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U.S. ENVIRONMENTAL PROTECTION AGENCY

PESTICIDE PROGRAM DIALOGUE COMMITTEE MEETING

Wednesday, November 15, 2023

9:30 a.m.

DAY 1

1 PESTICIDE PROGRAM DIALOGUE COMMITTEE ROSTER

2 May 2023

3 NAME

AFFILIATION

4 User/Grower Groups/ Farmer Representatives

5 Amy Asmus

Weed Science Society of
6 America

7 Jim Fredericks

National Pest Management
8 Association

9 Mark Johnson

Golf Course Superintendents
10 Association of America

11 Patrick Johnson

National Cotton Council

12 Dominic LaJoie

National Potato Council

13 Lauren Lurkins

Illinois Farm Bureau

14 Tim Lust

National Sorghum Producers

15 Bob Mann

National Association of
16 Landscape Professionals

17 Gary Prescher

National Corn Growers
18 Association

19 Caleb Ragland

National Soybean Association

20 Damon Reabe

National Agricultural
21 Aviation Association

22 John Wise

IR-4 Project

23

24

25

1	NAME	AFFILIATION
2	Environmental/ Public Interest/ Animal Welfare Groups	
3	Nathan Donley	Center for Biological
4		Diversity
5	Jessica Ponder	Physicians Committee for
6		Responsible Medicine
7	David Shaw	Mississippi State University
8	Alexis Temkin	Environmental Working Group
9		Alternatives to Pesticides
10		
11	Farmworker Representatives	
12	Becca Berkey	Community-Engaged Teaching
13		and Research Program,
14		Northeastern University
15	Lauren Dana	Legal Aid Chicago
16	Mayra Reiter	Farmworker Justice
17	Mily Treviño-Sauceda	Alianza Nacional de
18		Campesinas, Inc.
19		
20	Public Health Representatives	
21	Joseph Grzywacz	Department of Family and
22		Child Sciences, Florida
23		State University
24	Aaron Lloyd	Lee County Mosquito Control
25		District

1	NAME	AFFILIATION
2	Marc Lame	Indiana University's O'Neill
3		School of Public and
4		Environmental Affairs
5		
6	Chemical and Biopesticides Industry/Trade	
7	Associations	
8	Manojit Basu	CropLife America
9	Steven Bennett	Household and Commercial
10		Products Association
11	Lisa Dreilinger	Reckitt Benckiser
12	Keith Jones	Biological Products Industry
13		Alliance
14	Karen Reardon	RISE, Responsible Industry
15		for a Sound Environment
16	Charlotte Sanson	ADAMA
17	Anastasia Swearingen	American Chemistry Council
18		
19	State/Local/Tribal Government	
20	Jasmine Brown	Tribal Pesticide Program
21		Council
22	Dawn Gouge	Arizona Experiment Station
23		University of Arizona
24		
25		

1	NAME	AFFILIATION
2	Megan Patterson	Maine Department of
3		Agriculture, Conservation
4		and Forestry
5	Dave Tamayo	County of Sacramento
6		Department of Water
7		Resources
8	Wendy Sue Wheeler	Pesticide Resources and
9		Education Program,
10		Washington State University
11		
12	Federal Agencies	
13	Walter Alarcon	National Institute for
14		Occupational Safety and
15		Health Centers for Disease
16		Control and Prevention
17	Cameron Douglass	Office of Pest Management
18		Policy, US Department of
19		Agriculture
20	Charlotte Liang	Division of Plant Products
21		and Beverages, US Food and
22		Drug Administration
23	Ed Messina (Chair)	Office of Pesticide Programs
24		Environmental Protection
25		Agency

1	NAME	AFFILIATION
2	Cathy Tortorici	Endangered Species Act
3		Interagency Cooperation
4		Division
5		National Oceanic and
6		Atmospheric Agency

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

2 DAY ONE - MAY 31, 2023

3 MEETING OPENING

4 JEFFREY CHANG: Good morning. Welcome to
5 members of the public who are here in person and
6 those who have joined virtually, Federal Advisory
7 Committee members, workgroup members, EPA, and other
8 agency staff.

9 Please note that we also have press
10 joining us. Welcome.

11 This is Day 1 of the November 2023
12 Pesticide Program Dialogue Committee meeting. My
13 name is Jeffrey Chang, Designated Federal Official
14 for the PPDC and moderator for the next two days.

15 This is our first ever public hybrid
16 meeting where some members of the PPDC are joining
17 virtually. Members of the public are also able to
18 view this meeting through the Zoom link that was
19 posted on our website.

20 If technical issues do arise, please bear
21 with us. If you have any technical questions,
22 please email Michelle Arling at Arling.Michelle@
23 EPA.gov. That's A-R-L-I-N-G.M-I-C-H-E-L-L-E
24 @EPA.gov, or call Michelle at (202)566-1260.

25 Accommodations, ASL and CART and

1 translation services are available virtually and in
2 the room.

3 In just a moment, I'll pass over to EPA
4 Director of the Office of Pesticide Programs and
5 Chair of the PPDC, Ed Messina, to officially open
6 the meeting. But before I do that, I want to go
7 over some quick housekeeping items as we get started
8 today, starting with online instructions.

9 I want to draw your attention to the
10 interpretation on the bottom panel of your Zoom
11 window to the right of your screen.

12 Regardless...

13 (Spanish interpreter speaking.)

14 JEFFREY CHANG: Regardless of your
15 preferred language, you need to click on the button
16 and select either English or Spanish and mute
17 original audio to be able to fully participate in
18 the meeting. This will place you in either the
19 Spanish or English channel and as we anticipate a
20 bilingual meeting today, it is important that you
21 choose one of these channels.

22 For our Spanish-speaking colleagues, I
23 will now turn it over to our interpreter, who will
24 provide these instructions in Spanish in the main
25 channel.

1 (Spanish interpreter speaking.)

2 JEFFREY CHANG: Closed captioning and live
3 transcription is available to those who use the
4 service by clicking the closed captioning button in
5 the bottom panel of your Zoom screen.

6 We also have an ASL interpreter today and
7 a CART provider. These services can also be
8 accessed through the interpretation button used to
9 select Spanish translation.

10 The following instructions are for those
11 who are attending the meeting in person.
12 Translation services can be requested in the back of
13 the room. Headsets are available for those who need
14 them. There is an ASL interpreter on the screen.
15 Headsets are available for those who are hard of
16 hearing. Please see Michelle.

17 If you're a member of the public, unless
18 you indicated interest in providing oral comments
19 when you registered for today's public meeting, you
20 will be in listening mode for the duration of the
21 event. If you did not pre-register for comment, you
22 may still email Michelle Arling or use the raise
23 hand feature once we come to the public period at
24 the end of the day and we will do our best to
25 recognize you during the public comment sessions on

1 each day of the meeting, after we recognize those
2 who signed up to make public comments in advance.

3 Virtual PPDC and workgroup chairs are
4 designated as panelists in Zoom, meaning that they
5 can request to be recognized during the discussion
6 session by using the raise hand function and can
7 unmute themselves and activate their webcams after
8 being called upon. It is very important that you
9 remain muted with your webcam off unless you are
10 recognized to speak.

11 Today's meeting is being recorded for the
12 purpose of having meeting transcripts produced. We
13 ask that all presenters speak slowly and clearly to
14 ensure that everyone can understand and participate
15 fully in the meeting. Conversations should take
16 place orally. The chat function should be used only
17 to contact the meeting host.

18 Here is some conference center
19 information. Restrooms are in the back of the
20 conference center. There's a water-filling station
21 in the pantry; also near the restrooms. Please
22 don't leave the conference room without an EPA
23 escort. The Great Lakes Room is available for you
24 to step out and make a call and the Boston Room is
25 available for PPDC members only.

1 With that, I will now give it over to Ed
2 Messina to officiate the official welcome.

3 WELCOME

4 ED MESSINA: Thanks, Jeffrey. Can folks
5 hear me okay with this?

6 All right. Well, thank you, Jeffrey.
7 Jeffrey is our Designated Federal Official for PPDC,
8 and he and Michelle did an amazing job of actually
9 getting all the logistics of having people here. I
10 think it's unfair to call us a hybrid meeting. I'm
11 going to call us a mostly in-person meeting and bang
12 the gavel on that. And thanks to everyone
13 attending in person, making the trip -- I know many
14 of you came far away -- and thanks for the folks who
15 are online as well and we're hoping to make your
16 experience a good one.

17 I think it's only fitting that we're in
18 the Ruckelshaus Conference Center. Ruckelshaus was
19 the first EPA administrator and he outlined sort of
20 our three main priorities for EPA. And he said, we
21 have to follow the law, we have to follow the
22 science, and we have to be transparent when we're
23 doing it.

24 And I think today is a great statement
25 about transparency. We have members from, you know,

1 various organizations, industry, nonprofit
2 organizations, university, and many other
3 associations who represent the broad swath of
4 stakeholders that care about the work that we're
5 doing and we appreciate that you are here to hear
6 about what we've been doing and also have a
7 conversation about what we can do better.

8 So later on, I'll have a presentation and
9 I'll walk through a little bit of the agenda and
10 some of the presentations we have in store for you.
11 Input from the PPDC members was sought in putting
12 this agenda together. So I would congratulate you
13 guys on a great agenda and look forward to a
14 wonderful meeting.

15 As Jeffrey has covered, we have a pretty
16 full agenda today and tomorrow. I'm going to talk a
17 little bit about the PPDC and the charter and what
18 we're here to do today, to sort of welcome some new
19 members to the group as well and welcome back some
20 existing members.

21 So first, let me refresh everyone on what
22 the Pesticide Program Dialogue Committee is
23 chartered to do. So PPDC is a Federal Advisory
24 Committee. It was formed in 1995 under the Federal
25 Advisory Committee Act, or what we refer to as FACA,

1 which Congress passed in 1972 to create an orderly
2 procedure by which federal agencies can seek
3 collective advice from diverse customers, partners,
4 and stakeholders. FACA establishes procedures for
5 the management of Federal Advisory Committees,
6 ensures transparency of Advisory Committee decision-
7 making, and ensures balanced representation.

8 PPDC supports the EPA in performing its
9 duties and responsibilities under the Federal
10 Insecticide, Fungicide, and Rodenticide Act, the
11 Federal Food, Drug, and Cosmetic Act, the amendments
12 to both of these, major pesticide statutes by the
13 Food Quality Protection Act of 1996 and the
14 Pesticide Regulatory Improvement Act.

15 This is directly from the charter,
16 Objective and Scope of Activities. The EPA's Office
17 of Pesticide Programs is entrusted with the
18 important responsibilities of ensuring that
19 Americans are not exposed to unsafe levels of
20 pesticides in foods, protecting Americans from
21 unreasonable risk, educating pesticide applicators
22 and others who may be exposed to pesticides, and
23 protecting the environment, special ecosystems, and
24 wildlife from potential risks to pesticides.

25 The PPDC is a policy-oriented committee

1 that will provide policy advice, information and
2 recommendations to the EPA. The PPDC will provide a
3 cooperative public forum to collaboratively discuss
4 a wide variety of pesticide regulatory development
5 and reform initiatives involving public policy and
6 program implementation issues, policy issues
7 associated with evaluating and the reduction of
8 pesticide use. These evolving policy issues may
9 include OPP's work to environmental justice, climate
10 change, and pollinator and imperiled species.

11 With this background from the charter in
12 mind, I want to give you a bit of background on the
13 workgroup updates that you will hear today and
14 tomorrow as a refresher for those who are familiar
15 with the workgroups and as an introduction for those
16 who are not familiar with sort of the workgroup
17 structure.

18 So workgroups are sometimes formed to
19 assist this FACA, the Federal Advisory Committee,
20 with research, information gathering, and
21 documenting and drafting support documents for the
22 committee's consideration and duties. As outlined
23 in the PPDC charter, workgroups and subcommittees
24 are formed by either EPA or with EPA's approval for
25 any purpose consistent with the charter. Such

1 subcommittees or workgroups may not work
2 independently of the chartered committee and must
3 report their recommendations and advice to the
4 chartered PPDC for full deliberation and discussion.

5 Subcommittees or workgroups have no
6 authority to make decisions on behalf of the
7 chartered committee, nor can they report directly to
8 EPA. And as a reminder, four PPDC workgroups were
9 formed in 2020 and started working late in 2020.
10 The groups explored charge questions on topics of
11 emerging viral pathogens, emerging agricultural
12 technologies, farmworker and clinician training, and
13 pesticide resistance management. These are all
14 pressing issues for the Office of Pesticide Programs
15 and we are continuing to develop practical and
16 protective approaches that work with our
17 stakeholders based on some of the recommendations
18 that were brought from these subcommittees and
19 through the PPDC larger committee.

20 At the PPDC meeting in October of 2021,
21 four PPDC workgroups reported out on the work they
22 had done over the preceding year to address the
23 various charge questions that were asked. The
24 workgroups also submitted recommendations to the
25 PPDC, which the PPDC discussed and sent forward as

1 full recommendations to the agency.

2 And the reports and the presentations,
3 like all of the material for this session at all
4 past PPDCs, is on our website, including full
5 transcripts of everything that was discussed during
6 the meeting.

7 Then during the Spring 2022 meeting, two
8 additional workgroups were suggested, one focusing
9 on environmental justice and the other focused on
10 new approach methods or NAMs, and one focused on
11 integrated pest management related to environmental
12 justice, climate change, and biodiversity. So many
13 of these workgroups were not formed, although they
14 were discussed. The PPDC voted to continue the
15 activities of the Emerging Viral Pathogens Workgroup
16 under a new charge as the Emerging Viral Pathogen
17 Implementation Committee, or EPIC, and the Emerging
18 Technologies Workgroup was set under a new set of
19 charge questions.

20 And then, finally, at the most recent and
21 last PPDC meeting, the PPDC accepted recommendations
22 from the Emerging Technologies Workgroup and voted
23 to form two new workgroups. The Resistance
24 Management Workgroup Number 2 was formed to handle
25 three charge topics that came out of the original

1 Resistance Management Workgroup and the second
2 workgroup was the Label Reform Workgroup. This
3 means that PPDC currently has three active
4 workgroups: The Label Reform Workgroup, the
5 Resistance Management Workgroup Number 2, and the
6 Emerging Pathogens Implementation Committee.

7 The Label Reform Workgroup will give an
8 update to the PPDC on their progress after lunch
9 today. That session will also include the
10 introduction of an EPA white paper on digital
11 labeling, which dovetails with the workgroup
12 charges.

13 And EPIC is the next session and that will
14 talk about resistance management and they will give
15 an update tomorrow morning. And then each session
16 will be followed by a discussion amongst the whole
17 PPDC, and we welcome active member engagement and
18 direction to the workgroups. This is a discussion
19 facilitated by me, the Chair, but really this is
20 your discussion and I will sit back and enjoy that
21 discussion as it progresses.

22 In addition to the workgroup updates, we
23 have interesting sessions over the next two days,
24 again, based on input from the PPDC members. We're
25 going to start off with the presentation from the

1 work that OPP has done this past year with regard to
2 science and technology and all the various
3 deliverables we had last year and sort of what we
4 see happening over the next year, and that will
5 follow also another discussion open to this group,
6 if you'd like to discuss anything that OPP has done
7 in this past year and reflect upon that and provide
8 advice.

9 It is not a Q&A session, but it's more a
10 discussion for you to sort of set the stage for what
11 OPP has been doing this past year and really give
12 you as deep of an understanding as we can for all
13 the great work. And then I hope after hearing about
14 OPP's accomplishments, PPDC members will provide
15 feedback that will OPP chart a path forward.

16 The other thing is, in addition to the
17 workgroup updates and the Office of Pesticide
18 Programs' updates, we're going to share some updates
19 on recently announced science policies related to
20 the Endocrine Disruptor Screening Program, another
21 science first that occurred last year, and then
22 we'll also provide updates and hear stakeholder
23 perspectives on environmental justice, endangered
24 species activities, and engage in discussion with
25 the PPDC again after those topics are presented.

1 We have some outside speakers as well, in
2 addition to EPA speakers to provide different
3 perspective for the PPDC members.

4 So I'm really personally happy to be in
5 person. I enjoy it. It is great to see people and
6 look people in the eye instead of the little square
7 boxes that we're so used to nowadays. So I'm
8 definitely interested in talking to folks after the
9 meeting as well and offline. Hit me up with any
10 questions you may have.

11 Also, the PPDC really has a history over
12 these many, many years of engaging in open dialogues
13 and respectfully sharing different opinions with the
14 goal of really working together as a committee and
15 providing advice to EPA, and we are confident that
16 the meeting today and tomorrow will result in really
17 helpful feedback for us as it has in the past with
18 many of the recommendations that were made by the
19 subgroups.

20 And, now, in concluding my remarks, we'll
21 turn to the member introductions. I'll hand it over
22 to Jeffrey and acknowledge that this is the last
23 meeting for some of our members who have sort of
24 termed out. And thank you for your many years of
25 service and we have many new members joining and I'm

1 really looking forward to meeting some of the new
2 members as well.

3 So for those of you who have been here for
4 a while, thank you so much for your service. Those
5 who are continuing, thank you for your continued
6 service. And to the new members, welcome.

7 So now, I will hand over to Jeffrey.

8 PPDC MEMBER INTRODUCTIONS

9 JEFFREY CHANGE: Thank you, Ed.

10 Now, I will roll call numbers of the PPDC.

11 I will call these in alphabetical order by first
12 name. The list of members will be shown on the
13 screen. Those who have an asterisk next to their
14 name are departing members. We thank you for your
15 service.

16 When I call your name, please unmute your
17 microphone and tell us your name, role, the
18 organization or group you represent and their
19 mission. And as a reminder, please mute your
20 microphone when you are finished.

21 The first name I will call is Alexis
22 Temkin.

23 ALEXIS TEMKIN: Hi, my name is Alexis
24 Temkin. I am a senior toxicologist with the
25 Environmental Working Group, proudly working on

1 pesticide toxicity to ensure safe use of pesticides
2 for public health protection and the environment.

3 Happy to be here.

4 JEFFREY CHANG: Amy Asmus.

5 AMY ASMUS: Hi, I'm Amy Asmus. I am from
6 Asmus Farm Supply where my team and I advise growers
7 in production of corn and soybeans. I represent the
8 Weed Science Society here on PPDC. Thank you.

9 JEFFREY CHANG: Anastasia Swearingen.

10 ANASTASIA SWEARINGEN: Hi, I'm Anastasia
11 Swearingen and I am the Executive Director at the
12 American Chemistry Council Center for Biocide
13 Chemistries, and so our mission is to preserve and
14 promote the use of antimicrobial chemistries. And I
15 guess I'm a continuing member of the PPDC.

16 JEFFREY CHANG: Aaron Lloyd.

17 (No response.)

18 JEFFREY CHANG: Becca Berkey.

19 BECCA BERKEY: Hi, I'm Becca Berkey. I am
20 at Northeastern University in Boston, Massachusetts,
21 but here representing a coalition of Coming Clean,
22 the Farmworker Health and Justice Team, which works
23 for better working conditions, stronger health and
24 safety regulations, and reduced toxic chemical
25 exposures for farmworkers specifically.

1 JEFFREY CHANG: Bob Mann.

2 BOB MANN: Good morning, I'm Bob Mann with
3 the National Association of Landscape Professionals.
4 Great to see all of you this morning.

5 JEFFREY CHANG: Caleb Ragland.

6 (No response.)

7 JEFFREY CHANG: Cameron Douglass.

8 CAMERON DOUGLASS: Hi, good morning.

9 Thanks for allowing me to participate virtually.
10 I'm with USDA's Office of Pest Management Policy and
11 our mission is to represent the views of specialty
12 and minor crop producers and other growers as part
13 of the registration process.

14 JEFFREY CHANG: Charlotte Liang.

15 CHARLOTTE LIANG: Good morning, everyone.
16 I'm Charlotte Liang. I am a chemist with the U.S.
17 Food and Drug Administration, Center for Food Safety
18 and Applied Nutrition, Office of Food Safety. Our
19 mission is to protect and promote public health. We
20 monitor pesticide residues in food and enforce EPA's
21 pesticide tolerances. Thank you.

22 JEFFREY CHANG: Charlotte Sanson.

23 CHARLOTTE SANSON: Yes, hi, thanks. I'm
24 Charlotte Sanson. I'm head of North America
25 Regulatory Affairs and Sustainability for ADAMA, and

1 I'm located in Raleigh, North Carolina. I represent
2 the registrant community for conventional crop
3 protection, and our mission is to provide crop
4 protection solutions for the grower community.
5 Thank you.

6 JEFFREY CHANG: Damon Reabe.

7 DAMON REABE: Hi, I'm Damon Reabe. I'm an
8 aerial applicator from Wisconsin here representing
9 the National Agricultural Aviation Association.

10 JEFFREY CHANG: Dave Tamayo.

11 (No response.)

12 JEFFREY CHANG: David Shaw.

13 DAVID SHAW: Good morning, I'm David Shaw,
14 and I am from Mississippi State University. I am
15 the past President of the Weed Science Society of
16 America and also the past Chair of its Herbicide
17 Resistance Education Committee.

18 JEFFREY CHANG: Dawn Gouge.

19 DAWN GOUGE: Good morning, everybody. I'm
20 Dawn Gouge. I work for the University of Arizona.
21 I'm a medical entomologist and IPM specialist. I'm
22 here representing the National Environmental Health
23 Association today. My personal goal in all that I
24 do in work is to improve human health and wellness.
25 Thank you.

1 JEFFREY CHANG: Dominic LaJoie.

2 DOMINIC LAJOIE: Good morning, everybody.
3 My name's Dominic LaJoie. I'm a potato farmer from
4 the State of Maine, and I'm here representing the
5 National Potato Council.

6 JEFFREY CHANG: Gary Prescher.

7 GARY PRESCHER: Good morning, everyone.
8 I'm Gary Prescher and I am from -- I'm a farmer from
9 Minnesota, and I am representing the National Corn
10 Growers Organization.

11 JEFFREY CHANG: Gretchen Paluch.

12 GRETCHEN PALUCH: Good morning. I'm
13 Gretchen Paluch and I'm the Pesticide Bureau Chief
14 at the Iowa Department of Agriculture and Land
15 Stewardship. I am representing the American
16 Association of Pest Control Officials. Thank you.

17 JEFFREY CHANG: Jasmine Brown.

18 (No response.)

19 JEFFREY CHANG: Jessica Ponder.

20 (No response).

21 JEFFREY CHANG: Jim Fredericks.

22 (No response.)

23 JEFFREY CHANG: Joseph Grzywacz.

24 JOSEPH GRZYWACZ: Hi, my name is Joe
25 Grzywacz. I'm at San Jose State University and I

1 represent essentially public health, related
2 research, and health outreach, particularly to the
3 agriculture workforce.

4 JEFFREY CHANG: John Wise.

5 JOHN WISE: Hi, I'm John Wise, Professor
6 of Entomology, Michigan State University. I've
7 worked with fruit growers for over 30 years helping
8 address pest management problems and I also work
9 with the IR-4 Project that assists in delivering new
10 product labels for specialty crop growers. Thank
11 you, everybody.

12 JEFFREY CHANG: Karen Reardon.

13 KAREN REARDON: Good morning, everybody.
14 I'm Karen Reardon with Responsible Industry for a
15 Sound Environment here in Arlington, Virginia, and
16 our association represents the companies providing
17 pest control solutions into nonagricultural
18 settings.

19 JEFFREY CHANG: Keith Jones.

20 KEITH JONES: Good morning. I'm Keith
21 Jones. I'm with BPIA, the Biological Products
22 Industry Alliance. We represent the biopesticide
23 industry.

24 JEFFREY CHANG: Lisa Dreilinger.

25 LISA DREILINGER: Hi, good morning. Lisa

1 Dreilinger, Global VP of Regulatory and
2 Digitalization at Arxada, and Arxada is about better
3 science to solve the world's toughest preservation
4 challenges.

5 JEFFREY CHANG: Mano Basu.

6 (No response.)

7 JEFFREY CHANG: Marc Lame.

8 MARC LAME: Hi, I'm Marc Lame. I'm with
9 the Indiana University. I represent public
10 universities. I am an IPM specialist, an
11 entomologist, and my overall goal is to use
12 integrated pest management to enhance efforts to
13 address environmental justice, biodiversity, and
14 global climate change.

15 JEFFREY CHANG: Mark Johnson.

16 MARK JOHNSON: Good morning, I'm Mark
17 Johnson, representing the 20,000 members of the Golf
18 Course Superintendents' Association of America, and
19 I am the Director of Environmental Programs. Our
20 mission at GCSA is dedicated to serving its members,
21 advancing their profession, improving communities
22 through the enjoyment, growth, and vitality of the
23 game of golf, and essentially that represents more
24 than 2 million acres of the golf course footprint in
25 the United States alone.

1 It's been a pleasure serving on this
2 committee and thank you.

3 JEFFREY CHANG: Mayra Reiter.

4 MAYRA REITER: Good morning. I am Mayra
5 Reiter with Farmworker Justice. Our mission is to
6 empower farmworkers, to improve their living and
7 working conditions, immigration status, occupational
8 safety, health, and access to justice. And it's
9 great to be here with you all today.

10 JEFFREY CHANG: Mily Trevino Saucedo.

11 MILY TREVINO SAUCEDA: Good morning, Mily
12 Trevino Saucedo. I represent Alianza Nacional de
13 Campesinas, which means the National Alliance of
14 Farmworker Women. And our mission is to unify the
15 struggle to promote farmworker women's leadership in
16 a national movement to create broader visibility and
17 advocate for changes to -- that ensures our human
18 rights.

19 One of our four priorities -- because we
20 have several -- is to call upon the elimination of
21 the use and misuse of pesticides and mobilize an
22 environmental justice. Our organization is
23 representing 15 community-based grassroots
24 organizations and we're in 20 different states
25 around the United States. Thank you.

1 JEFFREY CHANG: Nathan Donley.

2 NATHAN DONLEY: Hi, Nathan Donley here. I
3 am the Environmental Health Program Science Director
4 at the Center for Biological Diversity, and we work
5 to help protect people in the broader environment
6 from chemical toxins.

7 JEFFREY CHANG: Patrick Johnson.

8 PATRICK JOHNSON: Good morning. My name
9 is Patrick Johnson. I farm cotton, rice, corn, and
10 soybeans in Mississippi, and I'm representing the
11 National Cotton Council on the committee. Thank
12 you.

13 JEFFREY CHANG: Steven Bennett.

14 STEVEN BENNETT: Good morning. I'm Steven
15 Bennett with the Household and Commercial Products
16 Association. I'm pleased to be here, first time in
17 person in a while and also sad that this is my last
18 meeting as a member. I work for an association that
19 represents companies in the consumer space that
20 develops home pesticides and disinfectants.
21 Thank you.

22 JEFFREY CHANG: Walter Alarcon.

23 WALTER ALARCON: Good morning. My name is
24 Walter Alarcon. I am a research epidemiologist. I
25 work with CDC NIOSH, National Institute for

1 Occupational Safety and Health. I work with the
2 SENSOR Pesticides Program and our mission is to
3 track acute pesticide poisonings so we can identify
4 prevention factors. I'm glad to be here. Thank
5 you.

6 JEFFREY CHANG: Finally, Wendy Sue
7 Wheeler.

8 WENDY SUE WHEELER: My name is Wendy Sue
9 Wheeler. I'm the Director the Washington State
10 University Pesticide Resources and Education
11 Program. The organization that I represent is
12 AAPSE, the American Association of Pesticide Safety
13 Educators. AAPSE's mission is to enhance public
14 health and environment through involvement in
15 education, outreach, and research which directly
16 benefits pesticide managers, policymakers, and the
17 public for nearly 2 million people across the United
18 States. It's great to be here.

19 JEFFREY CHANG: Big thanks to the members
20 of the PPDC for being here today in person and
21 virtually and for your service to EPA. I'll hand it
22 back over to Ed to give an OPP update.

23 ED MESSINA: Thanks, Jeffrey. There were
24 too many asterisks on the slides. I'm sorry to see
25 many of you leaving. It's been great having you

1 serve.

2 All right. So we'll throw my slides up on
3 the screen and we'll go through basically what has
4 the Office of Pesticide Programs been doing for the
5 last year. We've got an hour and a half, I believe.
6 An hour with a half an hour discussion.

7 MICHELLE ARLING: Yes.

8 ED MESSINA: All right. So buckle up.
9 We've got a lot of slides, a lot of information
10 coming at you.

11 I'll wait until it goes into presentation
12 mode.

13 All right. If you don't know by now, I am
14 Ed Messina. I am the Director of the Pesticide
15 Programs here at OPP.

16 All right. So I'm going to give you some
17 organizational updates, who's in what chair, you
18 know, who has sort of moved around, an update on
19 FTEs and -- yeah, you might want to turn your chairs
20 around unless you are logged in, I guess. It's like
21 you guys have the front row to the movie theater.
22 Sorry.

