety is first and foremost in  
11 our interest as businessmen.

12 I think we have already implemented various  
13 and sundry things. We developed a guidance  
14 document for the industry on our own and put our  
15 own efforts into doing that. We have implemented  
16 those. We have very, very diverse conditions  
17 under which we produce the fresh fruit and  
18 vegetables here in the United States.

19 We have been talking about the possibility  
20 of drip irrigation, microjet irrigation, Chip  
21 talked about furrough or drip irrigation, citrus  
22 could be on seepage irrigation.

23 In the vegetable community out here west of  
24 town, we literally manipulate the water table  
25 just by raising it to a level each crop needs.

1 The water doesn't go over the top of the crop; we  
2 put it in the root zone where it needs to be.

3 Now, how do we do that? We do that by  
4 raising our water table out of surface water  
5 canals. And someone suggested that we perhaps  
6 cover that surface water canal? I know I'm being  
7 facetious, but probably the pond that we're  
8 watering out of encompasses thousands and  
9 thousands of square miles of surface water. It's  
10 impossible to do.

11 I don't want to stand up here and pick apart  
12 your efforts, but I do want to encourage you that  
13 this is, as Chip pointed out, the most opportune  
14 moment that you're going to have to impact these  
15 guidance documents that will continue to affect  
16 us long after your names are forgotten.

17 So please move forward slowly and consider  
18 very carefully the very diverse industry that  
19 you're impacting because we are regulated,  
20 whether it's by the government or whether it's by  
21 the buyer that I mentioned earlier this morning.

22 And I'll go through a few of these. On the  
23 irrigation water; this is one that causes me most  
24 concern. Evaluation of the runoff. Our water is  
25 runoff, all of it. We gather that water and

1 reuse it, and have to by permit. Tail water  
2 runoff is recirculated, it is open to the  
3 environment, which you might also consider is  
4 inhabited by endangered species, and they tend to  
5 like the farm; they don't like cities. And we  
6 can't regulate where they're going to use the  
7 bathroom, whether they're aquatic or whether  
8 they're birds or whether they're mammals running  
9 around on the ground. I can share your concern;  
10 I hope you can share my frustration.

11 Spray water. We may be seven miles from the  
12 closest utility line, so there's not a pump  
13 there. We're pumping water right out of the  
14 canals, and that is a common operation.

15 The reclaimed water that has been mentioned.  
16 The reclaimed water -- and I'm going to go ahead  
17 and talk about sludge, municipal sludge at the  
18 same time -- is very, very closely managed by  
19 other federal and state and local regulations,  
20 and if they aren't meeting their standards, our  
21 use of it is just improper, and it is used in  
22 certain small limited areas, but it is used. So  
23 I don't want to downplay the idea that municipal  
24 sludge is used, or downplay that reclaimed water  
25 is used because it is, and will continue to be.

1 But it's under very close guidelines already.

2 Processing water. I found it very unique  
3 that you use potable water there -- use that  
4 term. That sounds good and looks good on paper,  
5 but there may not be a source of potable water of  
6 sufficient quantity to do all the things that we  
7 do. And I'm talking about everything from  
8 cleaning equipment to cleaning the packing house,  
9 washing the produce, as you intended it to mean,  
10 to irrigation, not to mention the makeup of water  
11 that we use for spraying.

12 Wash water, the addition of sanitizers. We  
13 already are doing that, but I'd like to  
14 perhaps -- it may be unnecessary, but to -- since  
15 I didn't see some of you on the field trip a year  
16 ago, two years ago this coming January, I'd like  
17 to educate you a little bit with regard to water  
18 and sanitation, because I think you're thinking  
19 about a packing house, and I'm thinking about the  
20 packing house may be the field. The entire  
21 field. How do I sanitize 40,000 acres? That's  
22 just ours; not to mention my neighbor's.

23 We use chlorine in the water that we wash  
24 the bugs off of the celery or the leaves as we  
25 cut it and pack it in the field. That's one

1 method of packing those commodities. They may be  
2 harvested in bulk and brought to a packing house  
3 and treated as you are probably thinking, at a  
4 packing house. But I wouldn't say that the  
5 majority of the acreage in the United States  
6 comes to the packing house unpacked.

7 So chlorination or addition of sanitizers is  
8 something that is done in a limited way. It may  
9 not get washed at all. How would you overcome  
10 the dilemma that I'm certain -- and I haven't  
11 seen a farm in about three weeks, at least not  
12 one that we have; I did try to take some  
13 vacation -- but we have we had three and a half  
14 inches of rain on the west coast yesterday and  
15 you talk to me about clean boxes and equipment?  
16 I'm certain it was fairly dirty, and I am certain  
17 that if we didn't get in a crop out of the field,  
18 it would be lost.

19 We cannot assure pristine, clean operating  
20 conditions because we operate under God's  
21 environment, subject to everything that gets  
22 dumped on us. And it could be muddy. We clean  
23 the produce, we clean the equipment, and we  
24 provide clean boxes.

25 Soil types can impact this tremendously. If

1           you have sand, you can get it off relatively  
2           easy; if you have muck, you can get most of it  
3           off, but the residue looks worse when it's left  
4           on there because of the cold. And if you have  
5           clay, God forbid, it sort of collects water. So  
6           the more water you put on it, the muddier and  
7           messier it gets. So I just want to caution you  
8           about some of this.

9                     The temperature differential. If we  
10           increase the temperature, we will have more  
11           diseases on that produce by the time it gets to  
12           the consumer than we will if we chill it very  
13           quickly. That is not practical. It may be in  
14           the lab, but it is not in the real world.

15                    Worker training. We have OSHA standards, we  
16           have worker protection standards, we provide hand  
17           washing facilities to them, we have -- we have  
18           the bathrooms in the field, we have training  
19           programs for hygiene, the smoking, the heating,  
20           the air, all of this, depending on where you work  
21           and what you do, we have training programs out  
22           there that are available. And I'm not talking  
23           about A. Duda & Sons, they're available to all  
24           the growers that want to use it and want to go  
25           and train their people. And I think the -- most

1 of us are implementing those ideas already.

2 Maintenance and sanitation I just touched on  
3 a while ago. I don't know how you keep  
4 everything pristine clean in a field condition.

5 Animal control. I would love to be able to  
6 get some of them out of there. Deer eats the  
7 crop. And a lot of others cause serious problems  
8 that I can't do. But I am regulated by other  
9 government agencies that says leave them alone.

10 And I want to point out also that I am  
11 disappointed that we have a guide to minimize  
12 microbial food safety hazards for fresh fruit and  
13 vegetables, it's open-ended. Where did it begin  
14 and end? It began out there when we prepared the  
15 land and it ended when we put it on the truck.  
16 That's all I have control over.

17 But as I read the newspaper and as I listen  
18 to people who can talk about things that I don't  
19 know enough -- don't understand; I'm not an  
20 epidemiologist, I find a lot of it is traced back  
21 by scientists and experts in the field through  
22 epidemiology to cross-contamination, and I find  
23 that it happens somewhere other than the farm.

24 I understand your concern; I understand you  
25 have to address the issues, but I don't see where

1 we've talked about trucking, I don't see where  
2 we've talked about warehousing, I don't see where  
3 we've talked about that grocery store chain or  
4 the consumer coming by, as someone said and I  
5 found amusing, fondling my produce. God only  
6 knows whether they sneezed or went to the  
7 bathroom before they did it.

8 Positive lot identification is something  
9 that's impossible. It's a cost. I hate to put  
10 it that way, but I would ask the buyer again,  
11 what are you going to pay me to put it on there?  
12 We operate maybe three to five percent return on  
13 our investment. Most of you wouldn't invest your  
14 money in the stock market if that was all you  
15 were getting, or any kind of municipal funds or  
16 anything else. You pull it out of CDs because  
17 you can't get any better than we farmers get, and  
18 I do the same thing.

19 But when you pass this on to me, I can't  
20 pass it on to him. It just eats into the profit.  
21 We were talking about being profitable here  
22 earlier like it is possible. It gets harder  
23 every year. I've been at it for 25 years and  
24 every year it gets harder than the previous year.

25 Chip used the term, and I liked his term,

1 perhaps if I had avoided it, I wouldn't have had  
2 my outburst this morning about guidance.  
3 De facto regulation. That is exactly what this  
4 will ultimately end up being.

5 And I'll finalize by saying, this is -- and  
6 I'll repeat it -- this is your only chance to  
7 have any impact on the GAPS that you're going to  
8 develop, and once it's out of your hands, by  
9 de facto regulation, I'll live with it for 11  
10 more years.

