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UNITED STATES  
ENVIRONMENTAL PROTECTION AGENCY

PESTICIDE PROGRAM DIALOGUE  
COMMITTEE MEETING

DAY ONE - NOVEMBER 1, 2017

Conference Center - Lobby Level  
2777 Crystal Drive  
One Potomac Yard South  
Arlington, Virginia 22202

1 P R O C E E D I N G S

2 MR. KEIGWIN: Is this on? Now it is. Okay.  
3 So, we want to welcome you all to the new PPDC,  
4 Pesticide Program Dialogue Committee. I see a number of  
5 familiar faces, and some new faces around the table as  
6 well. So thank you all for joining us.

7 To kick things off this morning, I first want to  
8 introduce Dr. Nancy Beck, who is the Deputy Assistant  
9 Administrator for the Office of Chemical Safety and  
10 Pollution Prevention.

11 DR. BECK: Great. Good morning. How is  
12 everyone? All right. Nice to see you all here. I  
13 especially want to welcome the new members of our  
14 committee. Stepping up and volunteering is, you know,  
15 an awesome thing that public citizens can do, so I  
16 appreciate all the time you're going to take, because  
17 your engagement will really help us.

18 I encourage you all to be active and to be very  
19 vocal, because the more vocal you are, the better our  
20 outcomes will be in the end. And I look forward to the  
21 introductions and meeting you all over the next two  
22 days.

23 I also want to welcome members of the public  
24 that are here today. Your constructive input is also  
25 extremely important to us. It is through your feedback

1 that we're going to learn, we're going to grow, and  
2 we're going to ensure that we're putting forth the best  
3 regulations to protect public health and the  
4 environment, and to also ensure that we're maximizing  
5 the benefits of pesticides to ensure appropriate food  
6 security, which is very important.

7 I also want to introduce some other key members  
8 of our new team. To the right is Kate Bennett. If you  
9 haven't met her yet, she is from our Office of Public  
10 Engagement and she has been spending most of her summer  
11 with the agricultural community. After me you'll hear a  
12 little bit from Jeff Sands, who is our new agricultural  
13 advisor working in the Administrator's Office. And I  
14 also want to introduce Charlotte Bertrand. There we go.  
15 Charlotte is our new acting principal deputy assistant  
16 administrator. We stole her from OLEM, because she has  
17 a really strong background in risk assessment and  
18 program management, so she is an incredible asset to our  
19 team. So, thank you, Charlotte.

20 I'll just give you a little bit about my  
21 background, so you can understand where I'm coming from.  
22 I came to EPA in May with about 20 years of applied  
23 public health experience. I worked at the Washington  
24 State Department of Health, so I have a little bit of a  
25 northwest bias, and I came to D.C. to be a fellow in the

1 Office of Research and Development, where I worked on  
2 looking at how we can incorporate human susceptibility  
3 and variability into hazard assessments.

4 And then after about two years I went to the  
5 Office of Management and Budget, where I finally became  
6 an official government employee, and I spent about 10  
7 years in the Office of Information and Regulatory  
8 Affairs. And this was really an eye-opening and amazing  
9 experience to be a career staffer on the White House  
10 grounds.

11 One of the many things I learned about is that  
12 there's lots of different types of science, right? So  
13 there's what I'll call exploratory scientific research,  
14 which helps us look at new ideas and hypotheses and  
15 helps us view where we should put our future research  
16 dollars. This is extremely important research, and I  
17 don't want anyone to think that I underestimate its  
18 value.

19 But the other type of research is the scientific  
20 research that's robust enough to support a regulation,  
21 and this is extremely important research. In these  
22 studies, we have to look at them a little bit  
23 differently. We need to ensure that they are sound  
24 methodology, we need to ensure that they're transparent.  
25 We need to understand that they're objective, right?

1 These studies have to be strong enough to support what  
2 could be potentially very expensive and costly  
3 regulations, and also regulations that could have  
4 extremely high benefits. So it is really important that  
5 we get these right, that we get this right, and that  
6 these studies be extremely strong.

7 The costs of getting it wrong are just too high.  
8 So, as you are aware, in EPA, we get sued quite a bit,  
9 and in the Office of Pesticide Programs, we get sued  
10 quite a bit. So I don't take this lightly. And so our  
11 priorities need to ensure that we follow the rule of law  
12 and that we're relying on the strongest scientific  
13 evidence to support our decisions.

14 So this is extremely important to the program,  
15 and your input on the strength of our studies and our  
16 valuations will be critical.

17 Throughout my career, which included working for  
18 American businesses and also working for four different  
19 Presidential administrations, I think it was Clinton,  
20 Bush, Obama and now the Trump administration, I have  
21 always worked to make sure that the science and  
22 technical assessments that the Government puts out are  
23 objective and transparent and sound, and I intend to  
24 continue to apply these principles at EPA.

25 There is already a very strong foundation within

1 the Office of Pesticide Programs. If you look at the  
2 guidance documents and the assessments they release,  
3 they're probably some of the best in the Government, if  
4 not the best. So I look forward to working with Rick  
5 and his staff to continue to ensure that the reputation  
6 of this program remains as strong as it is. And this is  
7 where you all can help with that.

8 I also want to say, it was an honor to be part  
9 of the team that made Rick official in his capacity in  
10 September. If you haven't heard, Rick is officially the  
11 director of our Office of Pesticide Programs now. So  
12 that is a -- I think a great thing for all of us.

13 The other part of the regulatory program that's  
14 important is where you all come in, because the  
15 decisionmaking, again, I cannot stress the importance of  
16 stakeholder engagement. So it is through coordination  
17 with you, our state regulatory partners, your engagement  
18 on the PPDC, that we can really come to a better  
19 understanding of what are some complex policy decisions  
20 to make sound decisions that are important to all our  
21 stakeholders. So again, I don't want to underemphasize  
22 the importance of your role.

23 I'm also a stickler for good government. I  
24 believe we have responsibility to communicate well in a  
25 clear and timely manner. That means we're going to

1 strive to get information to all of you in advance of  
2 our discussions so that you can digest it, so that you  
3 can think about it, so that you can be vocal and engage.

4 I'm also a stickler for timelines, so the 2022  
5 PRIA deadlines, they stress me quite a bit. I'm sure  
6 they stress Rick a little bit. If you saw the draft  
7 strategic plan that EPA released last month, there are  
8 two strategic measures that are going to help keep our  
9 program on track. We want you to help us track them,  
10 and these are measures that help us keep our timelines  
11 under PRIA and also under FIFRA.

12 And then, finally, the other realism is that we  
13 have continuing resource challenges that we have to work  
14 with as we get towards this 2022 deadline. So again,  
15 this is where the committee comes in to get your  
16 feedback to help us on complex issues.

17 What are we going to do about dicamba in 2018?  
18 How are we going to approach the synergy issue? These  
19 are important things where your thoughtful advice is  
20 really needed and it's welcomed by me, it's welcomed by  
21 our team, it's welcomed by Rick, it's welcomed by his  
22 staff.

23 So I think OPP has put together a very robust  
24 agenda for you to help you understand some of our  
25 priorities and some of our challenges. There are more

1 than enough to fill two days.

2 So again, my schedule is going to prevent me  
3 from being at the whole meeting today. I will be here a  
4 little bit this morning. I hope to come back again  
5 tomorrow morning if all goes well, but if I'm not here,  
6 I look forward to hearing about how your discussions go,  
7 I'm sure I will get updates and briefings.

8 So, just before turning it back to Rick, I just  
9 want to once again stress the importance of your  
10 engagement and how important it is to us, and at any  
11 point in time, I welcome your feedback and feedback from  
12 Rick and his team so that we can keep ourselves on a  
13 good path to utilize you guys in the most efficient way  
14 to inform our decisions.

15 So, thank you all. Again, I appreciate your  
16 participation.

17 MR. KEIGWIN: Thank you, Nancy.

18 I also want to introduce Jeff Sands, who is our  
19 new ag advisor.

20 MR. SANDS: Good morning, and welcome to all  
21 committee members and public participants. My name is  
22 Jeff Sands, and I am the agricultural advisor to the  
23 administrator. I would like to thank all of you here  
24 today for your service to this committee.

25 Cross-functional constructive dialogue such as



1 the PPDC are critical for meaningful engagement between  
2 EPA and all relevant stakeholders. The groups  
3 represented at this meeting make for a diverse mix of  
4 perspectives and expertise that will serve as an  
5 informational platform in the regulatory process. Your  
6 collective input into this dialogue on complex policy  
7 issues equips us with information needed to make the  
8 best decisions in order to protect human health, the  
9 environment, and ensure our nation's food security  
10 through our actions here at the agency.

11 Your agenda over the next couple of days is  
12 quite full. I look forward to hearing all of the  
13 outputs from discussions, and again, I'd like to express  
14 my appreciation for your efforts in serving on this  
15 committee and all accompanying workgroups. Thank you.

16 MR. KEIGWIN: Thanks, Jeff.

17 Kate, did you want to give a couple of remarks?  
18 I didn't want to put you on the spot.

19 MS. BENNETT: Hi, Kate Bennett with the Office  
20 of Public Engagement. I just wanted to say thanks for  
21 the opportunity to sit in on your conversations. I see  
22 a lot of familiar faces at the table, and then others  
23 that I would like to get to know. We have an open-door  
24 policy in the Office of Public Engagement, so we work  
25 very heavily with Nancy and Rick and now Jeff, who we're

1 excited to have on the team, and any way we can be  
2 helpful, whether it's here, whether it's with the folks  
3 you represent out in the field, we're just eager to  
4 learn more and help facilitate stakeholder engagement  
5 with the Office of Pesticides, and also with the  
6 administrator himself. So, thank you for the  
7 opportunity to listen and learn today.

8 MR. KEIGWIN: Thanks, Kate.

9 So, like I was saying earlier, we have a lot of  
10 new faces, and so if we could go around the room, maybe  
11 start to my right and introduce yourselves.

12 MS. KUNICKIS: I'm Sheryl Kunickis, I'm the  
13 director of the Office of Pest Management Policy at  
14 USDA.

15 MS. LIANG: Hi, my name is Charlotte Liang, I'm  
16 with U.S. Food and Drug Administration Office of Food  
17 Safety.

18 MR. HOFFMAN: Eric Hoffman, Deputy Director,  
19 Armed Forces Pest Management Board.

20 MR. WHITTINGTON: Andy Whittington with the  
21 Mississippi Farm Bureau Federation.

22 MR. PECK: Preston Peck, Policy Director of  
23 Toxic Free North Carolina.

24 MS. TROSSBACH: I'm Liza Fleeson Trossbach with  
25 the Virginia Department of Agricultural and Consumer

1 Services, and I'm representing the Association of  
2 American Pesticide Control Officials, or AAPCO.

3 MR. REABE: I'm Damon Reabe, president of  
4 Dairyland Aviation, a Wisconsin aerial applicator  
5 representing the National Agricultural Aviation  
6 Association.

7 MR. TAYLOR: Donny Taylor representing the  
8 Agricultural Retailers Association.

9 MR. GRAGG: Richard Gragg, Florida A&M  
10 University School of the Environment.

11 MS. FIGUEROA: Iris Figueroa, Farmworker  
12 Justice.

13 MS. LIEBMAN: Hi, Amy Liebman, I'm the Director  
14 of Environmental and Occupational Health, Migrant  
15 Clinicians Network.

16 MS. SANSON: Charlotte Sanson, head of  
17 regulatory affairs and compliance with Bayer.

18 MR. BENNETT: Steve Bennett with the Consumer  
19 Specialty Products Association.

20 MR. GJEVRE: Eric Gjevre, Tribal Pesticide  
21 Program Council.

22 MR. LAJOIE: Dominic LaJoie, I'm a potato grower  
23 from Maine, I'm representing the National Potato  
24 Council.

25 MS. ASMUS: Amy Asmus with Smith Farm Supply

1 representing the Weed Science Society of America.

2 MR. FREDERICKS: I'm Jim Fredericks with the  
3 National Pest Management Association.

4 MR. WAKEM: Good morning, I'm Edward Wakem  
5 representing the American Veterinary Medical  
6 Association.

7 MS. CALLIES: I'm Rachel Callies, I'm the  
8 manager of North American products registration at S.C.  
9 Johnson.

10 MR. TUCKER: I'm Tim Tucker, past president of  
11 the American Beekeeping Federation, I'm representing all  
12 beekeepers, not just those in our organization, and  
13 bees, hopefully.

14 MR. COPE: I'm Stan Cope and I'm the immediate  
15 past president of the American Mosquito Control  
16 Association, so a couple of presidents here. And that's  
17 the organization that I'm here representing.

18 MR. HOBBS: Aaron Hobbs of RISE, Responsible  
19 Industry for a Sound Environment, a trade association  
20 supplying solutions to golf, lawn care, pest control and  
21 other markets.

22 MS. McCURDY: Good morning, I'm Leyla McCurdy  
23 with the Children's Environmental Health Network.

24 MS. SELVAGGIO: Hi, I'm Sharon Selvaggio with  
25 Northwest Center for Alternatives to Pesticides.

1 MS. WILSON: Good morning. I'm Nina Wilson with  
2 Gowan, representing the Biological Products Industry.

3 MR. THOSTENSON: Good morning, my name is Andrew  
4 Thostenson, I am a pesticide program specialist with  
5 North Dakota State University, and I represent the  
6 American Association of Pesticide Safety Educators.

7 MR. McLAURIN: Good morning. My name is Allen  
8 McLaurin, I'm actually a cotton farmer in North Carolina  
9 and I'm here representing the National Cotton Council.

10 MS. BISHOP: Hi, everyone, I am Pat Bishop with  
11 Humane Society International and Humane Society of the  
12 United States.

13 MS. BURD: Lori Ann Burd, Center for Biological  
14 Diversity representing all life on Earth, but especially  
15 endangered species.

16 MS. HARRIOTT: Nichelle Harriott, Science and  
17 Regulatory Director, Beyond Pesticides.

18 MS. PALMER: Cynthia Palmer, Director of  
19 Pesticides, Science and Regulation, American Bird  
20 Conservancy.

21 MR. VROOM: Good morning, I'm Jay Vroom,  
22 President, CropLife America, the trade association  
23 representing the Agricultural Pesticides and Crop  
24 Biotechnology Industry.

25 MR. ALARCON: Good morning, Walter Alarcon, I

1 work with the SENSOR pesticides programs, we track acute  
2 pesticide poisonings and I work for CDC and NIOSH.

3 MR. GORMAN: John Gorman, I'm with EPA Region 2  
4 and I'm the chief of Pesticides and Toxic Substances.

5 MR. KEIGWIN: And then I think we have one or  
6 two members who are joining us by phone. So if you're a  
7 PPDC committee member, would you please introduce  
8 yourself.

9 MS. SHULTZ: This is Gina Schultz from U.S. Fish  
10 & Wildfire Service. Could you hear me?

11 MR. KEIGWIN: Can you hear us, Gina?

12 MS. SHULTZ: Yeah, I'm sorry, yes, I can hear  
13 you.

14 MR. KEIGWIN: Okay, great, thanks.

15 And then is Dan Kunkel on the phone?

16 MR. KUNKEL: A lot, and I kind of -- (poor  
17 connection).

18 MR. KEIGWIN: Dan is going to be able to join us  
19 intermittently. Dan is with the IR4 program based at  
20 Rutgers University.

21 (Operator interruption.)

22 MR. KEIGWIN: Let's review the agenda for the  
23 next day and a half. As Nancy, Kate and Jeff said, it's  
24 a very ambitious agenda, we probably could have put more  
25 on here, but we only had a day and a half, but these are

1 some issues that we as a program could really benefit  
2 from the collective input of all of you. So we're going  
3 to start the morning with a presentation from Jim  
4 McCleary. Jim is from the part of EPA that oversees all  
5 of the federal advisory committees for the agency, and  
6 because so many of you are new to the PPDC, or maybe  
7 haven't been on the PPDC for some time, we thought it  
8 would be helpful for Jim to come over and just remind us  
9 of all -- all of us about what our roles are as being  
10 members of a federal advisory committee.

11 We will then take a break, and then Mike Goodis,  
12 the Director of our Registration Division, will lead a  
13 session and a report back from the Pollinator Protection  
14 Plan Metrics Workgroup that has been working on  
15 developing some measures to evaluate the effectiveness  
16 of the managed pollinator protection plans, and this  
17 will be a topic where we will want to get your input on  
18 the feedback from the workgroup and see if you all think  
19 that that's a path forward that the agency should be  
20 considering.

21 We will then break for lunch, and then in the  
22 early afternoon, we're going to give you, again, led by  
23 Mike and his staff, an update on what's been happening  
24 with dicamba and some recent regulatory changes that  
25 we've put in place for the 2018 season. And then we

1 will have an update on the work that we've been doing to  
2 evaluate claims of synergy and how we're incorporating  
3 that science into the registration program.

4 After a break, we've sent around to you all in  
5 advance a number of one-pagers on some topics that we  
6 had heard you all were interested in hearing about.  
7 We've reserved about an hour for you all to ask  
8 questions about those issues, and if there are others  
9 and time permitting we can take those as well.

10 And then we'll end the day with giving you all  
11 an update on where things are with the Pesticide  
12 Registration Improvement Act, our progress under the  
13 current statute, and some of the changes that could take  
14 place were Congress to re-authorize the program.

15 And then tomorrow morning is almost exclusively  
16 dedicated to getting your all's feedback on the Worker  
17 Protection Rule that was promulgated in 2015 and the  
18 Certification of Pesticide Applicators Rule that was  
19 finalized at the beginning of this year. Many of you  
20 were here for the May PPDC meeting and the regulatory  
21 reform public meeting that we had a subsequent day, and  
22 there were a lot of comments that we received relative  
23 to those two rules, and now what we really want to do is  
24 get you all to have a dialogue about what we heard and  
25 we'll summarize those for you and then see if we have



1 some consensus advice for moving forward on the  
2 implementation of those two rules.

3 And then in the middle of all of that, Arnold  
4 Layne, who is Deputy Director for Management here in the  
5 Office of Pesticide Programs, will give a brief report  
6 out on yesterday's first meeting of the new Public  
7 Health Workgroup.

8 So a pretty packed day. In order to do this  
9 effectively, particularly for tomorrow, we're going to  
10 start at 8:30, not 9:00. So the guards were really  
11 moving you all through rather quickly yesterday, so I  
12 want to thank Dea and her team for helping to facilitate  
13 that. I think that was the fastest we've ever gotten  
14 people into the building for a meeting, but that's  
15 because you all showed up so early, maybe because you're  
16 used to how long it takes to get into our building. So  
17 do that again.

18 So a couple of housekeeping things before we get  
19 going. PPDC members and members of the public, if you  
20 have not signed in at the desk as you came in, please do  
21 so that we have a recording of your presence here. Your  
22 tent cards, when we open it up, just, you know, put it  
23 up on its side so that I know that you want to speak or  
24 make a comment.

25 For those of you who have been in this room

1 before, you know that we do our best with the audio  
2 system that we have, so we did do a tech check last  
3 night; it was working great. So I have all the  
4 confidence that it will continue to work great, but just  
5 remember that if you see the red light on your mic',  
6 that means you're live. For people on the phone, to  
7 hear you and anything that you want to say, your mic'  
8 has to be on, otherwise they're not going to be able to  
9 pick up the conversation. And then when you're finished  
10 speaking, if you could just turn the mic' off.

11 For those of you participating via  
12 teleconference, we currently have a global mute in  
13 place. We can control the muting and unmuting, so  
14 please don't unmute your line unless we ask you to. And  
15 then at the end of each day, we will have a 15-minute  
16 public comment session. If members of the public are  
17 interested in making a comment during those sessions,  
18 please sign up at the registration desk out front.

19 And so with that, let me ask Jim to come up.

20 MR. McCLEARY: Good morning, everyone. Thank  
21 you for showing up this morning, participating. Let me  
22 just grab my notes for a minute, because I can't read  
23 that screen from here.

24 Okay. This was an overview of the Federal  
25 Advisory Committee Act at EPA, how we implement it here.

1 The Federal Advisory Committee Act requires us to set up  
2 procedures for every agency who has even a single  
3 federal advisory committee to uniformly manage them, and  
4 this is how we do it here at EPA.

5 First of all, welcome. And this is -- let me  
6 see. Dea? How do I advance it? That's okay. Thank  
7 you.

8 Okay. Welcome on board. You're all volunteers,  
9 and I can't tell you how much we appreciate that here at  
10 EPA. We could not afford to buy the type of experience  
11 and the points of view that are in the room today, so  
12 thank you for that. I know it's a big commitment. And  
13 thank you also to the organizations that you represent  
14 for giving you time to be here with us today. We're  
15 excited that you're here with us and we look forward to  
16 hearing your comments and your participation throughout  
17 the meeting.

18 The Federal Advisory Committee Act was  
19 established in 1972 and it governs the establishment,  
20 operation and termination of federal advisory  
21 committees. FACA may apply when EPA utilizes and  
22 convenes committees to obtain group advice. So if we  
23 were going out to find individual advice from any one of  
24 you or from any individual around the country, anywhere,  
25 we wouldn't need to invoke FACA, but the fact that

1 you're all here today giving us group advice means that  
2 FACA applies, and that's why we've done what we've done  
3 by setting up this federal advisory committee.

4 FACA requires that we have a charter. The  
5 charter is filed with the Congress of the United States,  
6 and it lists the objectives and descriptions and duties  
7 of the committee, the period of time for which the  
8 committee will do its work, officials to whom the  
9 committee reports, and the estimated number of meetings  
10 and the costs associated with it.

11 Charters are generally good for two years. We  
12 renew the charter for the PPDC every two years, and you  
13 are currently fully chartered and up and running.

14 FACA requires specific things about membership.  
15 Members, all members of all federal advisory committees  
16 throughout EPA serve at the discretion and the pleasure  
17 of the administrator. Committees must be fairly  
18 balanced for the points of view represented and the  
19 functions to be performed. And as you were going around  
20 the room today, I noticed that this is a very  
21 well-balanced committee. A lot of different points of  
22 view are represented here, and that's a great thing for  
23 this committee and the EPA.

24 Now, EPA appoints members depending on whether  
25 the member is being asked to represent the point of view

1 of a group, which is a representative member. Everyone  
2 here today is a representative member. Or provide the  
3 agency with their best independent judgment and  
4 expertise, and those are special government employees.  
5 Special government employees, or SGEs, are a separate  
6 animal from what everyone in here is today. They're  
7 actually paid, often times paid for their participation,  
8 and they represent their own personal expertise. Many  
9 times they're scientists or other specialists in their  
10 field.

11 Being a representative member is different, it  
12 means that you are representing the point of view for  
13 the group that you're representing. FACA also requires  
14 public access. We have a healthy number of members of  
15 the public here today, and that's a good thing.

16 The transparency that FACA provides allows the  
17 members of the public to see the process, to see the  
18 work that this committee is doing and thus the work that  
19 the agency is doing.

20 We have to publish meetings in the Federal  
21 Register. This is a public notice requirement. Meeting  
22 notices have to be published in the Federal Register at  
23 least 15 days prior to the meeting. And opportunities  
24 have to be provided for the public to provide their own  
25 comments so that their voice is also heard at the

1 meetings.

2 Openness and transparency, we've touched on it a  
3 little bit. Detailed meeting minutes and committee  
4 documents are available to the public, and I know that  
5 meeting minutes aren't available yet. They will be --  
6 they have to be certified by the committee chair within  
7 90 days of this meeting being completed. And the  
8 meeting documents have been already published to the  
9 website.

10 Requirements apply to all meetings, including  
11 face-to-face meetings, teleconference meetings,  
12 videoconference meetings, and any other electronic  
13 medium that we may come up with in the future to hold  
14 federal advisory committee meetings here.

15 Okay. The DFO -- let me tell you, DFO stands  
16 for designated federal official. Dea Zimmerman is your  
17 DFO, and I have to say she is one of the finest DFOs the  
18 EPA has. She's terrific. She is your link to the  
19 agency. If you have questions, you should approach her  
20 with them. And Dea will reach out to me and to others  
21 to find the right answers for you.

22 EPA must designate a federal employee, that's  
23 Dea, to be your designated Federal official for each  
24 committee. DFOs manage the day-to-day operations of the  
25 committee and the DFO must attend every meeting, approve

1 the agenda, call the meeting to order and adjourn it, if  
2 it's determined to be in the public's interest.

3 What about you? What are your roles and  
4 responsibilities as a member? We ask you to  
5 participate. Nonattendance impacts the efficiency and  
6 effectiveness of the entire group. You were asked to be  
7 on the committee for a reason, that's because we want to  
8 hear your voice.

9 We ask you to study and review the materials in  
10 advance. That's the come-prepared-to-class requirement.  
11 We ask you -- we do send the materials out in advance  
12 and we ask that you review them so that you are prepared  
13 to engage fully at the meeting. And then to speak up.  
14 We want to hear your views during the course of the  
15 meeting.

16 We ask you to represent your interest group or  
17 organization and work towards consensus, when  
18 appropriate. It's not always possible, but when it is,  
19 we ask that you try to reach consensus with your fellow  
20 members and we ask you to provide feedback to your  
21 chair. The chair provides leadership to the committee  
22 and works with the DFO to develop committee agendas,  
23 schedule committee activities, coordinate work and  
24 obtain consensus.

25 We ask you to collaborate to accomplish the

1 committee's charge. Serve your appointed term. If you  
2 develop a conflict and can't serve, please let your DFO  
3 know immediately. If you can't serve your term, it may  
4 affect the balance of the committee, so it's possible  
5 that the committee wouldn't be able to meet again until  
6 your point of view on the committee is reappointed to  
7 someone else. And we ask you to have close  
8 communications with your DFO.

9           Okay. There are some travel and ethics  
10 considerations that you should be aware of to keep  
11 everyone out of trouble, and we want to help you do that  
12 here. EPA may pay travel and per diem for members on  
13 official travel. So all of you here who traveled, I  
14 think it's greater than 50 miles from here, are probably  
15 on an official travel status, and you've worked with Dea  
16 and her staff, her colleagues, to coordinate that  
17 travel.

18           We ask you to refrain from any language or  
19 activities that could compromise the civility of the  
20 committee and maintain an environment that promotes  
21 participation of individuals, regardless of race, color,  
22 national origin, age, sex, religion, disability or  
23 sexual orientation. This is our plays-well-with-others  
24 requirement. And if you have children in kindergarten,  
25 you've seen that before. And with people on this



1 committee, I expect no problems with that here.

2           The next one is a big one. Members may not  
3 lobby Congress in their capacity as an advisory  
4 committee member. We've had some committees where we've  
5 had some trouble with this in the past. It is not okay  
6 for you to go up to Capitol Hill to meet with your  
7 member of Congress or other members of Congress or  
8 Congressional staff to lobby them on behalf of this  
9 committee. You do not represent the committee to  
10 Congress.

11           There is a process by which EPA will communicate  
12 with members of Congress and the legislative branch. It  
13 is not by individuals going up there.

14           Now, while I say that, by being members of this  
15 committee, you don't lose your rights as a citizen. You  
16 can still meet with your member of Congress in your own  
17 capacity. We call that "on your own time and on your  
18 own dime." So please don't leave the meeting today or  
19 tomorrow and go up to Capitol Hill while you should be  
20 participating in the meeting to meet with your member of  
21 Congress, but if you want to meet with your members of  
22 Congress or anyone else up there in your own capacity as  
23 a private citizen, you are welcome to do that.

24           This can sometimes get a little tricky, so if  
25 you have any questions with it, speak to Dea or me and

1 we will help you navigate these sometimes treacherous  
2 waters.

3 EPA employees may not direct or encourage  
4 members to contact Congress with concerns of pending  
5 legislation, so that means that no one at the front  
6 here, myself included, can ask you to go up to Capitol  
7 Hill and say, hey, we really need you to speak to this  
8 member of Congress about this issue, please do that for  
9 us. We can't do that ourselves as Federal employees and  
10 you can't do it either as members of the committee.

11 Committees provide advice and/or recommendations  
12 directly to EPA, Congress and the President. Your  
13 advice here goes right to the OPP staff, I think most  
14 staff members are here with us today. This is a  
15 dialogue committee, so you don't produce written  
16 reports. That's why it's so important for your  
17 participation today, to be present, to be engaged and  
18 active in the proceedings of this committee.

19 With EPA approval, committees may form  
20 subcommittees and gather facts and draft documents to  
21 assist the parent committee, and I know that PPDC does  
22 utilize subcommittees and workgroups from time to time.  
23 Subcommittees must report their findings directly to the  
24 parent committee for full deliberation, approval and  
25 discussion. So subcommittees can't go directly to the

1 OPP staff with their recommendations, it has go through  
2 PPDC in general.

3 Okay. At EPA, our subcommittees follow the same  
4 requirements of FACA, including guidelines for openness,  
5 transparency and membership. So a subcommittee at EPA  
6 goes through the full membership process, and the same  
7 openness and transparency process, the same notice and  
8 registering -- notice in the Federal Register that the  
9 main committees would do.

10 Committees may also form workgroups to conduct  
11 research, perform studies or gather facts. Working  
12 groups are small, informal meetings. These are -- we  
13 call workgroups here they're for a specific purpose and  
14 a limited term. So if there's a specific project that  
15 the committee needs done and they want to put a small  
16 group of the general committee members to work doing it,  
17 we call that a workgroup. Workgroups are not required  
18 to follow the same openness requirements, the same  
19 notice requirements as committees and subcommittees are.

20 Working groups are also not subject to FACA. I  
21 just said that, I'm sorry. Okay.

22 Additional resources for you. Your DFO is your  
23 best point of contact for any questions that you have.  
24 Dea, as I said before, is terrific, and she'll reach out  
25 to me and others to get the answers that you need to do

1 your jobs here.