23 UNIDENTIFIED MALE: We need some bar
24 stools that --

25 ED MESSINA: Some bar stools, okay. We'll

1 take that as a note for the next PPDC.

2 We're going to talk about our OPP-wide
3 priorities, implementation of PRIA 5, which is a new
4 statute that passed last year and had a lot of
5 deliverables for OPP and we've been tracking those,
6 the FY23 highlights and accomplishments, some
7 process improvements. As folks know me, I'm a lean
8 advocate. I like to improve processes where I can,
9 and we did have a number of process improvement
10 activities we took on this year.

11 The digital transformation update, as
12 folks also know, OPP has been in the midst of trying
13 to upgrade our digital systems. I think the e-
14 labeling group is an example of maybe what we could
15 try to do with newer technology to help Office of
16 Pesticide Programs deliver better information to the
17 end user and better information to the public about
18 the availability of different pesticides.

19 We had some great crop tours this year.
20 We sent out a bunch of folks to learn from growers
21 in the field and really understand how pesticides
22 are being used and in farmworker committees as well.

23 And then I'll just wrap up with our '24
24 priorities, which will look very similar.

25 Okay. So this chart is designed to sort

1 of show you where folks are in the chart, but also
2 it's sort of a representation of how OPP does its
3 work.

4 As you know, on the right-hand side, we
5 have the science divisions, Health Effects Division
6 doing the human health risk assessments;
7 Environmental Fate and Effects Division doing our
8 environmental work and Endangered Species Act
9 activities; and then the Biological and Economic
10 Analysis Division, devoted to understanding the
11 benefits that pesticides bring to growers and users.
12 They are the advocate within the office to
13 understand how essential a particular pesticide may
14 be.

15 Those science divisions feed into the
16 left-hand side, the Registration Division and the
17 Pesticide Reevaluation Division that will take that
18 and make a risk management decision. It's
19 structured based on how the statutes ask us to do
20 those various things.

21 And then Antimicrobials and Biopesticides
22 do a lot of the science in-house as well and they
23 are responsible for, of course, the surface
24 disinfectants that we were pretty busy with
25 approving products for SARS-CoV2 disinfection on

1 surfaces. And then the Biopesticides and Pollution
2 Prevention Division, which has a lot of the
3 biologicals and genetics in that program as well.

4 Starting with the saddest news first,
5 Elissa Reaves, who I'm looking at right now, was
6 selected to be an Office Director in the Office of
7 Pollution Prevention and Toxics. So she's going to
8 go see if she can go run the TSCA toxics program or
9 TSCA as the statute. She's sitting in the back
10 there. So we are sad to lose her, but also very
11 proud of her accomplishments and looking forward to
12 working with her now as a copartner.

13 Tim Kiely will probably -- he's the Deputy
14 -- will be acting for a little bit while we put out
15 official announcements to seek both a temporary and
16 a permanent for that position.

17 Bill Smith, this year, moved -- working
18 upwards from the left in the Registration Division,
19 Billy Smith moved from the BPPD Division to RD. I
20 know Keith was sad about that, but he quickly got a
21 great new person to work with, Madison Le, who is
22 now the Director of the Biopesticides and Pollution
23 Prevention Division, and she's the Director there.

24 And then Anita Pease remains and has been
25 there all through COVID, the Antimicrobials Division

1 Director. And then on the right-hand side, Dana
2 Vogel as the Director for the Health Effects
3 Division, and then Jan Matuszko as the permanent
4 Environmental Fate and Effects Division Director,
5 and then Anne Overstreet as the Biological and
6 Economic Analysis Division.

7 Mike, to my left, is the Deputy Office
8 Director for Programs. We did select a new acting
9 Deputy Director for Management. So that's someone
10 who deals with the budget and IT and HR, and that's
11 Leo Gueriguan. And then, of course, we have our
12 Science Advisors. Our Lead Science Advisor, Monique
13 Perron replaced Anna Lewitt, who also went over to
14 OPPT. It's not a trend, so don't worry.

15 And then Catherine Aubee was selected to
16 be a Senior Science Advisor for the Endocrine
17 Disruptor Screening Program. We had not had a
18 Science Advisor for that program, so I think that's
19 a commitment -- a renewed commitment of understand
20 the effects of endocrine -- endocrine effects for
21 certain pesticides.

22 And then Susan Jennings is our Senior
23 Advisor for Public Health. The antifungal framework
24 that came out this year that I'll talk a little bit
25 about was spearheaded by Susan Jennings.

1 And then, of course, we have the Endocrine
2 Disruptor Screening Program that came over to the
3 Office of Pesticide Programs from the reorganization
4 that occurred back in 2020-ish. So that sort of
5 completes the sort of overview of the office and who
6 is in the leadership chairs.

7 In terms of FTE, PRIA 5 did provide some
8 additional money for the organization, but it really
9 only replaced the money that had been being used
10 from the bank account, that had been stored up from
11 FIFRA fees. So it wasn't -- although it was an
12 increase in funding, it wasn't sort of an actual
13 increase in funding. So the good news is without
14 that funding OPP would have probably dipped to
15 around 400 FTE, the lowest it had ever seen. You
16 can see, you know, back in the 2000s, we were about
17 800 staff and now we're hovering at 500 and change.
18 Without the PRIA 5 influx of fees, we would have
19 dipped to about 400 staff. So with new PRIA 5
20 passage, we were able to maintain a level sort of
21 status with our FTE.

22 We hired -- we went on a -- with the new
23 money, we were aggressively hiring. We hired 40 new
24 people into the Office of Pesticide Programs. I
25 know the PRIA Coalition was really interested in

1 making sure we hired up with that money, and then we
2 lost 40 people last year. So the exact amount of
3 people that we hired left, but had we not hired, we
4 would be 40 people down and that would be, you know,
5 also painful. So, you know, every cloud has a
6 silver lining. There's a small silver lining there.

7 All right. So when I talk about the
8 Office of Pesticide Programs' priorities, I used to
9 talk about registration and registration review
10 being our top priority, right? Getting new active
11 ingredients into the hands of growers who need them.
12 Meeting our commitment to doing registration review.
13 The biggest priority this past year was implementing
14 all of the requirements that came about as part of
15 PRIA 5. And there were many, you know, 20 or so
16 different deliverables that I'll walk you through.

17 The other thing we're focused on is
18 Endangered Species Act efficiencies and progress on
19 meeting our Endangered Species Act obligations, lots
20 of activity there, and we're going to have a
21 separate session on that.

22 Implementing the agency's priorities,
23 environmental justice and climate change.

24 Advancing the state of the art of the
25 science, so as I mentioned, endocrine disrupting

1 screening. PFAS is another topic that's been coming
2 up. We've been focused on that. I've got some
3 information on that for you.

4 Nanotechnology, working on advancing, you
5 know, what is a nano particle, should that be
6 approved, what are the different science protocols,
7 or things we need to consider for particles that are
8 nano as part of pesticides. And new approach
9 methods, sort of replacing animal testing with
10 computational models in silica science.

11 Lots of rulemaking occurred, lots of
12 guidance documents got issued. I've got a
13 smattering of those. We had lots of litigation to
14 defend against and we settled a couple of cases this
15 year. That will put us on a trajectory for having
16 additional deliverables coming out in the future.

17 And then because we have, you know, the
18 greatest employees in the world, some of the -- you
19 know, I would say, the smartest people I have met --
20 you know, as I frequently say, my view of the
21 federal worker is very different from most. Most
22 everyone in OPP has an advanced degree or a PhD and
23 they are, you know, experts in the world and they
24 are sought out from other countries to talk about
25 the work that they do, entomologists, biologists,

1 you know, weed scientists, it runs the gamut. And
2 so we make sure that we're meeting their demands
3 through our employee experience and also the digital
4 transformation.

5 All right. So this is what PRIA 5 did.
6 It increased about \$11 million in maintenance fees.
7 We had collected on average about \$31 million. Now,
8 this year, it's \$42 million that we collected.

9 There was also an across-the-board 30
10 percent increase for the pesticide registration
11 service fees. We projected a \$3 million increase in
12 2023. We didn't realize that, actually, and we're
13 expecting a \$6 million increase for '24 up to 26
14 million. Again, that could be less.

15 So overall, the fee part of our money that
16 we get represents a third of our money. So we get
17 -- a third of our budget is from fees that we
18 collect from those two sources and two-thirds is
19 from the appropriations. And, again, the
20 maintenance fees last year were 40 million. The
21 registration fees were actually only 20 million. So
22 they were lower than the \$23 million anticipated,
23 which impacted, again, our ability to sort of hire
24 up because, you know, we didn't see that money.

25 PIRA5 also asked Congress -- there is a

1 trigger in PRIA that says you can't access these
2 fees unless you also meet your minimum appropriation
3 threshold, Congress, and that minimum appropriate
4 threshold that the PRIA Coalition suggests was 166
5 million. Congress only allocated 138 million and
6 what Congress does each year is they say, yep, we
7 know about that provision, we're giving ourselves a
8 waiver and we're not going to meet the 166 million.

9 So some of what, you know, was expected as
10 part of PRIA 5 increases were not realized as part
11 of the appropriation, and the fees that were
12 increased really just supplanted the surplus that
13 had existed in the spend-down plan. So essentially
14 it was, you know, increased money, but it was a flat
15 line for actual money received to the agency between
16 sort of '22 to '23.

17 All right. So along with the money, there
18 were set-asides for which the agency was required to
19 use that money for. They were set-asides for us to
20 address what are called, you know, non-PRIAs or non-
21 fee regulatory actions to reduce the backlog. We
22 have focused and spent money on reducing the PRIA
23 backlog -- the non-PRIA backlog, as they're referred
24 to, and we've had some success this past year and
25 we're looking to continue that success in '23 and

1 '24 to reduce the non-PRIA backlog.

2 There was lots of great money given to --
3 for pesticide safety grants, including farmworker
4 training and education, healthcare provider
5 training, partnership grants, and pesticide safety
6 education programs that were previously funded by
7 PRIA fees. These are now funded by the FIFRA fees.
8 And then technical assistance grants as well.

9 There was set-asides to develop test
10 methods for antimicrobial devices; set-asides for
11 the Vector Expedited Review Voucher Program, which
12 I'll talk a little bit about later; set-asides for a
13 Pesticide Surveillance Program; funding for
14 interagency agreements with CDC and NIOSH to collect
15 pesticide incident data and display that data, and
16 we did that this past year, we opened up all of our
17 pesticide incident data to the public; set-asides
18 for training and set-asides for PRIA -- similar to
19 PRIA4, for good laboratory practice inspections,
20 making sure that the labs that are doing those
21 studies are doing those studies in a way that has
22 good protocols and is -- we have the confidence in
23 the studies that are being submitted.

24 So the set-asides totaled about \$10
25 million. So you see that \$11 million increase. \$10

1 million is going to the set-asides, which includes
2 these topics. And there had been set-asides in the
3 past, so the set-asides represent an increase of
4 \$3.6 million of the 11 million. But, in general, we
5 spend about \$10 million to provide programs to
6 farmworkers and training and other programs. So
7 we're pretty proud about that work.

8 So along with the money came some
9 deliverables and requests in PRIA 5. A requirement
10 that the pesticide labels be bilingual and in
11 Spanish, I think a great success. We had had some
12 early successes in that program by publishing the
13 Spanish translation guide for people to voluntarily
14 use and to have labels be translated in Spanish and
15 now it is a requirement in the statute. So that's a
16 great thing and we're continuing to move forward on
17 that. We had lots of stakeholder engagement
18 sessions this past year, including with states, to
19 ensure that we're implementing on a schedule the
20 translation of pesticide labels into Spanish.

21 We were required to provide an Endangered
22 Species Act guidance to registrants. There were
23 some PRIA process improvement requirements,
24 including how we change the way we're renegotiating
25 provisions or submissions that come in. There were

1 requirements to do the IT upgrades on a schedule;
2 requirements for a centralized posting for guidance
3 and pesticide-related resources; a posting of data
4 evaluation records for PRIA actions; conducting an
5 audit of OPP processes and workflows and workforce.

6 There were some provisions that
7 fortunately this week we don't need to worry about
8 but maybe in the future that are required that the
9 agency, at least, have a certain amount of footprint
10 when there was a government shutdown, accessing
11 fees during that time of shutdown. So we haven't
12 had to activate that, but those provisions are now
13 in PRIA 5.

14 The other thing that the PRIA 5 did, along
15 with the omnibus bill that was passed at the time,
16 was it extended the registration review deadline
17 from 2022 to 2026. So we have a little more time to
18 complete the registration review decision actions
19 and I've got some metrics on that for you later, and
20 then lots of reports to Congress for how we're
21 meeting our metrics.

22 So how did we do? We scored 100 percent.
23 We didn't miss a single deadline in PRIA 5. We
24 delivered everything that was required. In fact,
25 for the digital transformation, we did that three

1 months earlier than was required. So we're pretty
2 proud about the work that we've done under PRIA 5.
3 There's still some deliverables that are coming up
4 in the near future that are going to be a little
5 challenging. So I'm going to take my A this year
6 and we'll see. Hopefully, it will be a B-plus and
7 A-minus next year, because there's a couple that are
8 a little hard to meet.

9 But we implemented a new framework for
10 renegotiating PRIA applications. We began efforts
11 to reduce the non-PRIA backlog. I've got some
12 metrics on that. We did all the required sort of
13 outreach for bilingual labeling and we successfully
14 migrated all of the Office of Pesticide Programs
15 into the new Salesforce platform three months
16 earlier. The date was December and we did it by
17 September.

18 And then we're hoping to build on that.
19 There's a number of other digital transformation
20 deliverables in PRIA 5, like external facing
21 dashboards and the like, that we're working on.

22 We also centralized -- provided a central
23 webpage for guidance documents and links to
24 pesticide-related resources. We issued the
25 Endangered Species Act guidance to registrants, both

1 for new actives and new uses, and then we are on
2 target, the deadline is December and we're going to
3 meet that deadline, for putting out guidance on
4 what's called the Vector Expedited Review Voucher
5 Program, or VERV, which I'll talk a little bit about
6 later. I don't have a lot of time today.

7 And then we managed funding for the
8 Interagency SENSOR Program, one of those grants, we
9 issued that to Walter over there and got that out
10 the door.

11 And then we created a centralized website.
12 You can scan the QR code that is appearing on your
13 screen. Oh, I didn't advance, so let me catch up.

14 You can scan the QR code and we devoted an
15 entire website to what are the requirements for PRIA
16 5 -- and everyone will have these slides as well for
17 taking home and they'll be on the PPDC website. So
18 we have a QR code you can scan and see what are the
19 deliverables in PRIA 5 and how did we do. And so
20 each time we check something off, we'll post
21 something on the PRIA 5 website to keep people
22 informed about our progress.

23 All right. So how did we do last year?
24 In general, we got about 10,000 submissions for PRIA
25 via our portal -- there we go. We got about 10,000

1 submissions to our portal. We had 8,000 PRIA and
2 non-PRIA actions completed. So my talking point
3 still holds. Each year, we get a record of
4 requests, we complete a record number of decisions,
5 and we have a record backlog. All three of those
6 things remain true this year.

7 And we registered 20 new active
8 ingredients, providing new tools for growers. We
9 issued 23 Section 18 emergency exemptions requested
10 by the states for Wolbachia to control avian malaria
11 in Hawaii. That was a pretty cool project. Malaria
12 is impacted endangered birds in Hawaii and Wolbachia
13 was used to suppress mosquito populations to reduce
14 the transmission of malaria by the culex mosquito,
15 and it is an example of where pesticides can
16 actually be used to help endangered species. So
17 that was a Section 18 request from State of Hawaii,
18 and then other invasive species that have popped --
19 invasive pests that were -- needed Section 18s.

20 We did 40 products submitted by EPA
21 regional offices for enforcement cases. So where
22 there's an enforcement case and we need to -- we're
23 the ones who can kind of read the label and say,
24 yeah, this is what this means and we did 40 case
25 reviews for supporting the regions and the states

1 and sampling as well, testing samples for states as
2 part of their enforcement to ensure that the
3 Pesticide Program is being implemented appropriately
4 across the country.

5 Last year, we had 96 press releases. So
6 you think about, you know, something rising to the
7 level of press release, getting an OPP update, we
8 had 96 of those. That's a pretty large body of
9 work. I went to a couple of state meetings and one
10 of the states says, can you guys slow down, you
11 know, we're -- because a lot of things we were
12 putting out, we were being transparent and we were
13 putting them out for public comment. So along with
14 those, you know, OPP updates came a request for
15 stakeholders to say here's our science, what do you
16 think, please provide us comments. So that almost
17 100 of those pretty big ticket items.

18 And then for integrated pest management, I
19 know Mark is concerned about that, we had eight IPM
20 webinars and we reached 10,400 attendees and we
21 responded to about 2,800 calls and emails and
22 increased the IPM subscriber distribution list to
23 about 38,000 subscribers, so making contacts with
24 those particular folks that are interested in IPM.

25 Just to give you a graphic of, you know,

1 what 96 represents, it wasn't a record. COVID year
2 had the biggest record, 99. I'm not sure why we
3 didn't just issue one more to get to 100, but we
4 were at 99. On average, we do about 50 or 60. So
5 it was a pretty banner year for OPP updates.

6 Okay. How are we doing on registration
7 review? As you know, our deadline now is 2026. We
8 have done 789 pesticide cases to review by that
9 deadline. We've done 717 draft risk assessments.
10 That represents a significant body of scientific
11 work. So we are 91 percent on the way there to
12 meeting the deadline for draft risk assessments. We
13 also did 680 proposed interim decisions. This is
14 where we take that science and propose mitigations
15 based on the new science that we look at. And then
16 we have 614 final or interim decisions, so we're
17 about 80 percent of the way there.

18 We also, as part of registration review,
19 want to make sure that those labels get updated. So
20 we've had a big effort to update. Once we put those
21 mitigations in place through that decision, we
22 approved about 680 labels last year with new
23 requirements and new mitigations in place.

24 All right. Some pretty big science things
25 happened last year, too. So we published our

1 Ethylene Oxide Proposed Interim Decision and Draft
2 Risk Assessment. Ethylene Oxide is used for
3 sterilizing medical equipment. It's used in those
4 purposes. It was pretty highly followed. In
5 combination with the Office of Air, we have been
6 trying to reduce the amount of EtO used while also
7 maintaining the effectiveness of sterilizing medical
8 equipment that is needed for, you know, transplants,
9 and any time you have a medical device that's put in
10 your body or a children's body, you know, for heart
11 valve, you want to make sure that it's sterile. So
12 we looked at risks associated with EtO and we issued
13 extensive comments received on the interim decision
14 and draft risk assessments.

15 A number of other notable chemicals this
16 year that received a registration review was DCPA.
17 We suspended that based on the failure of the
18 company-provided information to the agency. That
19 company has since provided that information and the
20 suspension was lifted and we continue to evaluate
21 DCPA for its human health impacts.

22 Pet collars containing TCVP, we had a
23 number of scientific work associated with that.
24 Seresto pet collars also received some extensive
25 treatment, in coordination with FDA on examining the

1 impacts of Seresto on pets. We put new mitigations
2 in place for that.

3 We provided early mitigations -- so
4 normally, we wait or the draft risk assessment and
5 the proposed interim decision. In looking at some
6 of the health -- human health issues that were
7 arising from organophosphates for Tribufos,
8 Diazinon, Phosmet, and Ethoprop, we pulled forward
9 some early mitigations for worker protections
10 related to the phosphates, these four.

11 We did Sulfuryl Fluoride, early
12 mitigations as well, and then we published the
13 Rodenticide Proposed Interim Decision, which
14 included four documents and 11 active ingredients
15 for rodenticides. We received extensive comments on
16 those particular proposals as well.

17 For Atrazine, we released the proposed
18 revisions to the interim decisions. During public
19 comment, we received a lot of comments from folks
20 that we should do a scientific advisory panel. For
21 those of you who are not aware, you know, if we have
22 novel questions of science, we can convene an
23 external panel of scientific experts. And so we
24 convened an external panel related to which studies
25 should be associated and considered as part of our

1 designation of what's called a CE-LOC related to
2 atrazine exposure in waterways. So that was a very
3 successful SAP and we expect to make a decision in
4 2024 around atrazine.

5 All right. Paraquat, this was something
6 that many people had interest in this year. So I've
7 got a couple of slides on this. So we initiated
8 registration review for Paraquat in 2011. In
9 October of 2019, we released the draft human health
10 and ecological risk assessment. And as part of the
11 registration review, the human health risk
12 assessment was developed to support the risk
13 management decisions for bystanders and for
14 agricultural workers for all labeled uses of
15 Paraquat.

16 And as many folks know, Paraquat is a
17 restricted-use pesticide. It is used to control
18 weeds and grasses with handling an application
19 intended only for certified applicators. It is one
20 of the most widely used pesticides in the U.S. and
21 the human health risk assessment involved the
22 evaluation of risks from dietary consumption of
23 food, from drinking water, in addition to spray
24 drift exposure, and exposure -- potential exposure
25 from bystanders and also for dermal and inhalation

1 exposures for agricultural workers. So we looked at
2 the full gamut of human health exposure for
3 Paraquat.

4 And we also recognized that guideline and
5 non-guideline studies in the toxicity databases that
6 exist that are used to select endpoints for Paraquat
7 represent really only a fraction of what's available
8 in the open literature.

9 You can see that on the database studies,
10 we had our own database studies, but we did an
11 extensive search, also, of open literature searches.
12 And so the -- what's available in the open
13 literature is that there are some public health
14 concerns revolving around the neurotoxicity and the
15 potential link of Paraquat to Parkinson's disease.
16 And I'm going to go into a little bit about the
17 science around that.

18 So we conducted a systematic review of the
19 data, and as a result of the systematic review of
20 the literature on Paraquat, end use and its relation
21 to Parkinson's disease, we also released in 2019, a
22 60-day public comment period for the feedback from
23 stakeholders on the data that we had. Again, we
24 follow the law, we follow the science, and we're
25 transparent about how we're doing that. So we

1 provided all of our studies and our analysis of the
2 studies related to Paraquat in 2019. And in that
3 60-day public comment period, we allowed for that
4 feedback and we received 73 public comments
5 regarding the scientific documents that were
6 received.

7 And while the comments varied in scope,
8 the major comments were related to concerns
9 associated around Paraquat and the use and
10 development of Parkinson's disease and other issues.

11 In October of 2020, as a result, we
12 released the Paraquat proposed interim decision and
13 an addendum to the Paraquat draft human health risk
14 assessment. And after reviewing the public comments
15 in the proposed interim decision, we released what's
16 called the Paraquat interim decision in July of
17 2021.

18 And so just to read people into some of
19 the data, as a major concern among the general
20 public was the uncertainty around the relationship
21 between exposure to Paraquat and the development of
22 Parkinson's disease. A methodological approach was
23 taken to comprehensively evaluate the available
24 studies in the open literature to inform EPA about
25 this relationship. The Parkinson's disease

1 systematic review consisted of collaboration with
2 experts from the National Toxicological Program to
3 develop a search strategy for screening the open
4 literature for human, animal, and in vitro
5 publications to evaluate the relationships between
6 Parkinson's disease using the weight of evidence.

7 The NTP is part of the National Institutes
8 of Health and so we consulted with the National
9 Institutes of Health related to Parkinson's. And
10 NTP's mission is to partner to build knowledge and
11 advance toxicological science to protect and promote
12 human health.

13 So the systematic review, for those of you
14 who don't know, is an investigative approach that
15 uses standard methods to collect, evaluate, and
16 integrate scientific information on a topic of
17 interest. Just over 7,000 publications were
18 screened as part of this collaboration.

19 Additionally, nearly 600 publications were screened
20 independently by EPA as part of a systematic review
21 of the epidemiological literature that investigated
22 the relationship between Paraquat exposure and any
23 adverse health outcomes.

24 The agency was transparent through the
25 entire process, including publishing the systematic

1 review document and addressing comments following
2 that 60-day public comment period. A total of 28,
3 217, and 244 human, animal, and in vitro studies,
4 respectively, were found relevant to evaluate the
5 association between Paraquat exposure and
6 Parkinson's disease, and all human subjects were
7 epidemiological in nature. Less weight was placed
8 on the in vitro studies as they primarily focused on
9 the underlying mechanistic processes behind the
10 biology of Parkinson's disease. However, they were
11 used to support findings in the whole animal studies
12 and human studies, and after an initial screen, you
13 can see here that 26, 11, and 34 human, animal, and
14 in vitro studies remained for further detailed
15 evaluation.

16 The studies identified for the systematic
17 review were evaluated for study quality, relevance
18 to human health, species tested, and routes of
19 administration. Some studies suggested possible
20 links between Paraquat and Parkinson's disease. All
21 epidemiological studies were considered, but
22 reported mixed findings and were limited in their
23 relevance to human exposure. The strengths and
24 limitations of each study were carefully considered
25 in its contribution to the weight of evidence.

1 Following the agency's 2019 systematic
2 review, an updated study of the agricultural health
3 study cohort was published in 2020, which reported
4 no association between Paraquat and Parkinson's
5 disease. So notably, this updated study did not
6 replicate the earlier 2011 finding using the same
7 AHS cohort, which suggested, at that time, a
8 potential association between Paraquat and
9 Parkinson's disease.

10 So as a result, using the weight of the
11 evidence approach, because of the mixed and
12 conflicting results across the evaluation studies,
13 the agency was unable to establish a clear cause-
14 and-effect link between Paraquat use and Parkinson's
15 disease, and that's where we are today.

16 We are continuing with our analysis and --
17 and just a reminder, that we've already put lots of
18 mitigation in place for Paraquat. So over the past
19 decade, we've completed two significant mitigation
20 decisions. The first was completed in 2016 and was
21 focused on preventing accidental ingestion of
22 Paraquat. With that decision, EPA limited Paraquat
23 use to certain applicators only, required Paraquat-
24 specific training for anyone using Paraquat,
25 required closed transfer systems, or what are called

1 non-bulk Paraquat -- on all non-bulk Paraquat
2 containers.

3 And then the good news is since that time,
4 there have been no reported deaths from Paraquat.
5 We had had, in the past, experienced poisonings from
6 Paraquat. Some of them were associated with
7 intentional use, but since that -- since we've put
8 those mitigations in place, we've had no acute
9 deaths from Paraquat.

10 The second major mitigation decision was
11 the registration review decision in 2021, and that
12 decision required additional mitigation measures to
13 address bystander and occupational risks. The ID
14 placed limits on aerial applications, imposed
15 mandatory spray drift control measures, required the
16 use of enclosed cabs, required additional personal
17 protective equipment, prohibited the use of handheld
18 application, and extended and restricted the
19 restricted entry intervals for several uses. All of
20 the mitigations required in 2016 and 2021 are now on
21 all of the labels.

22 All right. And then, lastly, just to give
23 you an update on where we are today, so even with
24 these mitigations, we understand that concerns
25 around adverse outcomes following Paraquat exposure

1 are still circulating among a number of stakeholders
2 and Paraquat is currently in litigation.

3 In September of 2021, several
4 nongovernmental organizations or environmental
5 governmental organizations -- nongovernmental
6 organizations, including the Michael J. Fox
7 Foundation and Earthjustice, filed a petition
8 challenging the interim decision. In November of
9 2022, both EPA and the petitioners agree to hold the
10 case in abeyance while EPA reviews the concerns
11 raised by the petitioners. As part of this
12 agreement, the draft document of the agency's
13 considerations will be published for public comment
14 by the end of January of 2024 with a final version
15 scheduled for January of 2025.

16 With the ongoing review of Paraquat, EPA
17 is committed to transparency in its decision-making
18 and to use the best available science, which
19 includes monitoring new and emerging studies in
20 order to remain informed about the potential for
21 adverse health outcomes and associations with
22 Paraquat related to Parkinson's disease.

23 And then so, for example, two
24 nongovernmental organizations have recently
25 submitted additional epidemiological and toxicity

1 information. That was published after EPA's 2019
2 systematic review for consideration by the agency,
3 which is -- continues to be under review by us.

4 And, also, we're aware of the private
5 litigation that exists amongst, you know, the tort
6 law, and EPA is not a party to any of those ongoing
7 proceedings. So we will -- stay tuned for
8 additional information related to the evaluation of
9 Paraquat, but currently the agency has found no
10 association with Paraquat use and Parkinson's
11 disease and no clear indications. But we'll
12 continue to review the data and the studies and put
13 that out for public comment and be transparent about
14 how we arrive at those decisions.

15 All right, next slide. Chlorpyrifos,
16 another pretty big case. So as folks know, who are
17 following this, very recently, in October, the
18 Eighth Circuit vacated our Final Rule revoking
19 chlorpyrifos tolerances. They remanded the rule
20 back to the agency to consider the record on
21 chlorpyrifos and determined whether any food uses
22 could be retained.