11 MS. ISAACS: Thank you, Dr. Beasley.

12 I should have mentioned earlier, if you do  
13 have written testimony, to please leave at least  
14 one copy with us at the head table.

15 And now we'll hear from Mr. Dan Riche with  
16 Riverfront Groves, Vero Beach, Florida.

17 MR. RICHE: Thank you.

18 When I got the call from Richard Kinney,  
19 (phonetic) the executive vice president of  
20 Florida Citrus Packers, I got the call and he was  
21 being very complimentary and asking me about my  
22 children and taking a genuine interest in me, and  
23 I pulled a chapter out of Dale Carnegie's book,  
24 and I'm thinking, all right, Richard, what do you  
25 want, because I knew there was a reason for this.

1           He told me a little bit about what this was  
2           about today, and I'm a farmer, and I'm a packer,  
3           I'm a marketer, shipper; I'm not a PR guy, I'm  
4           not a very good public speaker, which you'll soon  
5           see. But I also know that Richard has a wife  
6           that I knew in college, and she has, as I think  
7           Mohammed said, divinely -- what was it,  
8           Mohammed -- divinely -- she has a divinely  
9           developed memory, among other things. But a  
10          divinely developed memory of my college days, and  
11          I knew Richard had the opportunity to blackmail  
12          me, so I had to agree.

13                 Also, I'm surprised he asked me. Last time  
14                 he asked me to do this, we went to a  
15                 congressional delegation and spoke to the group  
16                 about NAFTA, and I was sitting there with my time  
17                 and I'm making good eye contact with everybody,  
18                 all the important things of public speaking, and  
19                 I was getting a little cocky. As I looked down  
20                 the line, I noticed one of the congressmen was  
21                 sound asleep, so that was a real blow to my ego  
22                 and I swore I would never do this again, but here  
23                 I am.

24                 My name is Dan Riche, I am the President of  
25                 Riverfront Groves. We are a grower, packer,

1 shipper, and marketer of fresh citrus. We employ  
2 about 200 people from the field right on through  
3 the packing house.

4 One of my many non-paying jobs right now  
5 also is I serve as president of the Indian River  
6 Citrus League, which is a trade association of  
7 1,600 grower members stretching from Palm Beach  
8 to Cocoa Beach. We have approximately -- in the  
9 State of Florida, we have approximately a hundred  
10 packing houses that employ plus or minus 15,000  
11 people.

12 As we said -- one of the benefits of going  
13 last is a lot has been said, also. Certainly,  
14 the goal of food safety is a worthy cause;  
15 there's no argument about that. Our company, we  
16 ship to both domestic and export markets; as a  
17 matter of fact, 65 to 70 percent of our product  
18 goes offshore into the international market,  
19 purely because that's where the higher FOB's can  
20 be derived and, right now, as you probably are  
21 aware, in the last four or five years, citrus has  
22 been in a very difficult state economically.

23 Under GATT -- and I've been involved with  
24 Richard and Bobby and some of the others  
25 regarding the opportunity to expand our

1 markets -- and under GATT, we're dealing with  
2 Australia or Mexico or China, trying to gain  
3 access, and all of the discussion of access  
4 pretty much the preclusion of our fruit, has  
5 always been science based.

6 This situation here, I believe, could cause  
7 our trading partners to react negatively if we  
8 eventually endorse and publish this type of a  
9 document. Even if it's guidance -- and I'm going  
10 to echo several of the former speakers -- even if  
11 it's guidance, it's publicity and it's perception  
12 that makes a difference.

13 The best example that I could think of in  
14 that regard was the Alar scare in Korea several  
15 years ago; the Alar and apple industry in  
16 Washington. Well, Alar is not labeled for  
17 citrus; it has no use at all for citrus. Yet the  
18 Korean press picked up and stated that Alar was  
19 applied to citrus and we lost our market over  
20 there and have yet to recover the same volumes.

21 Again, it's perception, it's publicity.  
22 These are the type of things that can come out of  
23 these type of guidance regulations -- I'll call  
24 them regulations because I believe that that's  
25 truly what they do become. The damage was done;

1           there's nothing we could do about it. We lost  
2           our market share, we lost a lot of money.

3           Another example of an experience that I  
4           personally had was the United Kingdom market on  
5           citrus. Sansbury is a very large importer in the  
6           UK. Sansbury came through Florida and said they  
7           wanted to import citrus direct; they no longer  
8           wanted to go through an intermediate handler.  
9           They came to several packing houses, they came  
10          with a set of documents that they were going to  
11          say -- that they indicated that were going to be  
12          imposed upon us with food safety.

13          They weren't unreasonable, totally; some  
14          were, and they realized that. And the fact of  
15          the matter is, though, they went back, they --  
16          they indicated it was just guidance. They went  
17          back, and then following that guidance discussion  
18          came this very long legal document that they  
19          required us to sign stating that we would adhere  
20          to all those.

21          My question back to them was, well, you came  
22          and you said this was guidance and we were  
23          supposed to make every effort to adhere to this  
24          guidance. Well, it became regulation and it  
25          became very difficult to the point that Sanisbury

1 didn't get any fruit direct for a while because  
2 they had to abandon that because we couldn't  
3 adhere to those requirements.

4 The quote was made earlier that the  
5 agricultural industry is a very complex one, and  
6 it came from -- I'm not sure, I think maybe  
7 Terry. That is very true. There is no broad-  
8 brush approach that's applicable to our industry.

9 Fresh citrus, as Bobby and Mohammed said, is  
10 an extremely safe product. We have no  
11 documentation of any problem with our product  
12 with food safety. And as some of the other  
13 speakers said also, we are very apprehensive at  
14 the speed at which this is progressing.

15 I find it a little interesting about the  
16 timing of this also. The President's Initiative  
17 came out October 2nd. I find it interesting that  
18 the timing of that was just prior to the fast  
19 track vote, and the possibility that this could  
20 have been a preemptive strike against the fast  
21 track opposition, which certainly might use food  
22 safety as a battle cry.

23 Food safety is an absolute objective of our  
24 industry. Hudson Foods is an example of why we  
25 cannot take risks with our product. Hudson

1 Foods, to my knowledge, is no longer in business;  
2 if they are in business, they're not anywhere  
3 near what they were.

4 There is no compromise on food safety in my  
5 organization, and I know there is no food safety  
6 compromise in our industry.

7 I mentioned the apple industry and Alar,  
8 there is a lot of people went out of business;  
9 there was really no basis for that claim, as you  
10 know. The recourse that we, as growers, have or  
11 they, as growers, had, they filed in the State of  
12 Colorado, yeah, they probably won, but the damage  
13 was done. The horse was out of the barn at that  
14 point. The door was shut, the horse was out of  
15 the barn. The damage was done, the economic  
16 damage was done. So perception, again, in  
17 reality.

18 Someone also said, it's difficult -- it  
19 would be difficult to take this type of language  
20 and turn it into requirement. Well, I can tell  
21 you that is not true. It's not difficult for the  
22 buyer to take recommendations or guidance and  
23 turn them into requirements. And in our industry  
24 any more, the supply side of the equation is much  
25 more fractualized than the procurement, buying

1 side. And it doesn't take much intelligence to  
2 know who's got the strength and who doesn't.

3 So in our case, if this became a requirement  
4 of our buyer, we would have to meet these, and I  
5 readily believe that this will be something that  
6 they will be looking at.

7 Another, you know, words like -- on that  
8 subject -- words like minimize and avoid where  
9 feasible. They just get blocked out and they  
10 become requirements. I know the intention is  
11 good and have all due respect for everyone who  
12 drafted this, but I think this is the time and  
13 this is why you have this forum for this type of  
14 dialogue.

15 Perception, again. I'll take a minute to  
16 talk about perception and -- in another sense.  
17 Irradiation and cold treatment are two viable  
18 ways for us to move fruit to Japan, yet the  
19 customers won't take it. Irradiation for obvious  
20 reasons, and cold treatment for other reasons  
21 that are not founded. But it's the perception  
22 that the two of those do not work that we do not  
23 ship to Japan under those means of protocol.  
24 Again, it's a reverse, but it's perception.

25 I really think what it boils down to is what

1           you are intending to achieve and what you will  
2           achieve are not the same. As I mentioned  
3           earlier, also, we also have constant challenges  
4           to gain access to markets. Currently, we're  
5           dealing with China, Mexico, and Australia; this  
6           would definitely be some new information for them  
7           to latch on to to continue to put some non-tariff  
8           trade barriers in front of us.