2 We provided a link to the Federal Advisory  
3 Committee Act in case anyone is interested in reading  
4 it. We have attorneys here that do that, so you don't  
5 have to if you don't want to.

6 We have also our FACA page. This is the page of  
7 my office on the Internet site that will give you some  
8 more general information about FACAs at EPA, not just  
9 PPDC, but the other FACAs here as well. Our telephone  
10 number there for the Federal Advisory Committee  
11 Management Division is there. That will give you our  
12 general number and they can get you the resources that  
13 you need within our office.

14 And that's it. That's the end of my  
15 presentation. Again, I would like to thank everyone for  
16 your participation at the PPDC, you're making the  
17 process better because of it. I can entertain any  
18 questions that anyone might have now.

19 Yes?

20 MR. KEIGWIN: Stan, then Cynthia.

21 MR. COPE: Are there any occasions where there's  
22 a formal vote by the committee, and if so, is it  
23 majority rules or how does that work? Thank you.

24 MR. McCLEARY: Good question. The OPP staff  
25 runs the committee meetings. I don't believe that this

1 committee, the dialogue committee, has any votes. We're  
2 here to hear your dialogue and to hear what you have to  
3 say and we are looking for everyone's point of view, but  
4 this is a committee that does not utilize a voting  
5 process.

6 MR. KEIGWIN: Cynthia?

7 MS. PALMER: Thanks. I'm just curious if there  
8 are specific metrics or criteria in that distinction  
9 between a subcommittee and a working group. I know it's  
10 already been an issue in the Public Health Committee  
11 with its workgroup. And I'm just wondering, I mean, are  
12 there certain numbers? Or I mean you say small, you say  
13 limited term, what exactly does that mean?

14 MR. McCLEARY: Okay. I guess there's a slight  
15 amount of room for interpretation there. Workgroups  
16 cannot continue on indefinitely, like the PPDC continues  
17 on. We renew the charter every two years for you.  
18 Workgroups can't do that. It has to have a specific  
19 purpose and a limited duration, so usually these are  
20 research projects or writing projects. PPDC doesn't  
21 come up with a written project, so we wouldn't need it  
22 for that, but if there was a research project that we  
23 needed to occur, that may be reported out at the next  
24 meeting, that's when we might utilize a working group  
25 for the PPDC, this committee. There is a slight amount

1 of wiggle room there, I guess, but not a lot.

2 Any other questions?

3 (No response.)

4 MR. McCLEARY: Okay. Well, I will linger  
5 through the break in case anyone wants to reach out to  
6 me privately, and thank you very much for your time  
7 today, and thank you for your service.

8 MR. KEIGWIN: All right. Thanks, Jim.

9 So we are running way ahead of schedule, which  
10 is great, so we're not going to take a break. So I'm  
11 going to ask Mike Goodis to come up and we'll go just  
12 right into the next topic and we'll take a break after  
13 that.

14 MR. GOODIS: I'd like to introduce myself, my  
15 name is speaker corner. There we go. All right.

16 So, definitely running ahead of schedule.  
17 That's good. All right.

18 So, again, my name is Mike Goodis and I'm the  
19 Director of Registration Division. It's a pleasure to  
20 be here with you this morning. I want to lead a  
21 discussion regarding the workgroup, the PPDC workgroup,  
22 on Pollinator Protection Plan Metrics. For some of you  
23 who may recall, this was put in place a year ago with  
24 the goal of writing a recommendation to the full PPDC  
25 membership in this meeting, so it's a year term, and the

1 membership -- and we'll get into some of the details of  
2 this later.

3 The workgroup -- and it will be Andy Whittington  
4 and Rose Kachadoorian will be making a presentation on  
5 the work -- on the workgroup and their progress and  
6 their recommendations to the panel. And so -- and  
7 that's, as Rick mentioned before, you know, this is a  
8 recommendation to the panel for support for our  
9 recommendations to the EPA for consideration.

10 So I know we have a lot of new members to the  
11 membership here, and so just for a little bit of  
12 background on how this all came about, this is, again,  
13 regarding pollinator health, and specifically use of  
14 pesticides, you know, for controlling various pest  
15 issues. A lot of this really started back in 2014 with  
16 the President's Executive Order asking for federal  
17 agencies to work together to develop a strategy on how  
18 we can help improve pollinator health overall.

19 And so that was an effort that was co-chaired by  
20 the EPA and USDA, and that strategy was published I  
21 think in 2015. But in that, again, federal agencies  
22 committed to various actions, and so the EPA, and  
23 specifically for EPA, germane to this conversation, was  
24 measures to try to restrict products that are known to  
25 be toxic to bees under certain conditions for commercial

1 pollination, but also to work with states and tribes in  
2 developing pollinator protection plans. And this was  
3 really building on the success of some states,  
4 Mississippi, North Dakota, Florida, Colorado and  
5 California, where they have led the effort in working  
6 with their stakeholders in identifying opportunities for  
7 beekeepers and growers to have a better understanding  
8 and communicate intended actions regarding pesticide  
9 applications and also pollinator activities as well.

10 And so we thought that was a great concept that  
11 we wanted to continue to support, and so as part of the  
12 EPA's effort, the EPA finalized our mitigation policy  
13 regarding acute exposure to bees, and that was completed  
14 in January of 2017. That, again, the scope for that  
15 work was mainly limiting the -- restricting the use of  
16 certain pesticides under conditions where bees are being  
17 brought in for commercial pollination services during  
18 bloom time. And we acknowledged there was some  
19 exceptions for those particular uses.

20 All other uses outside of that scope, again, we  
21 were relying on and encouraging states and tribes to  
22 develop these pollinator protection plans. And but we  
23 also acknowledged that we needed to monitor the progress  
24 of those plans and, to some extent, the effectiveness of  
25 those plans to see if that was really a good model that



1 was going to result in some improvement of pollinator  
2 health in reducing pesticide exposure to bees.

3 From the very beginning, there were questions  
4 like, well, how do you intend on measuring? How do you  
5 intend on evaluating whether the plans overall are  
6 actually achieving its objective? And at the time we  
7 really didn't have a full understanding of how best to  
8 do that. And at the same time, too, we didn't want to  
9 lock in states and tribes in structuring their plans to  
10 just meet whatever the measures were that we were  
11 looking at here at the EPA at a national scale.

12 I think what we observed and recognized was a  
13 lot of diversity across the country regarding use of  
14 bees and the types of crops that are out there. There  
15 are some states that are more targeted for commercial  
16 pollination, some of the states are more for honey  
17 production, some states are maybe neither, there may be  
18 more hobby, urban type of pollinator use. And for some  
19 states, I think they recognize, too, that maybe their  
20 priority in working with their stakeholders were more  
21 about habitat and forage development and protection.

22 So we thought really that's why flexibility was  
23 important for the states, and in developing those  
24 pollinator protection plans and working with their  
25 stakeholders. So again, we didn't want to limit, you

1 know, what the scope of those plans were. Nor did -- we  
2 were requiring them. Again, this is all voluntary  
3 efforts by the states themselves. And so -- but again,  
4 the challenge was how do we look at whether these  
5 pollinator protection plans at a national level are  
6 actually effective. Are they actually improving, you  
7 know, the potential reduction of pesticide exposure to  
8 bees, which would help contribute to general pollinator  
9 health.

10 And so that's where this came about, about a  
11 year ago we felt it would be a great opportunity for  
12 PPDC to establish a workgroup and to provide a  
13 recommendation to the agency. And so, again, you'll get  
14 more information from a report out from the workgroup,  
15 but, you know, at this point -- you know, and again, I  
16 think the -- just from my observation, too, again, I was  
17 the EPA lead for the workgroup during the course of the  
18 year. You know, I thought the -- it was great  
19 participation from the workgroup members. We met  
20 monthly, mostly in conference call and in some cases in  
21 person, in conjunction with these meetings, and I think  
22 the group is at a place to make a recommendation to the  
23 full membership.

24 So with that, I will turn it over to Andy.

25 MR. WHITTINGTON: Thank you. And thanks,

1 everybody, for being way ahead of schedule, because I  
2 was planning on studying this during the break. So this  
3 will be a fun adventure for all of us.

4 So, this is going to follow very closely with  
5 what we just listened to from the attorney because I  
6 think this workgroup did function very much like the  
7 workgroup is supposed to. So the workgroup was convened  
8 to come up with some process to try and measure the  
9 effectiveness of state pollinator plans on a national  
10 scale. And that process involved the problem  
11 definition, a review of the MP3 plans that had been  
12 developed, a look at what a national-level metrics guide  
13 would look like, and then looking at what an  
14 implementation plan would look like. And then we would  
15 come back and present that to you for your feedback.  
16 And I'm like him, I can't hardly see the slides to  
17 follow you.

18 All right, so the expectation of the workgroup  
19 or the charge of the workgroup is to make a  
20 recommendation for EPA to use in evaluating the  
21 effectiveness of the pollinator protection plans at a  
22 national level, and a means to monitor how they're doing  
23 overall, a strategy to communicate that effectiveness to  
24 the public, and we refer to the public in the broadest  
25 sense.

1           The agency will view the outcomes of this work  
2 as a long-term effort and an ongoing effort in looking  
3 at trends versus any specific target. Like I said, the  
4 workgroup commenced on November 2016, with a deadline of  
5 November 2017. So we did have a very specific time  
6 frame.

7           I don't necessarily know that the workgroup was  
8 small. There were 24 members of the workgroup, but it  
9 was over a very broad base of stakeholders. And I'm not  
10 going to go through everybody that's involved with this,  
11 but you can see it's a very diverse group.

12           So the process was the problem definition and  
13 the problem was how do you develop this set of metrics  
14 to evaluate these plans, and they are stated tribal  
15 plans. Mary Clock-Rust at EPA worked with the tribes  
16 to -- and is working on their plan, but I think most of  
17 what we've done would be very easily translated to the  
18 tribal plans, as well as the states.

19           The plans' purpose is to reduce the exposure of  
20 pesticides and developing some mitigation measures to  
21 reduce those acute exposures. And then EPA will develop  
22 those metrics evaluating the efficacy of the plans  
23 nationally.

24           So in the review, and I don't remember the exact  
25 number of plans that were reviewed, but it was -- there

1 were a lot. Most states at this point have completed  
2 their MP3, or their pollinator protection plan. We  
3 looked at the commonalities between all of those plans  
4 and do the state MP3s have some process to identify  
5 metrics within those state plans that we could adopt in  
6 a national plan.

7 So we identified the metrics that could be used  
8 at a national level, we identified specific metrics to  
9 recommend to the PPDC, and identified a process for  
10 gathering that information for national level  
11 evaluation. And then implementation would be to  
12 identify process to the states and tribes to get  
13 feedback on the metric process, develop strategy to  
14 communicate the national-level metrics to the broader  
15 public and identify a possible timeline for evaluating  
16 the metrics.

17 So of the plans that were reviewed, there were  
18 some common themes that were identified. We want to  
19 focus on the communication between stakeholders, focus  
20 in on education and knowledge between all the groups,  
21 pollinator groups, and the cropping community. And then  
22 identify whether they identified the best management  
23 practices or a set of standard operating procedures.

24 And we looked at the differences, and there were  
25 several, and most of those differences were based

1 basically on the geographic or the regional differences  
2 in the pollination use in those states. Some areas are  
3 specifically devoted to honey production, some are more  
4 geared towards pollination services.

5 Some of the other themes were the -- some of the  
6 MP3s were much more comprehensive than some of the  
7 others. Some typically just focused on the beekeeper  
8 and pesticide user components. And then all the state  
9 plans are voluntary and rely heavily on local  
10 cooperation between and across stakeholders, and we  
11 wanted to look at how people were involving other  
12 stakeholders in that process.

13 So we developed this five-step process. We are  
14 going to go over steps 1 through 4 today, and step 5  
15 will take place post-survey. And those steps are one of  
16 the considerations, which is what do we need to look at  
17 for a national-level survey; assessment of the  
18 categories, which was identifying those categories that  
19 were common amongst the state MP3 plans; there will be a  
20 survey of the states, of their MP3 plans; and a survey  
21 assessment. And then step 5 will come post-survey.

22 So, national-level metrics guide. One of the  
23 considerations, we need to have a mechanism to evaluate  
24 the effectiveness of these MP3 plans at a national  
25 level. We need to have comparable measures across the

1 states, but we don't want to compare states against each  
2 other, we want to compare them against the measures that  
3 we've identified. The assessment will be at the  
4 national level -- I just said that.

5 The survey tool will be used, and there is a  
6 need to have a group to conduct the survey and collect  
7 the results and then communicate the effectiveness of  
8 the plans to the broader public.

9 And in the assessment categories, these are the  
10 categories that we identified that were common amongst  
11 the vast majority of the MP3 plans. One is  
12 communication, best management practices, standard  
13 operating procedures, the involvement of the  
14 stakeholders, education, the progress measures or  
15 behaviors.

16 And now I will turn this over to Rose, assuming  
17 she has gotten on.

18 MS. KACHADOORIAN: Can you hear me? Yes, can  
19 you hear me?

20 MR. WHITTINGTON: Rose, we can hear you.

21 MS. KACHADOORIAN: Hello? Great. Great. So  
22 I'm Rose Kachadoorian with the Oregon Department of  
23 Agriculture, and Mike Goodis and Andy covered a lot of  
24 really good information. So what was mentioned was a  
25 survey, and I'm going to be talking a bit about the

1 survey, and then also five assessment categories were  
2 provided to you. I'm going to kind of go through those  
3 categories, and also provide some information just  
4 regarding process. And so on to slide 13, it would be  
5 step 3, state MP3 survey.

6 So the workgroup worked with state lead  
7 agencies, and these are basically the agencies that are  
8 responsible for pesticide regulation on development of a  
9 survey. This included your AAPCO rep to the PPDC, Liza  
10 Fleeson. And AAPCO, again, stands for the Association  
11 of American Pesticide Control Officials. We also worked  
12 with the chair of SFIREG, and this stands for the State  
13 FIFRA Issues Research and Evaluation Group. And also  
14 the chair of AAPCO's pollinator committee, or the  
15 co-chair of it, and I'm also a co-chair.

16 We're hoping that this survey that we've  
17 developed will also be able to be modified or adapted in  
18 some way for tribes and territories, so that was also  
19 something that we thought about. It's our intent that  
20 EPA receive the information once the states complete the  
21 survey and that the responses to the survey will be  
22 transparent. And there was a lot of discussion about  
23 that, whether it would be transparent or not, but we're  
24 public agencies, and basically everything we do is  
25 transparent and available to the public. So I think



1 many states will be really proud as far as what they do  
2 with pollinator plans. Plus it will really give an  
3 opportunity for a state that's just trying to figure out  
4 like, you know, what more can we do, if they're able to  
5 look at another state's plan and maybe get some ideas  
6 and contact that state and say, you know, how is that  
7 working out for you? And so I think that it can really  
8 benefit the entire country as a whole.

9           Next slide. Communication was mentioned as one  
10 of the assessment categories, and this was really how  
11 are states increasing communication between pesticide  
12 users and beekeepers. And not only just pesticide  
13 users, but let's -- I heard that somebody from the  
14 Aerial Applicators Association is there. You know, what  
15 do we do in the situation where you have a farmer who  
16 has contracted with a beekeeper, how do you get that  
17 communication to maybe an aerial applicator that can't  
18 see whether bees are foraging, get that information to  
19 even somebody who's going to be applying pesticides by  
20 ground who maybe is unaware that that grower has bees or  
21 maybe the neighbor has bees. So just what is a state  
22 doing to kind of facilitate that entire communication  
23 process.

24           We also have an assessment category of just best  
25 management practices, or standard operating procedures,

1 and I think a lot of states are really kind of focusing  
2 on this and are really strong. You know, what kinds of  
3 methods can they use to reduce pesticide exposure, or  
4 pollinator exposure to pesticides. Can the states  
5 provide a list of their best management practices or  
6 standard operating procedures, and in this -- a lot of  
7 times these really encompass a lot of aspects.

8           They encompass like the communication, what  
9 kinds of pesticide risk might be associated with certain  
10 pesticides or might be particular for a particular crop.  
11 Let's say a crop when it's in bloom, unfortunately gets  
12 maybe a high pest level at that time and needs to have  
13 plant protection products applied. And how have they  
14 included crop producers, beekeepers, and I think it was  
15 Mike that mentioned the pollinator forage and habitat,  
16 you know, especially for some states that just have  
17 crops planted fence row to fence row, they might be  
18 focusing in their pollinator plan of, you know, putting  
19 in some more pollinator habitat, and other states who  
20 maybe have a lot of pollinator habitat might be focusing  
21 more on how to reduce drift to those habitats, whether  
22 it's during seed planting or during either a ground or  
23 aerial application.

24           Next slide, please. Education. So how are  
25 states coordinating, or who's developed the program,

1 because sometimes it's not actually the state lead  
2 agency, but how are they coordinating with other  
3 agencies, and these could be other state and federal  
4 agencies. I can think in my own agency, the Oregon  
5 Department of Ag, that we are working with our  
6 Department of Forestry and our Department of  
7 Transportation, and other federal agencies, just how are  
8 people reaching out, are they working also with their  
9 cooperative extension, their university people, are they  
10 being brought in.

11 And also, there are a lot of non-governmental  
12 organizations out there that are really doing some great  
13 work, and is there coordination and collaboration with  
14 those entities, and if so, how does that look.

15 Also, on outreach. Is outreach being conducted  
16 in how bees are exposed to pesticides, how growers and  
17 other pesticide users might select pesticides. Are  
18 people being taught about residual toxicity or, you  
19 know, which pesticides are systemic and when you might  
20 use those and then when you might not use those. And  
21 also, pesticide label comprehension, are people being  
22 tested like before their training on label  
23 comprehension, then do they receive training and then  
24 they're retested to see really an increase in their  
25 comprehension.

1           Also just some of the methods that people are  
2 using for outreach. Are they just putting something on  
3 a website or are they reaching out through radio ads and  
4 television? I know for our own agency, we're doing  
5 public service announcements on Spanish language TV, and  
6 we're going to be doing radio, again, with Spanish  
7 language. And just what kinds of educational materials  
8 are out there. And again, some states are really doing  
9 some innovative things.

10           And another big important aspect of this would  
11 be stakeholders. Who's being reached? Is it just  
12 agricultural? Are maybe some of the urban applicators  
13 being reached? The certified and then non-certified?  
14 Are homeowners being reached? Just how -- and not only  
15 just reached, but are you sitting down as a state agency  
16 or whoever is coordinating the pollinator plan, are they  
17 sitting down with them talking to them about their  
18 communication, their knowledge level in all of those  
19 aspects.

20           And also, you know, we have on this slide yearly  
21 stakeholder meetings. There might be some states that  
22 have more frequent meetings and other states have less  
23 frequent meetings, depending on the stakeholders, but  
24 are they kind of revisiting it and kind of keeping it  
25 alive? I think none of us want to see a system where,

1 you know, we go through all of this work, we develop  
2 something that's really useful, and then people forget  
3 about it in a couple of years. They're like, you know,  
4 how are people keeping this alive?

5 Next slide. Progress measures are behavioral  
6 changes. Are we seeing a reduction in related verified  
7 bee kills? We have verified bee kills on there because  
8 -- pesticide-related, because at least in our state,  
9 I've talked to other states that we get a lot of calls  
10 about bee kills and they're sometimes associated with  
11 nutritional stress or disease or some other aspect  
12 that's not pesticide-related. And those it's really  
13 important to identify that to assist those beekeepers in  
14 understanding a little bit more about the factors that  
15 can kill bees.

16 Also it can be a little distortion as far as how  
17 many bee kills are actually pesticide-related. And we  
18 do want to actually capture those that are pesticide and  
19 also non-pesticide related.

20 Also, have states developed some potential  
21 measures of exposure to bees. Some states I've spoken  
22 with have talked about possibly measuring pesticide  
23 levels in pollen, just like they would measure pesticide  
24 levels in surface water, just to kind of get an idea of  
25 what's out there. Are we seeing a certain pesticide at

1 a higher level than others? Are there some pesticides  
2 that might be of concern or of interest; and if so, what  
3 kinds of educational programs can we put into place to  
4 get those levels down? And then if, you know, you can't  
5 get the levels down through education, then to look at  
6 other avenues.

7 Also a method -- again, measures or methods to  
8 assess pesticide exposure, and also methods to assess  
9 maybe how we've increased communication or how effective  
10 our educational efforts have been. We also would like  
11 in the survey try to get an idea what measures the state  
12 is using, because the states, it's not only EPA, but  
13 states want to know if they're doing a good job, where  
14 are they being effective, and how are they doing that?  
15 Are they looking at the national honeybee surveys? Are  
16 they conducting their own state surveys, whether it's  
17 through the university or the state agency themselves or  
18 another entity? Are they seeing an increase in, again,  
19 tracking that increased adoption of best management  
20 practices and other considerations?

21 Also we have on here the last bullet point,  
22 funding for listed measures. There's -- you know, there  
23 are many people who want to do a lot of great things  
24 that there isn't funding for, but if people are getting  
25 funding for certain projects, I think it would be good

1 to have that reflected and the group thought it would be  
2 good to have that reflected in the survey if there were  
3 sources of funding and what kinds of projects were being  
4 funded that might benefit the nation as a whole.

5 Next slide. So again, and I think both Mike and  
6 Andy covered this, that each state had a lot of  
7 flexibility in developing their own plan and therefore  
8 they're diverse. There was some talk at the beginning  
9 of the group about some of our meetings as far as having  
10 a rating system where we were comparing one state to the  
11 other. And that was actually deemed not really viable  
12 because, again, you have states with different levels of  
13 resources, but a lot of different types of crops and  
14 different types of issues.

15 So if you had a state that was more urban  
16 without a lot of commercial beekeepers, they were doing  
17 one thing, versus a state that was more about honey  
18 production, versus, you know, a state like ours where we  
19 have over 220 crops that were doing something different.

20 So a determination was made, and I think it was  
21 a good one that really if we were going to convey what  
22 was happening nationally, that it was actually more  
23 accurate to look at kind of an aggregated assessment of  
24 what was going on in pooling those data, and that would  
25 kind of normalize that data and kind of give us a more

1 accurate reflection of what was going on.

2 And so again, the states, even though the  
3 results of the survey results will be transparent and  
4 available for each state, if EPA is going to do some  
5 kind of numerical assessment, that that's something that  
6 is not really going to be done on an individual state,  
7 it's going to be done for the country as a whole.

8 We are planning on using a survey tool, and I'm  
9 going to talk a little bit more about that and kind of  
10 the role of the state lead agencies in assisting EPA in  
11 getting the information that they need, and again, we  
12 have a number of questions that we were thinking about  
13 for that survey, and again, looking at the percentage of  
14 the tallied results -- responses.

15 Next slide. So again, a little bit about that  
16 assessment system, we're looking at total number of  
17 responses; for example, let's say 80 percent of the  
18 states have a certain kind of communication system, 30  
19 percent have something else for some other factor  
20 they're measuring. So they're looking at -- we would be  
21 looking at the total number of responses. So we have a  
22 table here that's -- it's blue on my slide.

23 So, for example, if we're looking at  
24 communication, maybe that first question where you have  
25 a yes or no response could be for does your state have a



1 method to increase communication between pesticide users  
2 and beekeepers, yes or no. If you answered yes, well,  
3 what are you doing? And so the state lead agency or  
4 whoever is implementing the pollinator protection plan  
5 would indicate all of the different ways that they are  
6 increasing communication.

7           Next slide. So we're on to step 5, which is  
8 data collection and the results. And so AAPCO is  
9 offering to utilize SFIREG to facilitate the  
10 distribution of a survey. SFIREG has regional  
11 representatives for each EPA regional office. For  
12 example, the regional office I'm in, it would be for  
13 Oregon, Washington, Idaho and Alaska. And so then the  
14 regional SFIREG rep would give those surveys out to each  
15 one of the states and kind of birddog it and make sure  
16 that those are submitted.

17           This way the state lead agencies who are busy  
18 and doing a lot of different things aren't just kind of  
19 sent these random surveys and they'll kind of get around  
20 to filling it out when they have time. No, this is  
21 going to be actually a lot more strategic. And so we're  
22 really grateful that SFIREG is kind of stepping up to  
23 the plate and has offered to do this.

24           So then the regional SFIREG reps will be turning  
25 this information, AAPCO will be assisting with the data

1 collection. If there are some -- we're thinking about  
2 maybe using something like SurveyMonkey, which has some  
3 kind of basic stats associated with it. And then we  
4 would just provide this information to EPA so they could  
5 conduct their assessment. So we would provide the raw  
6 data to them and then if the survey tool had any kind of  
7 basic statistics, we would also provide that  
8 information.

9           Next slide. Oh, next slide is not mine, but let  
10 me talk a little bit more about my slide 19, then. It's  
11 really our goal that all of this information be  
12 available to beekeepers, to pesticide users, to NGOs,  
13 and that we'll all be able to learn from this. We're  
14 looking -- we're thinking about these periodic types of  
15 surveys so we can see how these programs are progressing  
16 over time where, you know, I think everybody's hope is  
17 that, you know, there are changes over time as our  
18 program matures and as you identify new needs or you  
19 fulfill kind of holes that were there that things  
20 naturally progress.

21           And so the states will be working in conjunction  
22 with EPA to identify whether any changes will be needed  
23 over time, and again, that will be a very transparent  
24 process.

25           So I think it's Andy who has that last slide.

1 So thank you, and we'll be answering questions after  
2 that.

3 MR. WHITTINGTON: Thank you, Rose.

4 So I'd like to say we had a very large committee  
5 that worked extensively on this. I probably will not  
6 answer Caydee Savinelli's phone calls again for several  
7 years, but there has been a lot of thought and a lot of  
8 effort put into this. We feel like we've come up with a  
9 reasonable and fairly comprehensive way for EPA to begin  
10 to take a look at the national metrics for the  
11 pollinator plans, and at this time I think we'll take  
12 feedback from the committee.

13 MR. KEIGWIN: Okay, so let's first see what  
14 questions you all have for the workgroup. Let's see,  
15 Cynthia, Lori Ann, and Pat.

16 MS. PALMER: Hi, Cynthia Palmer, American Bird  
17 Conservancy. When I think of pollinator protection  
18 metrics, I think of things like the kill rates for bees,  
19 the incidents of dead birds, the state restrictions on  
20 the worst pesticides for pollinators, such as  
21 neonicotinoids and chlorpyrifos.

22 The efforts, the extent to which states have  
23 made an effort to get farmers off the pesticide  
24 treadmill and employ sustainable agricultural  
25 techniques.

1           The extent of clean habitat available for  
2 pollinators. I'm not sure that filling out a survey --  
3 I think it's a worthwhile effort, but I'm not sure that  
4 that truly captures the success of the pollinator  
5 protection efforts in that state.

6           And I'm also worried about the risks beyond the  
7 managed bees. We know that a single seed coated with  
8 neonics or chlorpyrifos is enough to kill a songbird,  
9 and we know that many native pollinators are at risk as  
10 well.

11           So I'm wondering to what extent do these outputs  
12 truly capture the effectiveness of the pollinator  
13 protection plans, and I'm wondering if we should reframe  
14 it more as a survey of communication guidelines, which  
15 are worthwhile, but they're not really metrics.

16           Thanks.

17           MR. WHITTINGTON: So, and all of those are  
18 significant concerns, but as we were looking at the  
19 pollinator protection plans, most of them are designed  
20 to mitigate those acute exposures. And they're pretty  
21 much limited to that. So I mean, there are other  
22 methods that we have that will be utilized through EPA  
23 and through FIFRA that will address a lot of the other  
24 concerns, especially through risk assessments that are  
25 ongoing. But specifically for the pollinator plans,

1 when you're looking at that one piece of the entire  
2 pollinator protection puzzle, I think this will be an  
3 effective way to measure what those plans are  
4 specifically addressing.

5 I think in the beginning we looked at the  
6 pollinator problem as addressing it as how do you eat an  
7 elephant, it's one bite at a time, and well this has  
8 been several bites at the elephant. But we acknowledge  
9 that there are ongoing issues that will have to be  
10 addressed at other times, but they may not be  
11 specifically addressed by pollinator protection plans.

12 MS. KACHADOORIAN: Hi, this is Rose  
13 Kachadoorian. Is it okay if I talk right now? Okay, I  
14 will talk.

15 I'm very sensitive to the issue of the native  
16 pollinators. They are actually really essential for  
17 pollination in a state like ours. And, in fact, we have  
18 an education -- we have an entire Oregon bee project,  
19 not just a pollinator protection plan, and our agency is  
20 out actually monitoring for native bee populations and  
21 we're going to be using that, at least in our state, as  
22 kind of one of the metrics. It's not something a lot of  
23 states can do, but it just happens to be what we can do.  
24 And so that information is going to be reflected in our  
25 survey results.

1           We also are traveling across the state and  
2 working with different groups to learn how to identify  
3 native pollinators, too. So I think that these plans,  
4 even though many people are kind of geared towards an  
5 acute exposure to the European honeybee, there are a lot  
6 of states that are also looking at native pollinators,  
7 and that will be captured in these surveys.

8           A lot of the BMPs, also, will help reduce that  
9 kind of sublethal, possibly chronic exposure that goes  
10 on, or possibly could go on to bees. So I think that  
11 these issues will be captured in the survey. But as far  
12 as the issue with bird deaths, probably not in the  
13 pollinator survey, but I know that state lead agencies  
14 report that information to EPA. So that information  
15 isn't lost, it is captured, but in another venue.

16           MR. KEIGWIN: So, Lori Ann, Pat, and then  
17 Charlotte.

18           MR. GOODIS: A quick interruption. If I could  
19 also ask, as I see some of the workgroup members in the  
20 audience as well. Ray, I see you. I think Caydee is  
21 back there, and there may be some others, too. It might  
22 be helpful to -- for -- because this was a group effort  
23 and it's really a recommendation from the workgroup.  
24 Maybe if we do have a mobile mic', if at times to help  
25 answer questions, the upcoming questions, I would

1 encourage workgroup members to provide their input in  
2 response as well. Thank you.