23 The mandate has not issued yet, and that's
24 just a normal process. First, the decision comes
25 out and then the Court's mandate, meaning it's sort

1 of active and it's a live order. And there wasn't
2 sort of a schedule associated that we sort of have
3 to consider it, but I understand that many folks are
4 interested in what the agency's, you know, going to
5 do with regard to chlorpyrifos given the Eighth
6 Circuit's decision.

7 As folks also know, the Ninth Circuit had
8 ruled and directed the agency to issue a final rule
9 revoking all tolerances for chlorpyrifos, or within
10 the 60 days that we had, make the safety finding.
11 And the safety finding at the time would have
12 included all uses of chlorpyrifos, for which we
13 could not make the safety finding. So in August of
14 2021, I signed the document that revoked all
15 tolerances for chlorpyrifos.

16 So we now had the Ninth Circuit decision,
17 which said, you know, revoke all tolerances or make
18 the safety finding in 60 days. We chose door number
19 one. And the Eighth Circuit said door number one
20 was arbitrary and capricious, and so we have to
21 consider the Court's new ruling in the Eighth
22 Circuit. So we're currently reviewing the decision.
23 Obviously, there's litigation associated and I don't
24 want to talk too much about it, but stay tuned.
25 We're, you know, working on it, digesting the

1 Court's decision related to chlorpyrifos and we
2 will, you know, provide guidance.

3 Currently, right now, all the final
4 cancellations related to -- and the return programs
5 remain in place. We haven't taken any action to
6 change that course.

7 All right. So really incredible news on
8 the C&T approvals. These are the state plans that
9 allow restricted use pesticides, you know, to be
10 used and all the training that occurs. We had the
11 2017 rule, which required that authorities in the
12 states submit revised plans. These revised plans
13 were designed to enhance the competency requirements
14 for those restricted use pesticide applicators.
15 They had new specialized categories, minimum age for
16 applicators, noncertified applicator qualifications
17 and supervisory requirements and then a
18 recertification requirement.

19 We were worried about meeting the deadline
20 and the deadline was extended as part of rule, but
21 November 3rd was the deadline and folks who were
22 tracking this -- we had developed a map of the
23 United States and the territories to show where
24 something was under review, where something was
25 planned, and we met the deadline for November 4th.

1 I mean, an incredible level of effort. And every
2 state and territory plan was approved successfully.
3 So we have new updated state plans for better
4 protections of the restricted use pesticide
5 applicators and better training for those folks that
6 are using restricted use pesticides. So that was
7 quite a lift last year.

8 Some of the other big-ticket items, we
9 registered two new conventional, new active
10 ingredients that went through Endangered Species Act
11 review, so showing that we can do ESA review for new
12 active ingredients. It did take a little bit
13 longer, but we got two of them out the door. We
14 have a proposed new pesticide product containing the
15 new active ingredient called Ledprona, which is a
16 novel pesticide for potato crops. It's a sprayable
17 RNAi, the first time in the world that something
18 like that was done, some incredible science around
19 that.

20 We registered a Lysol air sanitizer, a new
21 product to treat the air, not just the surface, but
22 to treat the air against bacteria and viruses, you
23 know, requiring new protocols and studies for
24 showing -- to demonstrate efficacy around that. So
25 it's the first antimicrobial product released that

1 is effective for use in the air, that can kill both
2 bacteria and viruses.

3 In terms of the raw numbers, I'll go over
4 these quickly, but I'll -- you know, for your later
5 reading information -- and I know folks like to know
6 the specific data around, you know, how -- comparing
7 year to year how we've been doing. RD had an
8 incredible year, you know, 800 PRIA actions, 1,100
9 new uses. Again, the 2,000 non-PRIA actions also
10 responded to and then the Section 18s, and then we
11 had -- RD had 10,000 submissions processed, and so
12 another sort of banner year for RD.

13 BPPD also completed a number of actions,
14 176 PRIA actions, 20 new active ingredients, and 3
15 new active ingredients completed without
16 renegotiation, and then 760 non-PRIA actions. So
17 the non-PRIA actions are getting done, even though
18 there is a backlog.

19 AD, very similarly, 335 PRIA actions,
20 1,000 PRIA and non-PRIA actions. They also
21 completed or closed out, as part of a process with
22 the companies, about 3,900 non-PRIAs. So there was
23 -- these were some of the PRIA actions that had been
24 on the books for a while. We allowed the
25 registrants to use -- to sort of go ahead with them

1 and we closed them out and we talked with the states
2 about the ones we were closing out.

3 On ESA, we have an upcoming discussion, so
4 I'll just -- the highlights from last year. We
5 issued the draft herbicide strategy, the draft
6 vulnerable species strategy. We had some really fun
7 interactive maps, if folks got a chance to look at
8 them, where, you know, the PULAs are there, and so
9 that was, you know, a lot of great activity there.

10 We issued the first nationwide --
11 implemented the BiOP for malathion, and then we
12 continued our Endangered Species Act biological
13 evaluations. We did ten pesticides last year. So a
14 lot of great work for ESA.

15 We also settled what was called
16 affectionately the "megasuit" for ESA. So in 2011,
17 the Center for Biological Diversity and Pesticide
18 Action Network filed a complaint in Federal Court in
19 California against EPA alleging it was violating ESA
20 when it registered or reevaluated and registered --
21 or reevaluated 382 pesticides. That number was
22 ultimately reduced about 35 active ingredients,
23 covering about 1,000 products.

24 And in September of 2023, we entered a
25 settlement to resolve those claims. And you'll see

1 that the settlement requires us to do some things
2 that we have done and also to continue to do
3 additional things.

4 So the agreement and the settlement
5 include developing mitigation measures for listed
6 species that are particularly vulnerable. So that's
7 the vulnerable species pilot. Develop an herbicide
8 strategy, which we released. Also coming to a
9 theater new to you is a rodenticide strategy, an
10 insecticide strategy and a fungicide strategy and
11 we're hoping to issue those in the coming months,
12 and the completing effects determinations for eight
13 organophosphates and four rodenticides as part of
14 the settlement.

15 And then CropLife, who are parties to the
16 settlement, agreed to host a workshop for
17 stakeholders to explore how to offset pesticide
18 impacts for ESA-listed species.

19 I'm going to roll through a number of
20 these slides, but I did want you to just see -- you
21 know, we are a science-based organization and I just
22 wanted you to see all of the science that was
23 occurring in OPP, in addition to kind of the
24 deliverables on the registration and registration
25 review.

1 So the proposed framework for
2 strengthening antimicrobial resistance framework was
3 issued; plant-incorporated protectors exemptions.
4 FDA and EPA discussions continue to occur related to
5 pet products and genetically engineered organisms
6 designed for pest control. We released ten years of
7 data related to pesticide incidents and we made
8 major updates to the list of pests of significant
9 health importance.

10 In this room, we hosted for the first time
11 outside of Europe the Joint FAO and WHO meeting on
12 Pesticide Residues. They accomplished quite a lot
13 in the harmonization of pesticide residues. The
14 team -- I'll tell you, the folks that were here
15 representing each individual country volunteering
16 their time, they worked through the evening, you
17 know, ordered pizza, and they worked through the
18 weekend. So I was really impressed with all the
19 volunteers from all the different countries. So we
20 had the honor for the first time that JMPR was
21 hosted outside of Europe and it was the first time
22 held in this room in the U.S. And a number of other
23 pretty big scientific meetings that occurred this
24 past year.

25 We released a Virucidal Claims Guidance,

1 Residual Claims Guidance, meaning products that have
2 a residual efficacy for surfaces. So we released
3 that guidance. Draft efficacy test methods and
4 guidance for Legionella disease in cooling towers;
5 Soft Surface Textile Guidance, so being able to
6 demonstrate that disinfection can occur on curtains
7 and carpet and couches, the first time we're moving
8 away from just hard surfaces. That was pretty
9 impressive.

10 And then the Emerging Viral Pathogen
11 Guidance, which really was born out of the PPDC,
12 that guidance came out of workgroup that said you
13 should have an emerging viral pathogen guidance, and
14 thanks heavens we did that because we activated it
15 for COVID and then very recently we also activated
16 it for outbreaks of Ebola and Marburg virus this
17 past year.

18 Pesticide-treated seeds, advanced proposed
19 notice of rulemaking, and mixture and synergy
20 petition response. We tested a number of PFAS --
21 pesticides for PFAS. We've developed additional
22 PFAS protocols for testing of pesticides and then we
23 completed consultation with another FACA, which is
24 the children's health and farmworker FACA and we
25 provided updates for how we're going to do our risk

1 assessments to take into account farmworker issues
2 and family take-home exposures related to
3 farmworkers that come into the home, and updated our
4 assessments. And then we coordinated with another
5 FACA called the NEJAC on the CHPAC youth and
6 agricultural consultation as well.

7 We got all the cooperative agreements out
8 the door, \$5 million for PERC and AFOP. We worked
9 on a proposed carcinogenic model for inorganic
10 arsenic. DCPA and TCVP, I mentioned earlier. I
11 mentioned the panel for Atrazine. We finalized
12 guidance on sampling biases, acute fish
13 retrospective manuscript, OECD paper, surface water
14 scenarios and then we collaborated with USDA on the
15 4th pollinator workshop.

16 The Human Studies Review Board, which
17 Michelle is our chair of, held seven meetings to
18 ensure that any scientific studies that involve
19 human test subjects are reviewed appropriately and
20 ethically and either allowed or not allowed to be
21 used by the agency where those ethical principles
22 are not upheld. So there were seven meetings -- is
23 that a record or -- it's a pretty big number. A
24 pretty big number, seven HSRBs, one of them for the
25 evaluation of formaldehyde, which we're doing a

1 joint interview with the Office of Pesticide
2 Programs -- with OPPT

3 All right. So EDSP, we're going to have
4 an entire session on this, but for the -- another
5 first for OPP, right? The first was really
6 incorporating ESA into our pesticide programs and
7 now another first, incorporating the potential
8 endocrine effects for pesticide products related to
9 impacts on the endocrine system, ARER, thyroid, and
10 steroidogenesis, sort of endocrine effects. So I'll
11 leave that for the future meeting.

12 We did some updates to the climate
13 adaptation plans. So remember, climate adaptation
14 plan is not climate, you know, prevention. It's
15 sort of how do we need to adapt to any changes of
16 climate related to pesticide applications. And so
17 Mike Goodis, to my left, worked on this as well. We
18 streamlined the process. We're considering the
19 impact on climate change and the resulting effects
20 on evolving pest complexes, such as the expanded
21 range of invasive or disease vectoring organisms,
22 shifting crop production patterns and risk
23 management options.

24 The plan has sort of three different
25 phases. FY23, we developed a plan; FY24, we're

1 looking at case studies; and then FY25 for broader
2 implementation.

3 We continue the work on environmental
4 justice. A lot of the PRIA 5 implementation,
5 related environmental justice, bilingual labeling
6 updates, worker protection updates. The
7 certification applicator's role is really related to
8 our EJ work, the EJ grants, PPDC farmworker
9 clinician training workshops, and then the WPS/AEZ
10 rulemaking, which should be coming out in the next
11 couple of months, sort of the status related to
12 that, and then seeking input on the farmworker
13 community.

14 These are some of the process
15 improvements. Just to let you know, they're still
16 going. RD did a pilot to reduce the non-PRIA
17 backlog, and by lean projects, you know, you're sort
18 of really looking at the process from soup to nuts.
19 You're engaging with staff to see about ways that
20 you can reduce the process time or waste in the
21 throughput system, and then you're really taking
22 measures and experts to really implement them.

23 All right, rounding home, the digital
24 transformation. So we continue with the digital
25 transformation. I am proud to show this is an

1 actual dashboard that we now have a window into the
2 data for the first time for the Registration
3 Division. So we're actually using data as an asset.
4 You know, when I talk about this, I talk about the
5 fact that as a science-based organization, every day
6 we're using data to make scientific decisions. We
7 need to use data to make decisions about the
8 workflow.

9 So first you got to collect it. You have
10 to have one truth into the data. So these are some
11 actual dashboards that we're starting to use with
12 some measures. We're able to use some lean concepts
13 in these data visualization dashboards to understand
14 where the bottlenecks are. So I am proud to
15 announce that RD and the other 450 OPP staff that
16 hadn't been in the system are now in it, so
17 including HED and BPPD and PRD and EFED.

18 We did have some front-end delays. So
19 this is the intake, the front end of where packages
20 come in. So we weren't talking with a lot of the
21 registrants and associations who are concerned about
22 some of the delays that were occurring for us even
23 receiving the packages.

24 It had somewhat of an impact, but not
25 really because we have enough work to do in the

1 current body of work that just because packages
2 aren't making their way to us isn't really slowing
3 any work down. There's certainly enough to do. But
4 we wanted to make sure that we were addressing
5 concerns about the front-end delays.

6 So we had a couple of shutdowns of our
7 server that handles the front end. We were down for
8 two weeks in June. We were down for another two
9 weeks in July and we were down for two weeks in
10 September. Part of the digital transformation
11 upgrade includes replacing the server to a newer one
12 with updated software and eventually potentially
13 moving that data to the cloud so we have some
14 redundancy so we're not relying on sort of one
15 system, right. We're relying on one server, which
16 is bad, and we're also relying on one person who
17 knows how to do this work.

18 In terms of lean, it is low-hanging fruit,
19 right. We need to fix that. We need multiple
20 points of entry, multiple windows into the data, and
21 multiple people who know how to move the data. But
22 we didn't really have that. We're working on that.

23 So we did have a backlog. From June to
24 October, we received 4,700 packages. Three thousand
25 were processed. So it's not like, you know, nothing

1 was moving, but about 1,600 remain, about 25 PRIA
2 and 75 non-PRIA. And I think the concern from
3 industry was they weren't getting their milestone
4 emails, right? It was sort of like, I submitted
5 something, I haven't heard that it's been received.
6 I know how stressful that can be when you've
7 submitted that back.

8 So we're continuing to work through the
9 backlog. This is a graphical representation of sort
10 of what that looks like. And you can see the gray
11 bar is the backlog sort of just increasing. We
12 haven't yet sort of bent the curve, as I say, you
13 know, so we'll see what November looks like. I'm
14 hoping that gray bar is slightly lower than October
15 and we've sort of crossed over the hump there.

16 So front-end delays, the other thing is
17 there's a website you can now look at for
18 registrants to determine whether the front end is
19 experiencing any delays and any sort of work we're
20 doing. So when you click on that link to the slide,
21 you can find some information on that.

22 All right. And then the last two topics,
23 digital label, we issued a white paper in keeping
24 with our 96 OPP press releases. We're trending in
25 that direction at least for the beginning part of

1 this year. We have a white paper that we released
2 and the digital labeling folks are going to walk you
3 through that.

4 And then, lastly, crop tours, we like to
5 get out to visit our counterparts and growers. We
6 received requests from 24 grower groups and
7 registrants to come visit, crop tours; 19 actual
8 invitations were received. We were only able to
9 accommodate 15 crop tours. But based on those 15
10 crop tours, about 200 OPP staff, including our
11 Deputy Assistant Administrator, I went on a couple
12 of crop tours, our division directors, and multiple
13 staff and management were able to tour the crop
14 tours. And there is just for your -- because any
15 presentation needs pictures. You know, these were
16 some of the pictures that happened throughout the
17 year on the various visits.

18 So thank you so much for those that
19 sponsored these crop tours. We really find them
20 valuable. The cotton tour, Pact Conference, Florida
21 fruit and vegetable tour, Pesticide Policy
22 Coalition. There's Mike in a short cutoff tee at
23 the AAPSE conference in Savannah, Traverse City, and
24 then Davis PREP where we met with all of our state
25 folks.

1 So priorities, they're going to be the
2 same for '24. As you can see, there's a lot of work
3 to be done still, but, you know, if you're
4 interested in keeping up-to-date, I would say thank
5 you. For the busy bees in OPP and then -- I thought
6 we had the QR code. Sorry, I guess that one didn't
7 make it in. You can follow us -- if you do a search
8 for Office of Pesticide Programs, press releases,
9 you can go sign-up for any OPP updates. And many of
10 the things that are in this slide, the 96 of them
11 that I sort of went through a smattering of them,
12 are all up there to understand what EPA has been
13 doing for the last year. And we're going to
14 continue with the great work that happened this past
15 year going forward.

16 We really look forward to your
17 recommendations on things you need to -- that we
18 need to focus on in the coming year and things you'd
19 like to see us talk about in the future.

20 So thank you for your time. Thanks for
21 listening to my slides. And with that, I will leave
22 it for discussions for the group. I'll hand it over
23 to you guys.

24 JEFFREY CHANG: Thank you, Ed. Now, the
25 PPDC members will have time to discuss amongst

1 themselves what was presented. So we'll go with
2 people in the room first, if you could turn your
3 tent card as you're speaking, and then we'll move to
4 people who are virtual. Virtual attendees can raise
5 their hand and you will be called.

6 So we can start with this side of the
7 room, with Steven's side of the room, and go from
8 there.

9 FEMALE: I wasn't sure how you were
10 wanting us to indicate that we wanted to speak.

11 MALE: Put the tent cards up.

12 FEMALE: Put them up like this.

13 MALE: Sure.

14 FEMALE: Thanks so much, Ed, for your
15 presentation. We really appreciate all the updates.
16 I'm just curious, I noticed that there is an
17 upcoming deadline for the contract with the audit.
18 So is that progressing to meet the deadline, and if
19 so, what is the opportunity for stakeholder
20 involvement and providing some feedback into that
21 audit?

22 ED MESSINA: I'll answer the question, but
23 we weren't going to do Qs and As here. Yeah, it's
24 fine, it's fine. We really want to hear from you,
25 but I'll answer that question because it's an easy

1 one.

2 Yeah, so we are progressing with the
3 audit. We've looked at a number of people that can
4 deliver the audit. So the PRIA 5 requires us to
5 undertake an audit of our processes. There's a
6 couple of contractors and people that do this, so
7 we've been reaching out.

8 In terms of meeting the actual deadline,
9 you know, I think we're going to come close, but it
10 may -- you know, it's not going to be far delayed
11 because folks are working on it, but we may not meet
12 the actual deadline. It might be like a month or
13 two away because we have to issue a contract and,
14 you know, get all that paperwork done. But it's
15 been actively worked on.

16 And in terms of input, I think once we
17 establish the person that is there, I think we would
18 recommend that, you know, they reach out to
19 stakeholders and make that part of the -- what's
20 called the technical assistance in the contract, or
21 the TA.

22 GARY PRESCHER: Well, the corn growers are very
23 appreciative of the EPA for convening the Scientific
24 Advisory Panel to review the -- several studies in
25 question around the Atrazine registration process

1 and the aquatic plant community. So I just wanted
2 to really convey our thanks for taking a good look
3 at that in those studies. We believe that the
4 Scientific Advisory Panel is a good way to go about
5 your work and really appreciate that and look
6 forward to the EPA's upcoming decision on Atrazine.

7 JEFFREY CHANG: Charlotte.

8 CHARLOTTE SANSON: Thanks. For the
9 comprehensive overview, it was sort of -- you know,
10 a drive-by really fast, showing everything you guys
11 have accomplished. And I think the registrants
12 would like to acknowledge the work that's been done
13 to implement the PRIA 5 obligations, and
14 transitioning to Salesforce ahead of schedule is
15 great and we look forward to the continued
16 implementation on that and how we can track the
17 progress of submissions and that sort of thing.

18 So going back to what you were talking
19 about, you know, the backlog and the shutdown of the
20 servers that happened, you know, the unfortunate
21 activity that happened there, so it kind of made me
22 think what would happen in the event of a government
23 shutdown. Now, I know that the 15th -- the end of
24 the -- you know, this week is critical for that. It
25 doesn't appear that's going to happen. But, you

1 know, it could happen, of course, sometime in the
2 future, the next time this comes up.

3 So just curious if you happen to have
4 thoughts about how that would look in having maximum
5 communication with registrants in the event of a
6 shutdown and -- yeah, because when we submit a data
7 package into -- through the portal, we get a
8 confirmation with a CDX number -- not to get into
9 the weeds on this, but it gives us the impression
10 that it's going through the system and it appears
11 that's really not confirming, okay, we've got it and
12 it's going -- you know, it's being processed, it's
13 going through the channels, if you understand what
14 I'm saying. So maybe if you could comment to that.
15 I would appreciate. Thanks.

16 ED MESSINA: So when it comes to shut
17 downs, I can't. The messaging is handled at the
18 highest levels of government, right. It's the White
19 House Communications. What I can say is, in the
20 past, we have seen impacts. I think that's when we
21 first developed our first backlog, right, was the
22 last time that happened.

23 PRIA 5 asks us to Consider our footprint
24 if that does happen. We have. And I can't say much
25 more because we're not even allowed to communicate

1 with staff about what our plan is. So I couldn't
2 even talk to industry about what our plan is until
3 that event happens and then we implement a plan to
4 address that shutdown.

5 The other thing I'll add is, depending on
6 the time of year, we may not have funds, because we
7 have some PRIA funding, but there is nobody who's
8 paid solely out of that fund. It's a mix of funds
9 and appropriations. As I noted, it's a third of the
10 money. If it's at the end of the year, like we are
11 now, there may not be -- you know, it could be a
12 couple of weeks or something before we run out of
13 money, because we're only using a third of the money
14 to pay for whatever we're paying to keep our
15 footprint open. So that's the other calculation we
16 need to do, right?

17 So, yeah, there would be an impact. We
18 understand what PRIA 5 says. We'll take steps to
19 maximize that to the extent we can, given the level
20 of resources we have and given the sort of footprint
21 for staff that are, you know, potentially, if that
22 day should come, called upon to access those fees.

23 I will -- the other thing I can say is, I
24 am excepted during that time, so I will be working
25 if there is a shutdown. So you can call me about

1 where your package is. I will be one of the few
2 people in the building who will reporting to work.

3 CHARLOTTE SANSON: Thanks. If I could
4 just have a brief follow-up. So PRIA 5 does provide
5 some funding for some activities in OPP in the event
6 of a shutdown. Other than yourself, which other
7 groups would that include or is that yet to be
8 decided or determined?

9 ED MESSINA: Maybe I'll answer the
10 question this way. So PRIA 5's provision says that
11 we can access fees during a shutdown. The IT folks
12 are paid out of that fund. Does that answer your
13 question?

14 Not saying what would happen, but I think
15 that was your question.

16 CHARLOTTE SANSON: Yeah, I guess I was
17 under the understanding that it provides -- PRIA
18 money is provided to OPP through the shutdown and
19 so I think you clarified where that would go. I
20 just --

21 ED MESSINA: Would we still be able to
22 collect during the shutdown is the question, yes, we
23 should be.

24 CHARLOTTE SANSON: Okay. It seems like
25 there was some protection, if I can use that word --

1 I'm not really sure I'm using the right word, but,
2 you know, that activities -- some activities and
3 work on OPP then can continue, and I just didn't
4 know what work that was.

5 ED MESSINA: Would the IT development
6 still continue? Is that your question?

7 CHARLOTTE SANSON: Or anybody besides
8 yourself? I think you made it clear it would be
9 yourself and the IT people.

10 ED MESSINA: Yeah, I'll be there. I'm not
11 really that good at coding. I used to do it back in
12 the day, but yeah.

13 CHARLOTTE SANSON: Okay.

14 ED MESSINA: So, yeah, we would be able to
15 continue to collect fees. PRIA 5 says that we can
16 access the money during a shutdown. If somebody had
17 been charging to that account, it is possible they
18 could access that account and continue working and
19 it is possible that some of the IT folks also have
20 charged that account in the past and would be
21 available for IT, assuming our plan called for
22 having people come back to work during a shutdown if
23 there was one.

24 Thanks.

25 JEFFREY CHANG: Becca?

1 BECCA BERKEY: I want to echo the thanks
2 for all of that information. That was a lot to take
3 in and absorb.

4 So one of the things -- and this might be
5 more of a question and it might be something that's
6 coming up later, but one thing I'm trying to
7 understand, based on kind of the report-out of the
8 previous PPDC meetings, specifically the working
9 groups, so I was looking at the website and the
10 website still lists the farmworker and clinicians
11 working group and then, you know, I think you gave
12 the update that there were three.

13 And then later in the update toward the
14 end in the environmental justice section, there was
15 like a brief reference in one of the bullet points
16 around the farmworker and clinician training
17 workgroup implementation. So again, this might come
18 up later, but that's something that I would be
19 interested in hearing more about, kind of what's
20 being done with those recommendations and if that is
21 or is not still an active workgroup and kind of what
22 happened with that work that was presented, I think,
23 in May of '22.

24 ED MESSINA: Yes. And Mily can put her
25 card up because she can answer better than I.

1 So when the farmworker-clinician workgroup
2 presented to the full PPDC and those recommendations
3 were adopted, the workgroup asked to be sort of
4 disbanded and so they were. I think there was work
5 associated with the NEJAC, too, that continued, and
6 I mentioned some of those other activities. And
7 then we did report out at the last PPDC some of the
8 activities that had occurred based on the
9 recommendations from that workgroup. We're not
10 done, but there is some materials and the transcript
11 I think goes through that.

12 And then I'll let Michelle or Jeffery --
13 so we probably need to update the website
14 specifically to remove that particular workgroup and
15 I'll let Mily and others who were on that workgroup
16 chime in and have a discussion around it. Great
17 question.

18 MILY TREVINO-SAUCEDA: Well, there is
19 still a lot of work to do. I did have a question
20 more on the Paraquat statement that was done. That
21 we're not clear that it does cause -- causes
22 Parkinson's disease. I will always be very
23 apprehended with just the use of pesticides, not
24 just the misuse of pesticides. But my comment here
25 is so many countries have banned Paraquat and we're

1 always trying to find reasons to continue using
2 Paraquat in the United States. It is very
3 interesting for us that work in the fields. Again,
4 we're more concerned because there is more people
5 getting Parkinson's disease. And so I just want to
6 give that comment.

7 And for the working group, I'm not
8 necessarily sure if we should just stop the
9 farmworker working group. There was a lot of work
10 done and we really appreciate all the time that was
11 spent. At the same time, we're more worried about
12 how the -- the implementation, the monitoring,
13 everything else. We can have a lot of information
14 written, but the reality of what is going on in the
15 fields sometimes it's kind of different.

16 And so I hear there's been a lot of work
17 from EPA at this point in time, these last years
18 even more, and I really appreciate that. At the
19 same time, it's -- for us what counts more is what's
20 really happening in the fields. I just wanted to
21 give that comment.

22 JEFFREY CHANG: Thank you.

23 Before we continue, if you could just
24 introduce yourself again quickly before you speak,
25 that would be great.

1 We'll start at the very end with --

2 DAWN GOUGE: Thank you. Dawn Gouge,
3 University of Arizona.

4 Ed, thank you very much, first of all.
5 That was just a whirlwind tour and I was scribbling
6 notes and I have a million questions. I'll try to
7 restrict them to a reasonable number.

8 First of all, as I'm sure everybody is
9 aware, there was an awful lot of confusion and still
10 is an awful lot of confusion around the use of dog
11 collars, which dog collars within -- that fall
12 within the OP active ingredients or OP-containing
13 dog collars versus Seresto, which has a
14 neonicotinoid and a pyrethroid.

15 Can you help us work through -- navigate
16 where EPA is on both of those things as two separate
17 issues regarding the use of dog collars and what's
18 ongoing? Thank you.

19 ED MESSINA: So are you interested in our
20 work on Seresto and TCVP separately?

21 DAWN GOUGE: Yes.

22 ED MESSINA: Yeah.

23 DAWN GOUGE: Thank you.

24 ED MESSINA: So I would point you to the
25 website updates and the OPP updates that talked

1 about the analysis we did for both of those pet
2 collars and pet products.

3 In addition, if you haven't seen there, we
4 put out the white paper in working with FDA and we
5 just recently, a couple of days ago, another OPP
6 update, we put out a Q&A document that asks
7 questions about the OPP white paper in relation to
8 FDA and then answers those questions. So I would
9 point you to the OPP update around that. It's
10 called the Q&A document related to EPA's white paper
11 on pet products.

12 DAWN GOUGE: Thank you. There's a lot of
13 sites that conflate the two together, which -- not
14 EPA sites?

15 ED MESSINA: Yes.

16 DAWN GOUGE: Okay. Thank you.

17 ED MESSINA: Understood. Thanks.

18 JEFFREY CHANG: Nathan?

19 NATHAN DONLEY: Hi, Nathan Donley, Center
20 for Biological Diversity. Yeah, thanks for your
21 presentation, Ed. And I really appreciate the
22 transparency about how much money comes from fees
23 and how much comes from appropriations because that
24 information really actually hasn't been made
25 publicly available, at least to the extent that I've

1 found, and having that here and being transparent
2 about that, I appreciate it.

3 I also appreciate the transparency with
4 putting pesticide incidents up on a publicly
5 available database. That is just something that's
6 really going to help researchers formulate research
7 questions better and also allow the public to, you
8 know, sort of identify harms associated with
9 pesticides they may have been exposed to.