9           On the public side, the public perception in  
10          our own country arguably could cause a concern;  
11          it could cause our population to move away from  
12          fruits and vegetables due to a fear, an unfounded  
13          fear. This could defeat all of our recent  
14          objectives to encourage a healthy diet, including  
15          more fruits and vegetables.

16          An example of that would be the Chilean  
17          grape scare several years ago, where we had one  
18          or two grapes that were tainted. And I would  
19          venture to say, just like the strawberry industry  
20          was affected dramatically by the recent outbreak  
21          from the Mexican strawberries, that the  
22          Chilean -- or the domestic grape business was  
23          severely impacted by that. And there's a lot  
24          of -- a lot of concern regarding that.

25          In closure, I do believe in my heart that in

1 your heart that you're doing the right thing, and  
2 I believe it's a noble cause. Our industry  
3 specifically is fighting for survival. The  
4 economics of our business the last few years have  
5 been extremely difficult. We don't need this  
6 type of curve ball thrown at us at this state in  
7 time.

8 I would respectfully request that you  
9 consider slowing down the process. I understand  
10 fully the time line you've been presented by the  
11 President, but I also understand that time lines  
12 have come and gone many, many times before this  
13 one, and I would request that you -- you request  
14 an extension, if necessary, and please involve  
15 the portion of the USDA with the FAS and how this  
16 will affect us on the export side of our market,  
17 because I can tell you, the citrus industry,  
18 fresh citrus industry, would not be surviving  
19 with the economic state we have if we didn't have  
20 that one glimmer of hope that we have, and that's  
21 the export.

22 There's too many questions at this time and  
23 too many possible challenges that could be thrown  
24 at our feet. Again, I know you believe in your  
25 cause of guidance and I respect that mission, but

1 I do believe, in closure, that the impact will go  
2 way beyond your intent.

3 Thank you again for your time.

4 MS. ISAACS: Thank you, Mr. Riche. And now  
5 we'll hear from Mr. Wes Roan with Six L's Packing  
6 Company, Incorporated, Immokalee, Florida.

7 MR. ROAN: Thank you very much for the  
8 opportunity to be here and welcome everybody to  
9 sunny Florida, at least it is today. It wasn't  
10 yesterday, but it is today.

11 Again, my name is Wes Roan. I'm the  
12 director for research and development in  
13 vegetable production for Six L's Packing Company.  
14 We're located in Immokalee, Florida. We're a  
15 fresh market vegetable producer, specializing in  
16 tomato and pepper production, packing and sales.  
17 We're a corporate family farming operation; we  
18 farm in Florida, Georgia, South Carolina,  
19 Virginia, and Pennsylvania.

20 Recent impact of microbiological  
21 contamination of imported agricultural product  
22 seems to created a sense of doubt in the minds of  
23 the current administration and some consumers as  
24 to the reliable health benefits of fresh fruits  
25 and vegetables in the American diet. The

1 benefits of five servings a day of fresh American  
2 grown fruits and vegetables will always far  
3 outweigh the risks of potential food-borne  
4 illness.

a

5 The quality and safety of our products plays  
6 a major role in our ability to be profitable in  
7 competitive global marketplace. Microbiological  
8 food safety issues and best management practices  
9 to minimize risks of that nature have been and  
10 will continue to be a management strategy for the  
11 success of our company.

12 Some of the concepts we currently  
13 incorporate into our production and packing  
14 procedures for the mitigation of microbiological  
15 contamination include field -- production field  
16 sanitation facilities for harvesters and  
17 laborers, chlorination of field packing and dump  
18 tank equipment, selection of commercially  
19 produced fertilizer products, the use of drip  
20 fertigation technologies, and the use of plant  
21 disease specific crop protection chemicals.

22 A lot of these issues we've talked about, a  
23 lot of the speakers have reiterated them, and  
24 I'll probably say a lot of the same things. But  
25 one of the issues that we face in the field in

1 the production scenario is the availability of  
2 water and the limitations put on us for the  
3 amount of water we can use and, in some  
4 instances, the water quality.

5 We have lots of different water sources,  
6 sometimes many different sources on the same  
7 farm, depending on the location of the land,  
8 whether it's owned or rented; it might be surface  
9 water, it might be well water that's pumped from  
10 the ground and pumped into a pond which then is  
11 then pumped to the field because we don't have  
12 access through whatever limitations to pump  
13 directly from the well to the field, so we have  
14 to pump over the middle of the night to gain the  
15 volume of water we need and pump it into a pond,  
16 and then, in daylight hours, when the crop needs  
17 the water, pump it through the systems that we  
18 have, primarily drip irrigation in these  
19 instances.

20 Also, others have talked about animals and  
21 the control of circumstances that would lead to  
22 these types of contamination. Well, animal  
23 control is impossible. Everybody knows that  
24 there are rats and mice and raccoons and deer and  
25 pigs, and I don't care how large your fence is or

1           how electrically charged it is, it doesn't keep  
2           them out. You know, you can go out in the field  
3           and be looking at your crop and you'll find birds  
4           nesting in the crop; stake tomatoes are a prime  
5           location for bird nests.

6                     We have a situation in Naples right now  
7           where we're dealing with a bear and its cub. And  
8           this bear has decided that it likes our  
9           watermelons and it likes the things that we have  
10          to offer in the field better than what's in the  
11          woods. Well, we called the Game Commission and  
12          they say, well, gee, we're sorry, it's just a  
13          bear and, you know, you're going to have to live  
14          with it.

15                    And the old saying that we use when we're  
16          pretty sure of something is, does the bear do  
17          what it does in the woods, and I can tell you now  
18          that he also does it on the farm, too. And we  
19          can't control that any more.

20                    And not only did this bear come on the farm,  
21          but he's right in the middle of a residential  
22          area, and it doesn't seem to matter; the bear has  
23          free reign and we don't have control of the  
24          animals any more.

25                    Okay. Our packing houses, we have

1 facilities that employ sanitation management  
2 procedures, including constant testing and  
3 documentation of chlorine levels and dump tanks  
4 and flumes. The use of new packaging and  
5 palleting materials at all times, personal  
6 hygiene training and monitoring of packing house  
7 employees.

8 Other recently incorporated product  
9 management techniques, such as positive lot  
10 stamping for track-back identification does allow  
11 for a certain amount of track-back of our  
12 products, but we do face the problem that, once  
13 our product is purchased and sent on a truck, it  
14 may go to a direct consumer, it may go to a  
15 re-packager, and once it's out of our hands, it  
16 can be -- I guess the word was intermingled with  
17 many other sources of product. So it does allow  
18 for source of -- origin information, but it can  
19 only be effective while it remains in our  
20 packaging.

21 We talked about education. We talk about  
22 education to our workers, but we've also talked  
23 today about education of the consumer and  
24 education of the handlers off the farm. I  
25 believe that consumer education is probably the

1 biggest and most important area that we could  
2 improve upon.

3 I know from my own personal experience with  
4 eating in my own household, eating at friends'  
5 houses, the different things that people take for  
6 granted or let go as insignificant in the  
7 preparation and handling of food is, a lot of  
8 times, something that concerns me, and I try to  
9 always educate my friends and my wife when I have  
10 a chance.

11 The loss of control of our product in the  
12 transportation process is of critical concern to  
13 us. We are at the mercy of the end receiver  
14 perspective of what the quality of our products  
15 are. And a lot of times, temperature control in  
16 the transportation mode is the main reason for  
17 those problems.

18 We're forced to spend money in management  
19 and control of temperature logging units that go  
20 into the transportation vehicles to justify and  
21 verify that the temperatures were maintained as  
22 the transporter indicated that they were; it's  
23 not just his word against ours, we now go ahead  
24 and document through data loggers temperatures  
25 from one end to the other.

1           Sanitation is real important at the -- we've  
2           talked about it -- at the retail markets. The  
3           fondling issue is very funny and -- but it's so  
4           true. How many times do you, as a consumer, go  
5           in and you grab that cantaloupe and you want to  
6           feel it or maybe you pick it up and you sniff it,  
7           or you grab that tomato and you squeeze it. It's  
8           just so common.

9           And all of the risks and the potentials that  
10          come in with the consumer are hard to ignore, and  
11          probably where we should be focusing a lot about.

12          Six L's Packing Company will continue to  
13          implement management strategies that minimize the  
14          potential for microbiological contamination as it  
15          makes good sense. I hope that in an era of  
16          regulatory actions that impact the way we manage  
17          our labor, the chemicals that are available for  
18          our crop protection, the availability of a water  
19          supply, and the constant onslaught of  
20          environmental lawsuits that attack farmers as  
21          polluters of the community, our legislators will  
22          find wisdom and use their strength in coming to  
23          grips with the realities of microbiological  
24          contamination.