3 MS. BURD: Thanks, Rick. I'm going to echo some  
4 of what Cynthia said, at the risk of sounding like a  
5 broken record, some of us at every single opportunity  
6 are raising our concerns that we keep using honeybees as  
7 the metric and there are 4,337 species of solitary bees  
8 in North America that have very different modes of  
9 exposure and needs than honeybees, and while we care  
10 very much about our honeybees, the needs of the solitary  
11 bees are not being addressed in this, and in a variety  
12 of ways.

13 And what might be an acute exposure for a -- or  
14 a nonacute exposure for a honeybee could very much be an  
15 acute exposure for a native solitary bee and could  
16 result in the loss of an entire group, and so  
17 catastrophic losses that we're seeing in those  
18 populations.

19 So while I recognize and am happy about, you  
20 know, what Rose mentioned, that there are great efforts  
21 happening in some states, these metrics don't capture  
22 any of them, and they don't establish any guidelines,  
23 mechanisms, anything that even addresses them. So it's  
24 great that, you know, some of that could get mentioned  
25 in the surveys, but it's not built into this, and I'd

1 like to see that happen.

2 MR. KEIGWIN: So Pat, then Charlotte, then Stan.

3 MS. BISHOP: You know, I sat here listening to  
4 this, and I'm still a little confused as to what you're  
5 actually surveying and the data that you're collecting.  
6 So I'm understanding that there's these plans, and they  
7 probably have certain elements in them. So there's an  
8 opportunity, I think, to evaluate the plans themselves,  
9 do they have the proper elements, communication, so on  
10 and so forth.

11 And then there's the issue of implementing the  
12 plans, you know, how well is this state implementing it.  
13 And then, finally, is it doing anything? Are you seeing  
14 results from it?

15 So I'm not quite sure what your survey is doing,  
16 and what parts is it surveying? Are you surveying how  
17 well the plan was developed? Is it surveying -- are  
18 they implementing it? And then, finally, is it  
19 surveying what is coming out of the plan? Is it doing  
20 what it's supposed to do?

21 So could you just clarify that a little bit for  
22 me?

23 MR. WHITTINGTON: I'd say yes to all of that. I  
24 do believe that the survey will capture what the -- what  
25 the individual states are doing. And I can only speak



1 on behalf of my state, Mississippi. We do have our  
2 annual meetings, we do have constant communication with  
3 our beekeepers and our producers. And what you want to  
4 see -- what you want to see going forward from the  
5 pollinator plans is you're going to notice it in a  
6 couple of years. You're going to see a change in  
7 behavior, we hope, from the people that you're now  
8 communicating with, because this has been an issue  
9 for -- in basically the time frame relatively recently  
10 between -- it's relatively recent communication that  
11 we've had between beekeepers and farmers.

12 So I think we are starting to see that  
13 communication and that education take place, and  
14 behaviors changing, and the result of that should be a  
15 reduced exposure, which is a reduction in the number of  
16 bee kills that we see.

17 So I think we start capturing that as what are  
18 you doing, and are you implementing what you have laid  
19 out in your plan, and then from that, we should start to  
20 see at least a reduction in the acute exposures.

21 MR. KEIGWIN: Charlotte, then Stan, then Damon.

22 MS. SANSON: Thank you. I just wanted to say I  
23 think it's the -- I think it's worth commending the  
24 group for the progress they've made in the past year on  
25 coming to consensus. I can see that it's a rather broad

1 group of folks. And my question, Rick, I think this is  
2 maybe something you can answer, because I think we heard  
3 earlier that this panel is not a voting body, so after  
4 the discussions today on this topic, what is the  
5 mechanism for adopting the recommendations by this  
6 workgroup?

7 MR. KEIGWIN: So once we're done with the  
8 questions, I will pose a question to you all so you can  
9 start thinking about it. But it will be something along  
10 the lines of, you know, notwithstanding some of the  
11 concerns that we heard thus far as we've gone around the  
12 table, would it be the PPDC's advice to EPA to as a  
13 first step begin pursuing the use of these metrics in  
14 evaluating managed pollinator protection plans as we  
15 continue to assess risks for pesticides as related to  
16 pollinators.

17 So it will be something along those lines, but,  
18 you know, this workgroup was set up with a very discrete  
19 charge, and I think they've come back with where they  
20 can get based upon that charge, and so what the agency  
21 will want is advice from the PPDC on whether or not we  
22 should be moving forward with the recommendation posed  
23 by the workgroup.

24 So Stan, then Damon, then Liza.

25 MR. COPE: Thanks. Stan Cope, American Mosquito

1 Control Association. Outside of private industry, there  
2 are roughly 900 and some tax-based or municipal  
3 organizations that do mosquito control. Being new to  
4 the group, I don't know if you had any input or if  
5 you're going to get any input on your survey from the  
6 mosquito control groups, but many of them have  
7 long-term, very sophisticated communication and public  
8 outreach plans when it comes to pollinators.

9 So I guess my question is, is mosquito control  
10 involved in part of this, and if not, would you like  
11 them to be?

12 MR. WHITTINGTON: Does the lady in the back of  
13 the room want to speak up? Here we go.

14 MS. SAVINELLI: I'm Caydee Savinelli, I work for  
15 Syngenta and I helped with this committee, and Andy, you  
16 will take my phone calls, whenever you are. Okay?

17 Anyway, just to answer the questions about  
18 the -- well, let me just step back for a minute. So the  
19 charge of this group is really looking at the plans  
20 nationally, so that's really what our charge is. And  
21 within the stakeholders as part of the plan, the  
22 mosquito boards are part of the stakeholder groups that  
23 the states have reached out. So that's part of the  
24 metric that is, you know, as you list all the various  
25 ones, unfortunately we can't get into all the various

1 details, but certainly stakeholders are very important  
2 in the whole MP3 process within the state, and the  
3 mosquito control boards are very important as part of  
4 the stakeholders, depending on the state, of course.

5 So that's where it falls in. It's not  
6 necessarily the question specifically related to the  
7 mosquitos, because we're really trying to look across  
8 all of the plans, and as you can imagine, being so  
9 diverse, trying to come up with the metrics that make  
10 sense across a diversity of plans, and that's why we  
11 have those categories, because they seem to be the  
12 categories that were most common communication,  
13 education, stakeholders was one of the categories.

14 So it is included, but in a different subset of  
15 the questions. Oh, yeah, we didn't -- no, mosquito  
16 control boards are very important. And keep in mind,  
17 too, that within each state, it's really up to the state  
18 to engage all of the various stakeholders, and I know in  
19 some cases, in some states, the stakeholders didn't feel  
20 engaged, so it's really important to go back and we  
21 encourage the stakeholders to be engaged.

22 Thank you.

23 MR. KEIGWIN: Okay, Damon, then Liza, then Jay.

24 MR. REABE: So, as a Wisconsin aerial  
25 applicator, we perform insecticide applications to

1 cranberry crops, and there was a study conducted by the  
2 University of Wisconsin that I'll forward to Dea for  
3 everyone's review, and what they -- what they were  
4 studying was pollinator health at the cranberry  
5 production sites, as well as away from those pesticide  
6 application sites.

7 And there was a surprise finding in that study  
8 where they found that there was greater native bee  
9 populations and greater species richness at the  
10 application sites than there was away from the  
11 application sites.

12 So while this survey doesn't -- may not meet the  
13 needs of or the goals or the interests of some of the  
14 people in these -- in this room, I think that that's an  
15 interesting study that should be forwarded.

16 Also, in regards to the survey work, to the  
17 pesti -- or excuse me, the pollinator protection plans,  
18 what they do for us as applicators is raise awareness of  
19 pollinator habitat in general. Not just honeybee  
20 habitat, but also other pollinator habitat, and these  
21 plans are effective in communicating those concerns to  
22 applicators.

23 MR. KEIGWIN: Okay, Liza, then Jay, then Sharon.

24 MS. TROSSBACH: Thank you. Again, I represent  
25 AAPCO, which is a national association of pesticide

1 regulatory officials from the 50 states, tribes and  
2 territories, and as one of the other members said, I do  
3 want to commend the workgroup on their work.

4 This was a very daunting task given the inherent  
5 challenges in trying to come up with national metrics  
6 for very diverse plans. I think that the proposal that  
7 has been put forth does meet that need and does the best  
8 it can to allow for the diversity and the flexibility in  
9 the plans.

10 While there are many issues related to  
11 pollinator protection, I think that this group has done  
12 a great job of looking at the Presidential directive.  
13 It was very narrow, very focused, gave EPA a very  
14 specific -- a very specific directive to reach out to  
15 states, tribes and territories to develop voluntary  
16 pollinator protection plans which looks at one piece of  
17 a very huge puzzle of issues related to pollinators and  
18 pollinator health. And I think that they did a good  
19 job.

20 I think the fact that this is a long-term  
21 evaluation that, you know, many plans are now complete,  
22 some are still in process, some are in the beginnings of  
23 implementation, but you have to start that data  
24 collection, and I think this does a good job. It leaves  
25 it as a living document or a living survey that can

1 evolve over time as plans evolve. And again, I think it  
2 allows the states to have that flexibility and that  
3 diversity.

4           It was mentioned some states are very -- you  
5 know, they focus on honey production and others have a  
6 lot of contracted pollinators. Some have hobbyist  
7 beekeepers, some have many more commercials. So the  
8 ability of states to provide information about what they  
9 are doing, the unique things they're doing, there are  
10 commonalities. I think the proposal looks at those  
11 commonalities as things that were put forth about  
12 communication and best management practices and standard  
13 operating procedures, but allow states to also provide  
14 that additional information.

15           I think states, tribes and territories would be  
16 willing to, you know, provide that information, want to  
17 provide that information. You know, many states put in  
18 a lot of hours and a lot of work. I know in Virginia,  
19 this has been an 18-month process that involves a lot of  
20 stakeholders advisory committees, a lot of meetings. We  
21 want our plan to be successful, we want to protect  
22 pollinators.

23           As pesticide regulatory officials, we're not  
24 proponents or opponents of the use of pesticides, simply  
25 if you're going to use them, use them properly. And

1 since pesticide use is legal, we have to allow for that,  
2 but at the same time, we all support, you know,  
3 pollinator protection, and I think that the state plans  
4 are a great way to allow states to represent their  
5 apiary industry, their cropping systems, the type of  
6 pest management and pest control they have, and also  
7 protect pollinators.

8 And so on behalf of AAPCO, I support the  
9 proposal, I support the approach to the survey, and, you  
10 know, again, I just want to commend the workgroup on a  
11 very difficult task.

12 MR. KEIGWIN: Okay, Jay, then Sharon, then  
13 Preston.

14 MR. VROOM: Thank you, Rick. Wow, Liza just  
15 said what I was going to say, except she said it so much  
16 better. I would add that I think this work of this  
17 workgroup is an extension of everything that was devised  
18 in the President's pollinator protection directive that  
19 Liza just mentioned, but it's important, also, to remind  
20 everyone that the President, President Obama, empaneled  
21 a very comprehensive group of federal agencies and  
22 authorities to come together under the co-chairmanship  
23 of the deputies from USDA and EPA. And to me,  
24 overarchingly, this is a great model for a way to  
25 address so many issues that certainly are on today's



1 PPDC agenda and in future agendas for consideration by  
2 this federal advisory committee.

3 The last thing I just wanted to mention is back  
4 to Cynthia's original comments, Cynthia, I'm not aware  
5 and haven't been able to discover any registered uses of  
6 pure chlorpyrifos as a seed treatment, so if you know  
7 about that, I would love to talk with you offline.

8 Thanks.

9 MR. KEIGWIN: Okay, Sharon, then Preston, and  
10 then Tim, is your card up? And then I think at that  
11 point I want to put the charge back to the group about  
12 next steps.

13 So, Sharon?

14 MS. SELVAGGIO: I am Sharon Selvaggio. I wanted  
15 to say that I think that the survey instrument will be  
16 useful, especially if it is, indeed, periodic and  
17 repeated and used for adaptive management, if the states  
18 are open to modifying, increasing their efforts through  
19 pollinator protection based on the results of the  
20 survey, what they find from other states, et cetera,  
21 where appropriate.

22 So my questions are primarily about the survey  
23 and I have a couple of questions. So, Rose, you  
24 mentioned a couple of times in the PowerPoint about the  
25 transparency of the survey, and I'm wondering is the

1 survey draft available now, will the responses be  
2 available to the public state by state, or just the  
3 aggregated responses.

4 Another question I have is regarding that the  
5 issue that Pat brought up about implementation  
6 monitoring as opposed to effectiveness monitoring, and  
7 so my question is, who in the states would be filling  
8 out the survey, and how will they get information from  
9 people in their state, whether they be farmers, mosquito  
10 control districts, et cetera, about whether, in fact,  
11 these recommendations, these voluntary measures that are  
12 in the MP3s are being implemented. There was some stuff  
13 in here about communication effectiveness, some  
14 potential for actual empirical data collection on direct  
15 pesticide exposures through pollen measurements, bee  
16 kills, et cetera.

17 I'm just wondering, given that the level of  
18 intensity of those kinds of measures depends upon  
19 funding and all of this is voluntary, I'm a little  
20 concerned that there won't be an ability to really test  
21 and report upon the effectiveness of these measures in a  
22 national way. I certainly think state-by-state  
23 information on those will be very useful.

24 I guess my last question, and I'll move on to  
25 somebody else here, but is that the pesticide-related

1 verified bee kills, Rose, you had mentioned that it's  
2 hard sometimes to differentiate a pesticide-related bee  
3 kill from those that are caused by nutritional issues or  
4 disease, and we've seen in the literature that disease  
5 and pesticide impacts can be interrelated as well. So  
6 I'm wondering how the group is differentiating between  
7 disease or pesticide-mediated disease kills, if that is  
8 the right way to capture that. Thank you.

9 MS. KACHADOORIAN: This is Rose. As far as  
10 differentiating whether it is a pesticide-related bee  
11 kill or not, there actually are EPA enforcement  
12 guidelines for pesticide investigators and how they  
13 should investigate bee kills, and I know at least our  
14 state, and I'm sure other states do this also, is that  
15 we actually collect the bees and we analyze them for the  
16 presence of pesticides and also work with experts from  
17 the university to see exactly what the problem is, is it  
18 some kind of protozoan, a varroa mite, or nutritional,  
19 or is it, indeed, pesticide. I mean, we have had  
20 pesticide-related bee kills, as you're aware of.

21 And so there is a whole process designed for  
22 that. Let's see, and what were some of your other  
23 questions? Oh, as far as assessing. You know, it has  
24 always been a challenge, I think, if you talk to anybody  
25 who works with extension, and I used to work with

1 extension for 10 years myself, to know what your -- if  
2 you're conveying information, are people assimilating  
3 that information, are they understanding it and are they  
4 putting it into practice.

5 And so a lot of states, what they do is they'll  
6 use even survey, like the people who have attended their  
7 classes, like do you understand what we've told you,  
8 have you changed your practices from the last time  
9 you've been here.

10 And so it's going to have to be a lot of kind of  
11 getting back to those particular pesticide users and  
12 beekeepers and others to see exactly what practices  
13 they've changed and meeting with stakeholder groups to  
14 see if there's any kind of change so the survey results  
15 are accurate.

16 As far as transparency, you know, we have a lot  
17 of AAPCO surveys right on our website, and I -- you  
18 know, I'll have to -- I'm president-elect of AAPCO, but  
19 I'll talk to our president to see if it is possible to  
20 have all of this information in one source so people can  
21 go to it. And so if people want to know what's going on  
22 in various states, they can.

23 We currently have an Excel spreadsheet on the  
24 AAPCO website with the names of all of the contact  
25 people who are coordinating their pollinator protection

1 programs, and some of the components of those programs,  
2 and then that information is actually being used by  
3 other groups that we're in the process of updating that  
4 Excel spreadsheet. In fact, I think it may be yesterday  
5 or the day before yesterday, kind of an email was sent  
6 out to the state lead agencies saying, you know, have  
7 you made any progress, and if so, please update your  
8 information so we can have that on AAPCO's website.

9 So that will -- and I imagine that EPA will have  
10 information. I don't -- we would have to talk with EPA  
11 to see if they would have the state-by-state information  
12 on there. Does that answer your question? Maybe  
13 somebody else can kind of help chip in here, too.

14 MS. SELVAGGIO: Yes, that helps, thank you.

15 MS. KACHADOORIAN: Um-hmm.

16 MR. KEIGWIN: So Preston, then Tim.

17 MR. PECK: Thank you. And it's good to see a  
18 lot of different people in the room that I know.

19 I represent an organization that has multiple  
20 initiatives within various programs, some of which  
21 relating to pesticides, some of which relating to  
22 pollinators and farmworkers as well, so I'll be wearing  
23 a couple of different hats while on this committee from  
24 our perspective. But I also -- I see a lot of different  
25 survey questions, and I'm very new to this, so this is

1 the first time that I'm kind of going through the  
2 survey. So I look forward to talking to other workgroup  
3 members about it, but I see different limitations on the  
4 survey, and I don't disregard the survey as a useful  
5 tool, but I just am bringing up issues on its  
6 limitations, such as the related verified bee kills from  
7 pesticides are limited by detection of equipment that  
8 the state department of ags have.

9 I know in North Carolina, it's relatively -- it  
10 can -- it's not as sensitive as it could be, and I have  
11 spoken with our state apiarists about that as well.  
12 Obviously things like Cynthia and Lori Ann brought up  
13 around native pollinators, there's limitations there. I  
14 just think that we've seen limitations within surveys in  
15 general with bee-informed partnership surveys. You're  
16 taking a voluntary BMP and asking people to take a  
17 voluntary survey on that. So I would just, you know,  
18 caution on how we use the survey.

19 Also, as I do support communication between  
20 applicators and beekeepers and other people, but again,  
21 within the organization, we've seen various limitations  
22 on that. Especially relating to farmworkers, you know,  
23 that's one of the key things is, you know, communicate  
24 with farmworkers what is going on and where it's going  
25 on, and we've seen that that just hasn't worked in the

1 past and has continued to not work.

2 So I look forward to the discussion tomorrow.

3 So I'm skeptical about how effective communication will  
4 be to reduce exposures, to reduction in acute exposures,  
5 I think there's a lot of assumptions in there, and a lot  
6 of gaps.

7 I had one question for Liza, as far as is the  
8 surveying group that will be conducting the surveys  
9 independent of AAPCO?

10 MS. TROSSBACH: So, it's SFIREG, right? It's  
11 SFIREG, and that is an evaluation group that is under  
12 the umbrella of AAPCO. If AAPCO, which is the -- the  
13 broader group, they have a group that's SFIREG that does  
14 the work of AAPCO, and through that, there are regional  
15 representatives. As Rose has said, there's one state  
16 lead agency representative from each of the ten regions,  
17 and then they are able to provide information to the  
18 states. So it's just a mechanism, a framework to be  
19 able to get information out to the state lead agencies  
20 and collected.

21 Again, in this particular case, that mechanism,  
22 that framework, is long-standing and has worked very  
23 well in the not only dissemination of information, but  
24 the collection of information from state lead agencies,  
25 and that was one of the questions that Sharon had

1 brought up is how -- you know, who's going to respond to  
2 that information, it would be the agency that was  
3 responsible for the drafting of the particular plan. So  
4 it was an offer on behalf of AAPCO to say this is an  
5 existing mechanism that has a long history of working to  
6 collect information and that we're willing to utilize  
7 that just to assist in the collecting of the information  
8 and then forward it to EPA.

9 MR. PECK: Thank you. And just one thing along  
10 that line, I know that we have received very different  
11 information when evaluating state policy based on how  
12 outreach is conducted and who conducts it and where  
13 they're looking. So you're going to get very different  
14 answers.

15 For example, within North Carolina, we looked at  
16 best management practices on who to notify when it comes  
17 to pesticide application and how far that radius would  
18 be, and within that what is our limitation on prior  
19 notification. And our state Department of Agriculture  
20 did a really good job of reaching out to the state  
21 beekeeping association; however, the people that  
22 participate in that survey were one group that was  
23 surveyed and we in conjunction with many other partner  
24 organizations conducted our own survey and got very  
25 different answers.



1           So just to be aware of who you're asking and  
2 stakeholder input on how to conduct outreach. Thank  
3 you.

4           MR. KEIGWIN: And Tim?

5           MR. TUCKER: Thank you, Rick.

6           First of all, I'd just like to commend the  
7 committee that worked on a very daunting task. I  
8 thought originally it would be extremely difficult to  
9 come up with metrics to really define this program, but  
10 I think it's a first good step in the right direction,  
11 and anything that we can do to increase dialogue on a  
12 national level between the states in evaluating these  
13 programs that are working in some states, like  
14 California, where they work very effectively for a long  
15 time, and improve the communication and awareness, you  
16 know, that we were talking about.

17           And I totally disagree, I think that if we can  
18 communicate better between applicators and beekeepers  
19 and anyone with a perspective in this that wants to  
20 protect pollinators of any kind, we have to do a better  
21 job of that. We have to find out what's working and  
22 what's not. And I think that this does provide us with  
23 a -- you know, a measure of assessing that.

24           So I'd just like to thank the committee again,  
25 and those that could participate to a greater degree

1 than I could. My job sometimes limits me to being  
2 involved, but I think the industry really feels that  
3 communication and dialogue is very important between all  
4 parties with our different perspectives. So thank you  
5 again.

6 MR. KEIGWIN: Well, Lori Ann's card went up  
7 after I said Tim was the last one. So if there's  
8 something to add to this quick, because I want to put  
9 the charge back to the group.

10 MS. BURD: I have a question to follow up on the  
11 comment that chlorpyrifos has not been registered for  
12 seed use. I believe it has been registered for seed use  
13 not in significant crops like corn, cotton, sorghum,  
14 wheat, is that currently the state of chlorpyrifos as a  
15 seed treatment? And I figure the experts are here.

16 MR. KEIGWIN: We can certainly confirm it at a  
17 break. We don't have it all in our heads. But we'll  
18 get back to the group after lunch to confirm that.

19 So I think the way Tim kind of teed things up  
20 would probably have been the way that I would have done  
21 it, so as a first step in terms of measuring the  
22 effectiveness of these plans, does the PPDC support the  
23 workgroup's recommendation to begin to employ this  
24 survey instrument moving forward as we continue to build  
25 upon the dialogue, improving the dialogue with

1 stakeholders, and as we continue the re-evaluation  
2 program? So kind of a thumbs-up type. Sort of neutrals  
3 or anyone in defense?

4 MR. WHITTINGTON: There's the broad concepts,  
5 and then I think there would still be some fleshing out  
6 of the exact wording of what those look like.

7 MR. GOODIS: I'll just add to that, too. You  
8 know, I know the group mainly focused on their approach,  
9 and I think what was provided in the presentation and  
10 sort of the framework of the questions. And so there  
11 are some draft questions, but recognizing I didn't want  
12 to spend too much time on that until there was an  
13 accepting of the general approach, I think that's  
14 something that the agency would take a look at those  
15 questions too and working with SFIREG and others to  
16 make -- probably fine tune those to make sure we're  
17 getting the right information for our needs.

18 MR. KEIGWIN: Okay. So, thank you to the  
19 workgroup. I think we've got a path forward. All  
20 right. So now -- good job.

21 (Applause.)

22 MR. KEIGWIN: So now we're running behind, but  
23 that's okay. So why don't we come back at 11:15, and  
24 what we'll do is we'll start doing part of what's  
25 currently session 5, so the questions and answers. So

1 we'll do a few of those topics between 11:15 and when we  
2 break for lunch, and that will give us a little bit more  
3 time for some of the afternoon topics. So we'll come  
4 back at 11:15. Thanks.

5 (Whereupon, there was a recess in the  
6 proceedings.)

7 MR. KEIGWIN: I just want to check to make sure  
8 that Gina Schultz is still on the phone.

9 (No response.)

10 MR. KEIGWIN: Yeah, I knew she wasn't feeling  
11 well.

12 MS. SHULTZ: Hello. I'm on.

13 MR. KEIGWIN: So, what we'll do for the next 30  
14 minutes, so that we can get back on track, and you still  
15 have enough time for lunch, is we'll start to do parts  
16 of the question and answer session for session 5.

17 So why don't we start with the status of the ESA  
18 consultations. For the PPDC members, there should be a  
19 one-pager in your packet that summarizes where we are  
20 with the current pilot ESA consultations. So let me  
21 just quickly see if there are any questions about those.

22 Tim, is your card up for ESA?

23 (No response.)

24 MR. KEIGWIN: So, Sharon, Cynthia, we'll start  
25 there.

1 Sharon?

2 MS. SELVAGGIO: Okay, I've got a couple of  
3 questions. In reading this, there was no mention of the  
4 resolution of the Dow April letter to withdraw the BE  
5 stock that was on the BiOp to modify the settlement  
6 agreement, so I'm wondering kind of what happened with  
7 that. We were expecting the draft BiOps for  
8 chlorpyrifos and the other OPs in May and those haven't  
9 come out yet. It says here that once they're released a  
10 public comment period is expected before finalization  
11 and the due dates. So the finalization is December, so  
12 there's not much time left.

13 And then we were expecting the BEs for carbaryl  
14 and methomyl I think in May as well, and I don't think  
15 it says anything in here on that -- about that.

16 MS. ECHEVERRIA: Thank you. My name Marietta  
17 Echeverria, I'm the Director of the Environmental Fate  
18 and Effects Division. So thank you for those questions.  
19 I will provide as much information as I have, and as I'm  
20 able to.

21 So with respect to the letters that we received  
22 earlier this year, to my knowledge, there has been no  
23 response to those letters. So they were received, we  
24 acknowledged the receipt, that request was to withdraw  
25 the biological evaluations. Those biological

1 evaluations have not been withdrawn at this time, so we  
2 continue to collaborate with our partners at the  
3 services on step 3, which is actually the biological  
4 opinions. So we continue to have discussions with them  
5 and to give input on those biological opinions as  
6 they're being developed. That's what we've been doing.

7 With respect to carbaryl and methomyl, you're  
8 correct, we did not meet our May time frame. What we  
9 have been doing is considering all of the public inputs  
10 that we've gotten in the first three pilots through the  
11 stakeholder engagements that we've had, the stakeholder  
12 meetings, and through the formal response to comments.

13 And what we've been doing internally, and as  
14 we've said all along, was to consider refinements to the  
15 process to make it more efficient and to bring in  
16 additional refined information earlier in the process.  
17 So we've internally been thinking about how to do that,  
18 and our hope would be to apply that advanced thinking  
19 for carbaryl and methomyl, which are the next two that  
20 are currently on the schedule.

21 MR. KEIGWIN: Okay. Cynthia?

22 MS. PALMER: Actually, that addressed both of my  
23 questions as well. I had looked at the handout from May  
24 3rd, and noted that the language was almost identical to  
25 the one that we just received the update with the same

1     aside from the paragraph included in May about Dow  
2     Agrosciences letter. So I think this answers my  
3     questions to the extent possible.

4             MR. KEIGWIN: Okay. Any other questions on ESA,  
5     the update that's in your package? Going once, twice.

6             (No response.)

7             MR. KEIGWIN: All right, so Yu-Ting Guilaran,  
8     who is the Director of the Pesticide Re-evaluation  
9     Division, will come up. So there are a couple of  
10    things -- a couple of one-pagers in your packet, one  
11    relative to where we are with progressing towards  
12    meeting the October 1st, 2022 registration review  
13    schedule in the statute, and then there are some  
14    specific chemical-specific updates for three chemicals.

15            So, questions for Yu-Ting?

16            (No response.)

17            MR. KEIGWIN: So, why don't we start first with  
18    the general status update for registration review.  
19    Any -- so, Cynthia.

20            MS. PALMER: Thank you. So these are impressive  
21    large numbers, and I'm just wondering if you're able to  
22    tell us what percent of these reviews are receiving a  
23    thumbs-up or a thumbs-down from EPA. Are some of these  
24    applications sort of not making their way through the  
25    process, and do we have metrics on that?

1 MS. GUILARAN: Thank you, Rick. I'm Yu-Ting  
2 Guilaran, the Director of Pesticides Re-Evaluation  
3 Division, and just so that I can understand your  
4 question a little bit better, what do you mean by thumbs  
5 up or down?

6 MS. PALMER: Approval from EPA.

7 MS. GUILARAN: On what exactly are you referring  
8 to?

9 MS. PALMER: That we have, for instance, 457  
10 conventional pesticides cases making their way through  
11 the system, are they all getting a full approval or are  
12 they approved with restrictions, do we have metrics on  
13 sort of where -- you know, what's the outcome?

14 MS. GUILARAN: Okay. So if you go down a little  
15 bit further on the status update. For the conventional,  
16 we have about 40 percent remaining on the draft for  
17 assessment, and we have proposed already 40 percent of  
18 the interim decision, and then finalized another 30-some  
19 percent of those. So it was really a mix of whether or  
20 not the labels are fine as they are, or there's  
21 additional mitigation that we need to put on the labels.

22 In general, for the more recent years, we're  
23 trying to work on different efforts such as spray drift  
24 reduction as kind of a way to reduce the footprint of  
25 pesticide, and also more recently resistant management,



1 which is another piece that just recently went final are  
2 some of the ones that were going to the mitigation. But  
3 it's a mix bag of both. And we do have a data --  
4 database that's being developed right now for decision  
5 capture, and we are anticipating to roll that out  
6 probably more toward the beginning of the year.

7 MR. KEIGWIN: That database is being developed  
8 in anticipation of re-authorization of PRIA, which  
9 would, among other things, have expanded reporting for  
10 types of changes that are made as part of registration  
11 review.