10 And I want to touch on Paraquat a little
11 bit and, you know, add some to what Mily said,
12 because as EPA is reassessing Paraquat and its harms
13 to people and the environment, there's a lot of
14 worry from many of us that what's going to come from
15 this ultimately is a few half measures that don't
16 really do a darn thing for communities on the
17 ground.

18 And I just want to say, you know, of the
19 four largest agricultural economies in the world,
20 the U.S. is the only one that still allows Paraquat to
21 be used. The EU has banned it, China has banned it,
22 Brazil has banned it, and the use has doubled here
23 in the last ten years and it's one of the most
24 widely used pesticides in the U.S. We use 12
25 million pounds a year. For the most acutely lethal

1 pesticide in the world to be one of the most widely
2 used pesticides in this country is, quite frankly, a
3 national embarrassment, I feel.

4 Paraquat kills people every single year in
5 this country and most of those deaths, the majority
6 are accidental, they're not intentional. And I'm
7 glad to hear that deaths are coming down because
8 mitigation is put in place, but, you know, you can't
9 eliminate that risk with something this toxic. And
10 many more people develop neurodegenerative disease,
11 like Parkinson's, based off of their chronic
12 exposures throughout their life. And I know EPA
13 disagrees with me on that, but the scientific
14 literature is very robust here.

15 And so the European Union, China, and
16 Brazil, they have all maintained high agricultural
17 productivity despite banning Paraquat, and so can
18 we. But it requires that EPA push back on the
19 misinformation that somehow protecting people from
20 Paraquat is somehow going to destroy
21 agriculture or cause the sky to fall. You know,
22 that same rhetoric was used when EPA banned DDT and
23 Aldrin and Carbofuran and agriculture is still here.
24 The sky hasn't fallen. So, you know, it just goes
25 to show that we can get rid of the worst of the

1 worst pesticides in this country and still maintain
2 high agricultural productivity and protect people in
3 the process.

4 So I just ask that as you are going
5 through the process of reevaluating Paraquat, just
6 please prioritize communities and prioritize people
7 and, quite frankly, let's just follow the lead of
8 the rest of the world here and get rid of Paraquat
9 once and for all. That's all.

10 JEFFREY CHANG: Joe?

11 JOE GRZYWACZ: I'm not going to be able to
12 be as eloquent as Nate because I don't have all
13 those facts and figures, but I do also want to echo
14 the point that Mily had began about Paraquat, and
15 that is, I totally appreciate the value of following
16 the sciences. I didn't realize that was one of the
17 pillars of EPA's original founding.

18 But we also have to remember that evidence
19 comes in all sorts of different forms and the world
20 is a fairly complex place where when we limit it to
21 one particular outcome and the very challenging task
22 of being able to actually do good monitoring of
23 actual pesticide exposure day in and day out, that's
24 just a really tough task.

25 And so I just really echo Mily's comments

1 and Nathan's comments about, you know, sometimes the
2 evidence comes from not the empirical papers, but
3 what do our peers and our colleagues around the
4 world, what do they have to say about that and what
5 do they know that we don't know or what are they
6 considering that we're not considering in terms of
7 being able to make those important kinds of
8 decisions.

9 JEFFREY CHANG: And the last comment,
10 Alexis? Last two, sorry.

11 ALEXIS TEMKIN: Yeah, thank you. Alexis
12 Temkin from the environmental working group.

13 I wanted to echo all the comments on
14 Paraquat as well, and I also just wanted to bring to
15 the attention of the group -- I know, Ed, in your
16 presentation, you had mentioned the actions on DCPA
17 and the original proposed cancellations in response
18 to a lack of data being submitted by the registrant,
19 which I think was actually a data request for about
20 ten years, that that data was missing, and then the
21 cancellation was suspended because the data was
22 provided.

23 But, you know, one of those 96 press
24 releases that EPA did was also one that was quite
25 shocking, I think, and quite out of the ordinary,

1 which was when some of that data came in,
2 particularly data looking at comparative thyroid
3 toxicity in a comparative thyroid assay, it was so
4 alarming and so concerning that EPA actually
5 released the draft risk assessments for the
6 residential and occupational exposure assessment
7 ahead of the schedule to really alert people -- and
8 particularly pregnant people -- farmworkers who
9 might be exposed on the job during work with DCPA,
10 that this is -- it was a really concerning exposure
11 and a really concerning toxic pesticide.

12 So, I mean, I would love to know -- I know
13 it's not a Q&A, but like the next actions for DCPA
14 from EPA and, I guess, also just to really highlight
15 that ten-year data gap on waiting for data to come
16 in, data showing extreme toxicity and just really
17 sort of the failure of that system or, you know,
18 real risks and protections that were not happening
19 for some of the people using this pesticide. So I
20 just wanted to flag that and comment on it for the
21 group.

22 JEFFREY CHANG: Mayra?

23 MAYRA REITER: Mayra Reiter with
24 Farmworker Justice. I would like to echo the
25 comments on DCPA and also what Mily, Nathan, and Joe

1 have raised regarding Paraquat. And what I'm going
2 to say doesn't apply just to Paraquat, but, you
3 know, go into any field, go any place where you find
4 farmworkers and you ask them, are they getting the
5 PPE that they need, are growers observing reentry
6 intervals, are they complying with all the different
7 mitigation measures that are put in place for
8 pesticides, and the answer is usually not. Like
9 those testimonies are out there.

10 And we know that the label is the law, but
11 many times that law is not being followed. And we
12 can have the best mitigation measures in the world
13 in writing, and if it is not being applied, it's not
14 going to protect anyone, and that's a real problem.
15 It is something that when looking at these highly
16 toxic pesticides needs to be taken into account.

17 And I know that EPA is bound by certain
18 policies and procedures, but this is something that
19 really cannot be ignored because what growers are
20 being told to do, a lot of times is not really
21 happening in the fields.

22 Thank you.

23 MALE: So over the last several PPDC
24 meetings, this talk has come up, and I'm not arguing
25 that it is happening, but I would like to provide

1 some guidance, particularly regarding reentry
2 intervals. The EPA makes the rules, and in most
3 states, the state lead agency enforces them. And I
4 have yet to work in a state where the state lead
5 agency isn't highly motivated to punish violators of
6 the law.

7 So I really think that a lot of these
8 rules are in place and when they're not being
9 followed, they need to be enforced. So I just
10 wanted to add that.

11 ED MESSINA: Anybody else?

12 (No response.)

13 ED MESSINA: Okay. Well, thanks for the
14 lively discussion and for listening to our
15 presentation. We'll move to the next items on the
16 agenda.

17 JEFFREY CHANG: Thank you. We'll take a
18 quick break for five minutes and return for EDSP.

19 (Brief break taken.)

20 (Section appears to be missing for the
21 beginning of Endocrine Disruptor Screening Program
22 Update. Section below is from CART provider.)

23 If we can get back to our seats for the
24 next session.

25 Hi, everyone, please come back to your

1 seats so we can start the next session. Thank you.

2 Welcome back and we'll updates from
3 Pesticide Programs Director on the endocrine
4 Disruptor.

5 ENDOCRINE DISRUPTOR SCREENING PROGRAM UPDATE

6 JAKE LI: Thank you and good morning check
7 the mic is working and turned on. I'm excited to
8 give you an update. It is something that our team
9 across multiple offices at EPA that's within OPP
10 that's within our general council office in the
11 front office have been working really hard on over
12 the last year and we think we've been making a lot
13 of progress in light of where we've stood for the
14 last one to two decades, and there are really
15 challenges how we implement it and we look forward
16 to talking about in new data and adopting new
17 strategies and we're doing a lot in today's briefing
18 on the announcements from October and a few weeks
19 ago about new strategies, and what I want to do
20 today is provide some preview background to what it
21 is and our obligations and provide overview of the
22 announcement itself.

23 So I think one question for those who may
24 not be familiar with the topic why did we issue this
25 big press release and driver for all that and it

1 comes down to a --

2 (Recording starts again.)

3 JAKE LI: -- combination of external
4 requests, as well as internal program needs, and
5 four of them are actually up on the slide.

6 Many of you know that, in 2021, we
7 received this Office of Inspector General report
8 that concluded we had been making limited progress
9 in assessing pesticides under the EDSP. And then
10 last December, we also received a lawsuit from
11 environmental public health groups relating to the
12 EDSP.

13 There's also been a number of longstanding
14 questions both from outside stakeholders, as well as
15 internally, about the implementation of the EDSP, so
16 we thought it was important to clarify at least some
17 of those questions. And then, finally, it's been
18 our longstanding policy to address EDSP for human
19 health as part of registration review final actions.

20 So we've got multiple drivers for why we
21 wanted to clarify and develop a path forward on
22 implementation of the EDSP.

23 Now, in terms of some background -- let me
24 actually start with what the FFDCAs, the Food, Drug,
25 and Cosmetic Act, actually requires of EPA. The law

1 actually has multiple requirements, but there are
2 four that are relevant to today's presentation. The
3 first one is actually to create a screening program.
4 We did that by creating the EDSP in the late '90s.

5 The second is for us at EPA to provide for
6 the testing of all pesticides and to issue test
7 orders. All pesticides actually include active
8 ingredients, as well as inert ingredients. So there
9 are actually a large universe of chemicals that are
10 covered by the EDSP.

11 A third really important requirement is
12 that we are required to protect public health
13 against endocrine effects, and this is under a
14 provision, 408(p)(6). I'm mentioning this because
15 I'm going to return several times to this (p)(6)
16 requirement. It's actually really important step of
17 how we want to provide transparency and clarity
18 moving forward.

19 And then a fourth relevant part is we can
20 actually exempt chemicals from the EDSP. We've done
21 that over the years and that's something that the
22 FFDCFA sort of allows us to do.

23 Okay. So that was the legal foundation in
24 a nutshell. Let me provide the main scientific
25 foundation that we created in the late '90s for the

1 EDSP. And basically, it's a two-tier framework for
2 testing under the EDSP.

3 The first here, which was actually what we
4 call screening, focuses on this question of is this
5 a potential -- and potential is the operative word,
6 right -- for a chemical to interact with the
7 estrogen, androgen, and thyroid systems. And as
8 part of that, we had actually developed and
9 identified 11 assays, 6 of which are in vivo,
10 meaning in living, and 5 of which are in vitro,
11 meaning outside of living organisms. We also called
12 these new approach methods. So they could be
13 computational methods and so forth.

14 And it was really exciting that earlier
15 this year, some of you might remember, we released a
16 draft white paper for public comment that identified
17 alternatives to four of these traditional assays
18 using new approach methods. So that's Tier 1
19 screening.

20 Again, the question is, is there a
21 potential to interact with the E, A, or T system.
22 If the answer is yes, then we move to Tier 2
23 testing, which is to identify, characterize, and
24 then to quantify what are those adverse effects for
25 the risk assessment, right.

1 So this is how the two-tier structure was
2 set up. And there have been a number of questions,
3 both internally and externally, about how we
4 implement this two-tier structure, about how we
5 implement those legal obligations I showed in a
6 prior slide. For example, what if we have adequate
7 Tier 2 data, are we going back and ask for Tier 1
8 data, and if so, what is the point of getting that
9 Tier 1 data, right?

10 Another question is, well, what are the
11 FIFRA data we get that could satisfy EDSP
12 requirements? There's actually quite a bit of
13 overlap between what we get under FIFRA and this
14 two-tier framework. What is that overlap?

15 A third question could be how and when
16 would we actually issue test orders for any
17 outstanding endocrine data?

18 A fourth question could be, well, when are
19 we going to make this 408(p)(6) decision to protect
20 public health that I showed in the last slide?

21 And then a fifth question could be, well,
22 what is the priority of human health versus
23 wildlife, right?

24 So these are just -- again, it's not a
25 comprehensive list of questions, but these are some

1 questions that we've heard from stakeholders, we've
2 heard internally, and that we thought were important
3 to begin clarifying as part of these announcements,
4 or the announcement rather from a few weeks ago.

5 So now, I'm moving on to the scope of
6 these new strategies. I think a really important
7 thing is that we can tackle all of it at once,
8 right. There are a large number of chemicals under
9 the EDSP and it's a lot like how we think about our
10 Endangered Species Act work. This is, under the
11 ESA, decades and decades of challenges that we're
12 trying to solve really quickly. We can't solve all
13 of it at once. So we have to prioritize what are
14 the actions, what are the chemicals that we think
15 deliver the greatest return on investment, deliver
16 the greatest impact.

17 So we did something very similar for EDSP
18 basically meeting every single week this year before
19 the roll-out of this announcement. And so what you
20 see up on the screen here would be the scope of
21 these initial strategies. The one thing I want to
22 say is that this strategy is not the end-all/be-all
23 for the EDSP. This is really just our starting
24 point for what we think we can realistically
25 accomplish over the next few years, given our

1 current budget, given our current processes, and
2 other factors.

3 So the scope here is that for these new
4 strategies, we're going to focus on new active
5 ingredient registrations, as well as registration
6 review of conventional active ingredients. So we're
7 not addressing the nonconventionals yet. And we're
8 going to prioritize the human health components
9 while we continue doing what we've been doing on
10 wildlife.

11 One reason for the focus on human health
12 is that that's really the focus of the FFDCA when it
13 references public health. So we really want to
14 focus on that legal obligation first.

15 So what we released four weeks ago are
16 four documents. They are quite lengthy if you add
17 them all together. So what I want to do in the next
18 few minutes is to provide a really quick overview of
19 what are in those documents.

20 You can think of the overarching document
21 as the Federal Register Notice. Those are the near-
22 term strategies. And in that document we describe
23 the three strategies, we provide background on the
24 EDSP, and we started a 60-day public comment period
25 for data for certain groups of chemicals that I'll

1 talk about later.

2 And then to support that Federal Register
3 Notice, we also issued three documents. The science
4 paper is actually really, really important. It's a
5 technical read, but it's an incredibly important one
6 because that is the document where we explain when
7 and how we would use FIFRA data to address some of
8 the EDSP data. In other words, when I said earlier
9 about what is that overlap between the FIFRA data
10 that we get and then the EDSP Tier 1 and Tier 2
11 data, that's what the science paper begins to
12 address, in particular, for the estrogen and
13 androgen systems.

14 The second document -- supplemental
15 document is a list of the conventional active
16 ingredients that we have in registration review, and
17 the point of this document is to identify really
18 quickly what are the types of endocrine data we have
19 for those 400-plus chemicals and what are additional
20 data that we may need in light of what we have and
21 what we don't have. So that document lists the
22 individual active ingredients for these registration
23 review chemicals.

24 And then, finally, we describe the EDSP
25 status of all 50 List 1 active ingredients. I'll

1 get to that in a little bit, but that's also an
2 important milestone for the program.

3 So our overall approach to these new
4 strategies is that we want to address the EDSP, both
5 the data as well as the 408(p)(6) decision needs
6 through the FIFRA process as much as possible. And
7 the reason is that our FIFRA process is one that is
8 well established. We have timelines. It's just a
9 good way for us to pull in the EDSP component so
10 that EDSP isn't hanging out there, but rather
11 incorporated into the FIFRA process.

12 So how do we do that? Well, one important
13 thing is to determine what are the endocrine data we
14 already have. In particular, what did we already
15 get through the FIFRA that helps meet some of these
16 EDSP data needs. And, again, that's what the white
17 paper really dives into, the science paper. And
18 then after that, we want to determine what are
19 additional endocrine data that we might need for new
20 active ingredient registrations or registration
21 review. And then when we determine we have enough
22 data for the human estrogen, androgen, and thyroid
23 systems, then we are also committing, as part of
24 this Federal Register Notice, to make a 408(p)(6)
25 decision on protecting public health.

1 So we have not done that really
2 consistently at all in the past and that's left open
3 a lot of questions around, well, again, when is EPA
4 going to make these 408(p)(6) decisions, when does
5 it provide closure under the FFDCA for each of these
6 pesticide active ingredients. So we're committing
7 to doing that as a matter of policy so that it's
8 clear when do we have enough data and we can
9 actually make those decisions.

10 So let me quickly go over the three
11 strategies. The first one is actually fairly
12 straightforward. For now, it's to prioritize the
13 human endocrine effect assessments as part of our
14 FIFRA process. We're not really changing anything
15 about wildlife. We're not walking back on wildlife.
16 We're simply maintaining our current approach for
17 wildlife while we invest and focus on getting the
18 human health component really up to speed.

19 And, again, one reason is what I mentioned
20 earlier. The FFDCA really focuses on the human
21 health.

22 A second part is that we're doing a lot of
23 work under the ESA that addressed and reduces
24 exposure to wildlife. So we think, in the meantime,
25 that can help reduce some of the potential effects

1 on wildlife.

2 The second strategy is really focused on
3 using the existing endocrine data to determine
4 whether more endocrine data are needed for both the
5 FIFRA and the FFDCa decisions. So that's really
6 important. It's not just about using the EDSP data
7 to make the FIFRA unreasonable adverse effect
8 determination, but also to make that FFDCa 408(p)(6)
9 decision, which we are legally required to do and
10 that we really haven't been doing consistently in
11 the past.

12 So the way to think about the endocrine
13 data is we actually break it into two categories.
14 The first one would be estrogen and androgen. They
15 typically travel together. And without getting into
16 the technical details, the key part is that if we
17 can get an updated rodent reproductive study, that
18 basically is going to be dispositive or extremely
19 informative for the human estrogen and androgen
20 endpoints. We realize those studies can be very
21 expensive. They're very animal-intensive and they
22 can take quite a while to perform.

23 So in the science paper, we also explained
24 what may be some other data that we can use in the
25 meantime that might allow us to make the estrogen

1 and androgen findings even if we don't have these
2 updated rodent reproductive studies. So that's, in
3 a nutshell, the estrogen and androgen sort of
4 system.

5 For thyroid, basically, we said in the
6 Federal Register Notice, we're maintaining our
7 current approach, but that we are expected to
8 convene a FIFRA SAP in 2025, to review our current
9 approach for thyroid. And after the SAP, we may
10 adjust or update our current approach.

11 The reason is that the science on thyroid
12 is moving a lot faster and there's just more going
13 on there than for estrogen and androgen, and so we
14 thought it was important to basically do peer review
15 of the thyroid approach.

16 And then the third strategy here is that
17 we want to integrate the data requirements for the
18 endocrine system into the registration review
19 process, starting with the highest priority
20 chemicals that we identified using this framework
21 here. I don't have time to go through every part of
22 the framework, but this is in the science document
23 and I think the gist here is that it focuses on the
24 estrogen and androgen system because, again, that's
25 what we're really trying to make as much progress on

1 right away. And it really starts with this question
2 of, do we have this updated rodent reproductive
3 study. If not, then we go through different parts
4 of this flowchart on what are the implications of
5 not having that study and what are other data that
6 we have or may not have.

7 Okay. So I already talked a bit about the
8 science paper. Again, for those who are interested
9 in the technical components of this, I highly
10 recommend reading this document because it describes
11 how we crosswalked the FIFRA data we get with the
12 EDSP Tier 1 and 2 data.

13 In other words, when would FIFRA data be
14 equivalent to or identical to the EDSP data? We
15 just haven't been clear on these questions in the
16 past, and our science team spent a lot of time
17 writing this paper to provide everyone with that
18 clarity.

19 The second document would be this list of
20 conventional active ingredients. This is what I
21 talked about earlier. The main takeaway here is
22 that when we request data on what are the 30 high-
23 priority chemicals that I'll talk about later, those
24 30 chemicals are actually identified in this
25 document and only this document.

1 And then this document also identifies
2 which are the conventional registration review
3 active ingredients for which we actually have
4 adequate estrogen and androgen data. The sort of
5 punch line is that's for about 20 percent of the
6 400, you know, chemicals. And then for the other 80
7 percent, for which we don't have the updated rodent
8 reproductive study, we describe, well, what
9 information do we have and how did we prioritize
10 those chemicals for getting potential additional
11 endocrine data, and we divide it into three groups.

12 Most important, is for group one. Those
13 are 30 chemicals for which existing data show some
14 activity in either estrogen receptor or the androgen
15 receptor pathway models, and as a result, we are
16 going to issue FIFRA data call-ins in the spring of
17 2024 to get those data.

18 And then, finally, the third supplemental
19 document is something called List 1. We established
20 List 1, I think, around 2009, and at the time, it
21 was basically a list of high-priority active
22 ingredients and inert ingredients for which we
23 wanted to do testing. This one has been sort of
24 hanging out there for a number of years and the OIG
25 report basically said we needed to explain what is

1 the status of List 1.

2 So we spent some time going through all of
3 the remaining 52 List 1 chemicals and basically we
4 concluded that we have enough information to review
5 potential human endocrine effects for all of those
6 chemicals and then we also determined what are the
7 status of the wildlife data for those 52 chemicals.

8 So that's also worth a quick read if you
9 want to know how everything shook out.

10 And with that, I think I'm probably a
11 little over time and I'll stop. So thank you

12 ED MESSINA: Thanks, Jake.

13 Discussion?

14 JEFFREY CHANG: We will move on to
15 discussion. Please turn your tent card if you have
16 any comments.

17 FEMALE: Thank you, Jake. And I think
18 we're really happy to see that EPA is moving forward
19 with the EDSP. You know, we gave comments on the
20 science white paper. I think these strategies offer
21 a really important way to use the data that you
22 already have and identify the chemicals moving
23 forward. I think where we have some questions is
24 around these some of these dual use and what does
25 that mean for the dual use chemistries and kind of

1 what -- with the data call-ins, how is that going to
2 work with kind of the way those registration review
3 decisions are done separately for the conventional
4 and the antimicrobial pesticides. So would it be
5 one determination or are you making it under the
6 conventional that would apply to the antimicrobial.

7 So, you know, you don't have to answer. I
8 know it's not a Q&A, but there are just some of the
9 things that we're thinking about as we're looking at
10 both the scientific approaches and the practical
11 approaches.

12 JAKE LI: Great, thank you. I'll just say
13 real quickly, as we dive into the 30, we will
14 provide clarity on those exact questions.

15 MALE: I know -- well, first of all,
16 thanks, Jake. I really appreciate all the
17 information. I know it's not supposed to be Q&A, so
18 I won't form it as a question, I'll form it as a
19 suggestion. If you're not already, when you're
20 doing your evaluations of endocrine disrupting
21 properties, at least I would encourage you to
22 consider the synergistic effect of multiple
23 compounds rather than just looking at an individual
24 AI's endocrine disrupting potential, what impact
25 would it -- exposure to multiple sources, if you

1 understand what I'm saying.

2 JEFFREY CHANG: Charlotte?

3 CHARLOTTE SANSON: So, yeah, thanks, Jake.

4 And I know it's not Q&A, but just a comment. You
5 know, I think as registrants we are committed to
6 advocating for resources where OPP needs to work on
7 the science. So I think it's just a concern on our
8 end on how this will be resourced knowing, you know,
9 with ESA and then EDSP and additional work that has
10 to be done to complete registration reviews, that
11 this is going to be folded into registration review,
12 we understand that, but we just have a concern on
13 the resource side.

14 ALEXIS TEMKIN: Yeah, Alexis Temkin with
15 the Environmental Working Group. I just wanted to
16 say thank you for this update. Truly, like it has
17 been a long time coming. I know I think I've asked
18 about EDSP at the other PPDC meetings. So it is
19 really great to see and exciting to see the notice
20 in the Federal Register in October.

21 I haven't read the documents yet. I'm
22 looking forward to it, but I guess perhaps similar
23 to Keith's suggestion -- just making suggestions
24 that I know that a lot of -- also when this
25 recommendations for EDSP I think you mentioned were

1 started in the '90s. There also has been a lot of
2 development and evolution in our understanding of
3 endocrine disrupting properties over the last -- I
4 don't know -- 20 years or so, right.

5 With the key characteristics of endocrine
6 disrupting chemicals, there are also NAMs that are
7 potentially available to look at those and not just
8 focus maybe on the EAT pathways, but a lot of data
9 has been generated. To your point, there is a lot
10 of data out there. So I would also encourage, yeah,
11 I think using the existing FIFRA data is worthwhile,
12 but the peer review. There's a lot of people
13 working on new approach methodologies on these high
14 throughput screening. There's just a lot of data
15 out there.

16 So I would just encourage while
17 maintaining and understanding that there's obviously
18 a lot of work to do and resources, just to be as
19 thorough as possible with data collections and, you
20 know, where you're sourcing information and things
21 like that. And I'm excited to comment. So thank
22 you.

23 MALE: I think this is a really exciting
24 use of data that's coming in to be helpful, so I
25 really am enthusiastic about the work that you're

1 doing. The concern that I have that's already been
2 mentioned in different ways -- I'm going to
3 contextualize it a little bit, and we might all
4 remember that little thing we called the OxyContin
5 epidemic that was perpetuated by a paper that was
6 directed toward something entirely different to
7 answer a very different question. But, yet, people
8 were able to get a hold of it and create what we now
9 know as one of the worst pandemics in history.

10 I just think it's really important,
11 picking up on the last comment, about making sure
12 that whatever results you put out from this are
13 clear that these are the boundaries of this science.
14 Just because it doesn't -- you know, we're not
15 seeing anything here does not mean that there is no
16 other potential consequences because it seems to me
17 that the science in the depths at least that I've
18 been reading is sometimes it doesn't show up for two
19 or three generations of offspring before it starts
20 creating difficulties.

21 And so I just fear that people can seize
22 on some perhaps crude or early results and say, see,
23 we've got no problem, but, in fact, you just simply
24 didn't have the chance to go deep enough. So I just
25 think there needs to be some care in the handling of

1 that.

2 JEFFREY CHANG: Great. Thank you.

3 That concludes our first morning session.

4 We are going to break for an hour and 15-minute
5 lunch, but before we do, I need to give you some
6 Zoom instructions.

7 During lunch, please mute your mic. Do
8 not click the leave meeting button. In other words,
9 stay in the Zoom session on mute. This will ensure
10 that everyone gets back into the meeting easily
11 after lunch. For those in person, please plan to be
12 back at the east entrance security between 1:00 and
13 1:15 to get through security.

14 With that, let's break for lunch and come
15 back a few minutes before 1:15 so that we can start
16 promptly at 1:30.

17 (Break for lunch.)

18 Press is here -- Paraquat discussion

19 We're in a public meeting so they can film
20 you. If you talk to them nicely may be -- they will
21 -- (laughing).

22 PESTICIDE LABEL REFORM WORKGROUP UPDATE

23 LISA DREILINGER: -- tough, so I
24 appreciate the attempt and -- so welcome, everybody,
25 post-lunch. We will try to keep it lively so

1 everybody stays awake and doesn't go into their food
2 coma.

3 Thank you to the workgroup. There are a
4 lot of members that are in the room, so I just want
5 to say I appreciate the support and -- we can go to
6 the next slide where everybody who is in the
7 workgroup is listed on this slide. It is the most
8 engaged, passionate group that I have worked with on
9 the PPDC so far and that is saying a lot because I
10 am also a member of the EPIC and that is an
11 incredibly engaged group of people.

12 So I just want to say thank you to my
13 co-chairs, Mano, who is not able to be here today,
14 and to Michelle, thank goodness for her.

15 So the group is really well rounded. This
16 is just a summary of -- you know, visualized all the
17 different places and all the different backgrounds
18 that the group of people come from.

19 I don't know if you noticed on the last
20 slide, but there are almost 40 people in this group
21 and to have it be so well-rounded has been key to
22 the successes so far. So you can see it's a mixed
23 group of industry from trade groups, government,
24 state, NGOs and, of course, consultants. So it is a
25 well-rounded group of individuals.

1 So we just wanted to share the charge
2 questions, and to do that, obviously, there are a
3 lot of words on this slide. But, overall, the goal
4 is to develop recommendations to support the
5 improvement and efficiency of the submission review
6 and approval process of EPA.

7 The goal is to help everybody. So the EPA
8 to work more efficiently, the industry to deliver
9 innovation, and to support the end user who actually
10 gets to use this product and make sure it is done in
11 the safest, most effective way.

12 We want to ensure that there is quality
13 and consistency of the reviews and the labeling and,
14 of course, if it doesn't get adopted by industry
15 then we weren't successful in our plight.

16 So the group definitely has two charge
17 questions, and we've kind of gone in circles. So
18 bear with me. I'm going to talk about the how in a
19 second, but I'm going to start with the what. We
20 broke into two groups, submission and approval and
21 technology and then content.

22 So the first is the technology. I will
23 just share that a lot of the goals for technology,
24 while the long-term right now is a little bit
25 challenging, but the short term to use the tools

1 that we already have for more maximizing efficiency
2 of label submissions, including comparison tools in
3 the e-CSF portal and that is really going to be
4 focused on Salesforce. The long-term might also be
5 focused on Salesforce, but the goal of the long-term
6 is to be able to take all of the data that is
7 digitized and for it to go together, meaning there's
8 already an e-CSF portal and we're hoping to get
9 labels -- structured labeling and to have the label
10 be electronic.