25          There are currently many laws that impact

1 issues that affect the potential for food-borne  
2 illness. Jumping into the rapid escalation of  
3 government guidance documents and/or regulatory  
4 action without due diligence and attention to  
5 sound scientific data will only exacerbate the  
6 financial burdens to American agricultural  
7 producers.

8 Thank you very much.

9 MS. ISAACS: Thank you, Mr. Roan. We are  
10 going to participate in a five-minute break. We  
11 have four official industry presenters yet to  
12 present.

13 Dr. Malecki, what time did you have to leave  
14 by?

15 DR. MALECKI: I have to leave by 3:30.

16 MS. ISAACS: 3:30? Okay. If it's okay with  
17 Camille, I think when we come back, can she give  
18 hers and then go back to the industry and then  
19 continue with the stakeholders?

20 Okay. Be back here by 3:00, we'll give you  
21 eight minutes, and there's some drinks left  
22 outside.

23 (Thereupon, a short recess was taken.)

24 MS. ISAACS: Okay. As I mentioned, Dr. Jean  
25 Malecki, she's an M.D. and has also has a

1 master's in public health. Dr. Malecki is the  
2 director of the Palm Beach County Health  
3 Department, and we're just briefly interrupting  
4 the industry presentations for now because she  
5 can only stay here for a little bit longer  
6 because of a conflict.

7 So come on up, Dr. Malecki. Thank you for  
8 joining us.

9 DR. MALECKI: I am going to show a couple  
10 slides. I don't know if you'll be able to see  
11 the overheads.

12 First of all, welcome back from lunch, and  
13 most of us had a lunch of chicken, rice, and  
14 beans, and still we're back here with our  
15 behavior habits talking about the health of fresh  
16 fruits and vegetables. I just say that because  
17 I am a proponent of fresh fruits and vegetables.

18 First of all, just a few comments before we  
19 turn the lights off. I am a public health  
20 official for this county. I have been involved  
21 in what I call enumerable outbreaks related to  
22 food products from contaminated spice with  
23 specific bacteria, and not necessarily because a  
24 spice had bacteria, and spice do, but because of  
25 improper cooking of the spice, all the way -- and

1           that was in a major hotel here in Palm Beach --  
2           to an outbreak of Hepatitis A related to little  
3           kindergarten children taking jellybeans off the  
4           table of a kindergarten teacher and transmission  
5           that way. So I really do appreciate the comments  
6           that I've heard that from farm to mouth is  
7           extremely important.

8                     Welcome to Palm Beach County, the diarrhea  
9           capital of the world. And that marks my career.  
10          Our Margarita y Amigas' Salmonella to cyclospora.  
11          In fact, just recently, the press decided that I  
12          should start a new sitcom for a new network  
13          coming into being on Paxson, and it's supposed to  
14          be entitled Diary of a Medicine Woman. And  
15          that's for real.

16                    And we also, because of the situation,  
17          especially with cyclospora, have Boca Raton, one  
18          of the, you know, wealth capitals of the world  
19          next to Palm Beach, called Bocarrhea. So we  
20          really -- you know, we really consider this very  
21          serious. And I'd like to say that we have the  
22          cleanest colons in the United States.

23                    With that, my comments today are going to  
24          outline what we went through in investigating  
25          cyclospora. Back in 1995, Palm Beach County

1 really was the major county that initiated  
2 investigation of this, what we call, emerging  
3 health threat. A disease caused by a parasite.  
4 The parasite actually is in the slide there, A,  
5 it's the largest one, and this is one which  
6 really was unknown to the United States back in  
7 1995, unless you traveled abroad and you consumed  
8 water or produce abroad in countries where this  
9 is endemic. Otherwise, we didn't see it here.

10 But in 1995, we did because we were looking  
11 for it. We had a laboratory and hospital down in  
12 Boca who actually had a medical director who came  
13 from Peru, who did a lot of work in Peru, knew  
14 about cyclospora, saw travelers with this, and  
15 actually trained the laboratory technicians in  
16 identifying this. Otherwise, this would have  
17 gone undiagnosed.

18 At the same time, a smoking gun was  
19 occurring in New York. Certainly not as vast in  
20 the outbreak as in Palm Beach County, but one  
21 which really substantiated some of the findings  
22 that we found in 1995, and then further on into  
23 1996.

24 I show the organism to you because our  
25 discussions today have dealt with the safety of

1 the fruits and vegetables and the importance --  
2 and I want to stress this now and at the end of  
3 the few minutes I'm going to speak -- the  
4 importance of research in microbial standards.  
5 And when I'm saying that, I want to say microbial  
6 identification.

7 We were at a loss in this county, we were at  
8 a loss world-wide because this was an organism  
9 which was basically an unknown and an emerging  
10 health threat. Very little research had been  
11 done on it. And, in fact, to today, we do not  
12 have a sensitive and specific test to isolate it  
13 off produce.

14 We certainly are better at it looking at it  
15 in humans and looking at it in stool, but we  
16 still are at loss. Is that uncommon in public  
17 health? No, not at all. In fact, the  
18 investigation and promotion and intervention of  
19 almost all of the major health threats that we  
20 have seen known to man have been corrected  
21 without identifying the cause of it.

22 If you go back to the studies in England on  
23 cholera, typhoid, no one can isolate those  
24 organisms. In fact, our earliest intervention on  
25 HIV, the largest cause of AIDS, were done and

1 implemented prior to our isolating that virus.

2 So I say that to you as industry, as  
3 stakeholders and people who are charged with  
4 public health, that the science of epidemiology  
5 is extremely important, even if you can't isolate  
6 the organism, because I will guarantee you, the  
7 laboratory science falls behind, and it still  
8 does with this particular organism.

9 One other thing that you should know is that  
10 we, at public health, like to say, cook your  
11 meat, right? Wash your fruits and vegetables,  
12 because we all know there will be some form of  
13 contamination. A good scrubbing here and there  
14 does you a lot of good. This organism is a  
15 sticky organism, and how many of you really can  
16 thoroughly scrub those wonderful beautiful  
17 berries that are very pliable and very fragile.

18 So knowing the microbiology of the organism  
19 helps you, helps us in public health, and really  
20 to give a good public health message.

21 This -- I do need to go over there, but I'll  
22 describe this because it's important when you're  
23 investigating an emerging health threat,  
24 especially one which has been imported. And my  
25 comments are going to be totally isolated to

1 importation, and I want you to be aware of that.

2 As you could see here, we're comparing the  
3 1995 outbreak to the 1996 outbreak. The 1995  
4 actually is a diamond shape and they're purple,  
5 and the 1996 are orange colored and they are in  
6 circular color.

a

7 When the outbreak occurred, it occurred in  
8 Bocarrhea, or Boca Raton. I say that because,  
9 when we were investigating this for public  
10 health, we did everything possible; we  
11 interviewed every patient and their family, we  
12 went to every restaurant -- and let me tell you,  
13 people in Boca like to eat out -- we investigated  
14 every grocery store, we went to every  
15 distribution center, and I personally watched the  
16 trucks come in. All right? From across state to  
17 the distribution sites. And we knew -- and we  
18 knew early on, it did not occur here in this  
19 county and the contamination did not occur in  
20 this state.

21 So by doing that and by looking at the water  
22 supplies, number one, the water supplies, we were  
23 able to begin to hypothesize. Eventually, it was  
24 not just an isolated event in wealthy Boca Raton,  
25 which was a clue to this whole thing, because

1 people without the money can't purchase those  
2 beautiful, beautiful berries that come into the  
3 State of Florida, at that particular time,  
4 they're very costly, and there is what's known as  
5 market share. And as you know, there's a  
6 distribution based on cost and based on beauty  
7 and based on taste to those areas of the country  
8 where people can buy them. So lo and behold, we  
9 began our outbreak.

10 Will you please give me the next slide?

11 Because of the lack of laboratory science,  
12 the unknowns, we identified in 1995, 41  
13 laboratory confirmed cases. Is that all we had?  
14 Absolutely not.

15 And by the way, this is probably happening  
16 all over the country, but nobody was looking for  
17 it except for us.

18 And, as you can see, when we were looking  
19 through this, we did have two events; everybody  
20 dreams of an outbreak of a single event, and we  
21 eventually were looking at strawberries and at  
22 raspberries and began tracebacks with our  
23 partners, our distributors, and that's where the  
24 trace back began, which is now called lot  
25 identification.