12 MS. PALMER: Thank you.

13 MR. KEIGWIN: It will be an internal database,  
14 but we will be doing as part of our annual reports to  
15 Congress on PRIA, should PRIA be re-authorized, then the  
16 data would be made available as part of that annual  
17 report.

18 Other questions from PPDC members on the general  
19 registration review updates?

20 (No response.)

21 MR. KEIGWIN: Okay. Then Yu-Ting also has her  
22 team up here for three chemical-specific cases. So why  
23 don't we start with the easiest one here, chlorpyrifos.

24 Nichelle?

25 MS. HARRIOTT: So, in your handouts, you have

1 here, "despite several years of study, EPA has concluded  
2 that the science addressed in neurodevelopmental effects  
3 remain unresolved, and that further evaluation of the  
4 science is warranted to achieve greater certainty as to  
5 whether the potential exists for adverse  
6 neurodevelopmental effects."

7 Now, in your last Human Health Review, I think  
8 it was 2015, the risk assessment that you published  
9 seemed pretty clear on the neurodevelopmental health  
10 effects regarding chlorpyrifos, and the agency had come  
11 up with a proposal to revoke food tolerances as a result  
12 of that assessment.

13 Further down in your paragraph here, you then  
14 say you are hoping to come to a clearer scientific  
15 resolution on those issues, which are the  
16 neurodevelopmental issues. What specific issues still  
17 need to be resolved when it comes to evaluating the  
18 neurodevelopmental effects of chlorpyrifos, given that  
19 we have over 30 years of data showing that chlorpyrifos  
20 is highly toxic to the children's brains, to  
21 neurodevelopmental health, and EPA has over the course  
22 of reviewing chlorpyrifos taken action to try to  
23 mitigate the health impacts of chlorpyrifos?

24 So, for example, we in 2000, I think you guys  
25 said -- you removed indoor residential uses of

1 chlorpyrifos. We've had buffer zones to mitigate  
2 bystander exposures, you've had a volatilization  
3 assessment. So what more needs to be done to give a  
4 clearer scientific resolution of these issues?

5 MS. GUILARAN: Thank you for your comment and  
6 question on this. So thank you for talking about the  
7 history of the different things that we have put  
8 forward, and they're indeed just proposal as what EPA  
9 was thinking about at the time, and one of the important  
10 things about a reg review program is that different from  
11 re-registration, with all the transparency in the  
12 process, and also soliciting public comment, it's an  
13 important step. That's why we have three different  
14 phases as we're going -- as each chemical going through  
15 reg review, we get public feedback on.

16 So for this particular one, the things that you  
17 have talked about, number one, the science has never  
18 been -- we went through SAP several times, so it's  
19 not -- even though I'm an engineer, I'm not a  
20 toxicologist or human health expert on risk assessment,  
21 the science is complex. So that's why we have gone  
22 through the SAP several times trying to hone in on what  
23 are the effects of chlorpyrifos.

24 So the proposal in 2015, also a notice of data  
25 availability in 2016, were just what the EPA was

1 thinking about at the time. We received a lot of  
2 comments on both sides, so that's why the science is  
3 still unclear on whether or not what we were proposing  
4 is really there the path forward for the agency.

5 So that's where things are. We do intend to  
6 complete a review by the deadline of 2022.

7 MS. HARRIOTT: I have another question.

8 MR. KEIGWIN: Okay.

9 MS. HARRIOTT: So I would like to know what  
10 specifically is unclear. What studies are now needed to  
11 resolve these issues? Are there studies that you have  
12 identified, that you need to help resolve these issues?

13 MS. FRIEDMAN: Sure. Hi, this is Dana Friedman,  
14 I'm also in the Pesticide Re-evaluation Division, I'm a  
15 senior regulatory advisor. I wanted to clarify that  
16 some of the specific issues are really wrapped up in the  
17 incorporation of the epidemiology studies that we do  
18 have available to us. We have had a lot of comments  
19 from the public, both with regard to the availability of  
20 the raw data, that's one of the issues that we've  
21 been -- you know, discussed -- have been discussed in  
22 public comments a number of times.

23 Some of the issues around the incorporation of  
24 epidemiology studies has also come up in a number of  
25 SAPs. In our last Revised Human Health Risk Assessment,

1 I believe it was 2016, I think it was November, we  
2 utilized the data in a way that we thought reflected  
3 what the SAP had suggested we do in evaluating the  
4 report and additional comments that we received from the  
5 public, there is still great uncertainty there.

6 MR. KEIGWIN: Okay, Iris and then Amy.

7 MS. FIGUEROA: Hi. So I just actually -- thank  
8 you, Nichelle, for the question, that was a question I  
9 was going to ask as well, and just to highlight the  
10 vulnerable populations that can be affected by this  
11 delay, particularly farmworkers and farmworker children,  
12 of course. And five years is, in our view, a very long  
13 period of time for potential harm and for the long-term  
14 health effects that that could have, that exposure.

15 MR. KEIGWIN: Okay, Amy, then Leyla, then Lori  
16 Ann.

17 MS. LEIBMAN: So, thank you for some of the  
18 initial comments, and that echoes a lot of some of our  
19 thinking, but the process regarding this is really  
20 disturbing, and problematic. And I don't understand how  
21 all of the sudden the agency thinks that the science  
22 remains unresolved.

23 This is -- this is probably one chemical where  
24 we have the most science to underscore the impact that  
25 this chemical has on children's brains. And then let's

1 not forget about workers, because we always forget about  
2 workers, but, you know, workers are continually exposed  
3 to this chemical.

4 I was just out in Hawaii looking into an  
5 incident in January 2016, this year, in California,  
6 there has been numerous exposures of workers to this  
7 chemical. And all of the sudden, EPA changes the rules  
8 of the game. And so what -- I don't understand with the  
9 science that's there, the process. And if this is going  
10 to be the process, is it money? Is it profits? Is it  
11 that we don't care about the population that is going to  
12 be impacted?

13 I mean, okay, so we can throw away the workers,  
14 they're Latino, they're poor, they don't speak English,  
15 and we don't care? I mean, that is the population  
16 that's going to be impacted the most by these changes in  
17 the game. And it's not acceptable and it's really --  
18 it's really upsetting and it's very -- it goes against  
19 the mission of what the EPA is all about. And that is  
20 to protect human health.

21 And so what is happening here is not that the  
22 science is unresolved. We have more science on this  
23 issue. And so what happened is that the rules of the  
24 game have changed, and this is going to impact a  
25 population that puts food on our table and their kids

1 and the populations that live around them.

2 So that is now on your plate and this is really  
3 a very poor -- poorly made, poorly done process, and a  
4 very dangerous decision.

5 MR. KEIGWIN: I realize, Richard, you had had  
6 your card up sooner, so Richard, if you could go now.

7 MR. GRAGG: Okay, I have two questions. I guess  
8 my first one has to do with the going to 2022. So how  
9 can the EPA -- how do you intend on revising, updating,  
10 or coming up with some new type of evaluation that it  
11 took you 30 years to get to, how are you going to do  
12 that in five years? So that's my first question.

13 My second question is, you say here that you  
14 received a request to remand the biological evaluations.  
15 If somebody can explain that. And then you say you have  
16 not issued draft biological opinions.

17 MR. KEIGWIN: All right, so let me take the  
18 second two first. So as they related to the ESA  
19 evaluations, we did receive a request earlier this year  
20 to -- it wasn't a remand, it was a request for us to  
21 withdraw the biological evaluations for three  
22 organophosphates: Chlorpyrifos, diazinon and malathion  
23 that we had submitted to the U.S. Fish & Wildlife  
24 Service and the National Maritime Fisheries Service in  
25 January of this year.

1 MR. GRAGG: Right.

2 MR. KEIGWIN: That initiated consultation under  
3 the Endangered Species Act, so we received requests from  
4 external stakeholders to withdraw those biological  
5 evaluations. We have not withdrawn those biological  
6 evaluations. The biological evaluations are still with  
7 the services and we are actively engaged in consultation  
8 with the services.

9 The next step will be for the services to  
10 provide us with draft biological opinions that we will  
11 make available for public comment. We're still working,  
12 as Marietta said, with the services in the development  
13 of those draft biological opinions. Those are products  
14 of the services. These are very complicated evaluations  
15 for them to do, the first nation-wide biological  
16 opinions that we're doing in tandem with the services.  
17 And so that work continues to be ongoing. So there has  
18 not been a remand and there has not been a withdrawal of  
19 those.

20 MR. GRAGG: Okay.

21 MR. KEIGWIN: Okay? In terms of the next steps  
22 with the human health evaluation. Yu-Ting, do you want  
23 to?

24 MS. GUILARAN: So, part of what we're doing  
25 right now is going through the comments that we have



1 received from the 2016 Notice of Data Availability,  
2 along with the Revised Human Health Risk Assessment. I  
3 was just checking with Dana on how many subsequent  
4 comments we received. It's 200, and then the mass mail  
5 is more than that.

6 So we're going through the comment process  
7 working with the Human Health Effects Division to  
8 basically trying to figure out ways to address the  
9 comments.

10 MR. KEIGWIN: Okay. Did you have a follow-up,  
11 Richard?

12 MR. GRAGG: Yeah. So just for my clarification.  
13 So EPA goes through a process where you come up with a  
14 result or analysis, you put it out for public comment,  
15 and so these public comments are -- or these questions  
16 have led you to not conclude the human health portion  
17 because you got these comments, is that how the process  
18 works?

19 MS. GUILARAN: So kind of going back to what I  
20 was saying originally, that we -- EPA was attempting to  
21 address what the SAP's recommendation was to the agency.  
22 So the feedback that we have received, wide ranging from  
23 whether or not the agency did address or did not  
24 address, and this is how it was insufficient or  
25 sufficient, we have on both sides. So that's where

1 we're trying to go through the information that we  
2 received as part of this process through reg review.  
3 Trying to see what more modification, if any, we have to  
4 make to the science piece of it.

5 MR. GRAGG: I guess I'm going to stop, so it's  
6 going to take you five years, you estimate, to get  
7 there?

8 MS. GUILARAN: I guess I'm citing the five years  
9 because that's the end of the first round of reg review.

10 MR. GRAGG: Um-hmm.

11 MS. GUILARAN: I'll try to do the best I can for  
12 you.

13 MR. GRAGG: Thank you very much.

14 MR. KEIGWIN: Okay, Leyla, then Lori Ann, then  
15 Preston.

16 MS. McCURDY: Thank you very much. I'm not  
17 going to take too long. I want to say that I concur  
18 with the statements made by my colleagues before me,  
19 Nichelle, Amy, Iris, and Richard, and I agree with the  
20 questions that they posed and I feel like they have not  
21 been answered in the way that satisfies me.

22 So I just want to re-emphasize that we at the  
23 Children's Environmental Health Network are very  
24 concerned that this decision to postpone is putting  
25 children in harm's way, and we hope that the process can

1 be expedited. Thank you.

2 MR. KEIGWIN: Lori Ann, then Preston.

3 MS. BURD: First I want to acknowledge the many  
4 EPA employees who put years into working towards the  
5 chlorpyrifos ban. I thank you all for the work you did  
6 and recognize that this decision was out of your hands,  
7 unfortunately.

8 I have a few questions. Number one, as you guys  
9 go about this process, are you working with estimates of  
10 anticipated poisonings that will occur in the five years  
11 that it will take for us to apparently get certainty?  
12 That's pretty good numbers, it seems like we should be  
13 upfront with them.

14 MS. GUILARAN: So, our -- so we continue to  
15 monitor any of the incidents that occur related to all  
16 the pesticides that's in the market right now, so that's  
17 how we would keep track of the incidents.

18 MS. BURD: Okay. We know there's no such thing  
19 as scientific certainty, but we are pretty certain about  
20 what chlorpyrifos will do, and as many of my colleagues  
21 mentioned, there's abundant research on chlorpyrifos and  
22 why this ban would have been well substantiated. I'm  
23 wondering if as part of the additional research that you  
24 all are looking at and incorporating whether you are  
25 studying and monitoring the people that are currently

1 being poisoned by chlorpyrifos every year as this  
2 decision continues. It seems like that would be a very  
3 good group for additional research.

4 And also, I guess I'd like to know, you know, a  
5 little bit more about the plan of action for the next  
6 five years. We're not getting a ton of information here  
7 about exactly what will happen in these next five years.

8 MS. GUILARAN: So first I just want to -- if  
9 folks are interested in looking at the comments that we  
10 have received just the diversity of that and to kind of  
11 underscore what we're talking about when we talk about  
12 the scientific complexity and uncertainty, I will  
13 welcome you to our docket, because they are all  
14 available for you to take a look at the issues that we  
15 have to grapple with from here on out.

16 So step number one is to look through all the  
17 comments and make sure that we understand them, and then  
18 to see which of the comments are substantive, that may  
19 or may not change our risk assessment. Obviously if  
20 it's going to change our risk assessment, that will take  
21 HED time to work through that. And at that point, if  
22 there is a change, I mean, I'm looking at my boss, but  
23 we may have to have another comment period, or -- so I  
24 think that's why it's really hard to predict.

25 I think first is just really to wrap our hands

1 around what's the kind of information that's come in and  
2 what we need to do to respond to those comments. And  
3 I'm sorry for not being able to provide even more detail  
4 at this point, but we did receive a lot of information,  
5 and I encourage you to check our dockets.

6 MR. KEIGWIN: Okay. Preston, then Donny, then  
7 Cynthia.

8 MR. PECK: I will support the comments that have  
9 been said thus far so far as the potential exposure over  
10 this time period, but I also heard at the beginning of  
11 this meeting, and I don't remember who, I believe it was  
12 an agency official speaking to the importance of  
13 government to have clear and concise messaging when  
14 talking to the public. And I think that we've  
15 acknowledged that this has caused a great deal of  
16 confusion.

17 And we've seen in North Carolina, and the people  
18 that I met during the break from North Carolina will  
19 probably back me up on this, a great deal of confusion  
20 coming from coal ash being spilled into the Dan River,  
21 and our Department of Environmental Quality and the  
22 Department of Health and Human Services going back and  
23 forth, and I'm sure EPA was brought in on this, on  
24 levels of hexavalent chromium, so forth and so on. In  
25 the mean time, the people of that area are being exposed

1 and being very confused by the process of whether they  
2 can drink their water or not.

3 So just to highlight the lack of clarity on this  
4 decision and the impact that that can have on people and  
5 the confusion and still distrust within different  
6 agencies that not to just focus on the EPA, I think that  
7 time and time again I hear not necessarily from people  
8 sitting around this table, but people from industry  
9 speaking on touting these newer classes of pesticides  
10 such as neonics that's safer alternatives to the older  
11 class; however, in these same breaths and the same  
12 moments, I don't hear much from industry on advocating  
13 to get these other chemicals with this much data off the  
14 shelves.

15 And so I would encourage industry to speak up in  
16 times like these and to acknowledge that there are  
17 concerns to be made here and do what you can to help out  
18 agency and regulatory officials. So, thank you.

19 MR. KEIGWIN: Donny, then Cynthia.

20 MR. TAYLOR: So, can you all educate the  
21 committee on what impact an external deadline has on you  
22 performing your work?

23 MR. KEIGWIN: So, let me ask you a clarifying  
24 question. We have lots of external deadlines. Do you  
25 have specific ones in mind?

1 MR. TAYLOR: I understand, but you can use this  
2 as your case study.

3 MR. KEIGWIN: So if what you're referring to are  
4 court-ordered deadlines --

5 MR. TAYLOR: In this particular case, if that's  
6 the deadline.

7 MR. KEIGWIN: So in this case, we were under a  
8 court order to come to a decision by a certain period of  
9 time. I should note that after the agency received the  
10 report from the FIFRA Scientific Advisory Panel, the  
11 agency asked for additional time because of the -- or in  
12 light of the advice that we had received in trying to  
13 figure out a path forward based upon that advice.

14 While we did get some additional time, we did  
15 not get the length of time that we had sought, and so  
16 the scientists here in the Office of Pesticide Programs  
17 did a yeoman's effort in my personal opinion with the  
18 time that they had to revise a risk assessment, seek  
19 public comment, understanding that it was the best that  
20 we could do with the time that we had, understanding the  
21 report as we understood it at the time, and that, you  
22 know, one of the values of public comment periods, in  
23 general, I'll just pivot to that a little bit, is that  
24 as great a job as we do, and I was very thankful and  
25 appreciative of the comments that Nancy Beck had earlier

1 about the strength of this program's assessment. We  
2 don't always get it right, and there is great value to  
3 us in getting feedback on the assessments that we do.  
4 We don't oftentimes get a lot of feedback on the  
5 assessments that we do, so 200-plus very substantive  
6 comments on an assessment is a lot of information to go  
7 through and to make sure that we're making the best  
8 decision that we can with the best available science  
9 that's before us.

10 MR. TAYLOR: Thank you, because I think under  
11 the deadlines that you were given, I think you had to do  
12 what you had to do and everybody doesn't understand that  
13 science sometimes takes longer than the deadlines that  
14 are put in place.

15 MR. KEIGWIN: Cynthia?

16 MS. PALMER: Thank you. First of all, I concur  
17 with the comments of Nichelle, Amy, Iris, Richard,  
18 Leyla, Lori Ann and Preston, and I would like to state  
19 that the science on smoking has likewise been very  
20 complex, and yet when you look at the message and the  
21 weight of the evidence, it's rather clear-cut that  
22 smoking is bad for you. And I think there are  
23 parallels.

24 And third, I just had a clarifying question  
25 about Dow's requests to remand, because it comes up in



1 each PPDC update that they have made this request, and  
2 you've stated quite clearly that EPA has not done this,  
3 they have not granted that request.

4 Is that the same as saying that EPA has rejected  
5 that request? Have you turned down Dow's request, or do  
6 we still need to be nervous that you might actually say  
7 yes? Thanks.

8 MR. KEIGWIN: So we received that request many  
9 months ago, and we have not withdrawn the BEs, and I  
10 think that's a pretty effective message. I think the  
11 fact that we have not withdrawn the BEs, that is the  
12 agency's current position.

13 MR. KEIGWIN: Richard, you're -- or Donny,  
14 anymore? Cynthia, anymore?

15 (No response.)

16 MR. KEIGWIN: All right. So, I suspect that  
17 given that the next two chemicals aren't exactly -- why  
18 are you looking at me like that? All right, you all  
19 have a choice. We can either -- I will give it to you  
20 all. We could either try to get through both  
21 glyphosates and the neonics before lunchtime, that is  
22 like the -- that's -- let's practice this consensus  
23 thing a little bit more this afternoon. I think I heard  
24 no, pretty resoundingly. Jay might suggest otherwise, I  
25 don't know if that's why your tent card is up.

1           So, my suggestion based upon the groans in the  
2 room was we will break now. I will give Jay a minute to  
3 intervene with what he was going to say.

4           MR. VROOM: Just with respect to the suite of  
5 pest control available to farmers and other pesticide  
6 users, at the intersection of EPA's trying to apply very  
7 complex laws like the Endangered Species Act that has  
8 been referenced here, written completely separately from  
9 the pesticide law, and, frankly, even though the Food  
10 Quality Protection Act amended both the Food, Drug and  
11 Cosmetic Act and FIFRA in 1996, you still struggle with  
12 trying to make sense out of those two laws.

13           And so as an example, conversations here this  
14 morning about chlorpyrifos largely pivot around the  
15 petition to revoke the tolerances of chlorpyrifos, which  
16 is a process that in the pure sense of the two statutes  
17 are completely disconnected. And, frankly, doesn't make  
18 any sense.

19           And so I just wanted to make the point that  
20 farmers and other pest control users have a lot of  
21 needs, and if you look at the actual facts of the  
22 evolution of the way the agency regulates, especially  
23 all of the insecticides that we're talking about  
24 principally here, and use patterns that have responded,  
25 I think we've seen a tremendous amount of risk avoidance

1 and mitigation that is a combination of the serious  
2 efforts of applying science and very disparate policy  
3 framework handed to EPA, and the user community, and  
4 everybody else that sits around this table.

5 So I think we ought to pause and celebrate the  
6 fact that we have made a lot of progress around risk  
7 mitigation in the last 20 years. And that there's a  
8 profound commitment that we heard today from EPA to  
9 continue to lead with regulatory efforts to apply  
10 science as it evolves, and help to also provide a  
11 pathway for new, safer products to get to the  
12 marketplace. Thanks.

13 MR. KEIGWIN: Okay. It is ten minutes to 12:00.  
14 Why don't we reconvene at 1:15, plan accordingly to get  
15 through security so that we can start right on time, and  
16 what we'll start with at 1:15 is the discussion about  
17 dicamba.

18 (Whereupon, at 11:50 a.m., a lunch recess was  
19 taken.)

20  
21  
22  
23  
24  
25

1 AFTERNOON SESSION

2 (1:15 p.m.)

3 MR. KEIGWIN: Just one thing before we move on  
4 with the afternoon agenda. It's been brought to the  
5 agency's attention that there may be PPDC members that  
6 are tweeting out the discussions at today's proceedings,  
7 and I've been asked to remind everybody that, as Jim  
8 McCleary went through with us this morning, that it's  
9 important for all of us to refrain from any language or  
10 activities that would compromise the civility of the  
11 committee, and at least one PPDC member has brought to  
12 my attention their reluctance to speak because of the  
13 tweeting. So I would ask and just remind all of us of  
14 the role and responsibility that we have in these  
15 proceedings, and to act accordingly.

16 So, thank you for that. So this morning we had  
17 a very robust conversation, and I would imagine it will  
18 get even more so. So I'd like to introduce Reuben  
19 Baris, who is the Acting Branch Chief of the Herbicide  
20 Branch in the Registration Division, and Dan Kenny, who  
21 is the Acting Associate Director of the Registration  
22 Division, to give you all an update on a recent decision  
23 that we made relative to dicamba.

24 MR. BARIS: Thank you, Rick. And thank you,  
25 PPDC members, thanks for the opportunity to present

1 today on a little window into essentially how my staff  
2 and I have spent our last few months. And actually,  
3 honestly, many people in this room have spent the last  
4 several months investing a whole host of energy into  
5 finding workable solutions. This has been an enormous  
6 undertaking that represents the efforts of individuals  
7 at all levels within the EPA, coordination and  
8 cooperation from state lead agencies, university weed  
9 scientists, USDA, and the pesticide manufacturers of  
10 dicamba products approved for use on dicamba-tolerant  
11 soybean and cotton. It is an extremely high-profile and  
12 significant situation. It has drawn on the resources of  
13 our regulatory partners, focusing attention on  
14 investigating incidents and developing practical  
15 solutions.

16 The role of these efforts is to minimize  
17 off-target movements and reduce instances of crop damage  
18 in the 2018 season, while recognizing the importance of  
19 these products as a tool for growers to manage weed  
20 resistance. It was and continues to be our intent to  
21 inform growers in a timely manner, allowing them to make  
22 informed choices for seed purchases for the 2018 growing  
23 season.

24 The next few slides will walk us through a very  
25 high-level synopsis of these issues and provide a

1 general update on the areas of the labels that were  
2 modified for the 2018 growing season.

3 New uses of dicamba for use on dicamba-tolerant  
4 soybean and cotton were registered in November/December  
5 of 2016. Three products are currently registered.  
6 That's Monsanto's XtendiMax with VaporGrip Technology,  
7 BASF's Engenia herbicide, and DuPont's FeXapan herbicide  
8 with VaporGrip Technology. These are the only products  
9 that are registered for over-the-top uses for  
10 dicamba-tolerant soybean and cotton.

11 As the 2017 growing season was ramping up in the  
12 mid-south, EPA quickly became aware of the rapidly  
13 increasing number of crop damage cases alleging  
14 off-target movement of dicamba. These incidents of  
15 off-field movement were reported to the state  
16 departments of agriculture as early as April, after  
17 which allegations and investigations were brought to the  
18 EPA's attention as early as May, stemming from the  
19 Bootheel of Missouri and Arkansas.

20 As the 2017 growing season progressed, recorded  
21 incidents rapidly increased in frequency and geographic  
22 distribution across the southern states, northern  
23 Missouri, and eventually spreading into the midwest and  
24 Dakotas.

25 The next few slides are a little bit updated

1 than the slides that you actually have in your packet,  
2 given that when I gave these slides for approval and  
3 submissions for you all to actually have printed out and  
4 available to you, new information was brought to our  
5 attention about finalized numbers and cases. So these  
6 will be posted to the PPDC's website, I can get  
7 confirmation of that, so they will be available as soon  
8 as that happens.

9 So out of the 34 states where dicamba-tolerant  
10 soybean and cotton uses were registered, 25 states  
11 reported estimates of soybean crop damage. As of  
12 October 15th, 2017, 2,708 official cases were reported  
13 to the state departments of agriculture, totaling over  
14 3.6 million acres of soybeans. These figures only  
15 represent the official incidents reported to the state  
16 departments of agriculture in May and, in fact,  
17 underestimate the extensive crop damage incidents since  
18 we are aware that approximately one in five cases were  
19 actually reported and documented.

20 Throughout the 2017 season, estimates such as  
21 these represented our current understanding of the  
22 evolving issue, but as this issue was extremely dynamic  
23 and difficult to really get perfect information on, as  
24 soon as these figures were gathered and presented or  
25 reported, they were actually outdated.

1           The map on this slide and the next were compiled  
2 by Dr. Kevin Bradley of the University of Missouri,  
3 where he pulled representatives from the state  
4 departments of agriculture quantifying the number of  
5 formal complaints of soybean crop damage.

6           And then this map estimates the total acreage of  
7 soybean damage this year as reported by state extension  
8 weed scientists drawing from their involvement directly  
9 with growers. While these estimates focus on soybean  
10 acreage, we are also aware of cases involving tomatoes,  
11 watermelon, cantaloupe, vineyards, pumpkins, vegetables,  
12 tobacco, residential gardens, trees and shrubs, and  
13 other plants that are sensitive to dicamba.

14           As the issue evolved this year, EPA -- next  
15 slide, sorry. As the issue evolved this year, EPA  
16 engaged state lead agencies and university weed  
17 scientists in a series of conversations gathering  
18 information that could help remedy the unacceptable  
19 dicamba-related incidents reported in the field. The  
20 EPA approached the issue cooperatively with our  
21 regulatory partners in affected states and collected  
22 information from experts in the field to better inform  
23 any potential federal regulatory action.

24           Our objective is to minimize off-target movement  
25 and reduce the number of incidents in the 2018 growing



1 season, but we recognize the utility of the benefit of  
2 dicamba-tolerant technology through weed-resistant  
3 management. With this in mind, the EPA developed  
4 workable solutions with the pesticide manufacturers to  
5 amend the pesticide label application directions to  
6 address issues that rose to the surface of possible  
7 explanations for the unacceptably high number of crop  
8 damage incidents.

9 In our discussions, there were five common  
10 issues that surfaced in almost every conversation,  
11 suggesting the potential root causes of crop damage  
12 related to dicamba applications. These were: Physical  
13 drift, contamination, temperature inversions, volatility  
14 and misuse.

15 In reaching an agreement with Monsanto, BASF,  
16 DuPont -- and DuPont on measures to further minimize the  
17 potential drift to damaged neighboring crops from the  
18 use of dicamba formulations used to control weeds and  
19 genetically modified cotton and soybeans, the new use  
20 requirements for the use of dicamba will allow growers  
21 to make informed choices for seed purchases and weed  
22 management for the 2018 growing season.

23 This slide summarizes the major changes to the  
24 label for the next growing season; however, the labels  
25 have been revised significantly compared to the original

1 registrations. Namely, there are no longer supplemental  
2 labels for the uses on dicamba-tolerant soybeans and  
3 cotton. The supplemental labels have been integrated  
4 into the main label which the registrants have  
5 voluntarily agreed to designate as restricted use,  
6 meaning that only certified applicators may purchase and  
7 apply these products, which also includes permitting  
8 those under the direct supervision of a certified  
9 applicator to apply these products.

10           Dicamba-specific training is mandatory for all  
11 applicators who intend to apply these products,  
12 emphasizing that there may be state-specific  
13 requirements for training, and applicators must follow  
14 the state requirements before applying.

15           Additional restrictions have been implemented to  
16 limit when applications are permitted, reducing the  
17 maximum wind speed from 15 miles per hour to ten, and  
18 limiting applications of the dicamba between sunrise and  
19 sunset.

20           Language was added to enhance directions for  
21 sprayer system cleanout in order to prevent  
22 cross-contamination, and in an effort to increase  
23 awareness of the potential risk of damaging neighboring  
24 crops, label directions and documentation was added  
25 requiring applicators to identify potential sensitive

1 crops or plants neighboring the application site to  
2 further emphasize the compliance with downwind buffer  
3 restrictions.

4 And, lastly, the restricted use pesticide  
5 designation on these three products carries with it the  
6 requirement for the applicators to keep and maintain  
7 certain records regarding the use of these products.  
8 Keep in mind that product labels are very different from  
9 the labels that the growers may have become accustomed  
10 to in the 2017 growing season. It is important for  
11 applicators to be trained before applying these products  
12 and follow all label directions.

13 All three registrants are undertaking a process  
14 to get the labels in the hands of growers in time for  
15 the 2018 application season. This effort is intended to  
16 appropriately manage product that is currently in the  
17 channels of trade and relabel it so growers are using  
18 the correct label. While each registrant may have  
19 slightly different processes for implementing the new  
20 label, the intent is to ensure that applications --  
21 applicators and growers have the new label and are  
22 following the correct label directions for the upcoming  
23 season.

24 EPA will monitor the success of these changes  
25 and help inform our decision whether to allow the

1 continued use of dicamba on dicamba-tolerant soybean and  
2 cotton after the 2018 growing season. And I think one  
3 of the things that we will hear today that I hope we can  
4 enter into the rest of the hour would be looking to the  
5 committee to -- and open it up for suggestion and  
6 discussions about how best to monitor the success in the  
7 2018 season and beyond.