11 So how do we get the label to communicate
12 with the e-CSF that also will communicate with risk
13 assessment so that there is one source of truth that
14 everybody is working off of? So the charge question
15 is really about an idealistic view of what
16 electronic data looks like.

17 Charge question number 2 is about content
18 and accessibility. We wanted to make sure that we
19 took into account diversity, equity inclusion, and
20 accessibility for all. The principles in mind are,
21 of course, about the end user and how we can ensure
22 human health and the environmental safety of the use
23 of products.

24 So the EPA review manual and the PR
25 notices and, obviously, the regulations are a source

1 of the content. But how do we ensure systematic
2 reviews by the agency on an equitable basis that
3 might -- it will help, obviously, if the label that
4 is submitted is structured in the same way. So in
5 the short term, we're talking about structured
6 label; in the long term, we're, obviously, going to
7 combine charge questions 1 and 2 to have structured
8 labeling that, of course, would be submitted
9 electronically and then a single source of truth.

10 I'm sorry, I forgot to mention what we
11 have in the parking lot. So, obviously, there is a
12 lot of -- the label includes a lot of information.
13 So we had to define what we were going to attempt to
14 comment on and what we were going to agree to hold
15 in the parking lot until a later time.

16 Understanding that we only have a year for right now
17 under these charge questions and that we wanted to
18 make as much progress as possible, we agreed that we
19 were not to discuss display issues, the end user
20 experience, or accessibility.

21 And for the time being, in the structured
22 labeling content, we were not going to discuss
23 directions for use. The reason being for the
24 directions for use is that each product really is
25 unique on an individual basis. And we were afraid

1 if we attempted the directions for use right now,
2 that we would end up down a rabbit hole and not
3 making progress anywhere else. So the goal is, of
4 course, to come back to directions for use, but for
5 right now it is in the parking lot.

6 So the what is just as important as the
7 how. How do you operate? So like I started, this
8 group is one of the most engaged passionate groups I
9 have ever worked with. They are completely
10 committed. We have been meeting once a week for an
11 hour where we also have a team's site. So I wanted
12 to just share that the commitment of this group is
13 why we have made the progress we have made in six
14 months and there is a lot of time going into this
15 issue. So I just wanted to share.

16 What everyone has been waiting for, the
17 recommendations that we have as of today, we are six
18 months in to the one-year, for now, assignment. So
19 big picture, everybody agrees that electronic
20 labeling is necessary to optimize the label process.
21 In order for us to effectively share information,
22 make submissions, allow the agency to review and get
23 approvals, we need electronic labeling.

24 Very interesting enough, we found out
25 that, although we all agree on the big picture and

1 what is necessary, it turns out we were using
2 different words, but meaning the same thing. So we
3 did have to spend time in the beginning level-
4 setting on the words that we were going to use
5 because we did go in circles for a little, but it
6 was with the best of intentions. Everybody was
7 speaking in agreement, but not using the same words.
8 So there are certain words that we agreed to use
9 like data elements for how we would be addressing
10 the content of the label.

11 We then optimized this process into short-
12 term goals and long-term goals. So the first goal
13 was to create a voluntary template. With a
14 voluntary template, we could create a structure that
15 would provide the EPA a similar label every time a
16 submission was made.

17 So I just want to give a shout-out to
18 Hannah and Anastasia from the CDC because we had a
19 starting point with their voluntary label template
20 and that really helped establish the momentum that
21 we had in order to go forward and create the
22 structured labeling.

23 So the first step was to establish what
24 the data elements were, where the data element might
25 go on the label, the reference point for where it

1 came from, and then whether or not it was required
2 on every label or only some labels.

3 The next thing we did was confirm that
4 ideally we would have one single template. The
5 reason being is that, of course, once we create this
6 template, we have to support the template. And if
7 you are supporting and updating five templates as
8 opposed to one template, obviously, it's most
9 efficient if we could just update one template. So
10 that was the next step.

11 Mano is not here, but he has taken a lead
12 with the Conventional and Registration Division in
13 identifying the label data elements that were
14 missing from the original template. So a special
15 shout-out to Mano as well.

16 The next was once we, like I said, created
17 the template, we confirmed what source information,
18 we confirmed which of the data elements would be
19 perfect for a pick list. And what we mean by pick
20 list is that a user and a registrant would always
21 have the opportunity to add in free text. We're not
22 looking to eliminate the ability for a user to do
23 that. What we are looking to do is if a user would
24 prefer to take language that the EPA, under the
25 right circumstances, with the right data to support

1 the registration, would be supported and already
2 sort of pre-aligned and pre-approved. So the pick
3 list would be a pre-accepted language that if we
4 chose to use would speed up the process.

5 So we've gone through and identified the
6 data elements and then whether or not a pick list
7 would be appropriate. So while we're not showing
8 the structured template today -- and it's something
9 we can do at the next meeting -- we have a really
10 good start at a structured label.

11 So, of course, the idea is to maximize
12 resources and maximize EPA's resources. As shared
13 this morning, there is a lot of work that is flowing
14 through the EPA and we want to make sure that with
15 the resources that we have, we get the most out of
16 them.

17 So I think there are some places where
18 placeholders might be appropriate, so websites, QR
19 codes, which are not necessarily enforceable, but
20 are causing a lot of submissions over and over and
21 over and over again that are not always adding value
22 when the EPA is reviewing them. Because in reality,
23 a website and a QR code behind it can change and,
24 unfortunately, that really becomes -- it becomes
25 important for what goes on the final product label

1 and then it becomes an enforcement issue.

2 So we're trying to identify places where
3 the agency is spending time and resources that are
4 not actually adding value and protecting public
5 health.

6 The next is recommending, obviously, a
7 compare tool, and if the EPA is using the compare
8 tool and can confirm that only very specific changes
9 were made, can we eliminate the de novo reviews on
10 registrations that have recently gone through the
11 process. And what that means is that you could
12 spend less time on a review by not needing to review
13 -- most master labels are not less than 12 pages,
14 some are more than 100. So when a de novo review
15 happens, you're spending so much time and resource
16 on that review, right?

17 So if you can confirm that only a very
18 small change was made, use the compare tool only
19 that change was made and that using the compare
20 tool, you know, trust but verify, only that change
21 was made, then it would save a lot of time and
22 resource.

23 So that pretty much sums up the short-term
24 structured label, but, of course, we're looking at
25 the long-term and what digitalization looks like.

1 So we don't know what system the EPA is going to
2 potentially use. We think it is going to be
3 Salesforce. And we have been working with the EPA,
4 but to date the technology has been mostly in the
5 parking lot, because we don't want to spend -- we
6 wanted to come out with a win so we focused on a
7 place where we could deliver. I think when we get
8 to the next steps, you'll see where our focus is
9 going to be moving forward on the technology.

10 Of course, there is already an e-CSF tool.

11 So how do we use the e-CSF tool to help populate a
12 label that will help lead to a risk assessment and
13 have a single source of truth?

14 So what we really want to do is line up
15 all of the digitalization that is happening at the
16 EPA to be the most efficient and then, of course,
17 you know, big picture could even be how do you take
18 the information that is going from the e-CSF that's
19 populating a label, that's populating a risk
20 assessment, that's helping the EPA to make a
21 determination, that's helping to deliver innovation,
22 and take it one step further and help make the end
23 user's life even easier, you know, potentially
24 autoprogramming a tractor or something to that
25 effect. So there is a lot of benefit to every

1 person in this room and at this table to the work
2 that is happening.

3 Of course, we did have at least a day with
4 the white page and Michelle is -- I'm going to pass
5 it to Michelle to talk about all the places where
6 there is a lot of communication and overlap.

7 MICHELLE ARLING: Thanks, Lisa.

8 So as Ed mentioned during his opening, we
9 did publish in the Federal Register a white paper on
10 structural digital labeling. The link is in Ed's
11 PowerPoint and we'll send it out after today's
12 meeting.

13 This white paper is basically kind of like
14 the start of a discussion where we describe EPA's
15 vision for structured labeling and structured
16 digital labeling. So again, that template and then
17 how the data from the template can be tagged and
18 used in different ways.

19 This would be voluntary. And the paper
20 walks through what it looks like or -- in EPA's mind
21 right now -- and lays out potential steps to
22 adoption. And we're also asking for public comment
23 for 120 days so we can get a lot -- as much feedback
24 as possible from stakeholders on the potential
25 benefits, any roadblocks or other things that we

1 should consider, and then also on the kinds of data
2 elements that should be captured in whatever system
3 or template we end up with.

4 So the white paper -- I'm going to give
5 just a really quick overview -- goes through the
6 benefits of structured labels and structured digital
7 labels. And we talked about some of this in what
8 the workgroup is doing, too, in terms of
9 consistency, streamlining reviews and submission,
10 making it easier for end users to find information
11 if it is tagged and more sortable on the label and
12 then promoting efficiency and reviews in EPA's work
13 and also label updates out into the field.

14 In terms of timing and why we're doing it
15 now, the paper talks a little about the digital
16 transformation that's underway, the lessons we
17 learned from previous efforts and then the pretty
18 quickly developing technology in this area.

19 The phases outlined in the paper are
20 testing digital submission tools that are currently
21 out there. And then we want to talk about proposing
22 a standardized format for public comments, work on
23 voluntary submissions to kind of test the system
24 before it's launched and then refine and continue to
25 build on it.

1 So going back to workgroups'
2 recommendations, this is the same slide Lisa
3 presented, but I just wanted to highlight the areas
4 of overlap, where this Label Reform Workgroup and
5 EPA are working hand in hand and kind of the
6 workgroup is focusing on elements that will really
7 inform our thinking about structured labeling and
8 they're kind of in the process of developing some
9 information that will really be instrumental as we
10 move forward.

11 LISA DREILINGER: So now just to focus on
12 the next steps, that was a sort of recap of the last
13 six months and what are we going to focus on in the
14 next six months. What we hope to be able to share
15 at our spring PPDC meeting is, obviously, the
16 integration of the EPA's white paper on label
17 reform, actually creating the data that is going to
18 go into the pick list. So having a structured
19 label, having that template, and then creating the
20 pick list for the data elements.

21 Of course, it has proven a little bit more
22 difficult using the technology that currently exists
23 to have that compare tool because as soon as you add
24 something and if one word goes on to another page,
25 it turns out everything after what you added will

1 trigger as a change. So we're trying to work
2 together -- a shout-out to Dan -- I don't know where
3 he is -- a shout-out to Dan in the back. We've been
4 working together on trying to figure out how to
5 create a master label that will not have the compare
6 tool fail when a new page is created.

7 And then, of course, trying to consider
8 what technology might be available and then what the
9 ideal process looks like to be utilized that would
10 really optimize all of the work that everybody is
11 putting in to creating the protection of public
12 health and the environment.

13 ED MESSINA: Thanks for that great
14 presentation. Now we're ready for discussion.

15 JEFFREY CHANG: Thank you. Now, I want to
16 open it up for discussion with members of the PPDC.
17 If you have a question and would like to be
18 recognized, please use the raised hand function and
19 Zoom, and I will call you in the order that you
20 raise your hand. And for people in the room, we'll
21 do the tent cards again.

22 And if you can use your mic and speak into
23 it, that would be greatly appreciated.

24 FEMALE: I know everyone else around this
25 table has views on this, but I really want to thank

1 Lisa and Michelle for their leadership.

2 I think one of the challenges that we came
3 to when we were first starting to look at this even
4 from an antimicrobial perspective or from the
5 workgroup perspective, was a difference in
6 understanding about what we're talking about here
7 with a master label and what's similar to EPA and
8 then what ultimately goes on to an actual product.
9 And I think once we got through kind of that
10 understanding and a real description of what are the
11 key elements for that master label and what does EPA
12 need to see, I think we were able to progress a lot
13 more and get into the meat of those issue.

14 You know, I haven't had a chance to review
15 the paper yet, but I do think it's a really
16 interesting concept and I'm just curious, you know,
17 thinking through the process, that this is a one-
18 year mandate. So, you know, the public comment on
19 this goes until March. Is the idea to incorporate
20 some of those comments into the workgroup discussion
21 and are these kinds of two separate tracks from EPA's
22 perspective? Because, you know, we're kind of
23 working this outside of EPA with the PPDC, but then
24 this is something that really came from EPA and so I
25 just want to understand kind of how are these things

1 working together.

2 LISA DREILINGER: That's a great question.
3 I can't speak for the EPA, but I can speak for this
4 group. We know from other groups, the goal is,
5 obviously, to have the same goals and to be able to
6 incorporate those goals in and to have a positive
7 work product at the end. And I think right now we
8 have a one-year mandate and the comment period will
9 be over in March. But that does not preclude this
10 PPDC group from changing the remit a little bit,
11 staying on the same topic and refocusing the group
12 for the next year.

13 So, I mean, we've seen it happen before.
14 If we choose to continue the work on the electronic
15 labeling, then I expect the comments that come from
16 the white paper to factor into the charge questions
17 for the following year.

18 I don't know if you have anything to add.

19 MICHELE ARLING: I think Lisa did a great
20 job.

21 FEMALE: Thanks, Lisa. That was a great
22 overview and I really appreciate the collaboration
23 by so many stakeholder groups.

24 So there's been some questions -- I'm
25 allowed to ask questions, right?

1 Okay, all right, good.

2 ED MESSINA: This session -- yes, this is
3 free and open and the chairs -- because you have a
4 PPDC member who is one of the chairs --

5 FEMALE: Oh, perfect. Oh, good, all
6 right.

7 ED MESSINA: Yes, this is part of that
8 discussion.

9 FEMALE: All right. Just clarifying.

10 So as far as the benefits to the
11 stakeholders that have been discussed, I'm just
12 curious about the benefits analysis, you know, going
13 all the way through the process. So discussions
14 even like with individual states, you know, with --
15 some of the states that we know get more deeply
16 interested and involved in labels, like California,
17 for example, and how that's -- kind of conversations
18 there have gone there and whether they participate
19 with the benefits they see and even the benefits
20 going all the way down to the user community at the
21 end. So that's one question I have, so I'll let you
22 answer that one first.

23 LISA DREILINGER: So we do have some state
24 representatives that are in the room, which I'll
25 just say thank you again. California is not one of

1 them, but -- and we have not specifically on label
2 reform, through the PPDC, had a discussion with
3 California yet, although that is a good suggestion
4 and one that Michelle and I can take as an action.

5 Based on other work with California, I
6 think the label needs and how their process works is
7 different than the Federal EPA and we were really
8 focused on a win for Federal EPA first, being that
9 the PPDC is for Federal EPA. And then the question
10 will be, how do we take the learnings that we have
11 here and apply them to other places.

12 And we have -- Eric is in the room, not to
13 put him on the spot, but so we have a view from
14 Canada and from other places. So it is not just
15 that we're looking at Federal EPA, we are taking
16 other places and insight from other places, but we
17 have not yet had a conversation with California.

18 MICHELLE ARLING: I just want to add that,
19 obviously, whatever system is developed has to work
20 when things come into EPA and how things get out
21 into the field. And so this workgroup is starting
22 with the input and then we're going to use that to
23 develop tools that can make it out into the field.

24 And then Gretchen is on the line and she
25 raised her hand, so I'm just going to acknowledge

1 her now because she is our state representative on
2 the Label Reform Workgroup and she might have some
3 more feedback. So, Gretchen, if you want to jump
4 in.

5 GRETCHEN PALUCH: Sure. Thank you. I did
6 want to offer that I've been participating as part
7 of the workgroup and I do think that the overall
8 effort is really a great first step at looking at
9 taking on this very large scope challenge of moving
10 toward a structured digital label, and that overall
11 effort really does have a lot of merit with it and a
12 lot of potential for benefits.

13 I did want to also say that I really
14 appreciate the comments that were made about the
15 importance of including end user and state input in
16 that process because it's a long process to really
17 gain all of that input and the more opportunities
18 there are for all of the different groups that
19 interact with this structured digital label, because
20 it's going to be at different points of the process,
21 the better it's going to be and the more workable it
22 is. And the more it delivers for end users, for
23 state agencies that work with the labels, for
24 handlers that access that label for different types
25 of information, farmworkers, even going all the way

1 back up to EPA and the registrants as well, the
2 better product it's going to be. So it's a long
3 process, but I see it as one that having a phased-in
4 approach is going to be telling if it will be
5 successful throughout the duration.

6 Thank you.

7 JEFFREY CHANG: Becca?

8 BECCA BERKEY: Thank you. Becca Berkey
9 from Northeastern. I'm not sure if we're still
10 reintroducing ourselves, but I'll do it this time.

11 Okay. So I have not read the paper fully.
12 I do have it. I have it open. I'm glancing through
13 it as you all are talking. I think one thing I am
14 curious about is -- and I think it's building on
15 what Gretchen was just saying to a certain extent or
16 kind of honing in a certain part of that with the
17 end user group of people that are handling
18 pesticides in the fields. How does what this group
19 is doing in the electronic labeling efforts, how
20 does that intersect with what's happening around
21 bilingual labeling and is there -- I guess, they are
22 both labeling-related issues. I guess I just want
23 to know where are the synergies between those. Are
24 these like completely separate processes?

25 MICHELLE ARLING: Do you want to answer,

1 Ed, or do you want me to try?

2 ED MESSINA: Sure.

3 MICHELLE ARLING: Okay. So I think
4 they're all labeling issues. This is going to look
5 at how we get the labeling in. And I think once
6 there is standardization, once there is a format,
7 once there is like a common vocabulary, then those
8 translations become easier. So they are not
9 together right now, but I think they are going to
10 really support each other in facilitating getting
11 those labels translated out into the field more
12 quickly.

13 ED MESSINA: What she said.

14 MICHELLE ARLING: David?

15 DAVID SHAW: So I want to echo what a lot
16 of others have said. It's obvious that there's an
17 incredible amount of work that has already gone in
18 and there is a lot more work yet to be done.

19 The Pesticide Resistance Workgroup last
20 year, one of the recommendations was movement
21 towards an electronic label. And using that just
22 really as a narrow example for a much bigger issue
23 and really capitalizing on the two last comments
24 with the end user in mind, I was just wondering if
25 the workgroup has been able to get far enough along

1 to begin to project out what kind of a time frame
2 that we might be able to see some of the elements of
3 this come forward so that the end user input can be
4 in the process instead of something that is
5 completed and then getting that input?

6 MICHELLE ARLING: When you say end user
7 input, are you talking about into the data elements
8 of labeling or the structure overall or how labeling
9 is delivered in the field?

10 DAVID SHAW: So, yes, to all three,
11 obviously.

12 MICHELLE ARLING: Okay.

13 DAVID SHAW: But I guess part of where I'm
14 coming from is -- and I'm in 100 percent agreement
15 with the approach that you are taking. So is this
16 not trying to argue something different than, but I
17 think it's incredibly important to be sure that
18 you're getting that end user input in the design up-
19 front, so the usability on the back end is not an
20 afterthought but rather something that's baked into
21 the system.

22 MICHELLE ARLING: That is a great point.
23 I think Joe has his tent card up. Were you going to
24 comment on this?

25 Okay. So I think you're right. We are

1 realizing that at this stage we do need to know what
2 data the users need to have tagged so that when
3 labels are getting reconfigured and all this data
4 movement, they're getting the information they need
5 in the ways that they need it.

6 So I think part of what we're hoping for
7 during this comment period is that we are going to
8 get more engagement at the user level because that's
9 the kind of feedback -- like you said, if we get it
10 now, we can design the system with them in mind.

11 Joe?

12 JOE GRZYWACZ: I'm so glad that you went
13 first, because I really want to put a call out
14 especially to all the end user kinds of people
15 because, quite honestly, it was not until yesterday
16 -- you know, after meeting for six months, it wasn't
17 until yesterday that I was like, oh, we're
18 organizing data, we're not worrying about words just
19 yet. And so to all of the end users, Amy and my
20 farmworker colleagues, please take advantage of the
21 public comment period because it is only going to be
22 as good as the data going in.

23 So therefore, having a good sense of what
24 are the data elements and what should be in those
25 data elements in order to yield valuable resources

1 on the other end, like perhaps some day the ability
2 to distribute things via the website in different
3 languages, perhaps even spoken language using AI and
4 that kind of thing as opposed to requiring things
5 like a cell phone or a projector or something along
6 that line.

7 But in order to get it right, we need to
8 make sure that the data elements are correct and
9 then we can be worrying about populating the data
10 elements once we know where and what we want. So I
11 just wanted to make really the public call to all my
12 folks who are out there in the various user groups
13 to make sure that your comments are made during that
14 public comment period.

15 JEFFREY CHANG: Mily?

16 MILY TREVINO-SAUCEDA: Well, my comment --
17 well, there's different comments that I have, but at
18 this point in time, what triggered me was when you
19 are going to interpret the information. My question
20 is will farmworkers be invited to join and give
21 feedback. And I'm not just talking about -- I mean,
22 there is different levels of education that
23 farmworkers have. But what we have seen a lot more
24 is that there are people that are guided by someone,
25 maybe a supervisor, to provide the application to

1 the applicator that they have. Now, that doesn't
2 mean that the applicator is certified or anything
3 like that.

4 But what I'm getting at is in the past --
5 hopefully it is less -- companies have used minors
6 and hopefully they are not using minors as much. At
7 the same time, what we know lately is that workers
8 are not allowed, also, to take their phones to work.
9 There is a lot of restrictions in terms of many
10 different things. Maybe it's going to be different
11 with applicators, but the interpretation is going to
12 be very key because it's not just a translation,
13 it's going to be an interpretation. And then it is
14 not just going to be a good interpretation to
15 Spanish -- in this case if it's Spanish -- it's the
16 terminology that will make sense to the worker,
17 because if you don't write the information within
18 the cultural context, it will not make sense.

19 JEFFREY CHANG: Dawn?

20 DAWN GOUGE: Thank you. Just two
21 comments. Regarding data elements, the pesticide
22 use reporting systems that do exist in Arizona and
23 California, those elements -- having those
24 particularly would be enormously helpful for people
25 with reporting responsibilities. And then any

1 opportunity to mesh with ESA systems that's already
2 on system, that's a developing platform, but where
3 it can be meshed, that's a great opportunity.

4 Thank you.

5 FEMALE: So one more. I want to give
6 other people an opportunity.

7 So with regard to resources -- and I know
8 that you've already mentioned that considering
9 whether this will be Salesforce or what the tool
10 will be or whatever. I'm just wondering about, on
11 the EPA side again, knowing resources issues and
12 constraints, if resources have already been
13 dedicated to that -- to this or if this is going to
14 be a need going down the road.

15 ED MESSINA: Michelle, do you want to
16 answer that?

17 So yes. Each year, when we get our
18 budget, we'll be able to chip away at this. And
19 part of the money that we'll get each year is going
20 to be devoted towards IT. In fact, by going to a
21 better IT system -- there are some older IT systems
22 that we're carrying that when we get rid of them, it
23 will actually be cheaper for us. So we'll have a
24 cost savings and a return on investment and we'll be
25 able to take the money that we've saved by getting

1 rid of those old legacy systems and apply them
2 towards continuously developing the new system.

3 The other part I'll add to the
4 conversation is -- in terms of consulting with
5 people and getting their feedback -- the reason that
6 this digital transformation for OPP is so different
7 from the other ones is we're using what's called
8 agile development. And what agile development does
9 is you put out a minimal viable product, you then
10 have somebody use it, you get feedback very quickly
11 on it, and then you rapidly prototype new versions
12 of that as you're building it.

13 So version one of the Salesforce iteration
14 that we launched in BPPD looked very different six
15 months later when we did nine new releases of that
16 software, and we had done 26 what are called
17 springs. So as part of this agile process, we will
18 be able to consult with folks. And you've seen a
19 little bit of that when Dan reached out to some of
20 the industry folks to talk about dashboards. Right
21 now, we're in a similar place. This is sort of the
22 discovery phase of what is the road we want to
23 build. And we need to do that up-front work.

24 And the other part is called human-
25 centered design as you're doing that work. So how

1 is this end user -- and the end user can be located
2 in many different places. The end user could be
3 somebody in EFED who's looking at this label. The
4 end user could be the farmer out in the field. So
5 how is this tool helping that end user using human-
6 centered design through agile development?

7 And in terms of the money, the other long
8 way of answering this is, we have a priorities
9 document that Dan and I have worked on. We've
10 socialized it with the division directors. There is
11 seven or eight large pieces that need to come into
12 play to make everything that we want to happen
13 happen.

14 Just to give you a sense of those large
15 pieces I mentioned this morning, getting off of that
16 old server, getting into a better server and doing
17 the cloud. Right now, 70 percent of OPP's workflows
18 are in the CRM. We want to get 100 percent of those
19 workflows in the CRM, because there are other
20 workflows, like 24Cs and Section 18s and a whole
21 bunch of other things that currently aren't in the
22 workflow. So we've got to sort of stepwise it.

23 And then we have on this sort of -- what
24 is the short-term fix, you know, that's going to
25 really get us -- you know, pay off, to use Lisa's

1 words, and then what is our lighthouse vision for
2 where, as we're chipping away on this, we want to be
3 able to head towards. And that's, you know, to
4 Mily's point about making sure that not only is the
5 data there, but it's sort of contextualized and
6 people can understand it.

7 So in some ways, we're pretty close, but
8 in some ways we're pretty far off and it depends on
9 budget. But it is certainly part of our plan and
10 our desire and how soon we get there is how soon we
11 can get some of these other pieces in place, which
12 so far the progress has been good, but you never
13 know as you -- you know, the other thing I'll talk
14 about is the current custom-built system that we
15 have is the software, which is the front end is
16 breaking. In addition to that old server, it is
17 written in a language that nobody codes in anymore.

18 The developers who developed that are long
19 gone. And it is like having this new contractor
20 trying to understand how this thing was built in a
21 language that they don't understand so that they can
22 then take it out of old system and move it into the
23 new system. Those are some of the challenges that
24 we face by moving forward. So I'm optimistic, but
25 at the same time I know and Dan knows that at any

1 step along the way, there is some land mine that
2 comes up and says, oh, by the way, this entire part
3 of the thing failed and we need to spend three
4 months trying to fix it. So I'm optimistic, but I'm
5 also going to be a realist about how soon we can get
6 this done.

7 Did that answer your question? All right.
8 Joe?

9 JOE GRZYWACZ: We're good.

10 ED MESSINA: Okay. All right. Good.

11 Jeffrey just whispered to me that our next
12 session is 2:45. So we have plenty of time for
13 discussion or we can take a break. What do folks
14 want to do?

15 Oh, card, thank you. Amy?

16 JEFFREY CHANG: Name and affiliation,
17 please.

18 AMY ASMUS: Amy Asmus for the Weed Science
19 Society. I was going to be quiet, but you know me.

20 So the first thing I want to say is thank
21 you, thank you, thank you very much. We have been
22 asking for clear and concise labels for over ten
23 years, OPPEL and SmartLabel and whatever it was
24 called before then has been working on it for almost
25 as long. I sit in on the workgroup meetings when I

1 can. They're every week. So they're very difficult
2 to get to every time, but I have seen more go into
3 this in the last six months than I've seen in my
4 lifetime.

5 But the one thing I do want to say is, you
6 know, I understand the process. But we have to
7 think about the end users and really, like Joe said,
8 encourage them to comment on the open comment period
9 of the white paper, because I would hate to get down
10 the road five years by the time you get your tech
11 stuff in and not have something in place for that
12 end user. We need -- when it gets rolled out, we
13 need it to be rolled out and not changed for the
14 next five years after we roll it out.

15 We all, sitting around this table, I think
16 we can agree we want a safe and secure food system.
17 We all have different ideas of how to get there. We
18 all have different ideas of the tools that need to
19 be used. But the thing that I can see for us is
20 clear and concise labels to ensure that the person
21 directing the farmworkers understands how to use it
22 safely. So that anybody applying it understands how
23 to use it safely. And I think this is one step
24 towards that. And I just -- although I'm
25 disappointed at the timeline and probably won't see

1 them in my career, but I think it is a great first
2 step and thank you for all the work that the group
3 has put in.

4 JEFFREY CHANG: Name and affiliation,
5 please.

6 ANASTASIA SWEARINGEN: It's Anastasia
7 again from the Center for Biocide Chemistries at
8 ACC.

9 So one thing, too, to think about -- and I
10 just would encourage user groups to -- outside of
11 just the agricultural users, to really comment on
12 this because as we look at labels -- and we've had a
13 lot of conversations -- it makes a lot of sense to
14 put a use rate when you're applying an agricultural
15 pesticide, but how often are you using a
16 disinfectant wipe, you know. Those types of use
17 rates and those questions I think we need to think
18 about. We're really trying to get to that one
19 template, but we need to make sure that we're really
20 hearing the perspective of all those who are going
21 to use and the types of products, because it might
22 be that we can't fit everything into a box, but we
23 want to know that so that we can make more boxes.