1           I think this is a very important point, and  
2           I'm going to raise it right now, and I'll  
3           reiterate it again in my comments. But the  
4           industry, as a whole, federally, we have to come  
5           to grips with being able to truly traceback to  
6           the farms. That's where the identification of  
7           contamination must be. Remember, I'm talking  
8           about imports. Because the contamination here  
9           really did occur at the farm site, and if we  
10          can't trace back to those farms, there is that  
11          commingling in the packaging piece, and if we  
12          want to save an industry and we want to be able  
13          to have a single voice as to a culprit, then we  
14          must be able to do that. And if one piece of  
15          industry has to go blind, but let's not have the  
16          whole apple industry or the whole raspberry or  
17          strawberry go down the tubes.

18                 May I have the next slide, please?

19                 The conclusions of the 1995 with an  
20                 epidemiological study with the CDC pointed to  
21                 soil contamination and possibly raspberries.

22                 In 1996, because of the awareness that  
23                 occurred, we certainly notified all my  
24                 compatriots throughout the United States, other  
25                 people were ready to pick this up.

1           Most of you remember the Houston media event  
2 that took place. We had 108 laboratory confirmed  
3 cases. And, again, we looked at clusters, we  
4 looked at confirmed cases and, in this particular  
5 time, as also took place throughout the United  
6 States, pointed to Guatemalen raspberries.

7           What's important -- and this has to do with  
8 partnering, and this has to do with consumer  
9 awareness and both of those terms have been  
10 mentioned. When we have demographic evidence, as  
11 we had in 1995, it is certainly important to  
12 actually apply what we call the basic science of  
13 public health, which is epidemiology, knowing  
14 full well in these types of situations, you might  
15 not uncover the actual cause of the organism, but  
16 based on statistics, you can really point your  
17 finger, and you can really find a culprit and you  
18 can find provide interventions and  
19 implementations.

20           You get the statistical evidence in here; it  
21 was raspberries, and it was very specific to  
22 Guatemalan raspberries and, as we moved forward  
23 with this and we did our tracebacks, it was  
24 difficult to go back to the farm.

25           And as you know, CDC went over there, I

1 think FDA went over to Guatemala, and they did  
2 attempt to initiate changes over there at the  
3 farm site; hygiene, sanitation, there was water  
4 that was contaminated, they actually had  
5 risked -- had a risking level from one, two,  
6 three, four, in terms of the farms and when they  
7 could export and when they could not export fresh  
8 versus frozen raspberries versus no raspberries  
9 at all. It was either a complete HACCP or a  
10 modified HACCP approach. It didn't work. It  
11 didn't work.

I

12 We relied on an existing environmental  
13 evidence, which is weak right now, which is one  
14 think everybody in this room has to support. If  
15 we can do tracebacks back to the farm without the  
16 commingling, I think the industry and, most  
17 importantly, the public will be better informed  
18 to make wise choices and important choices in  
19 their diet.

20 In terms of epidemiological evidence, we can  
21 no longer avoid or put our heads in the sand the  
22 strength of that evidence. It's three years  
23 later, and we're seeing this product come out.

24 I, too, because I'm a public health official  
25 and I specialize in prevention, I want everybody

1 to eat fruits and vegetables. But I also want  
2 them safe. So I want both and I want them now.

3 Next slide. Let's go to the next one.

4 MR. BARNES: That's it.

5 DR. MALECKI: That's the end of it? Okay.

6 Let me go ahead and summarize. Evidence.  
7 Again, evidence on sampling, evidence used  
8 epidemiologically and statistically. We still  
9 cannot isolate cyclospora from fresh produce,  
10 whether it's Peruvian lettuce, lettuce from Peru,  
11 raspberries, basil, whatever it might be. But  
12 there are indicator organisms, and I would like  
13 to see this panel address that.

14 We know when there's contamination. We  
15 don't have to have cyclospora on a piece of  
16 lettuce to know that. There are indicator  
17 organisms that you use in your industry, such as  
18 E. Coli. And I think if you start looking at  
19 sampling, whether it's a guidance issue or a  
20 regulatory issue, E. Coli is an indicator of  
21 contamination. And I suggest to you, that could  
22 be of use in terms of sampling produce that comes  
23 into this country.

24 Positive lot identification. This is a  
25 cooperative issue, and one which us, as a public,

1 in making our choices whether to choose  
2 raspberries from the State of Florida versus  
3 raspberries from Guatemala, versus specific  
4 farms, is extremely important for us.

5 Perishability of the produce. And when  
6 we're looking at where can we identify, where  
7 should we test, you've got to go back to the  
8 farm. When you're investigating a disease like  
9 cyclospora which has an incubation period that  
10 can range up to 22 days, and I'm relying on your  
11 memory to tell me what you ate even two weeks  
12 prior to that, how many of you can tell me what  
13 you ate two days ago? Then to go back to the  
14 shelf to get that same raspberry batch, it's not  
15 there any more.

16 So I agree with you, and I wholeheartedly  
17 support, that if we are going to look at  
18 continuing to import from areas where we know  
19 there's contamination and we want to provide  
20 technical assistance, then we have to go back to  
21 those farms and work with that contaminated water  
22 and work with those folks; not here in our local  
23 supermarket.

24 Educating the wise consumer. I think we've  
25 been in the forefront in the State of Florida,

1 and I commend the regulatory agencies, to ensure  
2 and implement, make sure that there's labeling in  
3 every one of our grocery stores so that people  
4 can choose; they can choose what they want to buy  
5 and where they are buying it from.

6 And most importantly, research and  
7 development. This is not just research and  
8 development in terms of microbial standards for  
9 produce; this is research and development on the  
10 medical side of the house as well. They can't be  
11 separated. They're intertwined.

12 So the partnership that we have has to  
13 remain there. There has to be a trust factor,  
14 and we have to be cooperative in our approach in  
15 the future.

16 So with that, I want to say thank you for  
17 allowing me to present this. I certainly applaud  
18 the efforts. It's been three years in coming.

I

19 know some of you think that there's a delay here.  
20 As far as I'm concerned, I would like to move  
21 forward, and certainly move forward  
22 collaboratively. And, again, these are comments  
23 made on importation.

24 Thank you.

25 MS. ISAACS: Thank you, Dr. Malecki.

1           Now we will go back to the industry. Some  
2 folks had signed up to give short presentation  
3 testimony. J. Luis Rodriguez. You're with the  
4 Florida Farmers & Suppliers Coalition?

5           MR. RODRIGUEZ: Yeah, I'm willing to yield  
6 my time to Mr. Smigle, because he wants to make  
7 visual presentation of a short documentary that  
8 we have.

9           MS. ISAACS: Okay. Gary, did you want to  
10 come up here?

11          Okay. Gary Smigle, president of the Florida  
12 Tomato Exchange, and you're based out of where?

13          MR. SMIGLE: Lantana.

14          MS. ISAACS: Out of Lantana. Okay.

15          MR. SMIGLE: My name is Gary Smigle, I'm  
16 president of the Florida Tomato Exchange. I'm  
17 with Mecca Farms; we farm on the East Coast of  
18 Florida, primarily winter vegetables. We're a  
19 family farm and business. We've been in  
20 operation just at 100 years.

21          We're unalterably opposed to this initiative  
22 and to the guidelines, and I'll tell you why  
23 briefly.

24          When I first heard of the President's  
25 Initiative I said, great, he's finally come

a

1           around. It seems like every three months over  
2           the past two years myself, Mr. Rodriguez, I've  
3           seen Mike Stuart, many, many people from our  
4           industry have been up in Washington asking the  
5           government to push a country of origin labeling  
6           law.

7           We think there is a problem. The problem is  
8           not in the United States farmers; the problem is,  
9           as the doctor just told you, that we see it, is  
10          Guatemala, it's Mexico, it's the people that now  
11          produce 60 percent of the winter vegetables eaten  
12          in the United States.

13          These countries routinely use practices that  
14          wouldn't last a minute in this country, and then  
15          they have free-flow of all that produce into the  
16          United States where it's not labeled, where the  
17          consumer does not have a choice, and where we say  
18          people are getting sick.

19          We, too, deal with the 46 government  
20          inspectors, some days it seems like twice that  
21          many. We don't need another government  
22          regulation on us until we cure the primary  
23          problem.

24          Before the program closes out, they've  
25          agreed to show our documentary, it's 12 minutes

1 long. We sent a film crew to Mexico to document  
2 the sanitary practices there and we would invite  
3 you to look at that.