8 Thanks.

9 MR. KEIGWIN: So, questions on that  
10 presentation? Andrew, Preston, Charlotte.

11 MR. THOSTENSON: So, my question, basically now  
12 we're trying to figure out what success looks like in  
13 2018? Would that be a fair assessment of what we're  
14 going to try and do over the next few minutes?

15 MR. BARIS: Yes, I think that's one of the  
16 objectives, and how best to measure that.

17 MR. THOSTENSON: Okay. So, you know, one of the  
18 thoughts that I have in working with applicators, and  
19 we've engaged with our Department of Agriculture about  
20 what success might look like, and we just threw some  
21 ballpark numbers out and said if we have 50 percent of  
22 this off-target movement in North Dakota, would that be  
23 acceptable in '18 or not? And our department  
24 universally said that wasn't acceptable. That would  
25 have been a failure.

1           So then we said, well, maybe 25 percent. Maybe  
2   10 percent. So I guess I'm grappling with what the  
3   success looked like. I mean, we are going to have  
4   problems, it's just a matter of how much problems we'll  
5   have.

6           I assume that what has happened with the new  
7   labels will mitigate some of it, but how much? And  
8   that's what we're grappling with in North Dakota right  
9   now is trying to describe what success looks like in  
10  2018.

11           MR. KEIGWIN: Okay, Preston, then Charlotte,  
12  then Cynthia.

13           MR. PECK: Thank you for your presentation. I  
14  have just a couple of technical questions. With the  
15  point on the underestimation of crop or plant damage,  
16  the approximately one in five being recorded. How did  
17  you derive that estimation?

18           MR. BARIS: That was based on conversations with  
19  stakeholders, state lead agencies, university weed  
20  scientists. It's not a precise estimate.

21           MR. PECK: Right.

22           MR. BARIS: It's an approximation. It was just  
23  really the only information that we have, formally, are  
24  the cases reported directly to the state departments of  
25  agriculture.

1           MR. PECK: Yeah, I was just a little curious on  
2 the methodology. And then one other question, is the  
3 plan with the rollout of the new labels, is this being  
4 coupled with any kind of educational efforts on letting  
5 people know that there are label changes besides, you  
6 know, is EPA working with the state departments of ag on  
7 kind of a robust education campaign and awareness  
8 building on this?

9           MR. BARIS: I think yes is a fair statement, but  
10 there is a mandatory training requirement on the label,  
11 and it opens -- it gives a nod to the states that  
12 actually do have a specific requirement in their state,  
13 and many states implemented that requirement through  
14 24(c)s, and the 24(c) labels, in the 2017 season.

15           So the idea was to recognize that some states  
16 already do have that requirement in place and may  
17 continue that moving forward, but there is an  
18 opportunity there for states to decide whether or not  
19 they want to implement their own specific requirement.

20           MR. PECK: Thank you.

21           MR. KEIGWIN: Charlotte, then Cynthia, then Jay.

22           MS. SANSON: Thanks, and thanks, Reuben, for the  
23 presentation. Preston stole some of my questions, so  
24 I'll move on to my next one, although I did have a  
25 question on slide 4, as Preston did, approximately one

1 in five cases, if that is -- if that is an assumption, I  
2 think perhaps it would be better to state that as an  
3 assumption, rather than approximately, because if that  
4 number doesn't have a firm basis to it, maybe it's an  
5 assumption.

6 MR. BARIS: That's fair to say. It is an  
7 assumption. I mean, it's anecdotal information.

8 MS. SANSON: Yeah, okay.

9 MR. BARIS: It's not an official agency  
10 position.

11 MS. SANSON: Okay. And then on slide 5, the one  
12 with the map. I see that you have updated it since the  
13 version we have, which is fine, but I was curious as to  
14 an explanation on the zeros in some of the states. Is  
15 that where it's registered but there were -- no, I think  
16 it was that one. I think is that where it's registered  
17 but there were no official incidents reported? Is that  
18 how to interpret that?

19 MR. BARIS: That's correct. The state was  
20 polled, dicamba is registered in those states for  
21 over-the-top uses, but no official complaints or  
22 incident cases were reported in those states.

23 MS. SANSON: Okay, thank you.

24 MR. KEIGWIN: Cynthia, then Jay, then Liza.

25 MS. PALMER: So, this is worrisome in terms of

1 the volatility and the drift issues with dicamba. I  
2 sure hope it works in the next growing season. I'm  
3 wondering what steps EPA would be taking to protect the  
4 neighboring growers, and what these neighbors can do to  
5 become whole. It seems like they will have no choice  
6 but to buy dicamba-resistant seeds from Monsanto in the  
7 future and we're sort of further along on that  
8 treadmill.

9 I'm also wondering if with these label changes,  
10 if there is like a Cliff's Notes version or something,  
11 for the growers, because like I read that the Monsanto  
12 XtendiMax with VaporGrip label is 4,500 words, and if  
13 we're adding a few more, I'm hoping that there's a  
14 summary version available for farmers. Thanks.

15 MR. KEIGWIN: So, as part of the training that  
16 Reuben mentioned, and some of the label changes, there  
17 have been -- there has been additional information put  
18 on the label relative to what the sensitive crops are.  
19 And then the enhanced training that will be provided in  
20 many states, as Reuben mentioned, did do fairly  
21 extensive training, and in a number of those states, the  
22 extent of training perhaps even correlates with some of  
23 the states where there were relatively low incidents, or  
24 in the case of Georgia, no reported incidents.

25 And so we're trying to build upon the success of



1 that effort. As Reuben also mentioned, now these  
2 products are restricted use, and so there's  
3 recordkeeping, and so some of the recordkeeping  
4 requirements that have been put in place in effect help  
5 to walk the growers through the label, and then they're  
6 recording how they have met that label requirement, so  
7 we think that that helps to reinforce important parts of  
8 the label.

9 Liza -- no, sorry, Jay, then Liza, then Andy.

10 MR. VROOM: Reuben, on slide 4, where you talked  
11 about that was revised to 3.6 million acres of soybeans  
12 impacted, so this is the composite of the reports you  
13 got from the state regulators. Is that right? So it  
14 would be an estimate of what they knew or had reported  
15 in terms of the field size, right, for each complaint  
16 incident?

17 MR. BARIS: So, that's partially correct, it  
18 incorporates those figures; however, that 3.6 million  
19 acre estimate is actually a poll from university weed  
20 scientists extension agents on their best guess at  
21 what --

22 MR. VROOM: So it would be a whole field  
23 estimate, and in most of the cases, the impacts would  
24 have been, you know, near the boundary of the field, so  
25 this 3.6 million number estimate would be the total

1    acreage of fields for which complaints are anticipated  
2    or have already been filed.

3                So it's -- the point I wanted to make is it's  
4    probably an overstatement of the total acreage, and this  
5    is out of I think 22 million acres that were treated  
6    this year with over-the-top dicamba applications.

7                MR. BARIS: That's correct, 22 million acres  
8    were treated.

9                MR. VROOM: So, again, it's early days. You  
10   know, our advice to the agency was to wait until more of  
11   the state investigations had been concluded. We  
12   understand that some of the states haven't finished 2016  
13   investigations yet, but compliments to the agency and  
14   the registrants and the grower community for having come  
15   together to create a label change landscape for 2018  
16   that I think will help put more incentives in place for  
17   applicators, whether private or custom applicators, to  
18   pay attention, because more recordkeeping is going to be  
19   in evidence and we'll know more about, you know, what  
20   happened in 2018 than we'll ever know about 2016 and  
21   '17.

22                So we're quite supportive of the progress that's  
23   been made. Obviously there will be more to be learned,  
24   and thank EPA for, you know, being a proactive  
25   participant in all of this.

1           MR. KEIGWIN: Okay, Liza, then Andy, then  
2 Sharon.

3           MS. TROSSBACH: I'd like to just provide some  
4 information. There were some questions about the  
5 education pesticide applicators, whether they're  
6 commercial applicators, private applicators or  
7 agricultural producers, in ensuring that they're aware  
8 of the changes to the label. As a state lead agency  
9 for, you know, for pesticide regulation, I can speak for  
10 the entire association and indicate that we believe an  
11 educated community is a compliant community, and we  
12 stress education all the time.

13           In addition to applicators having to be  
14 certified through examination, there's also continuing  
15 education or recertification, and one of the things we  
16 want to make sure is that applicators understand and  
17 know how to use the tools that are in their hands. And  
18 so certainly when there's any huge type of change like  
19 this, when something is going from being a general use  
20 pesticide to restricted use pesticide, and all of the  
21 different requirements, and the fact that this is such  
22 high-profile, and it is significant, you have growers  
23 that have this technology in the field, they need a tool  
24 to use to be able to, you know, to make those  
25 treatments. We want it to be available, but we want to

1 be able to use it properly.

2 We're certainly -- I know the states that are  
3 impacted by this have done a lot of training. It may  
4 have been required, it may have not. They're certainly  
5 doing that now. And as these changes have just been  
6 announced, I think states are working to get that  
7 information out to their grower communities to certify  
8 those applicators that didn't previously have to be  
9 certified.

10 Some is done by the state lead agency directly,  
11 some is done through cooperative extension, and Andrew  
12 can certainly speak more to that effort. Right now is  
13 applicators are going through their continuing education  
14 units or recertification courses, so the timing of this  
15 is good in that we have these folks that are coming to  
16 the table and working with extension. It's very easy  
17 for me to work with people who are certified, because I  
18 regulate those individuals, but those applicators who  
19 didn't have to previously be certified to use dicamba,  
20 that's where that relationship with extension is so  
21 important, because that grower, the first call they make  
22 is to their extension agent.

23 And so I can speak, you know, very emphatically  
24 that the state regulatory authorities are working  
25 through extension and those frameworks and mechanics

1 that are already out there to disseminate that  
2 information. And so it's certainly -- we're certainly,  
3 you know, making every effort to do that starting now,  
4 part of the growing season, and then working on how will  
5 the training be implemented. You know, is it going to  
6 be registrant training? Is it going to be state  
7 training? You know, how is it going to be -- how are we  
8 going to reach those individuals? And we do this all  
9 the time. Dicamba is not the first issue that's come up  
10 with pesticides, it won't be the last, certainly, and we  
11 do this all the time.

12 And so, you know, I like to think that we do a  
13 good job at that. So just to address any of those  
14 concerns about the grower group, the applicators not  
15 having the information that they need.

16 MR. KEIGWIN: Okay, Andy, then Sharon, then  
17 Richard.

18 MR. WHITTINGTON: Fair to say that we all know  
19 that we can't have a year this year next year -- like we  
20 had this year next year. We are in Mississippi making  
21 significant changes. We were RUP last year, and so the  
22 changes that are here are not that significant to the  
23 changes that we will have to make. We are going to -- I  
24 mean, we require training prior to purchase, rather than  
25 prior to application.

1           I believe our plant board this year is going to  
2 recommend that we go restricted use on the generic  
3 dicamba products, to try and take that piece of the  
4 puzzle out, but as someone who works with people who  
5 were both affected and unaffected and the affecter, the  
6 conversations that we are having is that we have to  
7 be -- we have to do a better job of being stewards of  
8 these products if we expect to keep them. And everybody  
9 I have talked to is committed to that, and making sure  
10 that they're good neighbors.

11           So we appreciate the label changes, we are  
12 incorporating them into what we already have, and we  
13 look forward to whatever success looks like next year.

14           Oh, and I do want to say that damage -- I'm not  
15 sure that's the word I would use, because as harvest has  
16 come up, some of it appears to be cosmetic, and I don't  
17 know -- are you -- has the agency started getting  
18 information on whether it's yield reduction or if it was  
19 just cosmetic foliage damage? And is there a  
20 difference?

21           MR. BARIS: We're asking for that type of  
22 information, we're still continuing to try to wrap our  
23 heads around it.

24           MR. KEIGWIN: Okay, Sharon, then Richard, then  
25 Damon.

1 MS. SELVAGGIO: I was wondering about when you  
2 have the slide about impacted crops, at the very end you  
3 say trees and shrubs, and so I'm not sure if that means  
4 crop trees or if that means native vegetation of  
5 non-crop vegetation, or are those any other kind of  
6 non-crop vegetation. So my question is has there been  
7 any reports of ecological damage, you know, to  
8 non-crops, and if so, do you have any quantification of  
9 that?

10 MR. BARIS: As Jay was indicating, the  
11 investigations are still ongoing, specifically to  
12 quantify those acres that are not soybean. So we still  
13 don't have an entire picture, but what we were trying to  
14 do in this effort was to provide as much information as  
15 we could and take appropriate action with the  
16 information that we had available to us to inform  
17 growers for the 2018 season. So as that information  
18 becomes available, we'll certainly use that to inform  
19 any future decisions.

20 MR. KEIGWIN: Okay, Richard, then Damon, then  
21 Amy.

22 MR. GRAGG: I was curious as to whether or not  
23 is EPA doing -- other than the information they're  
24 receiving from the users or people who were impacted, is  
25 EPA doing any of its own monitoring?

1           MR. BARIS: So the state lead agencies are  
2 the -- they have primacy when it comes to pesticide  
3 enforcement and investigations, so we work cooperatively  
4 with the state lead agencies to investigate all cases of  
5 incidents and working with them cooperatively to develop  
6 those metrics to better evaluate what 2018 will look  
7 like.

8           MR. GRAGG: Okay, thanks. And on slide 7, you  
9 labeled it Investigations, but I guess my question is,  
10 how are you -- what's your criteria for damage and are  
11 you looking -- how are you identifying that in other  
12 crops or plants?

13           MR. BARIS: We're looking at all of it. I mean,  
14 we're trying to gather all that information together and  
15 use the best available information to make the most  
16 informed decision.

17           MR. KEIGWIN: So, Richard, let me just add on to  
18 that. So, some of the initial reports that we got, for  
19 example, in non-dicamba-tolerant soybeans, there was a  
20 cupping within the plant, and so it was -- it was before  
21 the seeds -- the pods started to form. I think that in  
22 part was why we got the question we did about how did  
23 this impact yield. So when Reuben is talking about  
24 investigations, it's starting when the off-target  
25 movement began to show some impact on a non-target



1 plant. That was kind of the premise. And so we're  
2 including that, and the numbers that Reuben is citing  
3 are coming from that -- those initial reports of  
4 potentially some impact.

5 MR. GRAGG: So on -- so you cited the three  
6 million acres of soybeans, however that's going to end  
7 up actually, like the gentleman raised, what that  
8 actually means, but what are your numbers? Do you have  
9 numbers on your other crops, other impacted crops?

10 MR. BARIS: That's actually one of the things  
11 that we're trying to -- or that we're actually  
12 requesting from state lead agencies and those conducting  
13 the cases of incidents is to measure what occurred in  
14 2017 so that we can better evaluate 2018.

15 MR. GRAGG: And my last question is that if it  
16 gets on other crops, is it always going to be some type  
17 of physical or visible damage or do we know that or  
18 could it get on a crop and not have any visible signs  
19 and then it could get into the consumption -- into the  
20 people purchasing or utilizing it for food?

21 MR. BARIS: I mean, dicamba has been registered  
22 for a number of years and has a number of different uses  
23 on it. Namely, it does have residential uses. So  
24 different crops show different symptomology, depending  
25 on its sensitivity. So I mean, I can -- we can go into

1 that, but I don't necessarily -- soybeans are the most  
2 sensitive plant to our knowledge.

3 MR. GRAGG: All right, thank you.

4 MR. KEIGWIN: Okay, Amy, and then Andrew, are  
5 you coming in for round two? And Nichelle.

6 MS. LIEBMAN: Thank you. This is a really --

7 MR. KEIGWIN: I'm sorry, I skipped Damon. So,  
8 Amy then Damon.

9 MS. LIEBMAN: This is a really interesting  
10 update on something that's been a little bit out of a  
11 John Grisham novel with murder and all sorts of intrigue  
12 with this. And I think this has been really helpful.  
13 But I wanted to point out that this is a really  
14 interesting case study when we get into our discussion  
15 tomorrow about how important the label is and how  
16 critical it is for people who are applying pesticides to  
17 understand the label, and to use it accordingly. And I  
18 want to echo what has been said about the importance of  
19 education and training, and that we are not going to  
20 have safe use, if there is a safe use, of pesticides if  
21 people don't understand the label, can't read the label,  
22 don't know the label, and are not educated about it.

23 So -- and it's interesting about the -- the  
24 impact it's had, because it's affected a crop. And so  
25 I'm also curious, you know, in terms of response when it

1 affects people. So I think the reaction has been great  
2 in terms of looking into it, trying to investigate it,  
3 understanding what's happening, changing the label, all  
4 of these things are really good actions, but I find it  
5 intriguing all of this is happening because of crop  
6 damage and not -- changes don't happen when we have  
7 human -- I'd like to see similar responses and action.

8           And then the other thing I wanted to point out,  
9 I think the numbers on that map, on slide 5, are super  
10 interesting. And I find it hard to believe about the  
11 zeros in Florida and Georgia, and I think it would be  
12 helpful for the agency as you move forward to look into  
13 what has happened in some of those states in terms of  
14 the education, because my guess is, is now that they've  
15 done a great job educating -- I mean, I have no idea,  
16 but I have a feeling that the states where there has  
17 been a lot of outreach and a lot of education, you're  
18 probably getting some higher numbers because people are  
19 aware of what's going on. So I think the higher number,  
20 they're almost an interesting -- could be an interesting  
21 impact of the educational efforts.

22           So essentially like if you look at pesticide  
23 incident reporting for people in California, versus  
24 Texas or Florida, it's always higher in California  
25 because they have a better system there. It's not

1 because there's more incidents happening in California,  
2 there's more reported incidents happening in California.

3 So I just think that's something for you guys to  
4 investigate and see what's happening and what's at the  
5 root of such enormous differences between Georgia and  
6 some of the other states.

7 MR. BARIS: Thank you for your comment. I mean,  
8 I think the -- there are a lot of factors that go into  
9 these numbers, and these are just numbers on a slide.  
10 Just because Georgia has a zero and Arkansas has 986, it  
11 may be a factor, like you said, of reported incidents or  
12 outreach or awareness or anything. There's --  
13 topography, geography, proximity, there's so many --  
14 there's so many factors that go into whether or not an  
15 incident is reported or not. And that's -- those are  
16 exactly the things that we're looking into and examining  
17 as we move forward.

18 MR. KEIGWIN: I think that -- and point taken,  
19 Amy, I think one of the things I would say, I know the  
20 Georgia program particularly well, they started training  
21 their applicators three years ago, well in advance of  
22 the technology being available, so it wasn't just a  
23 one-time training, there was some repetition involved,  
24 too, and I think at least for myself, as I was going  
25 through my academic training, repetition certainly

1 helped a lot.

2 MS. LEIBMAN: Great, and let's remember that  
3 tomorrow when we talk about WPS and the certified  
4 applicator training.

5 MR. KEIGWIN: Right. So, with that, Damon, then  
6 Andrew, then Nichelle.

7 MR. REABE: Thanks. I also noticed something  
8 really interesting on that map that I'd like to bring to  
9 the attention. Obviously we're all aware of the fact  
10 that aerial application is not an approved method for  
11 any of these active ingredients. And when you look at  
12 the map and you think back to the time at which these  
13 products were to be applied, where those numbers are the  
14 highest are correlating with some very, very wet spring.  
15 And these growers did not have the tool of aerial  
16 application to use to apply this product.

17 And so with that being said, that probably put a  
18 lot of ground applicators in a very, very difficult  
19 position where the timing of this application needed to  
20 be made under less-than-ideal conditions. Aerial  
21 application can help with that in that we can make these  
22 applications regardless of soil conditions, so when we  
23 have these really wet periods, access to this tool to  
24 fight weed resistance is available to our producers.

25 And I think had there been access to this tool

1 by the aerial applicators in Arkansas and the Bootheel  
2 of Missouri, these products would have been applied by  
3 professionals who are paid very, very well for what they  
4 do, clearly understand how to use herbicides properly  
5 and under what conditions they have to use them in, and  
6 as professionals, really have a -- they have their  
7 career to lose if it's done incorrectly.

8 And so the understanding of the training is  
9 there because we're dealing with people that are truly  
10 professionals with -- that are making a career out of  
11 aerial application. So that was one observation that I  
12 noticed, and I think that we would clearly see a  
13 correlation not only in the number of acres treated, but  
14 also under what -- what was the story of the spring  
15 regarding soil conditions.

16 In regards to the 3.6 million acres affected,  
17 that's approximately 4 percent of all of the soybeans  
18 planted in the United States, so had -- if they're truly  
19 affected or particularly if they are destroyed, we would  
20 see a very significant change in commodity prices  
21 associated with that. So that number, I know the  
22 intention isn't to inflate the number, but it is -- it  
23 is probably a serious overestimation.

24 The other thing that I was really interesting in  
25 this presentation was the fact that 22 million acres

1 were treated with this tool. That's nearly 30 percent  
2 of the entire soybean crop. These are not good numbers.  
3 This is a very serious problem, but what is not  
4 quantified in this presentation is how many applications  
5 were done. Thanks.

6 MR. KEIGWIN: Okay, Andrew, then Nichelle, then  
7 Liza.

8 MR. THOSTENSON: Well, as a pesticide trainer,  
9 and that's what I've been doing for the past 21 years, I  
10 can tell you that I have observed both the Arkansas  
11 training and the Georgia training, and they're both very  
12 good trainings. You'll notice that Arkansas has 986,  
13 even though they had a very good training program, and  
14 Georgia had a very good training program, and they had  
15 zero.

16 So I tend to believe that good training is good  
17 training. But that means that there's something else  
18 going on there besides just training in Arkansas.

19 The other question that I have is because I am a  
20 trainer, what are the criteria for this mandated  
21 training? Do we have a curriculum? Do we have a  
22 standard like what we've done in soil fumigation of  
23 certain topic areas that need to be covered? I'm just  
24 curious what that may or may not be, for the  
25 dicamba-specific training.

1           MR. BARIS: Thank you, Andrew. The intent of  
2 the label language on the -- in regards to the mandatory  
3 training statement, training is required, and then it's  
4 a two-part statement after that, giving an  
5 acknowledgment to the states that either implemented a  
6 training requirement in 2017 season through a 24(c)  
7 label requirement that developed that state requirement  
8 and developed a state training, say Georgia or Alabama,  
9 North Carolina, Arkansas, Mississippi, Louisiana, I  
10 could go on.

11           It was an acknowledgment that those requirements  
12 could be in place for 2018 as well. But by no means was  
13 that to say that a state must develop that training.  
14 They have a -- they have the decision to implement a  
15 requirement and develop a training, should they choose  
16 to; however, that could also open up an opportunity for  
17 the state to decide whether or not they take a  
18 registrant-provided training.

19           And I think Liza may actually be able to speak a  
20 little bit more articulately about the effort that AAPCO  
21 is actually going through right now to make that  
22 determination across the 34 states that are affected for  
23 these registrations of dicamba-tolerant soybean and  
24 cotton.

25           So again, that's just the intent of the label



1 language, and I think we're actively working on that.  
2 There is no specific curriculum, but there is work being  
3 done to address the requirement.

4 MR. KEIGWIN: Okay, Nichelle, then Liza, then  
5 Lori Ann.

6 MS. HARRIOTT: So pesticide drift is not a new  
7 Phenomenon that farmers have had to be facing and that  
8 EPA by extension has had to address. And given that  
9 risk, we see more genetically modified crops being  
10 paired with specific products that are to be used on  
11 those genetically modified crops. I just want to urge  
12 EPA, in conjunction with collaboration with USDA, to  
13 work together to proactively -- and this is me thinking  
14 ahead -- to proactively develop a new strategy where we  
15 do not in the future see any more of these dicamba-like  
16 incidents when it comes to spray drift, given that we  
17 know that there are new pesticide products in the  
18 pipeline to be used on these type crops.

19 And just going back to an earlier question of  
20 what does success look like, EPA in conjunction with  
21 USDA need to sit down and evaluate that question. I  
22 think it's a very valid question. What does success  
23 look like? Are we just trying to reduce incidents from  
24 the 986 that we see in Arkansas to, say, 500 incidents?  
25 Is that what success is? Is it 200 incidents? Or are

1 we trying to move away from having farmers face these  
2 types of incidents year after year and are we trying to  
3 eliminate spray drift?

4 MR. KEIGWIN: Okay, Liza, then Lori Ann, then  
5 Richard.

6 MS. TROSSBACH: Thank you. I will mention  
7 briefly this survey, I had planned to do that initially  
8 when the question was asked about the crop damage that's  
9 not to soybeans or to cotton, and in that -- in the map  
10 that you see, that was done by weed scientists asking  
11 specifically about soybeans and cotton. And so one of  
12 the things that AAPCO, the association has done, is put  
13 together a survey to the states, and one of the  
14 questions in that survey is, are you able to quantify  
15 the non-soybean, non-cotton crop damage and what  
16 specifically it is, to try to gather that information.

17 So that survey actually just went out this week  
18 to state lead agencies and we're gathering that  
19 information to help provide that information to EPA, you  
20 know, just so that they know, you know, for their  
21 consideration.

22 Also in that survey, we're also asking the  
23 states questions about the training requirement. As you  
24 heard, there are some states that mandated training  
25 already, so they already have training in place. You

1 have some states, like Virginia, that didn't mandate  
2 training, but conducted a lot of training over the last  
3 year. And we're one of the states that there were no  
4 reports of potential pesticide misuse or damage to the  
5 state lead agency, which is my office.

6 And so I like to think there is some  
7 correlation, but again, there are so many factors, if  
8 you look at Arkansas, it's a cropping system, the amount  
9 of acreage, how they're applied. There are so many  
10 factors, you know, in that. But to the training, one of  
11 the things that we are asking states is just that  
12 question, Andrew, is what would it require, you know,  
13 what would you want, or what would you require before  
14 you would accept registrant training? You know, are  
15 there certain components. Does it have to be -- you  
16 know, do you want it approved by EPA? Does it have to  
17 be certain factors?

18 So there's a lot of that work that's being asked  
19 of state lead agencies right now, you know, to get their  
20 opinion on and to gather that information. Also are you  
21 going to do state training, will you allow registrant  
22 training. There's a lot of flexibility for states. For  
23 those states that already have training, who have a  
24 mandated training program, they may already have  
25 training in place. Not that they might change it a

1 little or amend it, but they already have that in place.  
2 Then you have some states who will have to start over,  
3 or may have to work from scratch.

4 So I think that information that will be  
5 gathered through this survey will kind of be helped,  
6 whether it's something that comes out officially from  
7 EPA or whether it's a guidance document to state lead  
8 agencies to help each other, say this is what we think  
9 is important for this type of training, certainly  
10 working with extension, our pesticide safety educators,  
11 who are those individuals who are experts in that area,  
12 we'll be able to pull all that information together so  
13 we're ready for the 2018 use season.

14 And there is an urgency, because now, as I  
15 mentioned before, is when certification courses and --  
16 excuse me, recertification and continuing education  
17 happens, and we need to get individuals trained and  
18 certified so they're ready to use for 2018, which can be  
19 early in some states, you know, in some areas.

20 Just one other thing about the differences in  
21 the numbers. I think the statement was made about  
22 Florida being zero. Well Florida has very limited use  
23 of dicamba. So just as an -- a total amount that's  
24 supplied to total amount of acreage is much smaller  
25 than, say, Arkansas or some of the other states. So

1 once again, it's hard to make those comparisons between  
2 states because we are so different.

3 MR. KEIGWIN: Okay, Lori Ann, then Richard.

4 MS. BURD: Hello. Reuben, thank you for your  
5 excellent presentation. My question arises in the  
6 context of resistance management. We've heard reports  
7 that many growers are adopting this technology because  
8 they are concerned about drift, and so they're just kind  
9 of prophylactically adopting it which, of course, goes  
10 against some of the excellent resistance management  
11 guidelines that this office has issued, and some of the  
12 approach to resistance management that we've all  
13 discussed, which, you know, would not involve a lot of  
14 prophylactic adoption of these kinds of technologies.

15 And then, of course, subsequent increase in  
16 dicamba use that would come from that. I'm wondering if  
17 you guys were thinking about this at all from a  
18 resistance management perspective.

19 MR. BARIS: There is a five-year check-in point  
20 on the registration for resistance management and the  
21 registrants are required per the terms on the  
22 registration to report cases of resistance that they  
23 know of to the agency, and there's mechanisms for that.  
24 So we are acutely aware of resistance management, and  
25 are keen to take action appropriately as needed.

1 MR. KEIGWIN: Okay, Richard?

2 MR. GRAGG: Okay, my questions have to do with  
3 the -- I guess around success in your maps, but it was  
4 just communicated that Florida may be low because they  
5 don't use a lot of dicamba, so is that true for the  
6 other half of the U.S. as well? The same type of thing,  
7 there's not a lot of dicamba used where it's all white?

8 MR. KEIGWIN: So I believe the white states are  
9 the states where this technology has not been  
10 registered. So this only reflects the use in the states  
11 where the over-the-top technology is registered, right?

12 MR. BARIS: The yellow states are the states  
13 that actually were reported and polled as part of  
14 Dr. Kevin Bradley's survey that have been affected by  
15 the issue that we're talking about today.

16 MR. GRAGG: Okay.

17 MR. BARIS: The 25 states are highlighted; 34  
18 states actually have registrations that this product is  
19 actually registered on.

20 MR. GRAGG: Understood, thank you.

21 MR. BARIS: Some maybe just didn't report, this  
22 is the information that we have available to us.

23 MR. GRAGG: So again, on the metric of success,  
24 what -- is there a standard of what is an incident or an  
25 impact? Because if there is -- you have these various

1 numbers, is everybody using the same metric to determine  
2 that there's an impact? You know, how is the data --  
3 how can you rely on the data if it's not uniform?