24 And so I think it's really important to
25 hear a diversity of perspectives on this. So I just

1 would encourage others to take a look at this and
2 not just the agriculture community but all users.

3 DAWN GOUGE: Yes, Dawn Gouge, University
4 of Arizona.

5 I just wanted to say I'm going to
6 respectfully disagree with your idea that nothing
7 will change in five years. With the way technology
8 is changing and the way systems are changing, I can
9 guarantee that there will be a need to change things
10 within five years.

11 And with the iterative process that you
12 described, I understand that there is these agile
13 sprint sessions where you get to an endpoint. But I
14 like the way the Bulletins Two were coming out to
15 where you can see some information right now. Is it
16 all up there? No. I would encourage the group
17 where it is sensible to do so to start getting stuff
18 out as soon as it's practical to do so.

19 Thank you.

20 JEFFREY CHANG: Going once?

21 (No response.)

22 JEFFREY CHANG: Thank you, everyone. That
23 concludes the Pesticide Label Reform Update. Our
24 next session starts at 2:45, so we can a 20-minute
25 break.

1 Before you break, if you wanted to make a
2 public comment, for those in the public who wanted
3 to make a public comment, please sign the sheet
4 here. It will be up at the desk. And we have
5 another clipboard going around, if you can sign
6 that, too, as a sign-in. Thank you.

7 ED MESSINA: We will see you at 2:45.

8 (Brief break taken.)

9 JEFFREY CHANG: All right. Welcome back.
10 We're going to get started in a minute or two.

11 Thank you, everyone, for returning.

12 Let's now turn to a discussion on the
13 Endangered Species Act and Stakeholder Perspectives.
14 We will hear from Jake Li, Deputy Assistant
15 Administrator for Pesticide Programs and Jan
16 Matuszko, Director of the Environmental Fate and
17 Effects Division, as well as stakeholder
18 perspectives from Nathan Donley and Ed Ruckert.

19 Welcome, everyone.

20 JAKE LI: Great. Well, good afternoon,
21 everyone. I'm really thankful to actually tag team
22 this with Jan, who has been leading so much of this
23 ESA work in EFED and many of the other OPP
24 divisions, too, have been leaning in a lot over the
25 last two years to get to where we are today.

1 I'm going to set the backdrop a little bit
2 for why this is such a crucial issue. What we're
3 trying to be -- to be responsive to all the public
4 input that we've been getting, and then Jan is going
5 to provide an update on some of the most current
6 activities in terms of bringing us towards full
7 compliance with the Endangered Species Act.

8 Okay. So many of you have seen some
9 version of this slide before. This just sets the
10 context for why we are where we are right now on
11 ESA. It's been three to four decades of neglect and
12 very limited implementation and the Federal Circuit
13 Courts are absolutely out of patience with us in
14 terms of our need to comply with the ESA. The fact
15 that we don't have enough people, the fact that
16 we're too busy is not an excuse according to the
17 Ninth Circuit.

18 So the pressure is on and we have, as a
19 result, been trying to move very expeditiously to,
20 at a minimum, have some mitigation measures to being
21 protecting endangered species and to start some of
22 this endangered species assessment work, even though
23 we recognize that under our current process, it's
24 still a very lengthy, multi-year effort to fully
25 comply with the Endangered Species Act if a chemical

1 needs to go through the full Endangered Species Act
2 review process.

3 And the outcome we are trying to strive
4 for here is to still provide farmers and other
5 pesticide users with a suite of pesticide tools that
6 we know they need for food, fiber, and fuel
7 production and, of course, protect endangered
8 species. So one of the big challenges is that if we
9 don't provide some of these early measures, we
10 believe there is a real risk of a decision being
11 vacated by a court on ESA grounds and that is a very
12 significant outcome for the grower and pesticide
13 user community.

14 So we're doing all of this, again, to
15 provide tools for growers to have a legally
16 defensible and implementable ESA program and to give
17 endangered species the protections that we know they
18 need. So those are very difficult things to try to
19 balance. There's tradeoffs, as many of you know, to
20 doing all of that, but we think we're trying to
21 strike some reasonable outcomes here.

22 And what we're really focusing on right
23 now big picture are protections to minimize
24 pesticide exposure to endangered species from two
25 routes. One is spray drift and the other is runoff

1 or erosion. Spray drift, I think many are much more
2 familiar with. Historically, we have adopted spray
3 different mitigation for human health. And what
4 we're moving towards in the endangered species
5 context is to try to provide flexibility to farmers
6 and other pesticide users, as opposed to being very
7 prescriptive to say, you must do X, Y and Z and you
8 can only do X, Y and Z to meet the ESA and FIFRA
9 requirements.

10 What we're moving towards is the use of a
11 menu that allows growers to pick and choose from
12 mitigation options based on what works best for
13 their circumstance. We recognize there are so many
14 circumstances around the nation. We think about all
15 the crops that are grown, all of the active
16 ingredients that are used, changes year to year.

17 So we are trying to build a system where
18 we can have an online mitigation menu that can be
19 adapted over time so that we can add or modify
20 mitigation measures to that menu. That's very much
21 in direct response to feedback that we have received
22 from the pesticide user community and as well as
23 registrants on the need for flexibility. So that's
24 one thing we're trying to incorporate as part of
25 these spray drift and runoff measures.

1 This is a slide -- let's try this again.
2 Maybe if you can advance that for me, Michelle?

3 Oh, no, I think we went one too far. If
4 we go back one more.

5 Okay. It might have been that slide
6 somehow got inadvertently deleted. That's fine.
7 Not a big deal. You can keep it on this slide.

8 So we are also going to talk about runoff
9 mitigation measures as well, so measures such as
10 retention ponds, grassy strips and other techniques
11 to try to slow down and reduce pesticide runoff into
12 sensitive species' habitat. That's newer for us.
13 It is not something we have as much experience with
14 compared to spray drift, and we've gotten a lot of
15 feedback on the various techniques to reduce runoff.

16 I know Jan and her team are very actively
17 looking through all of the public comments on that,
18 and please expect that we will be considering all of
19 those comments and thinking about how we can adapt
20 these online menus in the future based on what
21 people are telling us work and doesn't work for them
22 in the real work, in terms of applying these
23 measures.

24 The other thing is that we really need to
25 make sure that these measures are effective at

1 actually reducing runoff. So data that people have
2 around efficacy of these measures are really
3 important.

4 So if you want us to consider or add a
5 measure to these menus, please, if you have it,
6 provide data on efficacy because we can't just add a
7 measure without being able to cite its
8 effectiveness. So that's sort of big picture what
9 we're trying to do in terms of these early
10 protections.

11 Last April, we released a work plan. It
12 is the first comprehensive work plan by our agency
13 on what we think success looks like, what we think
14 the light at the end of the tunnel looks like on
15 ESA, and we've basically been implementing this work
16 plan. We've been trying to do so diligently. And
17 in November of last year, we also issued an update
18 to the work plan that described some of the
19 initiatives that Jan is going to talk about and
20 describe what we call interim ecological mitigation
21 measures, which are basically FIFRA mitigation
22 measures that we think can reduce exposure to both
23 federally endangered species and nonendangered
24 species. So you can think about this as general
25 measures to protect wildlife and the environment

1 from pesticide drifts and runoff.

2 Okay. And in September of this year, we
3 were very pleased to announce the resolution of a
4 longstanding lawsuit against the agency related to
5 ESA. I think the importance takeaway here is that
6 as part of this settlement agreement, we agreed with
7 timelines to implement a number of the strategies in
8 the work plan. So that's really important because
9 it provides some certainty and clarity to the public
10 around, well, which of these work plan measures are
11 we actually going to do by what time.

12 Now, we have a court-enforceable
13 settlement agreement that puts us on a time frame,
14 albeit an aggressive time frame, but, I mean, that's
15 one of the major themes of this ESA work. We have
16 to move fast in light of where the courts are and in
17 light of where the agency has been for the last 30
18 to 40 years.

19 So this settlement agreement puts us on a
20 time frame to reach milestones for a number of the
21 most important initiatives described in the work
22 plan.

23 And with that, let me turn it over to Jan.

24 JAN MATUSZKO: Thank you, Jake.

25 So I spoke to this group, I guess it was

1 May now, and I gave you all some general ideas of
2 some of the strategies that we were thinking about
3 doing at the time based on the work plan update that
4 Jake talked about. So I'm going to talk about a few
5 of them in a little bit more detail than others.
6 I'm going to first talk about ones that we released
7 in June and July and then I'll also give you a
8 heads-up on some other strategies we're working on.

9 So the first one I want to talk about is
10 our Vulnerable Species Pilot Project, and that's one
11 that in June of this past year, we released a white
12 paper on that pilot. And in the draft white paper,
13 we identified 27 species that EPA had identified as
14 vulnerable particularly to pesticides. We proposed
15 mitigations to protect them by minimizing or
16 avoiding pesticide exposure, and we also described
17 an approach to implement the mitigations in certain
18 future pesticide decisions.

19 And our goal with the Vulnerable Species
20 Pilot was to reduce the likelihood of population
21 impacts to these listed species and their critical
22 habitats. And for each of these species, as part of
23 the white paper, we proposed geographically specific
24 mitigations using our pesticide use limitation
25 areas, or PULAs, that we put in our BLT2 system to

1 indicate where the proposed mitigations would apply,
2 including for most outdoor uses of conventional
3 pesticides.

4 (Pause.)

5 JAN MATUSZKO: So EPA recognizes that the
6 vulnerable species proposal, and actually all the
7 strategies I'm going to talk to you about today,
8 represent a very new approach for protecting listed
9 species that are vulnerable to pesticide use. We
10 did receive more than 10,000 on our Vulnerable
11 Species Project. Most of them were from a letter
12 writing campaign that was in support of the
13 Vulnerable Species Project. We also received 200
14 unique comments from a wide variety of stakeholders.
15 You name it, we received them from the registrants,
16 we received them from the growers, the ENGOS. We
17 received them from our co-partners, the states,
18 federal agencies, grower groups, academics -- what
19 didn't I say -- and individuals.

20 While some of the comments were generally
21 supportive of the vulnerable species proposal,
22 others like this one, like this article right here,
23 were critical of our proposal and requested us to
24 revise it.

25 Next slide, please.

1 So after reviewing the comments, we did
2 identify the following overarching areas that
3 commenters asked us to reconsider.

4 The first one is the PULAs, or the
5 pesticide use limitation areas. I think you all
6 know that the goal of the pesticide use limitation
7 areas is to define those areas where we really need
8 the mitigations to apply to protect those vulnerable
9 species or the critical habitat. And for the most
10 part, we based them on the ranges that the Fish and
11 Wildlife Service has identified.

12 People asked to us relook at that. They
13 commented that those ranges, for purposes of the
14 PULAs, are overly broad and would apply mitigation
15 where they're not needed and they talked about the
16 impacts associated with that.

17 The other thing that we proposed was we
18 proposed that the mitigations -- people would have
19 to identify the critical -- the habitat. Let me
20 back up. Some of the mitigations where you couldn't
21 do certain things within a certain distance of a
22 habitat, and we described what that habitat was.
23 People were very concerned about that and their
24 ability to identify those habitats. So they also
25 asked us to explicitly map the habitats rather than

1 provide descriptions so that states and pesticide
2 users actually were clear as to where those
3 limitations would apply.

4 And I will say that we recognize -- we
5 agree with the comments, particularly that we were
6 overly broad on the PULAs and we are collaborating
7 with the USDA and the Fish and Wildlife Service and
8 are working with the University of Georgia on
9 refining the maps for the PULAs for these 27
10 species. And part of the goal with this effort is
11 for us to come out with a standard operating
12 procedure that folks can use going forward, to the
13 extent that we do want to refine the pesticide use
14 limitation areas for not just these species, but all
15 of Fish's listed species.

16 The other area, we proposed exemptions to
17 the draft mitigations for some application methods,
18 such as spot treatments or when pesticide users are
19 enrolled in conservation programs, and commenters
20 asked us to clarify those exemptions and also
21 whether additional exemptions are needed, and they
22 are also very interested in better understanding
23 what types of programs would qualify for those
24 conservation programs.

25 For example, everybody is aware of the

1 NRCS programs, but what we're hearing in the
2 comments is that most people, particularly specialty
3 groups and minor crops, really aren't able to take
4 advantage of those programs, but are taking
5 advantage of state and local programs and they want
6 more information on whether those programs would
7 count for those exemptions.

8 Obviously, in mitigations, folks asked us
9 to revise some of the proposed mitigations and to
10 include additional options. In particular, they
11 asked us to include additional options for non-ag
12 uses and also specialty crops and minor crops. They
13 commented that most of the mitigations that we
14 proposed were really applicable to ag users and
15 largely for the major crops.

16 They also asked us to -- you know, Jake
17 talked about the mitigation menu and I'm going to
18 talk about that more when I talk about the herbicide
19 strategy. We didn't have a mitigation -- the same
20 kind of mitigation menu in our proposal and they
21 have asked us to develop a single approach, a single
22 mitigation menu that can be used, irrespective of
23 the strategy that we're working on, so that is
24 clearer to our pesticide users what they need to do
25 to comply.

1 They also asked us to revisit the
2 selection of the pilot vulnerable species and wanted
3 to better understand how we selected them. And,
4 finally, when we proposed the vulnerable species
5 white paper, we proposed to apply it, I mentioned it
6 earlier, to most outdoor use of conventional
7 pesticides and they requested that we reconsider
8 that approach to account for different impacts of
9 pesticides.

10 Next slide.

11 So we have been doing a lot of thinking
12 about those comments and we're continuing to think
13 about those comments, but in the meantime, by
14 December 2023 -- no, by the end of December 2023,
15 we're going to provide an update to the public on
16 our current thinking, particularly on those themes
17 that I identified, and we also, in September '24,
18 will provide additional updates on the VSP more
19 generally and also any plan for potential expansions
20 to other species.

21 So next slide, please.

22 Okay. The next effort I want to talk
23 about is our draft herbicide strategy, which we
24 released for comment in July. And for perspective,
25 I want you all to understand the comment period on

1 that one closed October 22nd. So I'm not going to
2 be able to go through and list the types of themes,
3 but I can talk about them generally.

4 We're about halfway through those
5 comments. We did receive about 20,000 comments on
6 that one, and I'm also hearing about 200 unique
7 comments on that, too. So we're working through
8 that. But let me give you kind of a big picture
9 overview of what the draft herbicide strategy is as
10 proposed.

11 Through the strategy, we are developing a
12 broad approach to reduce spray drift and runoff
13 transport to over 900 federally threatened and
14 endangered species from agricultural fields treated
15 with conventional herbicides. Our focus -- because
16 the vast majority of species that are impacted or
17 potentially impacted by herbicides are under the
18 jurisdiction of the Fish and Wildlife Service, our
19 focus is the Fish and Wildlife Service.

20 This is one of the areas I think folks are
21 confused about. The draft herbicide strategy does
22 not put any requirements on any users or any
23 growers. It is not a proposed rulemaking. Instead,
24 it's a proposed framework that we expect would
25 inform the existing mechanisms we already use to

1 register and reregister pesticides.

2 Like the vulnerable species effort, it is
3 one of our first attempts -- it is our first attempt
4 across pesticides to work differently and address
5 potential impacts to listed species earlier in the
6 process and in a more efficient manner. It is
7 intended to provide certainty to our growers and
8 increase the efficiency of the entire ESA process,
9 from the work that we do to the consultation with
10 the Fish and Wildlife Service.

11 This framework that we describe in the
12 draft herbicide strategy would be applicable to
13 agricultural uses of conventional herbicides in the
14 lower 48 states. And the species that it focuses on
15 are plants and resulting impacts to animals that
16 depend on plants. Then we would identify any needed
17 mitigations and the extent -- the geographic extent
18 of those mitigations.

19 I think you all know this, but the reason
20 we focused on plants is because typically plants are
21 the most sensitive group to herbicides. So while it
22 wouldn't address all our ESA obligations to all
23 species, it would get us really, you know, to a
24 large amount of those species.

25 Like a lot of our other efforts, the goal

1 of the proposed mitigations is to minimize exposure
2 and thereby reduce population level effects, which
3 you've heard us talk about means the likelihood of
4 future jeopardy or adverse modification
5 determinations by the Fish and Wildlife Service from
6 the ongoing use of conventional agricultural
7 herbicides.

8 The draft strategy describes our current
9 thinking. It is a proposal; it is a draft. You
10 know, in developing that strategy, we have been
11 coordinating with USDA's Office of Pest Management
12 Policy. They have been contributing to potential
13 mitigations, as well as some of the potential
14 exemptions. And as I mentioned, as the species are
15 covered by the Fish and Wildlife Service, we've also
16 been working with them and coordinating with them
17 regularly during the development of the strategy and
18 we will continue to.

19 Next slide.

20 Okay. So how much mitigation? I wanted
21 to -- if you haven't seen it, I wanted to show you
22 an example of how we're thinking of trying to
23 display in a simple manner how much mitigation is
24 needed for each chemical. Basically, the draft
25 strategy is designed such that the level of

1 mitigation relates to the magnitude of the protected
2 population level impacts. So what we mean there is
3 low, medium, and high.

4 So herbicides with higher levels of
5 protected population level impacts would need more
6 points. And that's basically what you're seeing on
7 this table right here. An herbicide with lower
8 projected population level impacts wouldn't require
9 as much mitigation as one of those herbicides with
10 higher level impacts.

11 In terms of the proposed mitigations --
12 and Jake kind of alluded to this earlier at the
13 beginning of his talk, the herbicide strategy
14 reflects mitigation measures that are often already
15 implemented by growers and identified by pesticide
16 applicators.

17 The other thing that I'll add after
18 working in the Office of Water for decades is that
19 the runoff mitigations are very consistent with the
20 types of mitigation that the Office of Water has
21 been using for years to reduce runoff from other
22 types of activities as well.

23 The strategy is also designed to provide
24 flexibilities to growers so they can choose the
25 mitigations that work best for their situation.

1 Next slide.

2 So this is an example or this probably is
3 the mitigation menu that we proposed in the
4 herbicide strategy to reduce runoff and erosion.
5 Before I talk about this, though, I should mention
6 spray drift. Spray drift, the draft strategy also
7 provides some flexibility, but it's not quite this
8 level of a mitigation menu. The mitigations that we
9 propose should be familiar to all of you because of
10 the types of mitigations we've been putting on
11 pesticides under FIFRA for years now.

12 Moreover, the proposed approach for
13 identifying the level of mitigation for spray drift
14 is built on existing analysis that we have typically
15 done under FIFRA.

16 For runoff here, obviously, we proposed a
17 mitigation menu. Like I showed you earlier, we
18 assigned each mitigation a number of points. So
19 some of these mitigations will get more points than
20 others and we're trying to provide flexibility for
21 the growers to use whatever practices that are
22 applicable to them and particularly to use the ones
23 that have higher efficacy where they can.

24 The strategy also describes our current
25 thinking on some exemptions or alternatives, such as

1 when pesticide users are enrolled in conservation
2 programs.

3 Next slide, please.

4 So where would mitigation apply?

5 Herbicide strategy, we're taking -- we proposed a
6 different approach than we've done in the past. I
7 think you all know that when we establish PULAs,
8 sometimes we establish them for groups of species
9 and sometimes we establish them for individual
10 species. But, historically, what we've done is do
11 those on a pesticide-by-pesticide basis.

12 Obviously, that's not an approach we can
13 use for an herbicide strategy that applies to about
14 1,000 species and most conventional pesticides and
15 uses of conventional pesticides, I mean in
16 agriculture. So for the herbicide strategy, we
17 proposed to group plants based on their sensitivity
18 to pesticides rather than attempting to develop
19 individual bulletins for hundreds of species.

20 Next slide.

21 So where are we and what are the next
22 steps? So what I want to reiterate -- it's just
23 like the vulnerable species -- this is what we
24 proposed. As I mentioned, we're working through a
25 lot of comments and we can adjust before finalizing

1 the strategy and also as we implement it.

2 I can tell you that a lot of the comments
3 that we have been seeing so far are similar to the
4 ones that we received on Vulnerable Species Pilot.
5 People are looking for more options for specialty
6 and minor crops. People are looking for more
7 information on the conservation plans and
8 exemptions. People are looking for more credit or a
9 different kind of credit, whether you're on the west
10 portion of the United States or the eastern portion
11 of the United States. So those are the types of
12 things that we are working through right now. And I
13 think you all know that we have a final herbicide
14 strategy that's targeted for May of 2024.

15 So next slide, please.

16 So I just want to give a quick overview of
17 some other strategies that we are working on. In
18 May, I provided an overview of a regional strategy
19 for Hawaii that is a joint effort between EPA and
20 the Fish and Wildlife Service. And the goal of that
21 effort is for the two agencies, with the input of
22 select stakeholders, to agree on how our pesticide
23 decisions can efficiently comply with ESA for the
24 Hawaii species. As an update, we're making really
25 good progress and are now planning to have our

1 workshop with key stakeholders in March.

2 We are also actively working on developing
3 an insecticide strategy, like the herbicide
4 strategy. That strategy is a broad approach to
5 reduce spray drift and runoff transport to listed
6 species from agricultural fields treated with
7 conventional insecticides. It is going to focus on
8 addressing impacts to exposure from invertebrates
9 and the resulting impacts to species that rely on
10 insects, say, as, you know, for food and/or for
11 pollination. And, again, we're going to identify
12 any needed mitigations and the extent of those
13 mitigations. We're focusing on invertebrates
14 because they're the most sensitive group to
15 insecticides.

16 Jake mentioned the "megasuit" settlement.
17 The "megasuit" settlement has a date that we need to
18 complete a draft strategy by July and a final
19 strategy no later than March 2025. We are currently
20 working on developing the draft and we are striving
21 to get that proposal out a little bit earlier,
22 probably June is what we're striving for. We'll see
23 if we can get there.

24 The next one I want to mention is our
25 rodenticide strategy. I think most of you are aware

1 that we've been working on a BE as a single BE for
2 11 rodenticides. Again, this is another efficiency
3 that we're implementing. It's the first time we've
4 tried to do a bunch of chemicals in a single BE.

5 It also is going to include our proposed
6 rodenticide. Unlike the herbicide strategy, this
7 strategy is designed to prevent the potential
8 likelihood of future jeopardy findings for the
9 species that we're predicting might be in that
10 category in the draft BE and also for the critical
11 habitat. So that one addresses -- will address all
12 the species. And we are targeting a final BE and
13 strategy in November of 2024, and rodenticide draft
14 BE and strategy, we'll be releasing that within the
15 next month.

16 And last, but not least, one other one I
17 want you all to be aware that we will be working on
18 in the future is a similar strategy for fungicides,
19 and we do not have a date for that as of yet.

20 And that's it for EPA. Thank you.

21 FEMALE: Ed, can you turn on your
22 microphone, please?

1 ED RUCKERT: That's all right. Usually my
2 voice is enough that it doesn't need a microphone.
3 My apologies.

4 In any event, U.S. farmers grow more than
5 500 types of fruit, vegetable, tree nut, flower,
6 ornamental, nursery, and turf grass crops in
7 addition to the major bulk commodity crops.
8 Specialty crop production accounts for more than 60
9 billion dollars or approximately 40 percent of total
10 U.S. crop receipts.

11 So what I will discuss with you today
12 reflects some overall reactions to and concerns with
13 ESA implementation efforts that MCFA members have
14 expressed. That's not to suggest that MCFA concerns
15 are isolated from the rest of the agricultural
16 community. Similar or related concerns have been
17 expressed by representatives of the major
18 commodities as well.

19 From the outset, I want to be clear that
20 MCFA supports the agency's commitment to meeting its
21 ESA obligations for all its pesticide registration
22 and reregistration review actions. The sticking
23 point is discerning what those obligations are and
24 how best way to address them. MCFA's members
25 understand the litigation dynamic that's been

1 driving this issue for years.

2 They recognize the agency's strong desire
3 to develop an ESA program which demonstrates, I
4 think particularly to the various NGOs that have
5 been plaintiffs in that litigation, that the agency
6 is serious about fulfilling its ESA
7 responsibilities, showing enough commitment that the
8 NGOs refrained from using the courts to challenge
9 the program.

10 Additionally, MCFA's members understand
11 the current resource constraints confronting EPA, as
12 well as the services. Our members have been saying for
13 years that part of the solution to the ESA pesticide
14 issue has to include additional resources. The
15 absence of those resources can affect the agency's
16 ability to refine issues and approaches.
17 Admittedly, the prospect for additional resources
18 looks rather bleak at the moment.

19 Now, with that as a background, I intend
20 to briefly touch on the following five areas:
21 Concerns with the time allotted for commenting on
22 proposals; concerns with the apparent precautionary
23 approach reflected in the proposals; the need for
24 the agency to refine its risk assessment
25 methodologies, as well as the geographical areas

1 where mitigations may be required; the need to
2 further refine or clarify the mitigation exemption
3 process; and the need to reconsider and expand the
4 mitigation measures menu.

5 Now, regarding the commenting process,
6 MCFA members have expressed strong concerns
7 regarding the relatively short time frames allotted
8 by the agency to review, digest, discuss internally,
9 and prepare comments on the agency's proposals. The
10 proposals and their support information are
11 voluminous and very technical. For MCFA, assembling
12 meaningful comments requires the input of various
13 growers throughout the nation.

14 Agriculture is not monolithic. Production
15 practices can vary among commodities, as well as
16 within the same commodity grown in different
17 geographical regions. The fact that a substantial
18 number of farmers are farming on rented land is also
19 an additional complexity. It also needs to be
20 remembered that responding to EPA proposals dealing
21 with significant issues that could affect future
22 farm practices is layered on top of what a farmer
23 normally deals, i.e., the daily typical problems in
24 producing and marketing their crops.

25 Growers appreciate that the agency has

1 provided some brief extensions of the comment
2 periods. However, the extensions are simply not
3 long enough. There's a general feeling among MCFA
4 members that they are getting squeezed by the
5 relatively short agency comment periods. And while
6 they're not walking away from the process, they are
7 frustrated.

8 Just to bring this back, this morning Ed
9 went through and listed just for 2023 the variety of
10 measures that the agency has been involved in and
11 issuing this past year. It is overwhelming. And
12 this is their day job. I mean, this really -- this
13 is what they are about. Right? That is part of
14 their business.

15 But for the people that are impacted, they
16 have their own day jobs. So again, growers want to
17 be part of the process. We intend to be part of the
18 process, but it takes time and time is probably, for
19 all of us, the biggest problem.

20 Before moving on, there's one other
21 additional point. Many growers have expressed
22 frustration that taking the time to provide
23 substantive comments, the agency response to those
24 comments is not readily forthcoming.

25 Ed, my understanding is that EPA is

1 looking at the issue.

2 Apparently, EPA intends, at some point, to
3 make a catalog of its responses to submitted
4 comments, such that there will be greater clarity
5 and transparency. That's a worthwhile aspirational
6 goal from MCFA's perspective.

7 Now, regarding the agency's screening
8 level approach, there is a general feeling that the
9 draft Vulnerable Species Pilot Program and the draft
10 herbicide strategy framework reflect an overly
11 precautionary approach. The potential risk or harm
12 to listed species at the population level, in the
13 opinion of a number of people, has not been
14 sufficiently identified or substantiated by the
15 agency. Its approach essentially presumes that the
16 pesticide products, when applied in accordance with
17 current labeling, are likely to harm listed species
18 or adversely modify their designated critical
19 habitat.

20 Among other things, it's believed that the
21 agency is overestimating the potential pesticide
22 residue exposure to listed species. Again, MCFA
23 understands why the agency is using this
24 precautionary approach. It reflects a strong, if
25 not overriding, interest in reducing litigation

1 risk, as well as potentially awarding the need for
2 formal consultation with the services when that
3 issue comes up.

4 However, the proposed approaches in the
5 draft VSPP and the draft framework -- herbicide
6 strategy framework, if finalized, may have
7 significant impacts on farm production practices.
8 Growers may have to implement various mitigation
9 measures -- Jan showed them -- thereby affecting
10 their agricultural operations and practices, their
11 profitability, as well as potential land values.
12 Consequently, before such measures are imposed, the
13 agency should determine that they are necessary and
14 appropriate.

15 In short, the program approach focused on
16 identifying reasonably likely population-based
17 impacts for pesticide use and then developing
18 appropriate responses to obviate those impacts. As
19 such, it's believed the EPA's underlying ESA
20 assessments need to be substantially refined. The
21 agency needs to analyze beyond the screening level
22 that's correctly reflected, for example, in the
23 draft HSF.

24 When higher tiered data are available for
25 a pesticide, those data should be evaluated and

1 fully integrated as part of the assessment.
2 Evaluations beyond the screening level should
3 include using probabilistic and spatial analysis
4 that have been demonstrated to be applicable to ESA
5 assessments.