4 Thank you.

5 MS. ISAACS: Okay. Thank you, Gary. That  
6 video will be shown when we wrap up our session.  
7 If we go, you know, until 4:00 o'clock or after,  
8 for those of you who want to stick around.

9 Did Dr. Malecki leave? She wound up with  
10 one of my business cards, so I may not call  
11 everybody who signed up here, so speak up if you  
12 don't get called by the end of the day.

13 Okay. Next we will hear from Mary Dettmers  
14 with PBC Greenmarket Association.

15 And, Mary, where are you from?

16 MS. DETTMERS: I'm from Jupiter.

17 MS. ISAACS: Okay. From Jupiter, Florida.

18 MS. DETTMERS: I am a master gardener  
19 trained here at the Palm Beach County Extension  
20 Service, and also serving this year as the part-  
21 time director of the Palm Beach County  
22 Greenmarket Association.

23 And I wanted to draw to your attention to  
24 something that's happening here in Palm Beach  
25 County that I think is very relevant to the

1 discussion today. We're talking about from the  
2 farm to the table, the safety of the food.

3 Obviously, the quicker you get from the farm  
4 to the table, the safer the food is; the more  
5 direct the route. And here in Palm Beach County,  
6 the agricultural community and the government  
7 have joined together in a very proactive movement  
8 to provide local produce to the local population.

9 We have a group here called the Agricultural  
10 Enhancement Council. It's representatives from  
11 different parts of agriculture who are advisors  
12 to the Palm Beach County, Board of County  
13 Commissioners. They've been in existence just  
14 two years and, in that time, there's three  
15 projects that they've done that I think could be  
16 imitated country wide.

17 The first is, ask where it's grown. This is  
18 just one of the posters; there's also bumper  
19 stickers and other literature. But ask where  
20 it's grown. We are educating the local  
21 population to ask where the produce comes from.

22 Recently, the Palm Beach Post reported that  
23 60 percent of the people nationwide don't care  
24 where their food comes from; it's not even a  
25 question, they never thought about it, it doesn't

1 matter. Well, it does matter if you're trying to  
2 get the food from the farm to the table in the  
3 quickest possible way so that there's less  
4 opportunity for any contamination.

5 Obviously, if you think about it, it  
6 matters. And so our agricultural community,  
7 which we must say is a wholesale agriculture  
8 here; we're the biggest agricultural county in  
9 the Eastern United States, and it's 99 percent  
10 wholesale, in other words, shipped north and out  
11 of state. Nevertheless, the farmers here  
12 recognize that it's time to start creating  
13 avenues for their produce to get to the local  
14 population.

15 So in addition to this educational program,  
16 they have provided support for the Palm Beach  
17 County Greenmarkets, which are open-air community  
18 markets that have just sprouted up, again, within  
19 these past two years.

20 The first one was started by Mayor Graham of  
21 West Palm Beach, a very strong mayor who believes  
22 that local produce is best for the health of the  
23 people, and that an open-air community market is  
24 one of the best ways for people to gather.

25 Well, our Agricultural Enhancement Council

1 supported that effort by creating an association  
2 of any greenmarkets that started. In two years  
3 now, we have seven community markets that are --  
4 come right down the coast of Palm Beach County,  
5 all in an effort to make local produce available  
6 to the local population.

7 And then the third of the projects, just  
8 briefly then, is the growing tours. The Ag  
9 Enhancement Council has supported tours whereby  
10 they're taking tours by the bus load and local  
11 people to the farm so they can find out what is  
12 being grown here in Palm Beach County, what are  
13 the standards by which our food is being grown,  
14 and educating themselves about what the food  
15 supply is.

16 All three of these are aimed at shortening  
17 that distance between the farm and the table.  
18 And, you know, as a master gardener, we work with  
19 people all the time, telling them how to create  
20 habitat for all the different species; how to  
21 plant blue porter wheat so you get butterflies in  
22 your yard, you know. And, meanwhile, in Palm  
23 Beach County, we watch our food supply, the human  
24 food supply, being outsourced to Mexico and  
25 Central America and other countries.

1           Not to say anything bad about what's grown  
2           in other countries, but it's a principle of  
3           ecology that you keep the food as close to the  
4           species as possible, and that's what the people  
5           in Palm Beach County have been trying to do  
6           through this cooperative effort of the  
7           agricultural community and the government.

8           And just this week, the Department of  
9           Agriculture from the state, the State Department  
10          of Farmers' Markets, agreed to give us signs for  
11          each one of our seven markets that have the big  
12          "Fresh From Florida" logo on it, and the support  
13          of Bob Crawford and the Department of Agriculture  
14          for this effort.

15          Thank you.

16          MS. ISAACS: Thank you, Miss Dettmers.

17          Next we have A. Roswell Harrington with  
18          Florida Organic Growers.

19          A VOICE: He had to leave.

20          MS. ISAACS: He had to leave. Do you know  
21          if he left any written testimony?

22          A VOICE: No, I don't.

23          DR. TROXELL: We'd appreciate hearing his  
24          comments if he'd submit written comments or  
25          something.

1 MS. ISAACS: And, in fact, I should have  
2 mentioned this earlier. I was told around break  
3 time that the announcement that we formerly  
4 alluded to this morning that it was in your  
5 packet that told you how to submit your written  
6 comments, for some reason, was not in the packet,  
7 so Camille has had copies made, and please pick  
8 one of these up on your way out so you can submit  
9 additional written comments, and be sure to use  
10 that docket number on here.

11 DR. TROXELL: And let me say right now, the  
12 comment time frame in there, I believe, is  
13 December 19th. Please don't hesitate to send  
14 comments even if you can't get them in by  
15 December 19th.

16 There is going to be plenty of time through  
17 December and beginning of January to get comments  
18 considered in our next phase of this project, and  
19 we really would like to see written comments so  
20 we can think about what you all have to say.

21 MS. ISAACS: Okay. Thank you.

22 All right. Al Yamada? Is that right?

23 MR. YAMADA: Yes.

24 MS. ISAACS: Al is with Fresh Produce  
25 Association of the Americas.

1           And you are here representing James Cathey  
2           with Produce Kountry.

3           MR. YAMADA: Yes. Thank you.

4           My name is Al Yamada. I'm here because Jim  
5           Cathey, who is a grower, packer, and distributor  
6           and has operations in Tennessee, California, and  
7           Arizona, couldn't be here, and he wanted a short  
8           statement read for the record, so I agreed to do  
9           that. So allow me to make it as short as  
10          possible considering the hour.

11          I'm afraid that much of this current rush to  
12          create an all encompassing voluntary guidance for  
13          fruits and vegetables is ruined by an irrational  
14          desire to accomplish the unwarranted.

15          Facts do not support the need to focus on  
16          imports as a source of food-borne illnesses.  
17          Looking, however, at the way the President's  
18          announced initiative to ensure the safety of  
19          imported and domestic fruits and vegetables, one  
20          would also assume that if there were no imports,  
21          there would be no food-borne illnesses and no  
22          more outbreaks. Many would say that it's wrong,  
23          but I'm afraid, again, that just as many probably  
24          would be happy to let the public reach that wrong  
25          assumption.

1           As a businessman with domestic and  
2           international experience, I believe a proposed  
3           guidance will affect more American farmers than  
4           foreign farmers. The reason is that foreign  
5           growers are already used to rigid inspections and  
6           they're prepared to meet whatever standards  
7           established here. Since all imports come through  
8           check points or better known as ports of entry,  
9           they are already subject to these sort of  
10          inspections. Foreign farmers are more likely to  
11          be ready, therefore, to meet the challenges  
12          proposed by the proposed guidelines.

13                 Meeting budgetary standards is simply one of  
14                 the costs of doing business, but is the cost  
15                 warranted in this extended cost effective. The  
16                 answers are not very clear.

17                 While foreign producers might take the  
18                 position that they need to do whatever's  
19                 necessary to carry on trade, domestic growers  
20                 think the guidance is unnecessarily onerous.

21                 I would like to discuss two points briefly;  
22                 one is that of international trading standards,  
23                 the other is domestic growers.

24                 In Tennessee this past summer, some of the  
25                 local growers, including growers in Virginia and

1 the Carolinas, were delivering tomatoes to me in  
2 used cartons, and I observed even tree fruit  
3 packed in used tomato boxes, and when I pointed  
4 out that reusing cartons is illegal, a Virginia  
5 agricultural official told me that no one had  
6 ever mentioned that to him before, and he also  
7 didn't want to discuss how they enforce that type  
8 of law there.