4 MR. BARIS: I think that -- thank you for the  
5 comment. I mean, we're still gathering information,  
6 like Andy was mentioning earlier about what the actual  
7 impact on yields are. I think harvests are still  
8 wrapping up, and so we're still gathering that type of  
9 information.

10 So I mean, that's really what -- the yield  
11 weights are really what's going to tell us the true  
12 story about the measurable impact of dicamba damage,  
13 whether it's cosmetic, whether it's growth and  
14 reproduction, yield rates will tell the story.

15 MR. GRAGG: Okay. Thank you.

16 MR. BARIS: And we are trying to collect -- and  
17 you reminded me that we are trying to collect  
18 information on non-soybean impacts, so that's an  
19 important point.

20 MR. GRAGG: Thank you.

21 MR. KEIGWIN: Okay, round three? Andrew, are  
22 you back up? Oh, I didn't see Amy. He's gone a couple  
23 times. Go ahead, Amy.

24 MS. ASMUS: What are you doing when you're  
25 looking at the effects of the drift that's different?

1 When we talk about education of applicators, I think  
2 that's very important, but I've got applicators in our  
3 area that have been applying dicamba for many, many,  
4 many years, and we have never seen this high of  
5 incidents of off-target movement. So is there any  
6 study? Are you looking at the differences between  
7 dicamba use in the past and dicamba use on crops like  
8 cotton and soybean where, you know, what's the  
9 difference in an application? Because if you tell my  
10 applicators they have to be trained in dicamba  
11 application, they've been doing that for many years  
12 successfully. What is going to be different in this  
13 training to actually address the off-target movement on  
14 these crops that's different than the crops that we've  
15 been using it for many years?

16 MR. BARIS: I mean, you are correct, dicamba has  
17 been around for a number of years, and it has a number  
18 of different uses. The difference is these uses  
19 over-the-top on tolerant soybean and cotton.

20 And so the training will be involved in  
21 following explicit label directions to prevent  
22 noncompliance and follow the directions that are  
23 intended to prevent off-field movement, and the  
24 consequences that an applicator could face if they  
25 aren't compliant with the label directions.



1 MS. ASMUS: Can I follow up real quick? So we  
2 did extensive training with our applicators before it  
3 was applied, and we believe that for the most part, it  
4 was very consciously applied, made every effort to apply  
5 it according to the label direction, and we still had  
6 many off-target movements. So to believe that the  
7 applicators are in error for all of this I think is  
8 maybe a misunderstanding, and we need to address why it  
9 worked and why it didn't work when all applicators  
10 followed the label -- not all, the majority of the  
11 applicators that I work with, I will quantify that,  
12 followed the directions and were as methodical as they  
13 could be in the applications, and we still had  
14 off-target issues.

15 MR. BARIS: We're not insinuating that by any  
16 means that growers did not follow the label. That's not  
17 the case. One of the efforts that we tried to undertake  
18 in this process has been to tighten the label, make it  
19 clearer, integrate the supplemental labels into the main  
20 label so that the label is easier to follow in and of  
21 itself could provide a Cliff's Note version for itself,  
22 because the label then is more integrated and is less  
23 contradictory.

24 And these products are more similar than they  
25 were in the past, so that training efforts can be done

1 to teach to the technology as opposed to individual  
2 products, and I think that's really an important point  
3 that -- as pesticide educators are -- application  
4 educators are up in front of a classroom or on farm  
5 teaching about the technologies. It's the risks, the  
6 benefits, and how to follow the label and specific  
7 elements of the label to ensure that these products are  
8 used appropriately.

9 MR. KEIGWIN: Okay, I want to do a time check so  
10 we don't go over. So Lori Ann, are you back in?

11 MS. BURD: No.

12 MR. KEIGWIN: Okay, so let's just do the last  
13 four that are up. So Andrew, Richard, Amy, and Sharon.

14 MR. THOSTENSON: Well, in an effort to, you  
15 know, get a better grasp on the number of acres and the  
16 types of damage that our growers were impacted with, we  
17 implemented a survey, self-reporting web survey tool  
18 that applicators and farmers could go into and report  
19 the sorts of problems that they had. Minnesota did the  
20 same thing, South Dakota did the same thing.

21 I'm fairly confident that we will probably set  
22 that up again for 2018 so that we can, you know, quickly  
23 in real time assess what's happening out there. You  
24 know, I'd be willing to share that survey tool with you  
25 all and the results of the survey that we had this last

1 year, and it was interesting in that we only had 40  
2 formal complaints, but we had over 207 registered issues  
3 out there.

4 And interestingly enough, the farmers indicated  
5 to us that 50 percent of their fields showed typical  
6 physical drift with a gradation of damage across the  
7 field. And so we were like, okay, that's good. But the  
8 other 50 percent said it was field-wide, with no  
9 discernible pattern.

10 And the numbers that we reported in that survey  
11 that Dr. Bradley put together incorporated the numbers  
12 we received directly from the farmers. So at least for  
13 purposes of North Dakota, I think those numbers are  
14 pretty reasonable, but certainly as we go into 2018,  
15 anything that we could do in real time to monitor what's  
16 happening so that if an intervention is necessary,  
17 perhaps we would have some ability to do that.

18 MR. KEIGWIN: Richard?

19 MR. GRAGG: She said that she had well-trained  
20 people and this drift was still happening, and we said  
21 earlier that well-trained people were great applicators  
22 and less error. So my question is -- I've got a couple  
23 of questions. Is this pesticide used differently for  
24 different crops, and is it applied differently for  
25 different crops?

1           MR. BARIS: Yes, there's -- there are -- whether  
2 it's a tolerant crop or nontolerant crop, there are  
3 specific restrictions in place for the over-the-top uses  
4 on tolerant soybean and cotton compared to a  
5 non-tolerant cotton or soybean that is, for example,  
6 pre-emerging application, or asparagus, or there's  
7 specific wind speed restrictions, boom height  
8 restrictions, things -- other restrictions for --

9           MR. GRAGG: So then if it's used -- so the  
10 labels will tell you for this crop, this is how you do  
11 it and for this crop this is how you do it?

12           MR. BARIS: And one of the major changes into  
13 this season will be or has been the growers will see on  
14 the label that those restrictions apply across the board  
15 for all uses on the label. They've been -- the  
16 supplemental labels have been integrated into the  
17 master -- the main label. So there are no supplemental  
18 labels in 2018.

19           MR. GRAGG: Okay, so in terms of monitoring for  
20 what we don't want, there's not the ability to put out  
21 any type of physical or biosensor to detect the movement  
22 of the chemical off the field or where on the field you  
23 don't want it to be in terms of realtime monitoring to  
24 try to understand why and on what basis the stuff is  
25 drifting?

1           MR. BARIS: So a marker or a tracer or a  
2 bioelement would require a formulation change, and that  
3 wasn't exactly something that we could address this  
4 year. What we did do, with the registrants'  
5 cooperation, was to involve a restricted use  
6 classification for all three pesticides so that the use  
7 of the products could accurately be tracked and records  
8 are required to be kept by the applicator so that state  
9 lead agencies have the tools that they need to  
10 investigate potential incident investigations.

11           In 2017 that was actually one of the pieces of  
12 information in cooperation with our regulatory partners  
13 that they reported back to us we don't have the tools  
14 necessary to enforce or distinguish between labeled use  
15 and nonlabel use.

16           And so one of the cases, as I mentioned, for  
17 root causes of off-target movement was misuse, that  
18 could be using generic products, as Mr. Whittington  
19 highlighted, that, you know, they're pursuing applying a  
20 restricted use for all dicamba products in Mississippi.  
21 But for restricted use of these three products, that at  
22 least give the states the tools that they need to  
23 distinguish between an approved use and a nonlabeled  
24 use. Or misuse.

25           MR. GRAGG: And why would the formula have to be

1 changed in order for it to be detected with a bio or  
2 some type of physical sensor? Why would that require a  
3 change in the formulation of the product?

4 MR. BARIS: It's a different ingredient in the  
5 formulation, so we have to evaluate -- we evaluate all  
6 formulations for all pesticides as part of the  
7 registration process. And that would be a change in the  
8 formulation by adding an ingredient.

9 MR. GRAGG: Why would you need to add an  
10 ingredient in order to detect it?

11 MR. BARIS: I'm not sure I understand the  
12 question.

13 MR. KEIGWIN: So I think there might be ways,  
14 Richard, to get at your point. One suggestion that had  
15 come forward was that some type of an indicator dye be  
16 added to the formulation, so I think that's what Reuben  
17 was referring to. If what you're talking about is  
18 putting some type of a sensor in adjacent areas so  
19 that -- you know, at the time that wasn't something that  
20 we had really looked at in --

21 MR. GRAGG: But you could do it other than by  
22 adding a dye or something to the formula.

23 MR. KEIGWIN: And I think that's the point that  
24 you were trying to make, right?

25 MR. GRAGG: Yeah, um-hmm.

1           MR. KEIGWIN: Is that you could put some type of  
2 receptor off-target and see if you got something. You  
3 know, there are issues with analytical sensitivity, what  
4 would be the best type of receptor being used to do  
5 that, is there laboratory capacity available in the  
6 states and at EPA to do it. I think these are very good  
7 suggestions that as we think about and as we see what  
8 happens in '18, do we put some additional things in  
9 place if we renew the registration after the 2018 use  
10 season. Thank you for that.

11           Amy, and then Sharon.

12           MS. LIEBMAN: I think you've addressed some of  
13 what I was asking, because Amy's question was two-part  
14 and her point was that in some cases you have a very  
15 well-trained, you know, properly used, properly applied  
16 pesticide, and what is being done to sort of figure that  
17 out. And then it sounds like Richard offered some  
18 suggestions, you threw back some suggestions, but I  
19 guess could you just clarify what is your plan in terms  
20 of trying to figure out this component of the  
21 well-trained, well-educated applicator, and there's  
22 still this drift happening and crop damage.

23           MR. BARIS: So this effort has really tightened  
24 up the label in all aspects that we could possibly  
25 tackle in this short amount of time that we had

1 available to us. Our goal was really to present a  
2 decision in a timely manner so that growers had the  
3 most -- the best available information so that they  
4 could make informed choices for 2018.

5 So the label has been tightened up as much as we  
6 possibly could for the 2018 season. And I think we're  
7 hearing a lot of really good suggestions this afternoon  
8 about how to measure and I think we all need to continue  
9 to think about those aspects and as we -- the  
10 conversation continues to evolve and throughout the off  
11 season or winter seasons, winter months, and into 2018.

12 MR. KEIGWIN: The other thing, Amy, you know,  
13 would be to say that we know that there's a lot of  
14 really interesting work going on within the Weed Science  
15 Society, and a lot of weed scientists across, you know,  
16 these states are looking -- are doing some additional  
17 work to see what other factors might be involved, what  
18 other things might be affecting movement, what other  
19 adjacent crops might be more sensitive than had been  
20 previously known to be.

21 So I think through the work that the land grant  
22 universities are doing in tandem with the Weed Science  
23 Society, I think we're going to have a lot more  
24 information in 2018 that will help to inform the  
25 decision that we would have to make if we were to renew



1 the registration for the 2019 use season.

2 Sharon?

3 MS. SELVAGGIO: I might be missing something  
4 here, but I'm just kind of confused about the  
5 volatilization issue. I'm not clear on which of the  
6 label changes are meant to address the volatilization  
7 issue. And so I'm just wondering, are you confident  
8 that your label changes have adequately addressed  
9 volatilization as opposed to spray drift?

10 MR. BARIS: The time-of-day restriction was one,  
11 the sunrise to sunset was one type of restriction that  
12 would -- was aiming at focusing applications when times  
13 of day when temperature inversions are least likely to  
14 occur. There are -- states may have the requirement to  
15 further restrict that, depending on their specific  
16 variability -- the specific variability or their  
17 specific conditions in the state or region.

18 We tightened up the label in almost every other  
19 way possible, and 2018 will be a marker for how this  
20 technology is working. And I think, as I was just  
21 reminded, one additional point is that we added some --  
22 with the registrants -- added some additional labeling  
23 on all three products about how to identify temperature  
24 inversions, how best to identify temperature inversions,  
25 and bringing some awareness to growers and applicators

1 about the risk of applying during a temperature  
2 inversion, because a temperature inversion still may  
3 occur between sunrise and sunset and how do you identify  
4 that to prevent suspension of spray material in the air  
5 during those climactic conditions.

6 MR. KEIGWIN: I feel like I have to let you go  
7 since I skipped you before, Damon, so go ahead. No, go  
8 ahead.

9 MR. REABE: Thanks a lot. I'll make it really  
10 brief. Something just occurred to me as we're having  
11 this discussion, if there's some way to identify how  
12 many of these incidents were associated with the  
13 applicator being misinformed as to whether or not the  
14 downwind soybeans were, in fact -- had the GMO  
15 technology, I believe that when RoundUp first came out,  
16 this was a very big problem, growers weren't used to  
17 communicating with their neighbors, so that when they  
18 hired a commercial applicator to do an application, that  
19 applicator didn't -- wasn't aware that it wasn't  
20 RoundUp-ready corn downwind.

21 And so I think that would be a pretty critical  
22 piece to all of this is almost like a pollinator  
23 protection plan, if we're not communicating that, this  
24 type of thing is going to continue to happen.

25 MR. BARIS: I'm sorry, I had to turn my mic' on.

1 There's two important elements to that and I think it  
2 gets right at the point that you're trying to make is  
3 that the buffer descriptions and how the applicator must  
4 actually follow those buffer restrictions and  
5 identification of sensitive or susceptible crops has  
6 been added to the label. And then further to that  
7 point, there's two elements on the recordkeeping  
8 requirement side that the grower applicator must survey  
9 the neighboring sites around the application site and  
10 document that they've checked, say, the sensitive crop  
11 registry for their state and their situation.

12 So those were intended to increase the awareness  
13 element that you're highlighting, and improve the  
14 communication between neighbors.

15 MR. REABE: And just going off of, you know,  
16 previous experiences with RoundUp, there would be fields  
17 that would be originally when that work was done, the  
18 idea was to plant RoundUp ready, things changed, and in  
19 between time, a different product -- a different product  
20 got planted. So more outreach like that I think is  
21 good.

22 MR. KEIGWIN: Last comment.

23 MR. THOSTENSONL: My question goes back to the  
24 volatility issue. We know that in our Arkansas and  
25 Tennessee and Missouri and Purdue is all doing work in

1 this area evaluating the volatility aspect of these new  
2 formulations. What are you looking at from those  
3 programs to be able to make assessments moving forward?  
4 Are we looking at needing published data in the Weed  
5 Science Society of America? What sort of criteria do  
6 you need to be able to make decisions about whether or  
7 not these products are sufficiently non -- or low  
8 volatility moving forward?

9 MR. BARIS: The intent is to use the best  
10 available information, and that's the standard we use to  
11 evaluate the registrations that are in front of us, the  
12 registration applications that are in front of us. We  
13 are continuing to cooperate with our partners and  
14 university weed scientists like yourself, and others, to  
15 ensure that we have the best available information. And  
16 they are invited to share with us any information that  
17 they have that would inform our decisions. I would be  
18 happy to discuss that further.

19 MR. KEIGWIN: Okay. That was a very good  
20 discussion and lots of good feedback, thank you. As  
21 Reuben was mentioning, he and his staff probably spent  
22 the majority of the summer working on this, and it was a  
23 very extensive collaboration with the states in a very  
24 productive way, not only with the state agencies, but  
25 with the land grant universities and the registrants as

1 well. And I think our ability to move as quickly in  
2 making label changes I think in part was due to the  
3 partnership with the states and the land grants, so we  
4 do appreciate that.

5 So thank you, Reuben and Dan.

6 Let's move on to the next topic, which is  
7 synergy, and I think Marietta is going to come back up,  
8 along with Kimberly Nesci.

9 MS. ECHEVERRIA: Good afternoon. I'm Marietta  
10 Echeverria, again, I'm the Director of the Environmental  
11 Fate and Effects Division. So for this session, we  
12 wanted to provide an update on our evaluation process  
13 around claims of synergy, so by just way of very brief  
14 background, in 2015, we became aware that pesticide  
15 manufacturers were applying for and being granted patent  
16 claims that products in combination were having  
17 synergistic effects or enhancing efficacy in the field.  
18 So this caused us to call into question our approach of  
19 evaluating single active ingredients as part of our  
20 ecological risk assessment process.

21 So back in May, we gave a brief update on where  
22 we were in that learning process, and today we have a  
23 more detailed presentation to describe what we're  
24 thinking and we will welcome dialogue at the end.

25 So with that, I'm going to introduce Kimberly

1 Nesci, the Deputy Director of the Environmental Fate and  
2 Effects Division, to give the presentation.

3 MS. NESCI: Thank you. So in the time I have  
4 today, what I'm planning to cover is a little bit of  
5 background, a little bit more than what Marietta just  
6 gave on why we're doing what we're doing, why we're  
7 choosing at this time to focus on patent data  
8 specifically, the proposed process that we're following  
9 itself, and our next steps. And, of course, we have 30  
10 minutes I think at the end for questions.

11 So background. Before we get into the details,  
12 I think it's important to ensure that we have a common  
13 understanding of the terminology. Synergy, from what I  
14 understand, can have multiple definitions and can mean  
15 different things to different people, or different  
16 groups. So despite the title of this session, we are  
17 moving away from the word "synergy," and instead  
18 defining the issue that we're proposing to -- the issue  
19 that we're proposing to address as greater than additive  
20 effects, or GTA effects, or an observed combined effect  
21 greater than the sum of the effects of individual  
22 chemicals.

23 So historically, EPA has based our ecological  
24 risk assessments on the toxicological evaluation of  
25 single active ingredients, and we have understood that

1 toxicological actions between active ingredients that  
2 produce significantly greater toxicity than expected is  
3 a rare occurrence. The available monitoring data that  
4 we have indicates that in a predominant number of cases  
5 across the country. The potential toxic risk of  
6 contaminants is dominated by one to a few chemicals.  
7 And the thresholds that we use to make our risk-based  
8 decisions are extremely low probability events, or no  
9 probability events, and this suggests that the combined  
10 effect of exposure to two pesticides both at no effect  
11 levels or at very low probability effect levels can  
12 reasonably be considered to be extremely low.

13 In addition, the National Research Council in  
14 its 2013 review of OPP's methods for endangered species  
15 effects determinations supported the general opinion  
16 that synergistic interactions between pesticides are  
17 rare, and the council suggested that the agency consider  
18 pesticide active ingredient interactions when the best  
19 available scientific data evidence supports the  
20 quantitative evaluation.

21 So as Marietta mentioned, in 2015, we've  
22 discovered a number of cases where pesticide producers  
23 have been granted patents for claims that selected  
24 mixtures of pesticides produce toxicological effects in  
25 excess of expected additive effects, that is claims of

1 synergistic interactions, or GTA interactions, for  
2 effects in specific to pest species, this is enhanced  
3 herbicidal, fungicidal or insecticidal effects.

4           Because of this discovery, we have developed a  
5 process to, one, obtain and analyze the patent effects  
6 of these GTAs -- the claim of GTA effects of these  
7 mixtures and determine whether or not these claims and  
8 data need to be accounted for in our risk assessments,  
9 which I'll be describing in more detail over the next  
10 few slides. And it's important to note that the process  
11 that we've come up with follows the suggestion by the  
12 National Research Council that pesticide interactions be  
13 considered to be extensively supported by scientific  
14 evidence.

15           So why have we decided to focus on patent data  
16 specifically? Again, there are a large number of these  
17 patents making GTA claims for pesticide mixtures; the  
18 patent data are readily available to the public; the  
19 PTO, U.S. Patent & Trademark Office's process is well  
20 understood; and the data typically contain information  
21 on the mixtures being considered, the conditions of  
22 testing, the effects observed and the organisms being  
23 evaluated, all of which was needed to determine whether  
24 the data warrant changes to our risk assessments. And  
25 these data likely represent the most compelling evidence



1 to support these GTA claims, otherwise they wouldn't be  
2 submitted to the Patent & Trademark Office in the first  
3 place to support the patent applications.

4           However, there are differences between the  
5 standard to receive a patent and standard for use of  
6 data to quantitatively evaluate risk. While the U.S.  
7 PTO focuses on a determination if a claim is unexpected  
8 given existing background information, publications in  
9 prior patents, and the Patent & Trademark Office  
10 personnel are to give claims their broadest reasonable  
11 consideration and interpretation in light of the  
12 supporting information. To use this GTA evidence  
13 quantitatively to evaluate risk, it must be subject to  
14 the standards for the use of other -- of our standards  
15 for the use of other toxicological data, that is they  
16 must be relevant, supported by empirical data, and that  
17 empirical data must meet the agency's standard for data  
18 quality.

19           So, does the granting of a patent automatically  
20 mean the data are appropriate for ecological risk  
21 assessment? I think as I just described, no, the patent  
22 review is not equivalent to EPA's data quality criteria.  
23 Does that mean patents are never pertinent to ecological  
24 risk assessment? And the answer to that is also no.  
25 Our experience to date has shown that some patents do

1 have sufficient information to inform our risk  
2 assessments.

3           So with that, I'll get to the process itself.  
4 The goals of our proposed process are to document these  
5 GTA patent claims and that we've taken these claims into  
6 consideration in our decisions and in our assessments;  
7 second, to establish a data search and reporting  
8 approach so efforts are consistent in scope and that  
9 there's a level playing field to establish criteria to  
10 narrow these GTA patents to those relevant to agency  
11 ecological risk assessments; and to provide a data  
12 analysis framework for evaluating the statistical  
13 significance of any GTA findings.

14           Ultimately what we're looking to do is to  
15 determine whether these patent claims indicate a need to  
16 quantitatively or qualitatively change our assessments  
17 or decisions. So we're proposing a five-step process.  
18 The first is the -- the first step is the identification  
19 of granted U.S. patents that make claims of GTA effects;  
20 the second is a review of patent relevance to ecological  
21 risk assessment, and we've established relevancy  
22 criteria that are in the slides here above that I'll go  
23 through that will be considered as part of this step.

24           The first criteria is the patent must contain  
25 actual data, must contain comparisons of empirical

1 effects. The second, the patents -- the effects --  
2 sorry, the effects are relevant to direct effects on  
3 tested taxa. So, for example, a direct measure of death  
4 or growth would be applicable to us would be relevant,  
5 but a reduction in yield loss or reduction in plant  
6 damage as a result of pest control -- a better control  
7 of pest populations would not.

8           The tested taxa must be relevant -- the taxa  
9 themselves must be relevant to ecological risk  
10 assessment; for example, fungi -- for fungicides, of  
11 course, we may be seeing synergistic or GTA claims  
12 because of enhanced efficacy, but we don't assess  
13 effects to fungi, so we -- that would not be -- those  
14 types of claims would not be relevant to us. Instead,  
15 claims of enhanced insecticidal activity or herbicidal  
16 activity would be relevant.

17           The test must be on the chemical considered for  
18 regulation, so the actual chemical that we're looking  
19 at. And the mixture components tested must be  
20 registered in the United States. So some patents  
21 consider active ingredients registered in other  
22 countries. These aren't relevant to us until such time  
23 as they're submitted to us for registration.

24           So, steps 3 and 4 are really obtaining and  
25 analyzing the data supporting these relevant patents to

1 determine -- to see if the effects are statistically  
2 significant, and then step 5 is to evaluate that  
3 analysis to determine whether the statistically  
4 significant observations impact the conclusions of  
5 ecological risk assessments, whether the observations  
6 can be used to inform quantitative adjustments to the  
7 ecological risk assessment or risk mitigation, and  
8 whether additional mixture toxicity data may be needed  
9 as part of our evaluation process.

10 So this slide doesn't show up all that well, but  
11 it is in your packets, and it really just shows a  
12 schematic of all the steps I've just described with a  
13 little bit more detail. And I'm not going to go through  
14 this in a lot of detail here, but we wanted to provide  
15 it to you. And it's a useful tool, I think, for more  
16 visual learners to see to walk through the process.

17 So what do we do with what we learn? It's  
18 important to note that we do not -- we are not  
19 evaluating the U.S. Patent & Trademark Office's  
20 decision, we are evaluating the data to determine if  
21 qualitative or quantitative changes are needed to the  
22 ecological risk assessment or if additional studies are  
23 needed. If those data -- if additional data are needed,  
24 we will obtain that and evaluate it accordingly.

25 In some of the actual cases we have looked at so

1 far, this additional data has come in the form of  
2 guideline studies on formulated products. For data  
3 where EPA feels the observations are appropriate  
4 technical rigor to support quantitative application,  
5 we're going to consider a number of different things.  
6 The magnitude of the GTA effects, so whether the  
7 quantification of the excess toxicity is large enough to  
8 alter our risk conclusions. We will consider any  
9 transient observation across treatment levels. We will  
10 be considering other lines of evidence associated with  
11 the mechanism of action that could inform the  
12 interaction assumptions.

13 We'll consider background information on the  
14 frequency of observations of effects, interactions and  
15 data sets extending beyond the patent reporting data.  
16 So companies may have sets of data beyond what is  
17 specifically submitted to the Patent & Trademark Office.

18 We will evaluate existing ecological risk  
19 assessment findings, and we will look at the tested  
20 concentration level and compare that to our expected  
21 field exposures, so can the information that we have  
22 reliably be extrapolated to field-level exposures.

23 So, and again, it's important to note for the  
24 cases while -- that we've evaluated so far, while some  
25 have warranted the need for a closer look, or additional

1 guideline studies, none have ultimately resulted in  
2 changes to our risk conclusions.

3 So our next steps. At this time, we're planning  
4 to continue to follow this process and collect  
5 information on the cases that come before us. We are  
6 considering whether to publicly release a memorandum  
7 describing this process for formal public comment. And  
8 ultimately, we intend to develop a final position on GTA  
9 effects of pesticides that would consider public input  
10 either through a formal public comment process or  
11 through any other public comment process. And, of  
12 course, your input here as well, and what we've learned,  
13 what we're continuing to learn on the cases that we've  
14 evaluated so far.

15 So with that, I would really like to acknowledge  
16 the EFED synergy team. They've looked at all the cases  
17 we have done so far and they have certainly spent a lot  
18 of time using those cases to develop this process. And  
19 Ed Odenkirchen, who I think is here today in the back,  
20 Rochelle Bohaty, Frank Farruggia, Christine Hartless,  
21 and their managers, because they've spent a lot of time  
22 to help develop this and to look at the information  
23 we're getting. And with that, we'll take questions.

24 MR. KEIGWIN: So I want to keep us on time, so  
25 we'll do about maybe ten minutes of questions to get to

1 the break. So any quick reactions? Noting that we're  
2 likely going to take public comment on this and, you  
3 know, sharing a fuller memorandum, so what Kimberly has  
4 provided is a very high-level overview of our process to  
5 date. So, I see Pat, Jay and Preston.

6 MS. BISHOP: Hi, Kimberly. I'm a little  
7 confused in that I'm assuming these mixtures have  
8 already been registered and gone through toxicological  
9 evaluation for human health? Or -- I mean, so there's a  
10 patent that says there's a synergistic effect, and  
11 that's a claim that's separate from the product already  
12 going to EPA and being evaluated, is it not? So then  
13 how does it -- I mean, have you looked at these already  
14 as far as ecological risk and now you're looking at them  
15 again because there's this claim that's been made? I'm  
16 not quite understanding that.

17 MS. NESCI: So what we're looking at  
18 specifically is the data supporting the patent claim.  
19 So the data supporting the patent claim may be for a  
20 combination that's in a combination product or it may be  
21 for something that's not in a combination product that  
22 would be -- that could potentially be applied as a tank  
23 mixture.

24 So what we're looking at is unique, is not  
25 something that we've seen before, because we typically

1 don't -- don't -- we haven't historically gotten these  
2 data as part of our registration packages.

3 MS. BISHOP: So then it's just the data that are  
4 new, not necessarily that the product is something you  
5 haven't -- it hasn't come across your desk yet as a  
6 formulation of some sort?

7 MS. ECHEVERRIA: That's correct. So we would  
8 have evaluated the formulation and the registration  
9 process, but the patent claims are for unique  
10 combinations like in-tank mixes.

11 MS. BISHOP: Okay.

12 MS. ECHEVERRIA: So we don't evaluate a tank  
13 mix, which is a way that growers combat resistance  
14 management and also make efficient applications of  
15 pesticides. So that is where we're seeing a lot of the  
16 claims.

17 MS. BISHOP: So you said that additional studies  
18 might be needed, would that entail any kind of new  
19 animal studies do you think, or more like efficacy type  
20 testing?

21 MS. ECHEVERRIA: So in the cases we've evaluated  
22 so far, where we have gone to guideline testing, it has  
23 been for plants, so guideline plant testing of base in a  
24 formulated product which informed the decision.

25 MS. BISHOP: Okay, great, thanks.



1 MR. KEIGWIN: Jay and then Preston.

2 MR. VROOM: So I wanted to compliment all the  
3 staff and in particular you called out Ed for leading in  
4 this area, I remember like it was yesterday, it was the  
5 day before Thanksgiving two years ago that I learned of  
6 this, and what you've assimilated and the interaction  
7 you've had with our industry to result in this much  
8 progress is nothing short of amazing.

9 I think it's important to also note that quite a  
10 number of these synergy patents have been filed  
11 prospectively and granted but maybe not used in the  
12 marketplace. And some of them are marketing defensive  
13 strategies that have no implication with regard to the  
14 use of pesticide combinations. In fact, they may  
15 prevent pesticide combinations.

16 And then lastly, some of them actually do result  
17 in reduction of total pesticide uses because of the  
18 synergistic effects that may be already noted in the  
19 marketplace. So there are a lot of permutations of this  
20 that have nothing to do with increased risk, and some of  
21 them actually result in reduced risk.