6 By the way, everything I'm talking about
7 here has been reflected in comments not just by
8 MCFA, but by a lot of people, and it's recognized
9 that the agency is going through those. So that's
10 appreciated.

11 It appears that the current agency
12 approach does assume the worst case scenario occurs
13 everywhere, all the time, whereas it is generally
14 accepted that in reality there are ranges of
15 exposures and diversity in habitats across the
16 landscape. The agency has indicated it strives to
17 use the best available data in its assessments.
18 However, it's believed there are higher tiered data
19 available for many herbicides and other pesticides
20 that can be used to refine assessments to better
21 inform and avoid overly restrictive proposed
22 mitigations.

23 Another challenge that needs to be
24 addressed by the agency is the complexity of
25 assessing risks for listed species at the population

1 level. It's understood that there are multiple
2 tools and approaches, such as population modeling,
3 that already exist that can be used to assess
4 effects at the population level.

5 Population modeling was recommended by the
6 National Academy of Sciences for listed species risk
7 assessments and several population models for
8 terrestrial plants, including listed plants, which
9 integrate species-specific life history traits and
10 their ecological interaction and realistic exposure
11 profiles are believed available for risk assessment
12 purposes. And we're sure the agency is going to be
13 looking at that.

14 Now, in addition, to refining the
15 underlying risk assessment, EPA needs to
16 substantially refine the PULAs and the reliance on
17 species range maps in general, and specifically the
18 four geographically designed PULAs reflected in the
19 draft HSF. They are substantially overbroad,
20 thereby potentially sweeping into the regulatory
21 restrictions growers whose farm organizations are
22 not reasonably likely to affect species or their
23 designated critical habitat.

24 There is little environmental benefit from
25 overreach, at least to the listed species, but at

1 the same time we know it's going to have an impact
2 -- a direct impact on agriculture production areas,
3 notwithstanding a number of these decisions will be
4 down the road, but the framework which will be
5 applied to those decisions is being set now.

6 Now, even the environmental NGOs have
7 publicly recognized the need for refinement
8 regarding these potential areas. From our
9 standpoint, the NGOs are trying to assist in the
10 process as well, the environmental NGOs. They have
11 an interest. Their interest is protecting species.
12 We share that interest. It's, again, the approach
13 that should be used. We want to use a scalpel to
14 take care of the issue rather than a sledgehammer.
15 And we think more work can be done by the agency to
16 use a scalpel approach. (Inaudible) that's our
17 help.

18 And as Jan just indicated, the real good
19 news out of today is that the agency has indicated
20 they're working with the services on refining the
21 PULAs and applicable maps. So we're hopeful that
22 when those refinements take place, they will be in
23 place in time for when label mitigations have to be
24 followed by the growers.

25 Now, regarding exemptions and the

1 exemption process, MCFA members see great potential
2 value in the mitigation exemption process. The
3 mitigation exemption process related to runoff
4 and/or erosion mitigation plan implemented according
5 to the recommendations of a recognized conservation
6 or expert -- that's the touchstone -- need to be
7 practical and as expansive as possible. However,
8 EPA's acceptable parameters of such a program for
9 such exemption, what constitutes a recognized
10 conservation program, it just isn't clear.
11 Additional guidance is needed from the agency.

12 A number of specialty crop growers are
13 following conservation plans which result in
14 limiting the ability of a pesticide residue from
15 moving offsite through runoff or erosion to
16 nontarget areas. For example, in California,
17 there's the California Irrigated Lands Regulatory
18 Program, the ILRP. All commercial growers in
19 California are required to conduct a farm assessment
20 and, if necessary, develop an erosion management
21 plan that is overseen by the California State Water
22 Resources Board. The erosion management plan is
23 certified by eligible experts that have been trained
24 to conduct erosion management plans. It's believed
25 that the ILRP program is the type of program that

1 should meet EPA's objective of preventing runoff and
2 exposure to listed species.

3 Similarly, in Florida, the Florida
4 Department of Food and Agriculture Consumer
5 Services, Office of Agricultural Water Policy, has a
6 decades' long collaboration in place with Florida's
7 agricultural landowners and producers to implement
8 BMPs for limiting runoff of pesticides, nutrients,
9 and sediment while protecting water resources. Such
10 runoff elimination practices should be considered
11 applicable for protecting threatened and endangered
12 species.

13 By way of example, the State of California
14 documented that in 2022, nearly 425,000 acres of
15 citrus crops were enrolled in and following the
16 runoff prevention BMPs as were more than a million
17 acres of row, field, and vegetable crops. We ought
18 to take advantage of that. We ought to build on
19 that.

20 It's believed that similar programs exist
21 in other states. The agency should review each of
22 those programs and hopefully concur that if growers
23 are following the mandates of those programs, they
24 should qualify for the exemption. A viable
25 exemption process can serve as a significant

1 mechanism for reducing the potential burdens on the
2 affected grower stakeholders. MCFA encourages EPA to
3 increase its dialogue on this process with affected
4 stakeholders and also with USDA's Office of Pest
5 Management Policy, as well as the National
6 Association of State Departments of Agriculture.

7 As an aside, I want to state that the
8 representatives in OPP that are dealing with this
9 issue, from Jake on down, have had a very open-door
10 willingness to meet with stakeholders on this, and
11 we really do appreciate that. And you're not going
12 to like it, but we need more dialogue. This issue
13 is going to be solved by dialogue among people to
14 share ideas, share approaches. Again, we all want
15 to get to that endpoint. We don't want the program
16 shut down for failure to comply with ESA. We want
17 to comply with ESA. Again, it's how you get there.

18 Now, regarding the mitigation menu, MCFA
19 applauds the agency's offering a series of
20 mitigation options rather than a one-size-fits-all
21 approach. However, for many specialty crop growers,
22 the current menu of mitigations doesn't present
23 practical or economically feasible choices. That's
24 understandable since the acknowledged source of many
25 of these proposed mitigation measures is the USDA

1 Natural Resources Conservation Service, NRCS.

2 And while historically NRCS has been
3 substantially involved with the major groups, it has
4 little or no involvement with specialty crop
5 growers. The agency should reconsider some of the
6 parameters of the existing potential mitigation
7 measures, as well as increasing the menu of
8 potential mitigation options. In the case of the
9 VSPP, many growers have advised they would be unable
10 to feasibly implemented four mitigation measures.
11 They can't do it.

12 Similarly for the draft HSF, there are a
13 large number of growers who simply will not be able
14 to meet the nine points that would be required --
15 that may be required to use some herbicides. We
16 understand that's yet to be determined, but nine
17 points is out there. A grower is going to conform
18 their operation to the chemical that they need which
19 has the highest number of points. And when you say
20 to somebody we'll just switch out the chemical and
21 stop using it, there are consequences to that. It
22 changes their production pattern and, in some cases,
23 may result in more chemical being applied. So that
24 just needs to be kept in mind.

25 This whole effort will likely result in

1 growers having to consider significant changes to
2 their crop protection weed management programs.
3 Such changes may result in unintended consequences,
4 such as an increase in weed resistance. If you cut
5 back on the rates, the opportunity for weed
6 resistance skyrockets. Or potentially, even
7 ultimately, existing farming forever. They will
8 just sell out to a commercial developer.

9 No offense to any commercial developers in
10 here, I don't see moving from a farm operation to a
11 commercial development as really furthering the
12 purposes of the Endangered Species act. It seems to
13 me that commercial development is one of the biggest
14 stressors on endangered and threatened species. So
15 that's not a good development. We don't want to
16 have that happen.

17 Now, again, we just believe that there
18 needs to be additional dialogue with EPA on
19 potential mitigation options and we've offered to
20 partner with EPA on a workshop, a mitigation
21 workshop, that would be a good place to bring people
22 together and share ideas, including the services so
23 they could hear this.

24 And with that, I'll end my comments, but
25 thank you for the time.

1 ED MESSINA: Thanks for those great
2 comments.

3 FEMALE: Nathan?

4 ED MESSINA: Nathan is up. We'll throw
5 your presentation up and we'll take questions.
6 Nathan is going to talk next.

7 NATHAN DONLEY: All right. Well, thanks
8 for the opportunity to speak here about our
9 perspective.

10 My name is Nathan Donley. I am a
11 scientist at the Center for Biological Diversity.
12 We've been involved in this issue for a long time,
13 as many of you probably know. So I'm going to give
14 our perspective on this issue.

15 I want to start by taking kind of a
16 10,000-foot view here, because when we talk about
17 the details and the impacts and stuff like that, we
18 kind of miss the big picture of why we're here, and
19 I think it is good to remind ourselves of that every
20 once in a while. So you can go next.

21 Why are we here? So believe it or not,
22 this might actually be summed up best in the
23 immortal words of Richard Nixon, which admittedly
24 sounds kind of like the setup to a bad joke, but,
25 you know, he said nothing is -- upon signing the

1 Endangered Species Act, nothing is more priceless
2 and more worthy of preservation than the rich array
3 of animal life with which our country has been
4 blessed.

5 And not many realize this, but the
6 Endangered Species Act was bipartisan. I think out
7 of 460 or so votes in the House and Senate, there
8 were only four votes in opposition and it was signed
9 into law by a Republican president. So I mention
10 this because, you know, there was a time in this
11 country where we came together collectively and
12 said, we need to go to any length to save wildlife
13 from extinction. You know, it was us taking
14 ownership of what we are capable of when we're at
15 our worst. And I would argue that it's really our
16 moral responsibility to these species. They are on
17 the brink because of us and the least we can do is
18 try and prevent their total loss and extinction.

19 And, you know, the Endangered Species Act
20 has been very successful. We're talking about 99
21 percent of the species listed have been saved. It's
22 estimated that about 300 species that exist right
23 now today would be extinct if it wasn't for the
24 passage of this law. Three hundred species, that's
25 heavy. It is just such an important piece of

1 legislation. And many more species have seen their
2 declines plateau. Some have even seen them reversed
3 to the point where they no longer need federal
4 protections. And that's what we want to see.
5 That's a mark of a successful piece of legislation
6 right there.

7 And I will concede that there is one
8 serious design flaw with the Endangered Species Act
9 and that is it has been implemented. You know, you
10 got to follow the law. You got to do the steps to
11 save the species. And that's ultimately why we're
12 here, is EPA on the precipice of starting to do
13 that and that's a really good thing.

14 You can go next.

15 So next month will be 50 years that the
16 Endangered Species Act has been federal law in this
17 land. And, you know, EPA has not been compliant
18 with that law for the past 50 years. And I want to
19 mention that this is a law, the Endangered Species
20 Act, that nearly every other industry complies with
21 in this country, the mining industry, the timber
22 industry, developers. You know, everyone is
23 compliant with this law. So nothing novel is
24 happening here. No one is singling out the
25 pesticide industry. This is just normal for other

1 industries in this country and it is important that
2 every industry is held to the same standard.

3 And that's to say pesticides are an outsize
4 threat to species. Species face many threats.
5 There are some species out there that face -- you
6 know, that have absolutely no risk from pesticides
7 whatsoever, species that live in caves or they're at
8 high elevations where there's no pesticide use. So
9 you don't -- there's just, you know, species out
10 there that the risk is negligible from pesticides.
11 And on the other hand, you've got species where
12 pesticides are a primary threat, like the Poweshiek
13 skipperling there, the Dakota skipper. You know,
14 these species -- pesticides are really hitting them
15 hard.

16 And then most species fall somewhere in
17 between where pesticides are one of probably five or
18 six threats. But as, you know, other industries
19 have been compliant with the ESA, some of those
20 threats have been minimized to some extent, and that
21 hasn't happened with the pesticide industry right
22 now and that's what needs to be addressed here.

23 And I want to acknowledge two equally
24 valid, equally important perspective here. And one
25 of those you just heard, from pesticide users. I

1 just heard there is a lot of frustration on the part
2 of pesticide users. There is a sense that this is
3 going way too fast, a sense that this is really
4 complicated, you know, and, quite frankly, a lot of
5 fear, what does this mean for my business, what does
6 this mean for my livelihood. I personally think a
7 lot of those fears are misplaced and I don't think
8 the impacts are going to be as high as many people
9 have said here today. But at the same point, I
10 understand that perspective. It's a valid
11 perspective. If I was a pesticide user, I would
12 probably be feeling the same way.

13 But I want to give another perspective
14 that doesn't get discussed very often that's equally
15 important and equally valid, and that is of these
16 listed species and those of us who try to speak on
17 their behalf as best we can and those of us who
18 value a biodiverse planet. You know, some of these
19 species have been waiting for these protections for
20 50 years. I mean, you know, that's longer than I've
21 been alive. It's been an entire human lifetime that
22 some of these species having been waiting for these
23 protections that they are legally entitled to under
24 our laws. And I just want to acknowledge that.

25 You know, it's easy to say that this is

1 tough, and it is. No one particularly one wants to
2 be here. You know, I would say that no one is
3 really happy in the place we're in. One perspective
4 thinks this is happening way too fast. Another
5 perspective thinks this is happening at a snail's
6 pace. But what needs to happen is this has to go --
7 you know, we need to put these protections in place.
8 There is no other option here.

9 The longer we put this off, the longer you
10 can say the oil and gas industry is doing more to
11 comply with the ESA than this industry. And let me
12 tell you, that's not a good look.

13 I hear from farmers a lot that farmers are
14 the original environmentalists and farmers are good
15 stewards of their land and good stewards of the
16 environment. Don't just say it, show us, prove it.
17 Because if someone tells me that -- you know, if a
18 farmer comes up to me and tells me they are a good
19 steward of the environment, the whole industry is
20 not in compliance with one of our bedrock
21 environmental laws. You know, those words ring
22 hollow to me.

23 So let's roll up our shirt sleeves, let's
24 get this done as quick as possible. The sooner we
25 get through this, the sooner species will be

1 protected, the better the image of the industry and
2 EPA can use its resources on other pressing issues.

3 Next.

4 So we know why we're here, but what's the
5 goal. What are we trying to achieve? And the goal
6 really is to make endangered species not endangered
7 anymore. We need to prevent extinction and give
8 these species the breathing room they need to stop
9 treading water and, you know, get out of the pool
10 and start recovery. Get delisted. Ultimately,
11 that's the goal.

12 And the Endangered Species Act has been
13 really successful. We know how to do that. We need
14 strong, targeted mitigations. That's how we save
15 species.

16 Admittedly, how best to do that is a work
17 in progress. EPA is embarking on a process here
18 that hasn't happened anywhere else in the world.
19 There is no play book on how to do this. The scope
20 here is immense. And I think they've got a really
21 good start on some programmatic strategies to move
22 forward here. Particularly, I think they've
23 identified a menu of options -- of mitigation
24 options that when combined can, you know, put in
25 place some good mitigations. But what's clear to us

1 is that, right now, EPA's having trouble targeting
2 those mitigations and that's something that really
3 needs to be addressed moving forward.

4 And when I say EPA is having trouble
5 targeting those mitigations, what I mean is the maps
6 they're using are just -- they're not ready for
7 primetime. They're not ready to be used to develop
8 PULAs with, pesticide use limitation areas. They
9 are subpar. They're -- you know, they're just --
10 they're not there. They're not targeted. They're
11 not precise enough. And what I mean by that is most
12 of them are overly broad.

13 And you may be asking yourself, why on
14 earth is the Center for Biological Diversity up here
15 saying that these maps are overly broad? Isn't that
16 what they want? Don't they want more land to be
17 subject to all these mitigations? And the answer is
18 absolutely not.

19 In the context of FIFRA, let me be clear,
20 I think pesticide use needs to come down
21 considerably. I think the societal benefits would
22 be huge and it would help protect communities in the
23 broader environment. But, you know, I'll continue
24 to fight for that in the context of FIFRA, in the
25 context of registration and registration review.

1 But in the context of ESA, that's not the goal. The
2 goal is to protect species. And when you have range
3 maps that are overly broad, it can actually cut
4 against your conservation goals.

5 I'll give you an example. If you've got a
6 species that exists just in a few pockets throughout
7 a state and the Fish and Wildlife Service range map
8 says that that species exists in half of that state,
9 you know, let's be honest, EPA is not going to put
10 in place strong mitigation measures across half of a
11 state. It's just not going to happen. So what
12 we're going to be left with is weak mitigation
13 measures across half a state when what we really
14 need is strong mitigation measures in those small
15 pockets that those species are in. That's how we
16 save species. We know how to do it. So we just
17 need better maps right now.

18 And I am going to go through a really
19 short exercise with you on how we envision EPA could
20 develop some sort of like interim process to develop
21 PULAs that are justified and pass the smell test,
22 you know, because ultimately this is the job of the
23 Fish and Wildlife Service and they need to do this,
24 but it's going to take them awhile. So EPA has to
25 develop its own PULAs in the interim. I mean, from

1 our perspective, it just has to happen.

2 So we've kind of gone through an exercise
3 and a case study -- we can change the slide -- on
4 how we envision some sort of interim process could
5 work to tighten up these PULAs and make them more
6 precise and targeted.

7 So, the example I'll use here is the
8 Valley Elderberry Longhorn Beetle. This little guy
9 exists in the Central Valley of California. And I'm
10 just going to go through kind of like a -- I don't
11 know -- work plan or something like that that we
12 have sort of conceptualized on how EPA, maybe in
13 conjunction with the services, could go about
14 tightening up some of these PULAs.

15 Next.

16 So the sort of blueish map on -- what is
17 that -- yeah, your left is the pre-2017 range map
18 from Fish and Wildlife Service. These maps aren't
19 on the same scale, so sorry about that. The one on
20 the left is a much larger area of land. So that
21 like covers a fifth of the State of California.
22 This is not the range of the Valley Elderberry
23 Longhorn Beetle. And so Fish and Wildlife Service
24 has refined that range just this year, but it still
25 says the range of this beetle is like the entire

1 Central Valley of California.

2 And this beetle is primary riparian
3 obligate, so that means whenever you see it, nine
4 times out of ten, it's going to be on an elderberry
5 bush on the side of a riverbank. It wants to be
6 where the land meets the water.

7 As much as I would love for the Central
8 Valley of California to be this vast riparian oasis
9 that has, you know, wonderful species in it, it's
10 just not that. So to say this beetle exists in the
11 entirety of California's Central Valley, you know,
12 it's just not -- it's not justified. So this is
13 kind of step one in our process of updating a PULA
14 here for this species.

15 So, you know, EPA, if they developed a
16 PULA now, it would be that right-hand green polygon
17 here. That's a lot of area for a species that
18 exists just on a single plant in a riparian area.

19 Next, we can go to critical habitats.
20 Some species have it designated; some species don't.
21 Unfortunately for the Valley Elderberry Longhorn
22 Beetle, the critical habitat sucks. It doesn't
23 encompass any of the known areas that we know this
24 beetle to exist. It was developed like 40 years
25 ago, so it's way outdated and it's not useful for a

1 PULA. But for a lot of species, critical habitat
2 can be a really good start to develop a PULA from.

3 So the next step in this process is to
4 basically just pour through Fish and Wildlife
5 Service documents. Fish and Wildlife Service does a
6 ton of analysis when species are listed and
7 throughout -- over time as that species is still
8 listed on the Act. They do five-year reviews,
9 recovery plans, SSAs. So all these documents have
10 really good data in them that can be mined to
11 develop a PULA.

12 And we did this -- the most recent five-
13 year review includes this map. These are, you know,
14 known extant occurrences of the beetle. You can
15 see, again, it just exists along rivers. That's the
16 habitat it likes. And the Fish and Wildlife Service
17 documentation has sort of a list of where these
18 occurrences are and priority river systems there.
19 And then they -- you know, they have some
20 methodology where they look at, sort of, local --
21 what are called exit holes.

22 So it's rare to actually see an adult
23 beetle in the wild because it spends most of its
24 life cycle burrowed into the wood of the elderberry
25 plant, and then when it -- after it pupates and

1 becomes an adult, it chews through the wood and
2 forms what's called an exit hole. So when you do
3 surveys for this species, you're just looking for
4 exit holes, not adult beetles. And when you have,
5 sort of, local clumps of exist holes, you can kind
6 of just draw a polygon around that and that is --
7 part of it is extant range.

8 You can go next. Next slide.

9 So we did this. And for most species,
10 that's enough. That would be enough to develop a
11 good PULA from. For this, the Fish and Wildlife
12 Service cited the California Natural Diversity
13 Database in its documentation, which is updated kind
14 of regularly. So this database could be mined over
15 time to update a PULA if EPA were to develop
16 something like this in an interim process.

17 So here you go. I mean, you know, the
18 PULA originally would probably have been this green
19 polygon. Now, it's these tiny red dots in
20 California. We believe this PULA is more targeted
21 and still protective of the beetle. We've got like
22 a 99 percent reduction in this PULA just by saying,
23 okay, the range map, it just ain't up to snuff.
24 Let's go through these documents, see where this
25 habitat is, where we know this beetle is and protect

1 those areas. So I imagine this probably looks quite
2 a bit -- much more nice to growers to see a lot less
3 impactful.

4 But I want to be clear, there's got to be
5 a tradeoff here because while that green polygon
6 there is potential beetle habitat in some bizarro
7 world that doesn't exist, now we're looking at
8 species are there in those red dots. There's no
9 uncertainty. So that just requires a different
10 calculus on how we need to implement protections in
11 these areas. So whereas there would probably be
12 relatively weak mitigations in that green polygon,
13 with an updated PULA like this, now we need to be
14 talking about much, much stronger mitigations being
15 put in place.

16 For some really sensitive species, that
17 can mean things like pesticide use restriction areas
18 in these tiny red dots in California. For other
19 species, again, you know, a lot of runoff points.
20 Maybe no spray buffers in the hundreds of feet. I
21 think that's what we need to be talking about here.
22 We can tighten up these PULAs considerably, but when
23 we do that, now we know species are in these areas
24 and we need to be talking about very difficult types
25 of mitigations there.

1 You can go to the next slide.

2 So that's kind of an overly simplistic
3 view of the process we went through to update this
4 PULA and it took two of our staff about three hours
5 to do this from start to, you know, lines on a map.
6 So this is scalable. I think this is probably
7 doable. It's not going to be much fun, let me tell
8 you. But I think it's something that EPA should
9 seriously consider to make these maps more
10 trustworthy, let's just say.

11 And the nice thing is when new service
12 documents come out, when databases get updated,
13 PULAs can get updated, too, and we can keep, you
14 know, adding dots to this map and taking them away
15 as, you know, the science says.

16 Yeah. So next slide.

17 So let's figure something out here. I
18 think, right now, our focus is coming to the table
19 with other stakeholders with ideas to make this
20 process work better. Like I said, I think EPA has a
21 really good start, but this can be made to work
22 better for both species and growers. I have no
23 doubt in my mind that that is possible.

24 I want to highlight this bold area here.
25 Changes and ideas still have to be adequately

1 protective of species in a manner consistent with
2 the conservatism built into the ESA. I know there's
3 a lot of frustration out there that the ESA is a
4 precautionary document. It just is. It's a strong
5 environmental law. It's not FIFRA, let me tell you
6 that. So we need to be adequately protective of
7 these species. If we're not, you know, again, the
8 threats to them -- this isn't just generic impacts
9 or, you know, anything else. We're talking about
10 their entire existence that's on the line. And
11 that's the greatest threat you could have as a
12 species.

13 So I think, moving forward, this could
14 work better if stakeholders get together and start
15 discussing serious ideas. How do we make this
16 process work better for growers and for species?
17 Because I think it can. It requires some trust on
18 the part of stakeholders to come together and talk
19 about these things. It requires transparency and I
20 think a genuine desire to see this work, which I
21 think that everyone has.

22 So I would love to sit down and talk to
23 people. We'd love to get together. Not that you
24 need our approval or endorsement for anything you
25 propose to EPA, but, you know, here's my pitch. If

1 a bunch of diverse stakeholders can get together
2 and, you know, hash some things out, we can go to
3 EPA and say, listen, we disagree on like 80 percent
4 of things, but we've got 20 percent here where we
5 found common ground where this could work better for
6 growers and species, do this, I mean, EPA would
7 be hard-pressed not to seriously consider that
8 proposal.

9 So there you go. For what it's worth,
10 reach out if you'd like. We're happy to be a party
11 of any conversations, give our thoughts on any
12 proposals you all have and just generally talk this
13 over. I think there is common ground absolutely.
14 Like I said, with the maps, developing an interim
15 process to update PULAs, I think there's common
16 ground there absolutely.

17 I think there's common ground on maybe
18 trying to figure out some ways to make these labels
19 a little more simple. From our perspective, a
20 complex label equals decreased compliance and
21 decreased compliance equals we're not meeting our
22 conservation goals. So, you know, we have an
23 interest in seeing these labels, you know, become as
24 simple as possible. They're never going to be
25 simple, unfortunately, anymore. That's just not --

1 that's a tough one. But, you know, I think there
2 are ways to make some of the mitigation menus and
3 maybe the point system a little more user-friendly.

4 Okay. Next slide. I think this is my
5 last slide. I'm sure I'm a little bit over time
6 here.

7 But I just want to end on implementation
8 because none of this is worth a hill of beans until
9 labels are changed, quite frankly. So labels need
10 to be changed and they need to be changed quickly
11 and equitably. And what I mean by equitably is they
12 have to be changed within a short period of time of
13 one another or else you're setting up a stage for
14 one product to have its label changed and its
15 competitor project not getting changed until five
16 years later. You're just setting up a competitive
17 advantage for another product and that's nothing
18 that EPA should get into at all.

19 And the way we think this can work best is
20 for EPA to use its Label Improvement Program. It
21 has the authority to do this. It's done it before.
22 Right now, EPA wants to do this in registration
23 review, which, fine, okay, but registration review
24 is a mess. I mean, it's not just the ESA, it's the
25 EDSP, too. I mean, it's been delayed already. Who

1 knows? It might get delayed again. Let's just
2 avoid the messiness and push this through in the
3 Label Improvement Program when we're ready. I think
4 it's a much better mechanism to do that.

5 And then, you know, I just want to end by
6 saying implementation is not going to affect all
7 pesticide users. I really truly believe that a lot
8 of users will have little to no impact at all from
9 this. But there are going to be some growers that
10 are in these lines. There just are. There's no way
11 around it. It's going to be a small minority of
12 growers, but that small minority of growers, I
13 think, are going to have pretty big impacts. They
14 may, in some cases, have to change the way they farm
15 and I know that can be scary.

16 And I really hope that USDA can play a key
17 role in giving these growers the support and the
18 help they need and I have no doubt that they're
19 probably going to need some help from Congress to do
20 this, either in the form of a mandate or resources,
21 and we're fully committed to supporting anything
22 like that and even working behind the scenes to get
23 it passed. But just like we have a moral obligation
24 to species, we have a moral obligation to help out
25 growers who are impacted by this. We really do.

1 And it should be something that we all work towards,
2 you know, regardless of our perspective here.

3 So I'm hoping that we can set up these
4 growers who are going to be impacted, set them up
5 for success and not failure. And that's all from
6 us.

7 ED MESSINA: Thanks for great
8 presentations today, really, truly moving and
9 informative.

10 So we have about a half an hour for
11 questions. Yep, so with that, tent cards up or
12 raise your hand online.

13 JEFFREY CHANG: Thank you, everyone. And
14 we can move to discussion. Just please remember to
15 state your name and affiliation before you speak.

16 We can go with you, Gary.

17 MALE: I believe that John Wise had his
18 hand up.

19 JEFFREY CHANG: Yeah, sure.

20 ED MESSINA: Yeah, even before Nathan
21 started talking.

22 JEFFREY CHANG: Yes, John. John Wise.

23 JOHN WISE: Does this mic work okay?

24 ED MESSINA: Yes.

25 JOHN WISE: Hi, I'm John Wise, Professor

1 of Entomology at Michigan State University, also
2 involved for 30 years with the IR-4 Project. My
3 comments will be through the lens of an
4 entomologist, so I'm thinking more about the
5 upcoming insecticide plan, but I think there are
6 some broad implications.

7 First of all, I want to thank Jake and Jan
8 for their presentation. Actually, I've had the
9 opportunity here, Jake, maybe three or four times in
10 the last month, so I've been --

11 JAKE LI: Sorry about that.

12 JOHN WISE: Yeah, sorry about that. No,
13 the only thing I'm sorry about is you are so popular
14 at the entomology meeting last week that you
15 couldn't stay through the entire symposiums and kind
16 of get some other ideas. So I have the opportunity
17 to share a couple of them with you now.

18 So I think many of the elements of the
19 plans that I'm seeing in the work plan, in the
20 guidance documents, are science-based, they're
21 logical, the target objective is correct, but
22 there's a couple pieces that are troubling and I
23 want to maybe just pick one primarily out here and
24 place it out and see how much you already recognize
25 it or maybe you'd like to hear what I have to say.

1 So you described, in one of the
2 presentations last week and I heard a hint of it
3 today, that one of the difficulties is that even
4 though using the normal review process is the most
5 efficient, that timeline is not going to work for
6 the agreement that you have with the settlement and,
7 therefore, you're looking for a way to get to impact
8 more quickly. If I understand it right, one of the
9 ways to get to that finish line more quickly to make
10 broader assumptions about -- I'm going to use the
11 term "insecticide toxicity."