9 In contrast, if any American importer were  
10 to deliver to any port of entry produce in used  
11 boxes, that product would be turned back and the  
12 shipper would be in big trouble.

13 Simply put, imports automatically meet  
14 federal standards or they do not get into the  
15 market; they do not come into this country. The  
16 same is not true with all domestic produce,  
17 because they do not necessarily go through an FDA  
18 checkpoint.

19 The other point is about international  
20 trading standards. I said earlier that foreign  
21 shippers probably will do whatever is necessary  
22 to meet U.S. standards because they want to trade  
23 with Americans. Of course, Americans want for  
24 their fruits and vegetables to complement the  
25 domestic supply.

1           That does not mean that foreign shippers  
2 will tolerate any standards. At some point, they  
3 are going to object or they are going to insist  
4 on similar standards on U.S. agricultural  
5 products that go into their country, then we will  
6 all know how much trouble can be caused by these  
7 proposed guidelines.

8           That is why this most important proposed  
9 guidelines be done non-discriminatory towards  
10 foreign agricultural products, and that the  
11 guidelines be in conformity or in line with  
12 proposed international trade agreements.

13           The proposed guidelines must not become, not  
14 be perceived as non-tariff trade barriers.  
15 American agricultural exporters, including the  
16 Florida Citrus Growers, have experienced exotic  
17 regulations overseas. They realize that the  
18 regulatory game can be played in many ways by  
19 different countries.

20           Furthermore, American trade negotiators have  
21 constantly fought against discriminatory  
22 regulations overseas. FDA, therefore, should  
23 more firmly take into consideration the  
24 possibilities of international trade  
25 repercussions before finalizing the proposed

1 guidelines.

2 My final point is to question the need for  
3 this moniminiacle dash to the finish line. The  
4 whole effort is moving at a speed that is totally  
5 uncomprehensible and unsupported by science or  
6 data. Raising public awareness of safe food  
7 handling practices has always been (inaudible)  
8 but the public must understand that the farm is  
9 not where all the problems start, and the FDA  
10 should not focus it's safe initiative on only  
11 farming operations.

12 Thank you.

13 MS. ISAACS: Thank you, Mr. Yamada.

14 MR. YAMADA: Thank you.

15 MS. ISAACS: Do we have any additional  
16 industry presenters at this time?

17 (No response.)

18 MS. ISAACS: Okay. As we mentioned, if you  
19 have additional comments, be sure to send in your  
20 written comments after the meeting.

21 Okay. On the other stakeholders' side of  
22 it, we have Rebecca Schleifer? Schleifer?

23 MS. SCHLEIFER: Schleifer.

24 MS. ISAACS: Schleifer.

25 MS. SCHLEIFER: Yes.

1 MS. ISAACS: And Rebecca is an attorney and  
2 has a master's in public health, and she works  
3 with the Migrant Farmworker Justice Project out  
4 of Belle Glade, Florida.

5 MS. SCHLEIFER: Ms. Isaacs, my name is  
6 Rebecca Schleifer, I'm a staff attorney with the  
7 Migrant Farmworkers Justice Project in Belle  
8 Glade. I also have a master's degree in public  
9 health and I do a fair amount of public health  
10 education both with Florida advocates and also  
11 some with health care providers.

12 I just have three brief remarks, and one  
13 comment on something that was -- something that  
14 came up this morning.

15 I think we probably all agree that field  
16 sanitation facilities in the fields are  
17 important. I just wanted to comment that, first  
18 of all, the best information that we have on a  
19 national basis, which is the National  
20 Agricultural Worker Survey, or the NAWS Survey,  
21 reports that only one-third of farm workers have  
22 adequate drinking water, water for washing and/or  
23 toilets in the field.

24 My own experience working both here in  
25 Florida and Washington State, supports the fact

1           that, in many fields, farm workers don't have  
2           adequate access to toilet facilities, and even  
3           where there are toilet facilities, often they are  
4           not clean or they lack doors, or there are enough  
5           of them.

6                     Also, the federal standards require that  
7           field sanitation facilities be present if there  
8           are 11 or more farm workers in the field. We're  
9           fortunate in this state that the state law also  
10          required that if there are five or more farm  
11          workers, that such facilities be present.

12                    I just wanted to say it would be great if we  
13          could be like the four states that require these  
14          facilities if there are any farm workers present  
15          in the field, and those are other states which  
16          have a significant population of farm workers;  
17          North Carolina, Washington, Oregon, and  
18          California.

19                    My third comment is just one other problem  
20          that we hear a lot about from farmers with whom  
21          we work is that even, again, when there are  
22          facilities present, they often aren't given time  
23          to use them. This is particularly a problem  
24          for -- or we hear this is often a problem for  
25          people that work in packing houses where people

1 work in a line and they all have to -- they can't  
2 just leave when they want to.

3 Oftentimes, people are given ten minutes and  
4 there's 30 people in the line and there's often  
5 not enough time to go. So this is something that  
6 people should pay attention to to make sure that  
7 people are using facilities and using them  
8 properly.

9 My only final comment is that I think that  
10 it's good that the guidance does talk about the  
11 importance of workers reporting their illnesses,  
12 and also of accommodating workers with illnesses  
13 or diarrhea or lesions. I just think that people  
14 should be realistic about this kind of  
15 expectation in a climate where workers are very  
16 fearful of reporting any kind of problem for fear  
17 of being fired or otherwise retaliated against.

18 MS. ISAACS: Thank you.

19 Okay. Who's business card did I lose? Who  
20 else wanted to present?

21 Yes, sir. We'll let you introduce yourself.  
22 I'm sorry about that. Dr. Malecki has your card.

23 MR. PAIGE: Here, you can have one.

24 MS. ISAACS: Well, then let me introduce  
25 you.

1 MR. PAIGE: Oh, okay.

2 MS. ISAACS: All right. This is Stephen  
3 Paige. He's the director of the Bureau of  
4 Environmental Health Services, and you're from  
5 Topeka, Kansas, Department of Health and  
6 Environment.

7 Thank you for joining us.

8 MR. PAIGE: Thank you. And why am I here?  
9 Well, I understand that the forecast low at home  
10 is 14 degrees; that's why I'm here. I may stay  
11 all month.

12 There's a couple issues I'd like to talk  
13 about. I apologize for not having prepared  
14 remarks as I just read the document this morning.

15 First of all, I think the issues related to  
16 water should be left alone. Water is regulated  
17 to death, and it just seems to me that another  
18 comment or two about regulation of water would  
19 just cause problems in our 50 states and 5,000  
20 local agencies that deal with water issues from

1           If we do more than that, I'm afraid we'll run  
2           into conflicts.

3           For example, suggesting one water sample per  
4           year from an otherwise properly constructed and  
5           located well, is probably in contrary with some  
6           local standard someplace. And unless the FDA  
7           wants to drop their preemption of local codes and  
8           ordinances, I think that would run into a  
9           problem.

10           My next comment would be in regard to  
11           sprouts. I see no other place in the documents  
12           that we have to regulate or control sprouts in  
13           regard with causing food-borne illnesses.

14           Sprouts are not well organized. Sprouts  
15           would be, I would say, a fledgling industry, done  
16           from small -- small shops; one, two, three people  
17           shops, that have sprouteries down to sprouts that  
18           are grown by the restaurants in the hand sink or  
19           whatever.

20           The issue is that sprouts have a real  
21           potential for causing food-borne illness. I  
22           speak from experience. This year, we had an  
23           outbreak in the Kansas City area of Salmonellas  
24           associated with sprouts grown by one company in  
25           Kansas City, Kansas.

1 we can help industry provide them clean sprout  
2 seeds.

3 Thank you.

4 MS. ISAACS: Anyone else?

5 Yes. Go ahead, Stacey.

6 DR. ZAWEL: Stacey Zawel with United. I  
7 just wanted to make two brief comments for the  
8 record.

9 One of them, Dr. Malecki gave a very good  
10 presentation of the raspberry and cyclospora  
11 outbreak in this area. I thought that was very,  
12 very good.

13 And one of the things that I'd like to point  
14 out is the example that it sets that, in fact,  
15 FDA and CDC have been down in Guatemala for two  
16 seasons now, trying to help out the Guatemalans  
17 and address this issue, test different -- test  
18 the product for cyclospora, test for water  
19 sources and other, and they haven't been able to  
20 find it.

21 I think it provides a very good example for  
22 the fact that we don't have enough science to  
23 understand what our interventions are actually  
24 achieving, so we need to be careful.