22 MR. KEIGWIN: Preston?

23 MR. PECK: Thank you. I have -- well I just  
24 wanted to say thank you for the flow chart, that was the  
25 slide that was very helpful as far as trying to lay that

1 out and processing a lot of it, and I don't really have  
2 any comments on it, but it is much -- I'm a visual  
3 person, so it's very helpful.

4 But I wanted to ask one quick question about --  
5 it was on slide -- I want to say maybe 4 or 5, depending  
6 on if you count the title one. It said there are a  
7 large number of U.S. patents making GTA effect claims.  
8 Do you have an idea of what large -- just kind of a  
9 definition of large? Like what -- about how many? I'm  
10 just curious.

11 MS. ECHEVERRIA: Well, we have received a  
12 petition from the Center for Biological Diversity, and I  
13 believe that the number claimed in that petition was 186  
14 or so. Does that sound -- okay. So the number that was  
15 reported in the petition I believe was 186 claims, but  
16 maybe that's not extensive, but it's not the complete  
17 universe, perhaps, but that's the information that we  
18 have.

19 MR. PECK: Okay, and then did I hear you right,  
20 and I may have misheard, but something like the ones  
21 that may claim GTA but only a small amount actually do?  
22 Is that what you said? Or did I mishear that?

23 MS. NESCI: So I think of the ones that claim  
24 GTA, I think that there are a small amount that we've  
25 discovered to be relevant to ecological -- to our

1 ecological risk assessment.

2 MR. PECK: Okay. Thank you.

3 MR. KEIGWIN: Sharon?

4 MS. SELVAGGIO: I have a couple of comments and  
5 questions. One of them is, with your characterization  
6 of GTA effects being rare, after our last meeting in  
7 May, I think that was in the last summary that we --  
8 when we went over this, and I went and I looked for  
9 that, and I did not find that anywhere in that document.  
10 So I'm really curious about maybe it happened, you know,  
11 in a meeting, I'm not sure, but I just don't see that  
12 kind of conclusion in that document. I know the  
13 organophosphates have definitely been found in the  
14 literature to be synergistic greater than additive, and  
15 so anyway, I'm just really curious about that, that use  
16 of the term "rare."

17 My second question is about the process, and I  
18 guess I'm thinking about this like Venn diagram, but --  
19 so what happens if somebody has submitted, say, a  
20 formulation that combines two herbicides, and in their  
21 patent application, they have tested that on plants,  
22 certain plants, but there's no data for insects and  
23 fish, say. If you find that for plants, in fact, the  
24 data looks legitimate, it meets all your data quality  
25 criteria and all of that kind of stuff, would you then

1 go out to the registrants and say, we want more data  
2 because it looks like there is a potential synergy on  
3 some taxa, therefore we want to see if this is also  
4 synergistic to potential non-target insects and fish and  
5 mammals?

6 And what about if you don't find evidence of  
7 synergy, but, in fact, it may happen in the field for  
8 these things that no data was presented to the Patent  
9 Office? I don't know if that makes sense, but it's sort  
10 of like outside the Venn diagram circles in my mind.  
11 Okay.

12 MS. NESCI: So on your first one, I do have the  
13 citation, so I can get that to you and we can send you a  
14 highlighted link that shows where our conclusions are  
15 coming from, so we'll take care of that.

16 On the second one, we are not intending to  
17 extend beyond the species for the -- that -- the species  
18 on which the data are based that we get in front of us  
19 for the GTA claims.

20 MS. ECHEVERRIA: Yeah, I would just add, we  
21 would not make the assumption that any interaction was  
22 conserved across taxa, that would not be an appropriate  
23 scientific assumption. And so we were really focusing  
24 on where we do have evidence that -- and what that  
25 evidence tells us and how that impacts the risk

1 assessment.

2 So to assume that greater interaction for plants  
3 would also come up with insects is not supported,  
4 understanding the mode of action and how these  
5 interactions work from the biology and the toxicology.

6 MS. SELVAGGIO: So you wouldn't ask for  
7 additional data, then, in order to fill in the gaps?

8 MS. ECHEVERRIA: Unless we had compelling  
9 evidence to make us concerned. So we do evaluate the  
10 open literature as part of our routine process, so if  
11 there's any information in the open literature or if  
12 there's anything that we know about the potential  
13 mechanism of interaction that's occurring that would  
14 lead us to have a concern, then we would have broad  
15 authority to request an additional study, but not as a  
16 routine matter.

17 So unless we have that evidence or we have the  
18 other scientific rationale to make that determination,  
19 we would not be doing it across the board.

20 MR. KEIGWIN: Okay. And Damon will be our last  
21 comment.

22 MR. REABE: Thanks. Question, is there going to  
23 be any modifications to the risk assessment process to  
24 account for the multiple passes that would be required  
25 if the product as a combined mixture doesn't meet risk

1 assessment, what the risk would be then from making,  
2 say, two or three applications to control the same pests  
3 when you separate out those products? Is the risk  
4 assessment methodology, is that going to get factored in  
5 then?

6 MS. NESCI: So, no, we aren't intending at this  
7 point to make any changes to our risk assessment  
8 methodology. We're instead adding the process that I've  
9 described to date on top of that to look at the patent  
10 data to see if there's any need to get additional data  
11 or to change our risk assessment conclusions.

12 MR. REABE: Would the EPA consider changing it  
13 because it might create additional risk by having to  
14 make these separate applications? Right? I mean, we  
15 can imagine how now that we have --

16 MS. NESCI: So I think I understand what you're  
17 getting at. So in terms of tank mixes, there are some  
18 benefits to tank mixes and related to the ecological  
19 impact of passes across the field and, of course,  
20 resistance development and those sorts of things.

21 So we are not -- I don't think there's any plan  
22 to quantitatively consider that, but certainly as part  
23 of the FIFRA evaluation process, we do consider risks  
24 and benefits, so --

25 MR. REABE: That might be -- because there may

1 be some unintended consequences that may come from this.

2 Thank you.

3 MS. NESCI: Yeah. Thank you.

4 MR. KEIGWIN: Okay. Thank you for that. So we  
5 are now back on time. So let's reconvene at 3:15 and  
6 we'll -- I guess we'll pick up with glyphosate. So,  
7 thanks.

8 (Whereupon, there was a recess in the  
9 proceedings.)

10 MR. KEIGWIN: Okay, so we're going to pick up  
11 where we left off from this morning, and so I believe we  
12 were -- so Yu-Ting is back, and she has reinforcements.  
13 So I guess we'll first address glyphosate. Thank you.  
14 So, there's a one-page update in your folders regarding  
15 where we are the glyphosate re-evaluation.

16 Oh, sorry, but before we get to glyphosate, so  
17 we just got a notice from our building management that  
18 there are some cars illegally parked in the spaces  
19 reserved for hybrid cars that need charging. So if you  
20 inadvertently parked your car in a charging station  
21 spot, your car is about to be towed.

22 All right, Yu-Ting is pulling it up. They  
23 usually provide us license plate numbers. You know, if  
24 you drag it out. All right, so the first one looks like  
25 a black Honda with a Maryland tag 9DJJ22. No, but it's

1 parked -- it's actually not only that, it's actually  
2 parked in an illegal spot. So how do I advance it? Oh,  
3 right here?

4 Yeah, but it's parked illegally, too. Virginia  
5 tags -- it's not plugged in -- BMW, ZTZ8207. Apparently  
6 that's an OPP car, never mind. Oh, and then there's  
7 another BMW, a black BMW with no front tag. So that's  
8 probably a Virginia car. All right, well, good luck. I  
9 can't stall you out anymore.

10 So any questions on the glyphosate update that  
11 we provided in the folders? Jay?

12 MR. VROOM: So I just wanted to observe that of  
13 the three categories of active ingredients that were  
14 listed under 5C, this one probably is the one that has  
15 the most global reach. The other two are more confined  
16 to U.S. regulatory focus, and we are supportive and  
17 complimentary of the agency's work in this space, both  
18 domestically and internationally, and I think that the  
19 work that you began in 2009 with regard to the  
20 re-evaluation of the product is moving forward and we  
21 look forward to the next risk assessment.

22 MR. KEIGWIN: Other questions/comments on  
23 glyphosate?

24 (No response.)

25 MR. KEIGWIN: So the next one we have is the



1 neonicotinoids and the status update there.

2 (No response.)

3 MR. KEIGWIN: No comment? Cynthia?

4 MS. PALMER: Is there something missing where it  
5 says -- the bullet right in the middle, "Potential  
6 on-field risk from some use patterns, includes foliar  
7 uses," it doesn't say if it's low or high, I assume  
8 that's a high. I'm using the website version. Is  
9 there -- the sentence is just dropped off.

10 MR. ANDERSON: I'm Neil Anderson from the  
11 Pesticide Re-evaluation Division. And no, there isn't  
12 missing words there. That's simply how we meant to  
13 present it.

14 MS. PALMER: Okay. And then for later on it  
15 mentions "draft benefits assessments." Is -- can we  
16 look forward to the benefit assessment for treated corn  
17 seeds? Is that part of it?

18 MR. ANDERSON: Those -- that will not be one of  
19 the assessments that's being -- benefits assessments  
20 that's being released for public review here in the very  
21 near future. It's possible that some benefits work on  
22 corn and perhaps the treated seed element for corn will  
23 be done at some time in the future, as we move closer to  
24 the planned activity in mid-2018, when we expect to  
25 release the proposed interim decision. So there will

1 probably be a fair amount of benefits documents at that  
2 time.

3 MR. KEIGWIN: Okay. If there's nothing else on  
4 the neonics? Thanks, Neil and Dana and Eugene.

5 The next one we have in your package is an  
6 update on where we are with acute animal testing  
7 alternatives. Dr. Anna Lowit is here if there are  
8 questions on that effort. And I thought I saw Garland  
9 [phonetic] around at one point, too.

10 Sorry, Pat.

11 MS. BISHOP: I have two things. I have a  
12 comment that this is some really great work that's going  
13 on that OPP as well as NICEATM exam, you know, I think  
14 you're making some really excellent progress here on  
15 this issue. And my only question, and I think I forgot  
16 to ask you yesterday, Anna, is the fact that the final  
17 dermal tox waiver came out. There was also a draft, I  
18 think, about a year or a year and a half ago. Have you  
19 received any requests for waivers on this yet?

20 DR. LOWIT: So, yes, that document did go  
21 final just November of last year, so it is final, and we  
22 have received a relatively small number. You have to  
23 remember, there's a lag time that's sort of built in  
24 here, and generally companies will have done the studies  
25 that they would submit to us one, two, three, even four

1 years in advance of them submitting to us.

2 So there's a time by which the policy will  
3 have been finalized, and companies will already have in  
4 existence their in vivo studies. So although the number  
5 that we're seeing is relatively small, over the next  
6 year to two years it should incrementally start to  
7 increase.

8 MR. KEIGWIN: Okay. Anyone else for that one?

9 (No response.)

10 MR. KEIGWIN: Okay, thanks. So the next one  
11 we have is resistance management. Wynne -- so Wynne  
12 Miller and Bill Chism and Nikal Mallampalli and maybe  
13 Skee Jones, too, are coming up. So we just finalized  
14 two pesticide registration notices after taking public  
15 comment. And the paper outlines our path forward for  
16 implementing those two notices. Comments? Questions?

17 Cynthia.

18 MS. PALMER: Thank you. I just had two  
19 questions. One, I may show my ignorance, it says no new  
20 herbicide mechanism of action has been developed in the  
21 last 30 years. I'm curious why not.

22 And, second, in the very last line of the  
23 memo, it says that herbicide products labeled for use by  
24 the general consumer, such as residential products, are  
25 not included in this development of herbicide resistance

1 measures for end-use products. So I'm wondering why are  
2 the consumer uses not part of that.

3 MR. CHISM: Thank you. I'm Bill Chism from  
4 the Biological and Economic Analysis Division. We  
5 presented the PRN before, we've gotten some really great  
6 feedback from some of the groups here, and I wanted to  
7 thank everybody.

8 The first question, why no new mode of action  
9 in the last 30 years, I'm totally not competent to  
10 answer that. Finding and discovering a new mode of  
11 action is kind of an art, kind of luck, kind of a whole  
12 bunch of mergers and different things, and if it doesn't  
13 happen, it just doesn't happen. So I think possibly the  
14 registrants could help you with that. I don't know.

15 But your second question is why didn't we  
16 include homeowner products. When we look at -- and  
17 there's a really nice website that looks at all the  
18 herbicide-resistant weeds worldwide -- when we look at  
19 use sites, homeowner sites don't come up very often, and  
20 we thought the things we were asking were pretty  
21 technical, would be very difficult, and we thought the  
22 risk of resistance was very low.

23 MR. KEIGWIN: Okay, Andrew.

24 MR. THOSTENSON: I notice most of the work  
25 that's been done more recently in the herbicide arena.

1 Unfortunately this year in North Dakota and Minnesota we  
2 are suffering some very significant reverses in both  
3 fungicide and insecticide resistance. One of them will  
4 result in a dramatic increase in the amount of  
5 chlorpyrifos we use to control soybean aphids in our  
6 state because our conventional pyrethroids have  
7 demonstrated significant failure to control these  
8 soybean aphids.

9 So I'm wondering what sorts of plans you all  
10 have to really start grappling with that on the same  
11 level that you have been with the herbicides.

12 MS. MALLAMPALLI: My name is Mikal  
13 Mallampalli. I work with Bill in the same division.  
14 And the labeling PRN right now, the labeling PR notice  
15 addresses the insecticides. Then it -- our intention is  
16 to develop internal policy documents to help make sure  
17 that staff include that guidance in registration review  
18 and new registration actions.

19 We aren't at this time proposing to ask for  
20 the additional detail, product stewardship of the type  
21 that the herbicide PRN talks about at this point, but  
22 going forward, we might explore incorporating that into  
23 the insecticides and fungicides.

24 Now, as far as giving you other tools to -- of  
25 new modes of action to combat resistance that's already

1 going on, I mean, that faces the same situation as  
2 herbicide modes of action as new discoveries go. We --  
3 the registrants do that, so I don't know if that helps  
4 answer it.

5 MR. KEIGWIN: Okay, Jay.

6 MR. VROOM: Yeah, so, I would guess that maybe  
7 with respect to the kind of insecticide resistance that  
8 you're describing in a market like yours for soybeans  
9 there are other modes of action, newer chemistries that  
10 haven't been labeled for soybeans because it's a fairly  
11 unusual event for most or a lot of the soybean crop that  
12 needed insecticide treatments at all.

13 And, so, as you discover those kinds of  
14 challenges, if you're in communication with the  
15 industry, particularly those that have other modes of  
16 action registered for other crops, I'm sure they'll be a  
17 receptive audience to talk about those kinds of  
18 opportunities.

19 With respect to the fact that there's been  
20 nothing discovered and brought to market in terms of a  
21 clearly new mode of action, it's because all the  
22 easy-to-discover things have been discovered, but that  
23 doesn't mean that companies aren't continuing to invest  
24 in discovery research, looking for that next new  
25 broad-acre application mode of action. There have been

1 a few that have been discovered and brought in the '90s,  
2 all the way up through potential registration, and  
3 denied because of risk effects that were determined to  
4 be unacceptable based on the standard in the law.

5 And, lastly, there have been analogs of  
6 original modes of action that do change the performance  
7 and environmental and effectiveness benefits. So I  
8 think you need to look a little closer at some of the  
9 rediscoveries and slight changes in molecules that have  
10 been accomplished for things like I know metolachor went  
11 through a process like that and actually qualified for a  
12 new patent on a new analog of an original molecule.

13 So I think there is continuous innovation. It  
14 may not look like the blockbusters of the past, but  
15 continuous improvement is certainly a commitment for the  
16 members of CropLife, and I'm sure that we look forward  
17 to working with a lot of other stakeholders in that  
18 regard.

19 MR. KEIGWIN: Any other comments on the  
20 resistance management work? Charlotte.

21 MS. SANSON: Yeah, so, I know a lot of  
22 comments were submitted on this, and I guess one of the  
23 concerns that I have has to do with what you might call  
24 false reporting and how you're going to manage through  
25 that. For example, if, you know, a 682 is submitted

1 because of suspected resistance but then the testing is  
2 done to indicate, oh, it really actually is not  
3 resistant, how do you go back and correct the record, if  
4 that makes sense.

5 MR. CHISM: No, that's a great question. For  
6 the herbicide/pesticide registration notice, we ask for  
7 reporting of suspected resistance and also reporting of  
8 confirmed. And our intention is that -- excuse me -- in  
9 a couple instances, it took five years to confirm  
10 resistance. And, so, we would like to be able to get  
11 that information out to the user community that we're  
12 not sure yet, but we potentially have resistance here.  
13 And the intent is always to get the confirmation. But  
14 in some cases, it takes a number of years. And we look  
15 at that as a golden opportunity. That's when it's only  
16 a few acres impacted. We can maybe have a real chance  
17 to control these pests.

18 MR. KEIGWIN: All right. Thank you.

19 So the next update we had was dealing with  
20 some labeling issues. So Michelle Arling and Patricia  
21 Parrott are going to come up to answer any questions you  
22 have about web-distributed label or the SmartLabel  
23 efforts.

24 All right, so Preston, then Jim.

25 Charlotte, I don't know if you're up for this



1 one. Is your tent up for...okay. So Preston, then Jim.

2 MR. PECK: Thank you. So this project is also  
3 -- it's not only for registrants but also for  
4 applicators as well to access information regarding a  
5 label; is that correct? The Smart Label project?

6 MS. PARROTT: For the Smart Label project,  
7 ultimately it will be made available to the public as a,  
8 you know, structured data information. At this time,  
9 we're just finishing up the builder. We have the label  
10 information coming in in a structured format. The  
11 actual label as they're printed, all that flexibility  
12 will remain there.

13 Eventually, it will be made in a searchable  
14 database to the public. That's going to be a little  
15 while down the road. I think preliminarily the early  
16 adopters were -- didn't want the information made public  
17 until everyone was there, thinking that it would give  
18 some kind of advantage or disadvantage to them,  
19 market-wise, to be able to search their labels to find  
20 (inaudible) or something. So to make it an even playing  
21 field eventually it will be level.

22 But, ultimately, it could supplement what --  
23 for the applicators and things what is envisioned with  
24 the web-distributed labeling where you would go for  
25 specific application on a crop and get that information,

1 but for now, web-distributed labeling will do that.

2 MR. PECK: Okay. Is there -- a followup  
3 question. Is there anything being done to proactively  
4 think about various languages, access from various  
5 languages?

6 MS. PARROTT: At this time, we have -- we have  
7 it in English, and then we do have our sections that we  
8 have our Spanish labeling pilot that has been going on  
9 for certain phrases that are in Spanish as far -- that's  
10 as far as we've gotten right now.

11 MR. PECK: Okay. Well, I just -- upon reading  
12 it, but just at first glance, I don't know too much  
13 about it. It looks like a fantastic opportunity to  
14 address that issue that I know is of great concern of  
15 many people that not only work with Spanish-speaking but  
16 indigenous-speaking communities, Haitian-Creole as well,  
17 just seems like if that's the future, then that's a  
18 great opportunity to do it right.

19 MS. PARROTT: Good point. Thank you.

20 MR. KEIGWIN: Okay, Jim, then Cynthia.

21 MR. FREDERICKS: Thanks, and I just first of  
22 all just want to commend the agency on their efforts to  
23 try to make labels more clear, simpler, modernize  
24 labels, because from an applicator's point of view,  
25 labels can be a real bear sometimes. And ensuring that

1 folks are reading the label and following the label is  
2 critical. And, so, you know, we appreciate that and we  
3 obviously believe that, you know, smart labeling and  
4 web-distributed labeling can -- you know, is a means to  
5 that end. And we look forward to it.

6 One of the things that stood out in the note  
7 was that I guess the PRNs from 2014 and as of October of  
8 this year, there's still no -- there's no approved  
9 product labels for web-distributed labeling. So my  
10 question is is that because of a lack of applicants or  
11 applications for that, or is that due to some sort of,  
12 you know, a hangup in the system.

13 MS. ARLING: Thanks, Jim. I'm Michelle Arling  
14 from the Office of Pesticide Programs, and I worked on  
15 the web-distributed labeling, basically since its  
16 inception. We've had a lot of conversations with  
17 registrants that have expressed an interest in  
18 web-distributed labeling, but for various reasons, no  
19 one has jumped at the gun to rush in to be the first  
20 applicant.

21 So I think part of it is waiting for smart  
22 labeling to get fully implemented so that registrants do  
23 have those structured, searchable databases that then  
24 they could use to develop web-distributed labeling and  
25 make it available to users. And then there's the

1 hesitance to be the first one to try anything new. So  
2 it's not a lack of EPA's approving applications. We  
3 just haven't gotten any in.

4 MR. FREDERICKS: For the record, I wasn't  
5 accusing you of that.

6 MS. ARLING: No, no, that's okay.

7 MR. FREDERICKS: I was -- I was really just  
8 curious.

9 MS. ARLING: Yes.

10 MR. KEIGWIN: Okay, Cynthia, then Aaron, then  
11 Charlotte.

12 MS. PALMER: So I'm pleased that one of the  
13 expected benefits would be quicker implementation of  
14 public health and environmental protective measures, and  
15 that makes me think about incident reporting. And I'm  
16 just wondering whether if this new electronic system  
17 might be combined with the electronic portal and  
18 database on incident reporting and the great work  
19 started by Rich Dumas and Melissa Panger.

20 MS. PARROTT: The way that this is being smart  
21 labeled and ultimately web-distributed labeling is the  
22 first step in a fully integrated digital system for the  
23 agency. So the SmartLabel and the e-CSF -- electronic  
24 composition statement of formulation -- are going to be  
25 launched through the portal, needless to say at the same

1 time, sometime in 2018. And the back-end database is  
2 being built to accommodate both of those in the hopes to  
3 integrate all of our reporting systems. And I think the  
4 vision right now is to use the CDX portal as the way to  
5 get information exchange into the agency from  
6 registrants and others. So ultimately I think that is  
7 the vision.

8 MR. KEIGWIN: Okay, Aaron, then Charlotte.

9 MR. HOBBS: Great. Thank you. So, first, I  
10 know a lot of good work has gone into the SmartLabel  
11 pilot, work by the agency, as well as work by members of  
12 the registrant community. And while that work has been  
13 diligent, I am aware that there's a lot of work that  
14 remains for that to really be show-ready, and that as I  
15 understand it that program is far from complete. And  
16 with it being far from complete, that probably puts a  
17 little damper on the ability to do web-distributed  
18 labeling.

19 So could you speak a little bit to -- a little  
20 more details about how we get from a very well executed  
21 pilot and then bridge that with what can be a  
22 significant gap between a successful pilot and a  
23 ready-to-use program.

24 MS. PARROTT: So right now we are finishing up  
25 -- or we got the contract and we're finishing up with

1 the input that we got from the third phase of the pilot.  
2 We are going to engage our pilot participants one more  
3 time before we roll out the builder. All of the  
4 information so far has been made publicly available  
5 through the website. We also have a mailbox for  
6 comments. So we will still anticipate having it out for  
7 voluntary use in the next year.

8 There will be a learning curve, and I think  
9 some people -- you know, those that have been  
10 participating and asking questions along have an idea of  
11 what it will look like. We have built out the builder  
12 to greater extent than originally I think we thought we  
13 were. It has taken some extra time, but I think that  
14 the effort that's gone into it has been well worth it to  
15 give a product that we'll be pleased with.

16 Now, as far as, like, the full implementation  
17 and vision, yes, it's going to be a work in progress,  
18 and this will be a first phase to getting it perfected,  
19 but we do hope to have it launched for voluntary use in  
20 the next year. Does that answer your question?

21 MR. KEIGWIN: Charlotte.

22 MS. SANSON: So following up on the SmartLabel  
23 pilot, and then just a suggestion that perhaps looking  
24 at a pilot that would -- that would -- that would focus  
25 on the different types of labels, like, you know,

1   conventionals versus antimicrobials and, you know,  
2   biological consumer labels, because all those type of  
3   labels are fairly different from one another. So maybe  
4   segregating the pilot in those areas, and maybe you can  
5   speak to that if you've already considered that. I have  
6   other questions, too, but I'll let you answer that one  
7   first.

8                   MS. PARROTT: Yes, we did. So when we  
9   initiated it in the summer of 2014, we solicited  
10  partners from the different registrants to represent  
11  kind of a cross-section of the industry, so  
12  conventionals for ag products, also lawn and garden,  
13  microbial and biochemical in the agriculture and in the  
14  mosquito and larvicide products, antimicrobial  
15  pesticides for hospital disinfectants, wood  
16  preservatives, and pool products. And so all those are  
17  represented.

18                   MS. SANSON: Do we look at a separate pilot  
19  for each of those types or --

20                   MS. PARROTT: No, we're doing it together, so  
21  the idea was that we would have one -- one builder and  
22  one set of requirements, but then you could go to the  
23  areas that pertain to your specific products, and you  
24  could hide the rest. So rather than have separate areas  
25  for separate registrants, have it all in one place.

1           MS. SANSON: Okay. And I'd like to respond to  
2 the question on implementation with the web-distributed  
3 labeling. And I think maybe there are still some  
4 implementation concerns with that, and I think we'd like  
5 to know the status of where the states are in terms of  
6 acceptance of web-distributed labeling because I've  
7 heard enforcement -- concerns with enforcement and  
8 having one -- you know, be easier if there was one  
9 website for the states to go to rather than, you know,  
10 several individual ones. So I'm -- if Liza or, I don't  
11 know who can answer that, but it would be helpful to  
12 know.

13           MR. KEIGWIN: Liza, if you've got an answer.

14           MS. TROSSBACH: Sure, sure. State lead  
15 agencies have been aware of this effort, you know, since  
16 the getgo. And some of our concerns from the very  
17 beginning, one was the availability of the information  
18 to users, so our concern was that while I think we all  
19 certainly support the availability of information via  
20 the website, we were concerned that it still needed to  
21 be provided to the user on the container. You know,  
22 there are many areas where there's not ready access to  
23 the internet or to something like that. So that was one  
24 concern or one thing that we wanted addressed.

25           Another was with web-distributed labeling and



1 having certain versions that would be good for a certain  
2 period of time and with that back-door access for state  
3 lead agencies if there were enforcement situations, if  
4 we had to do an inspection or investigation to be able  
5 to determine what label was enforced or, you know, in  
6 place at that particular time. So that was another.

7 I think that states certainly support this  
8 idea of making labels more easy to read. I mean, some  
9 of your labels are huge, and there is some -- I think  
10 there is some validity in an applicator only having to  
11 read what they need to read, so if you're applying to --  
12 I'll just use corn as an example, you get the  
13 information for corn. But from a state lead agency  
14 perspective, are you getting all the information  
15 including corn versus just corn. So are you still  
16 getting all the use directions, you're still getting all  
17 of the environmental hazards and those types of things.

18 So I think states will -- are willing to  
19 accept web-distributed labeling, as long as that  
20 information is available to any user, whether it's on  
21 the container or via the web, as long as it's available  
22 to them.

23 MS. ARLING: And just from EPA's perspective,  
24 we have engaged the states throughout the process, and  
25 we do plan to work really closely with states once we do

1 get applications in to make sure that everyone's  
2 comfortable with the way that we're proposing to issue a  
3 web-distributed labeling.

4 MS. SANSON: Okay, great. I appreciate all  
5 the feedback. And then just one more, and that has to  
6 do with supplemental labels and if you can clarify the  
7 process for supplemental labels via web-distributed  
8 labeling if you've thought about that.

9 MS. ARLING: So I think right now they're  
10 separate processes, and because web-distributed labeling  
11 is right now a fully voluntary process, they'll stay  
12 separate. The hope is that we can move away from  
13 supplemental labels and have updated labeling provided  
14 via web updates that are linked to the container of the  
15 product.

16 MR. KEIGWIN: Anything else on the labeling  
17 efforts?

18 (No response.)

19 MR. KEIGWIN: Okay. Thanks.

20 And then there was cannabis. Nicole Zinn.  
21 You don't want in on that one, Aaron?

22 Nina does.

23 MS. WILSON: I have a question for a friend of  
24 mine.

25 (Laughter.)

1 MS. WILSON: Actually since you know that  
2 biological products are often exempt, but not always,  
3 from tolerances, and I understand the distinction  
4 between a 25(b) and it's 24(c) for an exempt product,  
5 but I'd be interested in a little bit of that discussion  
6 about how that -- those statements came about.

7 MS. ZINN: So EPA does not register 25(b)  
8 products, so 25(b) products are not prohibited from  
9 having -- we don't evaluate them, we don't register them  
10 -- so they're not prohibited from having cannabis on the  
11 label or being used for cannabis. However, we do  
12 register products that are tolerance-exempt in the  
13 Biological and Pesticide Pollution Prevention Division  
14 or other divisions, and so that is where, you know, it  
15 will become a federal action to register that product  
16 and approve it. And because cannabis is a federally  
17 illegal crop, that is where we start to have some  
18 difficulty.

19 MR. KEIGWIN: Okay.

20 MS. PALMER: So maybe this is the obvious  
21 question, but since no one else is asking it, so since  
22 EPA disapproves of the special local needs registration,  
23 so where does this leave cannabis production? Does it  
24 all go organic, or do they now use the product  
25 illegally? Or I'm not sure where this leads us.

1 MS. ZINN: Okay, so there -- the states have  
2 legalized cannabis within their states. And there are a  
3 variety of things that are being done within the states.  
4 First of all, 25(b)s, as I mentioned, are not  
5 prohibited. So I think some growers are using 25(b)  
6 products. We are aware that some states have developed  
7 lists of products that are not -- they do not consider  
8 to be illegal to use. And each state has different  
9 criteria for those lists, and they would be on like a  
10 state website.

11 We know that some of these lists exist, but we  
12 have not reviewed those lists. And I think those are  
13 the two primary ways that people are using pesticides.  
14 And then I think you're probably right, there are other  
15 cases where growers are probably using things that are  
16 not legal.

17 MR. KEIGWIN: All right, Preston.

18 MR. PECK: You kind of touched on my question,  
19 and I just want clarity. So if someone were to use a  
20 product on, like, starting industrial hemp projects in  
21 North Carolina and they use a product that isn't 25(b),  
22 would that be an off-label use of that product?

23 MS. ZINN: In most cases, yes.

24 MR. PECK: And, so, therefore, would the state  
25 lead agency have to step in or would that be EPA? I'm

1 trying to wrap my head around this --

2 MS. ZINN: I'm sorry, I'm trying to understand  
3 what you're asking.

4 MR. PECK: So I'm asking if someone were to  
5 use a product in an industrial hemp operation or somehow  
6 this product that's not for cannabis was to be used,  
7 that would be an off-label use, and would the state  
8 department of ag, or in North Carolina's case, the North  
9 Carolina State Department of Agriculture, step in and  
10 say you've committed a label violation?

11 MS. ZINN: Yes. Usually yes.

12 MR. KEIGWIN: So the states have primacy for  
13 use violations.

14 MS. ZINN: Yes.

15 MR. PECK: Right, so that would be the state,  
16 okay.

17 MS. ZINN: Yes.

18 MR. PECK: Thank you.

19 MR. KEIGWIN: Anyone else?

20 (No response.)

21 MR. KEIGWIN: Do you want to run before...

22 That's the easiest Nicole has ever had to do  
23 on this topic. So, all right, thanks.

24 Okay, so, our last topic for the day is an  
25 update on PRIA. So Steve Schaible, who is our newly

1 appointed PRIA coordinator for the Office of Pesticide  
2 Programs will come up and give us an update.

3 MR. SCHAIBLE: Good afternoon, everyone. So  
4 I'm going to talk a little about PRIA, and currently we  
5 are under PRIA 3 still. The PRIA 3 expiration date was  
6 September 30th, but the continuing resolution extended  
7 it through December 8th. And, so, we'll talk about sort  
8 of PRIA as it currently exists, as well as the effort to  
9 reauthorize PRIA that is ongoing. And then after that  
10 I'll just be talking about some of the metrics,  
11 performance metrics for the last fiscal year for PRIA.

12 Okay, so PRIA 4 is the reauthorization  
13 legislation that is currently gone through Congress. As  
14 I said before, PRIA 3 had an expiration date of  
15 September; that passed. It was extended by the  
16 continuing resolution. So as far as PRIA 4 goes, the  
17 bill that was -- the EPA assisted in the development of  
18 with the PRIA coalition was for a seven-year  
19 reauthorization, and that version was passed by the  
20 House of Representatives by unanimous consent back in  
21 March.

22 It then went on to the Senate, and the Senate  
23 amended that bill to be a three-year extension of the  
24 PRIA authority. And that passed out of committee in  
25 June. That bill is awaiting vote by the full Senate at

1 this point in time.

2 If that bill was passed by the Senate, that  
3 amended bill would need to go back to the House to  
4 reconcile the differences between those two bills. And  
5 at that point in time it would proceed to the President  
6 for signature.

7 So we can talk about, then, what are the  
8 provisions of that bill. I just want to go through  
9 quickly on this because I want to spend more time  
10 focusing on PRIA 3 and our accomplishments. But very  
11 quickly, if that bill were to go through and be passed  
12 into law, there are -- the maintenance fee authority  
13 would be extended, and there are some wrinkles to that.  
14 Currently, it's at \$27.8 million per year for  
15 collections for maintenance fees. The proposal is to  
16 raise that to \$31 million per year.

17 Likewise, currently EPA is not able to average  
18 across years, so if we undercollect or overcollect  
19 within a given year, we can't offset that in the years  
20 advancing. You just sort of take what you got that  
21 year. We have a formula where we attempt to estimate  
22 what the fee for registrants should be, and it's taking  
23 into account, you know, the number of products that are  
24 currently registered, you know, how many small business  
25 waivers we anticipate might be submitted, and sometimes

1 that formula doesn't end up with the outcomes that we  
2 project.

3 So PRIA 4 would allow averaging across years  
4 to account for that over or undercollection within the  
5 authorization period. Likewise, PRIA 4 has some  
6 language which eliminates a longstanding provision from  
7 FIFRA that requires for every maintenance dollar which  
8 is spent, an appropriated dollar must first be spent.  
9 And over time under PRIA 3, we've seen our appropriated  
10 dollars get smaller and smaller, and that has had an  
11 impact on our ability to spend maintenance fee dollars.  
12 And, so, there's a provision in PRIA 4 which removes  
13 that constraint.

14 Continuing with maintenance fees, in PRIA 3,  
15 currently there is an IT set-aside that allows for  
16 activities -- specified activities for EPA to use  
17 maintenance fee dollars towards. I think one of the big  
18 ones is developing a tracking system where applicants  
19 can be looking at their applications as they move  
20 through the agency, but there's others as well.

21 There's endangered species database  
22 development; there's conditional registration; the  
23 ability to look at sort of how EPA is receiving and  
24 reviewing data that were required under conditional  
25 registration.



1           That IT set-aside is going to be replaced with  
2 a new set-aside, at \$500,000 per year. And, so, again,  
3 there's a seven-year version and a three-year version.  
4 And, so, depending on what version you end up with, that  
5 protects your overall dollars that are collected and put  
6 towards that.

7           But that set-aside is developed and finalized  
8 rulemaking and guidance for product performance data  
9 requirements for certain invertebrate pests of  
10 significant public importance. So these are public  
11 health pests. And, likewise, it establishes a mandatory  
12 schedule for the EPA to develop the guidance and then  
13 the rulemaking on that guidance as needed for those  
14 pests.

15           It also creates a separate set-aside of  
16 \$500,000 per year for good laboratory practices  
17 inspections. And these funds would be collected under  
18 PRIA and would be then shared with our Office of  
19 Enforcement and Compliance Assurance, hire additional  
20 inspectors -- inspectors to conduct those inspections.

21           Okay, and now I'm going to move on to the PRIA  
22 registration service piece side of PRIA 4. PRIA 4  
23 extends the existing set-asides for worker protection,  
24 partnership grants, and pesticide safety education  
25 programs and further emphasizes that those activities

1 shall focus on fieldworker populations in the United  
2 States. It also directs EPA to look for opportunities  
3 to streamline review processes for new chemicals and new  
4 use applications and to provide feedback to applicants  
5 during that process.

6 And, so, this is overall when new uses and new  
7 chemicals, in particular, tend to -- our decisions tend  
8 to occur in time frames that are longer than the  
9 mandated time frames under PRIA. And there's a lot of  
10 reasons for that, and we will be looking at ways in  
11 which we can expedite our review for those types of  
12 applications.

13 As with PRIA 3, PRIA 4 has reporting  
14 requirements and it extends the existing requirements  
15 and expands upon them. So reg review reporting  
16 requirements currently have a lot more to do with your  
17 preliminary work plans and sort of the beginning stages  
18 of reg review. PRIA 4 has language that starts  
19 reporting out on some of the later stages of reg review  
20 and what is our performance for those cases further down  
21 the road.

22 It talks about we have to report on meeting  
23 mandatory schedules and developing those efficacy  
24 guidelines I spoke of earlier. There's time frames that  
25 are specified, and those time frames differ between the

1 two different versions, but EPA is to complete those  
2 activities in certain time frames, and we'll be  
3 reporting out on that and our progress in doing that.

4 The progress and the review and approval of  
5 the new pesticides to control vector-borne public health  
6 use -- to control the pests that vector public health  
7 diseases in the United States. And this includes  
8 territories and military bases globally.

9 There's another requirement for, again, the  
10 number of GLP inspections which are conducted. There is  
11 a new category for design for the environment amendments  
12 to labels, and we will be reporting out on how many of  
13 those we approve, and then the existing requirement for  
14 worker protection partnership grants and pesticide  
15 safety education, how those funds are being used.

16 But additionally to that, there's also  
17 language on reporting out on the effectiveness of those  
18 activities and EPA's engagement with stakeholders around  
19 those activities.

20 Okay, so, PRIA 3 has currently 189 fee  
21 categories. There was an effort going into PRIA 4 to  
22 look at where we could consolidate categories, eliminate  
23 categories, and then, of course, we also added  
24 categories because that's what usually happens. So we  
25 went from 189 up to 212, and I just want to hit on some

1 of the highlights around these.

2 In general, there is an effort to better align  
3 fees and time frames with increasing increments of  
4 activities received and work done. And, so, for the  
5 inert ingredients, we lowered time frames, raised time  
6 frames, increased and decreased fees. The inert  
7 ingredient categories were new to PRIA 3. I think  
8 having five years under our belt we have a much better  
9 understanding of what are the time frames and resources  
10 that go into those types of reviews. And I think that  
11 the proposed changes to those fees and time frames  
12 reflect that, that knowledge that we've gained.

13 For the efficacy data and public health  
14 efficacy data and review, these are disinfectants, these  
15 are antimicrobials where there's organisms involved.  
16 These are public health pests and bio-pesticide in the  
17 conventional realm. We've created new categories where  
18 if you're asking for additional organisms and additional  
19 target public health pests that there are differing  
20 categories. Increase in categories are incremental  
21 increases in categories and/or fees as your number of  
22 pests or organisms get higher.

23 There was a desire expressed for a category to  
24 provide incentive for U.S. harmonization of existing  
25 tolerances with international MRLs, CODEX MRLs. And,

1 so, amended an existing category, the R292 category, to  
2 allow for a one-time -- you know, any tolerances -- U.S.  
3 tolerances that existed that were not in align with  
4 MRLs, you can come in under that category and harmonize  
5 all of your tolerances for your chemical.

6 There was an OIG audit of the conventional  
7 reduced risk program a while ago and found that there  
8 needed to be additional incentive provided for  
9 participation in that program. And one of the  
10 recommendations from our OIG was to provide a fee  
11 differential in addition to the time frame differential  
12 for reduced risk actions. And, so, the new -- the  
13 pending legislation provides an incentive by increasing  
14 the fee amounts for new chemical and new use categories  
15 where there's an analogous reduced risk category. And  
16 that would be a 20 percent increase.

17 There are new categories to better align  
18 antimicrobial categories to be consistent with the Part  
19 158W revisions that happened a few years ago, and in  
20 that realm, there are much fewer categories under PRIA 4  
21 than there were under PRIA 3. There was consolidation  
22 there. There's new PIP categories being added, and PIP  
23 is a plant-incorporated pesticide, I believe. So  
24 there's new PIP categories.

25 On the inert front, there were no categories

1 for safeners, and safeners are inert ingredients, but  
2 the data set required for safeners resembles much more  
3 so a new active ingredient. And we were finding that we  
4 were not able to complete those applications in near the  
5 time frame specified under the existing categories, nor  
6 were we getting money that any -- in any way aligned  
7 with the work that we were putting into this. There's a  
8 whole slew of safener categories that are being  
9 proposed.

10 And, then, finally, in Table 19, which is the  
11 miscellaneous table, there are a number of new proposed  
12 categories requested by stakeholders. One is for  
13 non-FIFRA determinations. These are device  
14 determinations, treated article exemptions, minimum risk  
15 determinations. These are activities that currently  
16 exist outside of PRIA but for which I don't -- my  
17 understanding there isn't a set time frame. And I think  
18 there was a desire that for a fee there could be a time  
19 frame for that type of product being produced by the  
20 EPA.

21 Again, I mentioned before, there's design for  
22 the environment amendments where for a pesticide product  
23 you can amend your label for the design -- for the  
24 environments for pesticide product logo. And, finally,  
25 this last one, there's a conditional ruling on

1 pre-application substantial similarity findings. And,  
2 so, right now, if you have a new product that you're  
3 claiming to be me-too or substantially similar to  
4 another product, you submit your application, it goes to  
5 the similarity clinic, at the front end of the process,  
6 as part of our preliminary technical screen review, and  
7 if it's found to not be substantially similar, you get  
8 another bite at that apple. And if you don't come up  
9 with another product, then it gets kicked out under the  
10 screen.

11 And, so, I think in the registrant community,  
12 there was a desire of some to be able to know up-front  
13 whether or not the agency was inclined to think that  
14 there was a favorable argument to be made around  
15 similarity. That gives you greater certain when you  
16 submit the application itself of a time frame for an EPA  
17 decision.

18 In terms of fees collected in Fiscal Year '17,  
19 on the PRIA side, we collected \$18.265 million. This is  
20 higher than we have in the previous few years. And on  
21 the maintenance fee side, we collected \$27.99 million,  
22 and so \$27.8 is our target, that's what we were shooting  
23 for. So as you can see, sometimes you collect slightly  
24 over and under, and, again, there's not a way that we  
25 can know until we actually receive all the small

1 business waivers, weigh in on them, and receive the  
2 fees.

3 Okay, moving on to some of the summary  
4 statistics. So I apologize if these are a little small,  
5 but so light blue bars are for the number of submitted  
6 primary applications, so this is what came in in the  
7 last fiscal year. The yellow bars are the number of  
8 completed decisions. And these would be primary and  
9 secondary decisions. And, so, primary/secondary, just  
10 to quickly summarize that, you can submit an  
11 application, for instance, for a new chemical or a new  
12 use, and there might be a technical product, there might  
13 be multiple amendments to end-use products, there might  
14 be new products.

15 As long as they're related to each other and  
16 share data, they're -- the primary is -- one of them is  
17 assigned the primary decision, and the others are the  
18 tag-alongs or the secondary. And, so, if you're looking  
19 at more accurately what are the number of packages that  
20 we receive for a certain request in the use of a new  
21 chemical, new product, or otherwise, primary decisions  
22 are a more accurate way to count that.

23 And then, finally, the dark blue bar is the  
24 number of completed decisions that involved a negotiated  
25 due date for the decision. And, so, starting with the



1 antimicrobials division, we received 300 primary  
2 applications in the past year. We completed 338  
3 decisions; 282 of those were the primary decisions; and  
4 there were 26 of those 338 decisions that involved a  
5 negotiation of the due date.

6 For biopesticides, there were 148 decisions  
7 received; 163 primary/secondary were completed; 145 of  
8 those were primary decisions; and 22 of those 163  
9 involved a negotiation of the due date -- one or more  
10 negotiations, actually.

11 For conventionals, there were 880 decisions  
12 received; 937 decisions were completed, of which 746  
13 were primary decisions; and 197 of those 937 were  
14 negotiated.

15 For inerts, 55 were received; 42 were  
16 completed; and those 42 were all primary decisions; and  
17 16 of the 42 involved a negotiation. And just going  
18 back to PRIA 4 and adjusting the time frames, I think  
19 this is an example of how under PRIA 3 we set some time  
20 frames and in some cases they didn't end up being the  
21 right amount of time for the work that we were doing.

22 Finally, for the miscellaneous categories, and  
23 the bulk of these are going to be gold seal letter  
24 requests, there were 562 miscellaneous applications  
25 received; 544 were completed; and those 544 were all

1 primary decisions as well, there were no secondary  
2 decisions; and there were no negotiations of the due  
3 date for any of those miscellaneous categories.

4 In addition to gold seals, those can also  
5 include actions that had to go to HSRB or SAP, new  
6 product applications that span the regulatory divisions  
7 that had a BPPD element and an RD element. Extension of  
8 exclusive use requests were also included in the  
9 miscellaneous category.

10 Okay, this next slide speaks about -- it's  
11 sort of the different way of presenting information from  
12 the previous slide about a negotiated due date. And it  
13 gives you a historical perspective. So you can see back  
14 -- and it goes back to 2010, and at that point, for  
15 antimicrobials we had 35 percent of our completions  
16 involved negotiations. For biopesticides, it was 62  
17 percent. For conventionals, it was 26 percent.

18 And as you go down through here, this year,  
19 you can see we have done exceptionally well on all of  
20 our divisions. For antimicrobials, there were 26 of the  
21 338 that involved a negotiation. That's 7.7 percent of  
22 the completions. For biopesticides, the number was 13.5  
23 percent. For conventionals, it was 21 percent;  
24 miscellaneous, again, had no negotiations. And for  
25 inert, it was 38.1 percent. So this was in terms of

1 performance around a negotiated due dates, this was a  
2 good year for OPP staff in terms of completing these  
3 actions.

4 The next slide has to do with late completions  
5 or inversely on-time completion rate. For  
6 antimicrobials, there was one late completion of all of  
7 their actions this last year. For biopesticides, there  
8 were two late completions. Conventionals had 12; inerts  
9 had two; and there was one late completion on the  
10 miscellaneous front. So the range there, I think, were  
11 all, you know, above 95 percent, and most of them were  
12 at 99 percent or above. So, again, this was a good year  
13 compared to our previous years. And I think the last  
14 two or three years we've been showing improvement. So  
15 this is a good news story for the staff at OPP as well.

16 In the PRIA quarterly stakeholder meetings, a  
17 couple of years ago, the request was made to start  
18 reporting out on some activities that are non-PRIA but  
19 are also of great importance to the community that's  
20 submitting applications. And, so, I want to talk a  
21 little bit about the non-PRIA fast-track amendments and  
22 notifications. For the office, OPP completed 2,302  
23 fast-track amendments this last year. At fiscal year's  
24 end, there were 1,048 amendments pending. And 521 of  
25 those were in backlog status, and for fast-tracks,

1 that's greater than 90 days.

2 For notifications, OPP completed 2,787  
3 notifications in FY17. At the year's end, there were  
4 622 notifications pending, and 463 of those were in  
5 backlog status, which is greater than 30 days for  
6 notifications.

7 Okay, this next slide has to do with our  
8 effort to transition to receiving applications  
9 electronically. So a while back, we just received  
10 things in paper, and then we moved to the point where we  
11 were getting things on CD or DVD. And then in 2015, the  
12 pesticide submission portal was put out there and made  
13 live, and there's been -- there was an update to that, a  
14 Phase 2 of the portal that expanded the capability, and  
15 then there's going to be a Phase 3 as well. I think  
16 some elements in it are already live. It's in stages  
17 right now.

18 But I just wanted to talk about sort of the  
19 number of submissions we received and what the breakout  
20 of those submissions is, paper or CD versus portal. And  
21 I think I -- for time's sake, I don't think I'll go  
22 through individually. I'll just go through the total,  
23 but we received over 12,000 total submissions for the  
24 year. 6,500 of those were in paper. 115 of those were  
25 on CD or DVD. And 5,705 of those were through the

1 portal. And, so, the percentages are 53 percent, 1  
2 percent, and 46 percent.

3 If you look within the divisions, I think you  
4 can see that, you know, antimicrobial applicants are  
5 leading the way in terms of submitting electronically  
6 and through the portal, but I think everybody is showing  
7 progress when we look at sort of the -- when the portal  
8 first went live and how the progress we've been making,  
9 there has been incremental progress over time,  
10 definitely moving away from the CDs and DVDs and moving  
11 towards the portal, and the paper submissions have been  
12 going down as well.

13 In September, the ability to submit gold seal  
14 letters through the portal was implemented, and I think  
15 that given the number of gold seals that we get, I think  
16 that will -- the next time we report out on this, I  
17 think there will be a significant change in these  
18 numbers reflecting that the gold seals are coming in  
19 through the portal -- or can come in through the portal  
20 now. And we encourage you as the registrant community  
21 to be submitting those through the portal as well.

22 As I mentioned earlier in this slide, there is  
23 a set-aside under PRIA 3 for worker protection  
24 activities, and I just wanted to give a quick summary  
25 for FY17 and 18 how those grants were awarded. So for

1 the first grant for worker protection activities is to  
2 the Association of Farmworker Opportunity, or AFOP.  
3 That's the national farmworker training program, and  
4 it's a cooperative agreement for \$500,000.

5 AFOP is responsible for developing and  
6 administering a pesticide safety training program to  
7 support the national network of pesticide safety  
8 trainers, providing pesticide worker safety training to  
9 migrant and seasonal farmworkers and to their families.

10 And the second grant under the general worker  
11 protection is to the Pesticide Educational Resources  
12 Collaborative, or PERC. And this is through UC-Davis  
13 and the Oregon State Cooperative Agreement. That's,  
14 again, for \$500,000. This cooperative agreement will  
15 develop or coordinate the development of pesticide  
16 educational material. An advisory board and EPA will  
17 help in setting national priorities.

18 The PERC will use subject matter experts and  
19 production professionals. And it focuses on WPS  
20 materials -- or will focus on WPS materials in its first  
21 year because of the urgent need for training materials  
22 with the newly updated regulation. PERC will focus on  
23 the certification and training materials in its second  
24 year in response to the anticipated changes in  
25 categories and needs nationwide.

1           And the next slide talks about some of the  
2           current projects for which that grant money is being  
3           applied. And I think for the sake of time I won't go  
4           through them individually.

5           Okay, there is also a \$500,000 set-aside of  
6           PRIA Funds for pesticide safety education program  
7           activities, and that went to NPIC, the National  
8           Pesticide Information Center. This cooperative  
9           agreement facilitates informed decision-making about  
10          pesticides and supports the protection of human health  
11          and the environment by serving as a bilingual factual  
12          source of information for professionals and public  
13          audiences on public-related issues.

14          And, lastly, there is a pesticide education  
15          program set-aside that went to the eXtension Foundation.  
16          This was previously granted, but the grantee did not  
17          accept the award. And, so, there was a two-year lag  
18          time for that to be re-competed and a new grantee to be  
19          awarded. So this is \$1,500,000 of money.

20          This establishes a pesticide safety education  
21          funds management program to help support state  
22          cooperative extension programs, conduct their certified  
23          pesticide applicator training activities. And, again,  
24          this is the current-year PRIA funds of \$500,000 and then  
25          the two previous years of unexpended funds.

1           These are the PRIA points of contact within  
2 the Office of Pesticide Programs. So if you have any  
3 questions, do feel free to contact the divisional  
4 representative, and that's Andrew Bryceland in BPPD;  
5 Diane Isbell in AD; RD, Ashwasi Balan [phonetic] is  
6 serving in that capacity informally, so you can contact  
7 her or you can contact me as well. And at the office  
8 level, you're free to contact me.

9           That's it. Are there any questions around  
10 PRIA?

11           MR. KEIGWIN: Jay.

12           MR. VROOM: So early in the presentation you  
13 referred to the GLP program. Separate from this,  
14 there's reports that GLP is being moved out of OECA.  
15 Any reports on where it is? Is the truck lost coming  
16 across the river?

17           MR. KEIGWIN: So the GLP program currently  
18 remains in the Office of Enforcement and Compliance  
19 Assurance. In the last administration, there had been  
20 plans to transfer those functions to another office  
21 within the Office of Chemical Safety and Pollution  
22 Prevention. That move has been put on hold for now  
23 while we onboard the new team and they can make some  
24 choices on things like that. So for now, all the good  
25 laboratory practice program activities are continuing to



1 be run out of OECA.

2 MR. VROOM: Some years ago, we experienced a  
3 government shutdown, and PRIA fees got put into a  
4 purgatory account. I think it was \$800,000. Is that  
5 money still in purgatory?

6 MR. SCHAIBLE: It is.

7 MR. VROOM: And it will require the  
8 appropriations committees to free it?

9 MR. KEIGWIN: We would need to check with our  
10 appropriations law attorneys to get you an answer to  
11 that one.

12 MR. VROOM: Thanks.

13 MR. KEIGWIN: Iris?

14 MS. FIGUEROA: Thank you. Just a quick  
15 question on the worker protection activities. If you  
16 could just give a little bit more detail on sort of the  
17 worker voice in that and to what extent workers will be  
18 involved, especially in the development of these  
19 materials that are listed.

20 MR. KEANEY: The program we have has an  
21 advisory board, and it's available for worker advocates  
22 to be participating in that and then guide the  
23 particular products that are developed over the course  
24 of the -- of the cooperative agreement.

25 MR. KEIGWIN: Andrew.

1 MR. THOSTENSON: Yeah, I would just add that  
2 they've created a number of rather high-quality  
3 materials that are already available, including a  
4 how-to-comply manual, a variety of different posters and  
5 websites, videos for training workers and handlers,  
6 how-to-train-the-trainer manual. They've been very  
7 productive, at least in the agriculture arena that I  
8 work in.

9 MR. KEANEY: The AFOP grant, as well, has  
10 produced new training flip charts with upgraded graphics  
11 and responding to comments we've gotten from folks that  
12 have been trained and the trainers as to the  
13 effectiveness of the graphics. So we've made  
14 adjustments -- or AFOP's made adjustments there and it's  
15 very, very -- a very graphically intense presentation,  
16 along with the scripting of the training.

17 MR. KEIGWIN: Any other questions? Jay.

18 MR. VROOM: So with PRIA only extended and not  
19 reauthorized, what does that do to the money flow to  
20 AFOP and PERC?

21 MR. KEANEY: It obviously presents a problem.

22 MR. VROOM: Thank you.

23 MR. KEIGWIN: Amy?

24 MS. LEIBMAN: I just want to encourage the EPA  
25 in terms of the cooperative agreements. I think that,

1 you know, PERC has done a lot of work, and they have  
2 tried to -- they have an advisory board, but there's  
3 still a feeling among the farmworker advocate community  
4 that involvement of workers in the testing of these  
5 products and how they're used and their effectiveness  
6 still needs some work, and how they, you know, use their  
7 funds to gather that information and evaluate it. We  
8 would like to see a stronger voice from EPA in the  
9 guidance that it gives to its grantees about the worker  
10 involvement.

11 MR. KEANEY: All the grants and cooperative  
12 agreements, not -- but there's a distinction between a  
13 straight-out grant and a cooperative agreement. And,  
14 so, there are -- there is interaction from EPA with the  
15 -- with the grantees, but obviously we aren't in a  
16 position to strongly dictate all that they will do.  
17 It's a cooperative agreement, as I said.

18 MS. LEIBMAN: I understand that, but you can  
19 design requests for proposals and how you design the  
20 cooperative agreement proposals to encourage that and  
21 score on that.

22 MR. KEIGWIN: Other comments, questions?

23 (No response.)

24 MR. KEIGWIN: Seeing no tent cards going up,  
25 thanks, Steve. Thanks, Kevin.

1           So we had one person sign up for public  
2 comment, so Cindy Smith from Gowan.

3           MS. SMITH: Thank you, Rick. And I just want  
4 to share, after listening to the comments this morning  
5 on chlorpyrifos I really feel compelled to share maybe  
6 the other opinion. So as strongly as I think people  
7 feel that the administrator made the wrong decision in  
8 denying the petition, I think there are a significant  
9 number of people who think the administrator made the  
10 right decision for the science side of it.

11           And, so, the frustration, I think, that many  
12 of you expressed today is the same frustration that many  
13 of us in the registrant and user community felt back in  
14 December of 2014 when the human health risk assessment  
15 was released and the epi-data, which have been available  
16 since 2007, but for legitimate reasons was rejected by  
17 EPA for use in the way that it was used in the 2014  
18 human health risk assessment was suddenly being used.

19           And, so, I think it isn't a simple issue. It  
20 is a complex issue. And I would like to pose that it  
21 isn't just about chlorpyrifos. I think it's really  
22 about epi-data and use of epi-data. And, so, I think to  
23 Nichelle's question about what science needs to be  
24 looked at, I believe the answer is that it is -- what's  
25 the appropriate use of these specific epi-data.

1           So not all epi-data is the same, right? Some  
2 of it is conducted for certain reasons, some for others.  
3 In some cases, the data are available and in some cases  
4 they aren't. In some cases, they're good exposure  
5 metrics. In other cases, there's not. There's epi-data  
6 that has been done with exposure to OPs that doesn't  
7 show these neurodevelopmental effects. So how do you  
8 weigh that in? So I think that's one question that  
9 probably deserves some legitimate continued  
10 conversation.

11           And then I think the second area is that once  
12 you determine that that epidemiology data may be  
13 appropriate for use, how do you integrate that with the  
14 animal and toxicity -- the animal and human toxicity  
15 data that exists for many of these chemicals. So I  
16 think it was said that, you know, chlorpyrifos has been  
17 used for over 30 years. Many OPs have been used for  
18 over 30 years. I would agree. I think, Amy, it was  
19 your statement that there's a lot of data that has been  
20 generated on these products.

21           And I would say that the available animal and  
22 human toxicological data supports that regulating under  
23 cholinesterase inhibition is protective. And, so, I  
24 think those to me are the two areas that really do  
25 warrant some further science review. What are the right

1 criteria to say that epidemiology data should be used,  
2 and once you determine it's usable, how do you integrate  
3 it with all that available animal toxicology data that  
4 is required to be generated under specific conditions  
5 that looks at those exposure metrics and other things  
6 that are important?

7           And I guess that the last thing I would say  
8 is, you know, I've been in the registrant community for  
9 over 20 years. I've dealt with EPA staff on the  
10 registration of products through I don't know how many  
11 administrations. And I've had products approved; I've  
12 had products denied. But I will say that every single  
13 staff person that I've dealt with has put first and  
14 foremost the protection of human health, and I think  
15 particularly the protection of infants and children, and  
16 I would say concern about workers.

17           So I'm troubled at the implication that that  
18 may not be what's driving their decisions because when I  
19 agree with their decisions and when I disagree with  
20 their decisions, I have always found them to be based in  
21 what they believe the data says is protective of humans  
22 and the environment.

23           MR. KEIGWIN: That concludes our day. So  
24 thank you all for the very productive discussions today.  
25 I think we made some good progress, and we really

1 appreciate your input. Just a reminder that tomorrow we  
2 are starting at 8:30, and I expect an even more lively  
3 and robust discussion on the two rules.

4 So have a good evening, and we'll see you  
5 tomorrow. Thanks.

6 (Whereupon, the committee meeting was  
7 adjourned.)

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