25 The second thing is something that I, as an

1 industry representative of many different  
2 commodities, have to say over and over and over,  
3 and I really can't emphasize it enough, and I  
4 know sometimes I sound like a broken record, but  
5 when we talk about all these outbreaks, we have  
6 to really be very, very careful to talk about the  
7 vehicle that was associated with contamination  
8 and not speculate as to where that might have  
9 happened.

10 Especially in instances of today, I'm  
11 specifically stating this for the media that is  
12 in our presence. I think all of us need to be  
13 very conscious of the statements that we make,  
14 and so while we understand, and I certainly  
15 understand, nobody intends to wrongly implicate  
16 something. It does have a huge economic impact  
17 on, perhaps, an innocent industry, and so I just  
18 want to clarify that the strawberry and hepatitis  
19 outbreak was a frozen strawberry outbreak that  
20 was a vehicle contamination and, in fact, the  
21 strawberries were grown in Mexico, were processed  
22 in California in the frozen state, and that is  
23 what contaminated people. We just don't know  
24 where the contamination, in fact, occurred in  
25 that outbreak.

1 MS. ISAACS: Okay. Thank you, Stacey.

2 Anyone else?

3 DR. ISMAIL: This is Mohammed Ismail with  
4 the Florida Department of Citrus.

5 We do acknowledge the -- definitely, the  
6 sincerity of the Food and Drug Administration and  
7 the President's Initiative. And the guidance  
8 that have been developed so far are excellent and  
9 could serve as a guideline for each of the food  
10 and vegetable industries throughout the United  
11 States as a starting point to develop their own  
12 voluntary guidelines that would suit their own  
13 industries.

14 And in the meantime, some of the funding  
15 that is -- and the dollars that are being spent  
16 in this effort should be going into research, and  
17 each of the land grant colleges, universities, as  
18 well as USDA scientists, should be given adequate  
19 funding to really look into the scientific  
20 vehicles or scientific merits of various problems  
21 and develop the data that is needed to make this  
22 process truly science driven.

23 MS. ISAACS: Thank you, Dr. Ismail. Right?

24 DR. ISMAIL: Yes.

25 MS. ISAACS: I'm getting good at that.

1           Anybody else? Come on down.

2           MS. GOULD: My name is Lauren Gould. I'm  
3           from the Miami, Fort Lauderdale area. I'm a  
4           member of Florida Certified Organic Growers and  
5           Consumers. I'm also an extremely pesticide  
6           sensitive person due to working in a nursery over  
7           25 years ago where I received my lifetime supply  
8           of drift.

9           My feeling from a consumer standpoint is, if  
10          safety is truly at the crux of this matter, why,  
11          besides the almighty dollar are certain  
12          pesticides still produced? Specifically DDT and  
13          Temik?

14          And we know for a fact that there are  
15          countries all over the world who still use DDT,  
16          and that consumers unknowingly, unwittingly or  
17          whatever, then eat products which have the DDT in  
18          them.

19          So what I really would hope would occur is  
20          for there to be a list of all the countries that  
21          use these really detrimental, highly toxic  
22          pesticides to be available to the general public  
23          so the public can make a truly informed choice.  
24          See this list, see which countries are on it, and  
25          then decide if they want to buy that product.

1           Further, I was really quite stunned to see,  
2           in a trade journal about a week or so ago from  
3           another country, that Temik -- which, for those  
4           who may be not familiar with it, it's a granular  
5           pesticide that, if a bird touches it, the bird  
6           actually cannot fly away because it will die;  
7           it's that potent. I forget what the LD-50 is on  
8           it; it's something extraordinary.

9           But also, I would hope that somehow we can  
10          look at some alternative safe ways to combat some  
11          problems that exist.

12          For instance, Medfly. That, not just the  
13          wholesale spraying of malathion, perhaps  
14          something like Neem, which has an LD-50 of zero  
15          because you can literally spray something with  
16          Neem, and then eat the fruit or the vegetable.

17          Neem is, for those of you who are aware of  
18          that, it's -- what Neem is to India what petrie  
19          oil is to Australia. It has widespread uses.  
20          There are Neem conferences held all over the  
21          world at various times of year.

22          Anyway, so that's an opportunity that I  
23          think we're missing. And, also, the adequate  
24          removal of the dropped fruit, which is perhaps a  
25          root cause of some of this.

1           And I think immediately of so many starving  
2           people. Why not contact somebody like Second  
3           Harvest, or some of these other gleaning groups,  
4           so that for the grove owners that think that it's  
5           not feasible financially for them to go out and  
6           pick the fruit either from the trees or from the  
7           ground, now maybe they have what will actually  
8           work as a tax benefit to them.

9           There is also, as far as nutrition goes, in  
10          terms of organics -- I'm not really here to talk  
11          about organics -- but there was a study done at  
12          Rutgers University, which I'll be happy to give  
13          for the record.

14          Also, I'm really concerned about adequate  
15          labeling. And that concern is based in when I,  
16          as a consumer, go somewhere to purchase some sort  
17          of pesticide and I see inert ingredients. And it  
18          says, inert ingredients, 97 percent. What are  
19          those inerts?

20          Because I've heard tell that there's some  
21          not too pleasant things in the inerts. So I  
22          really hope that the people who are pushing for  
23          inert -- well, thorough labeling can play a force  
24          in this as well.

25          Thank you very much.

1 MS. ISAACS: Okay. Thank you. Do you have  
2 written testimony to leave?

3 MS. GOULD: No, but I will be happy to  
4 provide it.

5 MS. ISAACS: Thank you very much.

6 Okay. Richard and Terry, you wanted to say  
7 a few words?

8 MR. BARNES: Anybody else that has any  
9 comments? Have we -- okay. Dr. Vanderveen?

10 My comments, I just would like to, finally,  
11 to thank all of you.

12 Your input is very important to us, your  
13 testimony here, and also written input, as Terry  
14 said and as Lynn said, we have until December and  
15 probably after that to get it to us.

16 We want to hear from you; we want you to  
17 stay involved. As I told several people earlier  
18 today, we want you to be a part of this process.  
19 That's the reason for these meetings, that's the  
20 reason that we are going down this road, that's  
21 the reason it's guidance. We want you to be a  
22 member of the food safety team, and although most  
23 of you already are, but we want to keep you  
24 involved and make sure that we have a chance to  
25 keep you involved in it.

1                   So please do provide us with your input, do  
2 provide us with your comments. We need that.

3                   Terry?

4                   DR. TROXELL: Well, yes. I wanted to second  
5 everything Richard has said, that we very much  
6 appreciate that you came out and provided these  
7 comments, a lot of good comments, and we'll be  
8 taking all of them into consideration.

9                   I did want to take one minute to talk about  
10 the rush. Yes, it has been, at least for me,  
11 kind of a rush to get ready for public meeting  
12 and these town hall meetings.

13                   However, the first priority for us is  
14 getting it right, and you can be assured that  
15 we're not going to rush it out if it's not right.

16                   So we're going to be taking all the time we  
17 need, have additional comment documents available  
18 all along the way as necessary until we can get  
19 this right.

20                   Thank you.

21                   MR. VANDERVEEN: I would just like to say we  
22 heard you, we'll pay attention to your comments.  
23 It will take us quite a while to digest them, and  
24 we'll be back, and hope that you will continue in  
25 this process, because it's absolutely critical,

1 we hear that it's critical, and we want you to be  
2 aware of them.

3 And we will -- at each step of the way,  
4 whatever happens, we will try to make you aware  
5 at a time when you can get back to us.

6 Thank you.

7 MS. ISAACS: And thank you for coming down  
8 to Florida.

9 And I would like to remind the folks who are  
10 still here, if you didn't sign in on the  
11 attendance sheet, please do so. There may be  
12 some follow-up mailings or something, or extra  
13 credit points or something, I don't know. I  
14 don't know. I'm just kidding, you know. So be  
15 sure so sign up so we've got a record of who  
16 participated.

17 And thank you so much for your active  
18 participation today. I didn't attend the other  
19 two meetings, but I'll bet you ours was the most  
20 interesting so far.

21 So thanks a lot. Send in your written  
22 comments, if you've got some, and many, many  
23 thanks to Clayton Hutcheson for his hospitality  
24 of him and his staff, and Audrey Norman  
25 (phonetic).



C E R T I F I C A T E

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THE STATE OF FLORIDA,        )  
COUNTY OF PALM BEACH.        )

I, Toni M. Salopek, Registered Professional Reporter, State of Florida at large, do hereby certify that I was authorized to and did report the above public hearing at the time and place herein stated, and that it is a true and correct transcription of my stenotype notes taken during said public hearing.

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