12 And the reason that is troubling to me is
13 that when I think about 20th Century insecticides,
14 modern insecticides, which in many cases we call
15 them reduced risk pesticides, biopesticides, the
16 attributes of those three groups are quite different
17 where if you're thinking about a risk assessment,
18 the attributes of organophosphates, pyrethroids, and
19 carbamates, they are generally broad spectrum,
20 meaning that they would be toxic to a wide range of
21 arthropods.

22 That broad spectrum also applies to life
23 stage toxicity, so it might affect adults and larvae
24 and eggs. And they also, in terms of environmental
25 fate, they tend to be primarily surface residue

1 compounds. So the residues are retained on the
2 surface of the plant, which makes sense for a
3 contact poison if that's your intent.

4 Those attributes are very different than
5 the ten-plus classes of insecticides that have come
6 in the 21st Century. And so there must be a way to
7 take into account some of the selectivity. So in
8 some cases, we've got new insecticides that are only
9 active on one group of arthropods. Maybe it's
10 aphids and scale insects. And they would have no
11 activity -- toxic activity at all on beetles. Well,
12 why would you restrict that compound in the same
13 ways you would a carbamate when there's really no
14 gain? Nothing positive would come out of
15 restricting the use of that compound.

16 There's other new insecticides that they
17 may be toxic to the species or the family of insects
18 that an endangered species falls within, but only on
19 one particular life stage, maybe only on the larvae.
20 I'm thinking about methoxyfenozide and the Karner
21 blue butterfly. So if that Karner blue butterfly,
22 for example, is a larva for about three weeks in the
23 end of June, why would you restrict the entire
24 growing season from use?

25 Growers, at least specialty crop growers

1 that I work with in Michigan, they are very astute
2 at being able to read a label and know what timing,
3 according to growing degree days or other kinds of
4 verbiage on a label. A mitigation could also
5 include that type of language where it would be
6 mitigated on at the time in which that susceptible
7 life stage is present.

8 So those are pieces that, from my lens,
9 from a specialty crop perspective, would be
10 worthwhile considering as your kind of -- both at
11 the risk assessment stage and potentially at a
12 mitigation stage.

13 The last piece I wanted to add is that
14 many of the newer compounds have plant penetrative
15 attributes that change the biological risks after an
16 application. Where we said earlier, many of the
17 conventional products are sprayed to the surface,
18 that's where they are. Many of the newer
19 chemistries of reduced risk insecticides, they are
20 moving into plant tissue. And after a short period
21 of time, unless the plant tissue is consumed, it is
22 no longer a lethal exposure.

23 So those are the pieces that because of my
24 background and my research and my working with
25 specialty crop growers, I feel like it would be much

1 more useful to think about those elements at the
2 risk assessment and at the mitigation.

3 And I also -- I'd just add one last thing,
4 and that is, I think most of the growers that I know
5 in Michigan, if they thought that their pesticide
6 use was going to threaten the survival of an
7 endangered species, they would want to know what
8 they can do to not have that negative impact. On
9 the other hand, if they find out that a mitigation,
10 a sacrifice that they've made in avoiding a tool in
11 their tool box, actually, in the end, had no
12 positive effect because the policy was too broad and
13 sweeping, that would be a losing faith experience.

14 And my son, he's 25 years old, he says,
15 Dad, that's what they call virtual signaling. You
16 put something out there that sounds great, but it
17 has no real impact. Growers, I think can get behind
18 mitigations that have real impact and truly assure
19 the survival of the population.

20 So those are my thoughts. I'm glad to put
21 some things on paper if that's more helpful, but
22 thank you again for all that you do.

23 JAN MATUSZKO: Thank you for those
24 comments. I do want to clarify a couple of things
25 in your understanding of what we are doing and what

1 we're not doing in light of what you said.

2 The vast majority of insecticides that
3 we're seeing on the conventional side don't
4 necessarily fit in -- maybe we're seeing on the BPPD
5 side, but we're not seeing those on the conventional
6 side, because it's my folks that are doing the risk
7 assessment for these.

8 We do take those types of things into
9 consideration. We're not shortchanging the FIFRA
10 assessment. All those things that you're talking
11 about are things that we would look at as part of
12 the FIFRA assessment. We're not changing that. And
13 that FIFRA assessment starts as our screening level
14 assessment, whether we're doing a strategy or not
15 for our ESA assessments. So if we identify that
16 something is not a problem in the FIFRA assessment,
17 it doesn't move forward into the ESA assessment. So
18 I want to make that clear.

19 Where we're trying to do things faster is
20 the second part. We're trying -- right now, the
21 process that we use to predict the likelihood of
22 jeopardy and adverse mod, which is based on what the
23 Fish and Wildlife Service has done, right, it takes
24 them years to do it. It's taking us -- I can't tell
25 you how many people and months to do it. And as

1 we're doing these and we're doing more and more of
2 them, we're seeing connections that when you have
3 this or you have this kind of situation, that that's
4 what's leading to jeopardy. And that's the part
5 that we're really trying to speed up here and focus
6 on. So I really wanted to make that clear.

7 And the other thing is we totally agree
8 with you that sometimes it's about life stage,
9 sometimes it's about life stage of the chemical and
10 sometimes it's very much about the life stage of the
11 species. And so where we are aware of that
12 information, then that's where it's really helpful
13 to have really good information from the Fish and
14 Wildlife Service. When we build those bulletins, we
15 can say -- and we have done -- okay, this only
16 applies -- you know, you can't use it for these
17 three weeks or whatever what you're saying.

18 So we are going down that path and I have
19 some folks at my division that might be interested
20 in talking to you. So thank you.

21 ED MESSINA: Humans are outliving the
22 batteries here.

23 JEFFREY CHANG: We can go with Gary next.

24 GARY PRESCHER: Okay. Some really good
25 discussion and I'm going to be just speaking for the

1 Corn Growers Organization, which comments that we've
2 talked about, a lot of them parallel what we've
3 heard. The NCGA, we realize that there is a need
4 for the EPA to comply without unnecessary delay. We
5 do. I think we can all kind of see the writing on
6 the wall here in terms of what's happening.

7 I think we all understand there can be --
8 there will be some monumental shifts that take place
9 out there in terms of, where I can inform the end
10 user if I happen to be in an area that -- one of
11 those dots on the map, perhaps, for some more
12 focused mitigation practices or in a broad area.

13 I understand and like what I heard about
14 discussion, you know, to narrow things down as much
15 as possible instead of the broad sweeping efforts
16 and the scalpel. I kind of like that. In terms of
17 growers, I really do -- at least the folks I live
18 with in my part of the world, we care about what
19 we're doing because we have to live there, too,
20 number one, and we have families. But that's not
21 everybody, we realize that.

22 One of the challenges that I see as I move
23 towards retirement, as farms scale up and get
24 bigger, it becomes more generic and it's tougher to
25 implement -- to see conservation practices

1 implemented in terms of scale of economy and those
2 types of things. So there's that challenge, too,
3 that social changing challenge out there in terms of
4 larger farms, more efficiency in terms of other
5 things. But then we have the precision ag and the
6 robotics, you know, and the tools coming forward to
7 help us with some of that, too.

8 So the big thing we want to emphasize
9 here, from our perspective as corn growers, is the
10 timeline, hasty implementation, and we know that
11 there is a timeline, because it will force
12 noncompliance or a change to less conservation
13 sustainable practices when it comes to tillage, weed
14 control, disease control, those types of issues out
15 there, the unintended consequences. If we take a
16 tool away, we'll figure out how to get it done, but
17 it might not be the way we look at in terms of
18 sustainability metrics and the conversation efforts
19 that the industry is moving to now when it comes to
20 less soil erosion, runoff prevention, and those
21 types of things.

22 Last, I would like to just reinforce that
23 I think when you --

24 (Break in recording.)

25 -- an option of something out there either

1 new or controversial, the more collaboration that we
2 have with partners in the industry, I think that
3 just brings more people to the table faster in terms
4 of scaling things up.

5 We look at our -- I worked with industry
6 for 35 years, but I farmed, but also have a high
7 regard for our extension research folks in
8 Minnesota, for example. And so I look at when we
9 can bring extension folks together with industry
10 folks and folks in terms of the regulatory agencies,
11 be it in Minnesota regulatory folks or federal, I
12 think that's something we just want you to encourage
13 to do is work with everybody that's involved and
14 continue to take feedback, stakeholder feedback from
15 a lot of different areas.

16 And we really would like to continue to
17 work towards workable procedures for exemption and
18 more feasible mitigation measures, more flexibility
19 there. So I think that will just be ongoing as we
20 continue to move through this. So I appreciate that
21 and the conversation here.

22 JEFFREY CHANG: Thank you. Who's down
23 there? Walter? Okay. Mark. Sorry, it's hard for
24 me to see.

25 MARC LAME: But you can call me Walter.

1 ED MESSINA: I'm not sure Walter is going
2 to like that. He's sitting right next to you.

3 MARC LAME: He publishes a lot more than I
4 do. I'm Marc Lame and I'm a professor at Indiana
5 University's School of Public and Environmental
6 Affairs. I'm also an entomologist and I also spent
7 11 years as an IPM extension specialist working on
8 cotton in Arizona. So I come at this from more of
9 an environmental management viewpoint right now.

10 My concern is the idea of implementation
11 and enforcement with regard to what you guys have
12 come up with, which, by the way, I see as a very
13 elegant way to address your problem and you guys are
14 doing a great job. And I appreciate the office's
15 equitable offering of time to both sides. That's a
16 very good way to do things.

17 So we know that growers and pesticide
18 users, you know, they know, in some ways, best how
19 to protect species and what Professor Wise was
20 talking about as well. On the other hand, you also
21 have some other resources who know how to protect
22 species. States and municipalities where those
23 species are and where those institutions, in my
24 case, universities that are actually studying those
25 species in terms of right where they are and what

1 they are as opposed to from way back looking at
2 maps.

3 And so these municipalities and states are
4 -- should be considered resources. And, again,
5 species -- like farming is not monolithic; species
6 are not monolithic. It depends, as we already
7 talked about, their stage- and where --

8 (Audio lost.)

9 MARC LAME: All right. Thank you.

10 It's that, well, even the different
11 strains of species are going to have different ways
12 of acting and reacting. So, you know, there's lots
13 of variables out there, and I know you know that and
14 I know you're trying to incorporate that, but don't
15 lose sight of the resources in the states and with
16 the municipals that are out there.

17 And the reason I bring that up is the idea
18 of federalism, which I am not going to give a
19 lecture on. But just in general what that means is
20 power sharing. And sometimes, you know, states and
21 municipalities know better and they'll actually go
22 above and beyond regulations that the Feds put on
23 them and, you know, in federalism, you can't go less
24 strict than, but you can go more strict than.

25 So yet, there appears to be a movement

1 right now in Congress to preempt states and
2 municipalities from becoming really good resources
3 in their ability to help implement good practices
4 and your practices, maybe even a little stronger, at
5 the state and municipal level. And so the reason I
6 bring that up is, is I hope and this -- I don't want
7 this to get into a political conversation, but I
8 hope that you are aware of what is going on with
9 regard to that preemption and what it's going to
10 mean to you when it comes to implementation and
11 enforcement.

12 And so that is something to think forward
13 on. I think it is just really important that we
14 deal with that, which, of course, I consider that
15 preemption is a violation of federalism, but
16 regardless.

17 The final thing that I will say when it
18 comes to a lot of the scientific stuff here we
19 talked about today and Professor Wise talked about
20 and we'll talk about tomorrow, and what EPA,
21 particularly this office, is against a rock and a
22 hard place, and science changes always. And so
23 these things that we come up with now, it's going to
24 change and we have to make sure that people -- you
25 know, the mission is to protect human health and the

1 environment rather than to, you know, delay
2 recognition of changes so we can really accomplish
3 the mission.

4 So those are my comments.

5 JEFFREY CHANG: Thank you. Damon?

6 DAMON REABE: Yeah, Damon Reabe with the
7 National Ag Aviation Association. If my battery
8 goes dead, you don't have to come running with it,
9 I'll talk loud.

10 I guess I want to start off by thanking
11 the EPA for their presentation, the two presenters,
12 and particularly Nathan. That was an excellent
13 presentation, a great example of working together,
14 collaborating. I'm not saying that we collaborated.
15 The idea of what you're expressing is excellent. As
16 a pesticide applicator and somebody who's, you know,
17 deeply involved in agriculture, yeah, the size of
18 the maps is where -- I would say probably the
19 biggest hurdle.

20 We saw maps in the EPA's presentation that
21 showed PULAs to protect a certain type of plant that
22 is over Lake Michigan and Lake Superior, right? So
23 it's widely recognized that this is a problem. And
24 if part of the solution is getting from point A to
25 point B with extraordinarily targeted use sites --

1 or, I'm sorry, sites of the endangered species,
2 obviously, that makes this process dramatically
3 easier to implement and adopt.

4 I want to bring to the attention -- to the
5 committee and also continue to encourage the EPA to
6 do what they've been doing in regards to aerial
7 application. Our association has asked for more
8 complicated labels. We are actually, in fact,
9 asking for restrictions on pesticide labels. These
10 things that we're asking for are, in fact, very
11 enforceable. Oftentimes, it's simple equipment
12 installations that state-lead agencies can come and
13 look at to see that they are installed and, again, I
14 want to commend the EPA on working with us. We're
15 asking for more publicly.

16 We recently sent a letter to the EPA since
17 our last PPDC meeting outlining additional equipment
18 changes in the form of nozzles, effective boom
19 lengths, positioning of the spray boom relative to
20 the wing, rotor blades, et cetera, where we can show
21 that the drift coming from a crude aerial
22 application piece of equipment was one magnitude
23 less than the current Tier 1 ground application risk
24 assessment.

25 Now, I want to point out using Tier 1 for

1 ground risk assessments is dramatically
2 overestimating drift for what ground equipment is
3 doing. But the point is is that we're now measuring
4 the difference in how the risk assessment is
5 performed and the results of the risk assessment
6 versus what we're able to do by several magnitudes.
7 And it's really important in this particular subject
8 when we're talking about Endangered Species Act
9 compliance, we're asking that those inputs be
10 utilized in these assessments and the associated
11 label language is written. We are already doing
12 many of these things, and for those who aren't, we
13 want them to and we want to make it the law. And it
14 is -- this is all enforceable things.

15 The last thing I'll comment on is the NAAA
16 is working with a lot of stakeholders and has
17 presented the concept to the EPA on recoding the ag
18 drift model into a more current model, with the
19 long-term goal of actually doing site-specific risk
20 assessment that takes place and label language
21 actually becomes situational based on what's around
22 the actual treatment site itself, what the weather
23 conditions are at the time of application, what rate
24 was used, and then the post-application information
25 gets entered into current software that's used to

1 dispatch aircraft to then turn around and do a
2 subsequent risk assessment with new restrictions for
3 a subsequent application.

4 We understand this is a big list. We
5 understand it's many steps beyond what the EPA is
6 working on now, but I think the committee needs to
7 be aware of the concept and aware of the first steps
8 to adopting that type of practice, and that is to
9 update this ag drift model into -- it's like your
10 server, right -- into something that we can then
11 turn into a useable in real-time tool.

12 So thank you.

13 JEFFREY CHANG: Okay. Next person, Dawn?

14 DAWN GOUGE: Dawn Gouge, University of
15 Arizona. Thank you.

16 John, love it. Totally. I love it.
17 Thank you so much for all of that hard work that the
18 team put in.

19 I've got a few points. And what you've
20 outlined achieves what EPA has to do to do under
21 ESA. I want to say that first and foremost right
22 after thank you. You know, it certainly forces a
23 more thoughtful, strategic, judicious approach to
24 pesticide application in general.

25 I was in a meeting when Dr. Al Fournier

1 from the University of Arizona presented on the
2 Bulletins Two and the information that was shared
3 and it was largely horticulturalists in the audience
4 and the overall feedback that he solicited was, wow,
5 they wanted to know. They wanted to know. They
6 were thrilled to be able to find out and the fact
7 that there was such utility built into the system
8 and it was so easily accessed was remarkably
9 encouraging for me.

10 I'm an entomologist, I should have also
11 added that at the beginning. I think I did. So
12 keep that in mind.

13 In many ways, this may alleviate, in some
14 instances, some pesticide resistance issues, in some
15 instances, I understand, and may be supportive of
16 work protection, may be supportive of sustainable
17 practices in general. I think certainly range maps
18 can be finessed and refined over time. In fact, I
19 would just like to say that both the PULAs and the
20 species lists are going to be inherently dynamic
21 over time anyway. And I am absolutely certain that
22 you already have built in some flexibility to
23 account for those changes over time.

24 So I just think it's a fantastic effort
25 that meets what you're required to do as an agency.

1 Thank you very much.

2 JEFFREY CHANG: Before we move on, we'll
3 hear from the rest of the speakers in the room and
4 one person online and wrap it up.

5 So who was next?

6 FEMALE: So I'll do this really quickly. I
7 agree with most of the comments and thank you for
8 all the work that's gone in here.

9 I wanted to add two things. One,
10 Bulletins Live! Two, we have to check that within a
11 six-month period of time, and I just want to point
12 out in Northern Iowa, Southern Minnesota, we don't
13 think in terms of months, we think in terms of
14 growing seasons. So right now, we're checking
15 Bulletins Live! Two. We're making seed decisions.
16 We're working over the winter for our pesticide
17 programs to make sure they're complete and we have
18 products on hand and now extra products in the
19 field, and that gets us to April, which gets the
20 seed in the ground.

21 And if we would have to check Bulletins
22 Live! Two again and there are changes, that would
23 change our pest program that we've had set out for
24 six months. That causes all kinds of problems.
25 We're in a panic mode. We are trying to get

1 products in the field that aren't staged, that
2 leaves extra inventory in the field that we want to
3 avoid. So please in Bulletins Live! Two, when you
4 think of the time period to check, think of that in
5 terms of growing seasons and how long that needs to
6 be so we're not making a (inaudible) moment
7 decisions in the middle of our season when we're
8 halfway through.

9 The other thing I wanted to point out is
10 USDA has recognized certified crop advisors, the
11 NIACC, which are certifications. There's also the
12 licensure in California for PCAs. USDA and RMA and
13 through their technical service provider has already
14 recognized them as experts in the field and just
15 think about what their role is in ESA as far as
16 education, implementation, and consultation in the
17 field for that, because I think they would play an
18 important role in this.

19 JEFFREY CHANG: Thank you.

20 Bob Mann?

21 BOB MANN: Bob Mann with the National
22 Association of Landscape Professionals. I thought I
23 was going to get away with not speaking today, but
24 that didn't happen. Thank you, first of all, for
25 all the presenters today and, you know, the ongoing

1 dialogue is wonderful to hear.

2 I have to speak up because -- in response
3 to what Dr. Lame presented at the end of his
4 comments about the subject of preemption. There is
5 media out there that mischaracterizes what our
6 association, in conjunction with several other
7 associations, are trying to accomplish.

8 And it comes down to very basically this
9 that there was an error or a flaw or an oversight
10 back in 1972 when FIFRA was passed into law. And
11 what we're looking to do is simply to align current
12 policy with what both the House and Senate
13 Agriculture Committees wanted to do as far as who
14 was capable or allowed to regulate pesticides. And
15 in this case, it would be the Federal Government, in
16 cooperation with the state governments. And if you
17 look at it this way, there are some very smart
18 people from many different disciplines working on
19 this problem, not just the ESA, but just pesticides
20 in general.

21 And we're having a hard time with it.
22 We're making a lot of progress, but this is a very
23 deeply scientific topic. And if we -- our
24 experience -- and this is something that the green
25 industry is very much aware of, is that when you get

1 down to the lower levels of government, at the local
2 level, the science goes away and people make
3 decisions based upon emotion. And if that is
4 allowed to happen, then progress on something like
5 what Nathan pointed out in his presentation, where
6 you take half a state, a third of a state, and are
7 able to scientifically narrow that down to very
8 discrete areas, all of that progress goes away,
9 because people don't make decisions like that
10 emotionally.

11 So I just want to make sure that --
12 Professor Lane, I'm more than happy to go into this
13 much deeper with you if you want to have a side
14 conversation, but I thought that that would be -- I
15 really needed to make sure that I voiced that before
16 we wrapped up for the afternoon.

17 Appreciate it.

18 JEFFREY CHANG: Thank you.

19 Joe?

20 JOE GRZYWACZ: We're probably going long
21 -- I'm sorry, my name is Joe Grzywacz. I'm at San
22 Jose State University, and as a scientist, I'm about
23 to commit heresy, and that heresy is that EPA
24 apparently was founded on follow the law, follow the
25 science, and be transparent. There's something

1 missing in that equation because a fundamental part
2 of what we're talking about here is also the issue
3 of will.

4 As much as I respect -- I come from a farm
5 family, right. So I respect agriculture and
6 agricultural operators, but at the end of the day,
7 it comes down to individual people making individual
8 decisions. And I know that more often than not, at
9 least in some farmworker communities, farmworkers go
10 and not have their required worker protection
11 standard training because there's a quick need to
12 get things out into the field.

13 And I can't help but wonder whether or not
14 the same thing is going to happen with the
15 Environmental Species Act if we don't recognize that
16 this is a balance of science and human will. And
17 there needs to be those features built into the
18 balancing act of science and human will, and I do
19 think it starts at the level the conversation and
20 discussion and open doors and the opportunity to
21 meet, but we cannot remove the human element because
22 at the end of the day, as was just mentioned
23 excellently -- sorry, my old eyes, I can't see --
24 Bob.

25 At the end of the day, decisions are made

1 by human beings and those humans being are governed
2 by sometimes emotion, sometimes personal need,
3 sometimes personal desires and that's part of the
4 equation that can't be factored out of any given
5 algorithm.

6 So I just throw that out there because
7 it's the one piece that I haven't heard said yet,
8 but it balances the very conversations of this
9 morning between work protections and those kinds of
10 things with protecting human -- with protecting
11 endangered species. We protect endangered species
12 as a level of risk, but then when it comes to the
13 human health things, then it's more about, well,
14 we're willing to put up with some deaths in that
15 particular case because here it's all about driving
16 the economy.

17 So I just think it's really important to
18 not negate the importance of human decision-making
19 in how all of this unfolds.

20 ED MESSINA: And we're good on time, by
21 the way. We have one person who is going to do the
22 public comment period.

23 JEFFREY CHANG: Jasmine Brown, you're
24 welcome to speak.

25 JASMINE BROWN: Thank you. Jasmine Brown,

1 I'm with the Confederated Salish & Kootenai Tribes
2 in Region 8. I'm also the Tribal Pesticide Program
3 Council Chairperson.

4 And I just wanted to point out when we're
5 reviewing permits and applications, if people aren't
6 putting down a specific time frame of their
7 pesticide use, for endangered species reviews, we
8 have to assume that they are going to use that
9 pesticide in the area all year round and that
10 triggers it to be adversely likely to affect,
11 whereas if -- and I don't know if registrants or
12 anyone wants to consider this on the Bulletins Live!
13 or whatever mechanism they're using. But if they
14 can narrow a time down to three months or two
15 months, then we don't have to view it as they're
16 using all year round.

17 So that's a way less impact to a species
18 for one month versus 12 months. So I just wanted to
19 throw that out there.

20 Labels currently, there's very few that
21 have a specified time frame of use on them.

22 And then the other issue that TVPC was
23 beginning to discuss is all of the AI and farmer
24 apps. Most farms are now using apps for their
25 spraying and record-keeping and even supervision.

1 They might have a farm in Arizona and various
2 places. They are not being directly supervised
3 within 100 miles because they're being supervised
4 through a phone, which is very limited in
5 supervision of use.

6 And those are the only two comments I
7 wanted to share with the group. Thanks.

8 JEFFREY CHANG: Mark Johnson, you're
9 welcome to speak.

10 MARK JOHNSON: Yes, thank you. I wanted
11 to, first of all, say thank you to the OPP staff on
12 their openness with stakeholder groups, like the
13 turf grass industry. From the beginning, we've
14 said, you know, we're not row crops, the equipment
15 and technology is considerably different and I think
16 you're headed in a direction of collaboration with
17 everything we've done with you these past few
18 months.

19 For Jan, I guess, at least, one of the
20 things on the public comment slide that I don't
21 think you've listed was the impact to consultations
22 in the areas where, you know, we've already stated
23 growing degree days, growing season, those kind of
24 issues. Would you restate what you are doing, at
25 least in light of any public comments, on those

1 consultations that would have to take place in order
2 to use products?

3 And, number two, would you refresh my
4 memory on the herbicide strategy? Is that ag only?

5 And, again, thank you for working with
6 stakeholder groups as you have. We appreciate it.

7 JAN MATUSZKO: I'm trying. We're trying
8 to get the microphones to work.

9 So let me answer your last question first.
10 Yes, the herbicide strategy is for agricultural uses
11 in the lower 48 states only. That's the scope of
12 that one.

13 The other issue that you raised, I went
14 through those themes very quickly. You're right.
15 We did receive a lot of comments when we proposed --
16 we proposed that in certain areas, pesticide --
17 pesticide avoidance as part of the Vulnerable
18 Species, right. And as an alternative to pesticide
19 avoidance, we said folks could have conversations
20 with their local Fish and Wildlife Service as an
21 alternative.

22 And what we heard back was, well,
23 avoidance really isn't an option for us, so you're
24 basically requiring us to have conversations with
25 the Fish and Wildlife Service and there were

1 concerns about the resources of the Fish and
2 Wildlife Service to do that and there were also
3 concerns about how that process would work.

4 So that is a theme that I should have
5 mentioned. So thank you for raising it. It is one
6 that we have been looking at and it is one that we
7 will be discussing in the upcoming -- the Vulnerable
8 Species update we're going to do shortly.

9 JEFFREY CHANG: Thank you.

10 We will move towards public comments. We
11 have one person signed up today.

12 Virna, we will give you the mic and you
13 can speak for three minutes.

14 VIRNA: Good afternoon. My name is Virna.
15 I am the Vice President for Scientific Affairs at
16 the Northwest Horticultural Council. The NHC
17 represents growers, packers, and shippers of apples,
18 pears, and cherries in Washington, Oregon, and
19 Idaho. Together, our growers produce 70 percent of
20 the apples, supplying 80 percent of the U.S. fresh
21 market, 84 percent of the fresh pears and 74 percent
22 of the fresh sweet cherries grown in the United
23 States. Washington State produces 90 percent of the
24 Nation's organic apples.

25 These fruit growers in the Pacific

1 Northwest grow their crops using science and
2 research-based best practices. They perform
3 integrated pest management practices, including
4 scouting crops for pests to determine economic
5 injury levels and economic thresholds.

6 Before applying pesticides, they follow
7 insecticide resistance management programs by
8 rotating pesticide active ingredients and use
9 precision equipment to allow targeted and reduced
10 pesticide applications. Perennial tree fruit
11 growers also employ various conservation practices,
12 including growing cover crops, using drip irrigation
13 systems, practicing reduced or no tillage in an
14 effort to prevent runoff and erosion of pesticides.
15 Many have created pollinators gardens to support
16 pollinators and other beneficial arthropods in their
17 orchards.

18 The NHC is very concerned with the recent
19 EPA endangered species pilot project, including the
20 vulnerable species, the herbicide strategy framework
21 projects, and pending future pilot projects that may
22 limit the use and availability of rodenticides and
23 fungicides that may cause growers to abandon
24 production altogether.

25 We support the continued use of science

1 and risk assessment regulatory policies, such as
2 those required under FIFRA. Pesticides are
3 important tools for fruit production and are needed
4 in the growers' toolkit against pests and diseases.

5 Tree fruit growers in the Pacific
6 Northwest want to continue to produce quality and
7 healthy crops, but need to be able to outcompete
8 insects, disease, and weed pests to obtain good crop
9 yields that result in an abundant and affordable
10 food supply forward, while at the same time
11 protecting threatened and endangered species.

12 We welcome the opportunity for continued
13 engagement with EPA toward that end. Thank you.

14 JEFFREY CHANG: Would anyone else like to
15 make a public comment in the room? Anyone online
16 would like to make a public comment?

17 (No response.)

18 JEFFREY CHANG: Great. A sincere thank
19 you to our workgroup chairs who presented today, to
20 our PPDC members, members of the public who listened
21 in and shared their views, and to all of the support
22 staff that made today's session possible.

23 We will reconvene at 9:00 a.m. tomorrow
24 using the same Zoom for Government link as today.

25 That's it for me. Thank you for your

1 participation today, and I will hand it over to Ed
2 Messina to offer final words and adjourn the
3 meeting.

4 ED MESSINA: Thanks, Jeffrey.

5 Just, again, echoing my thanks to the
6 presenters and to our PPDC members for the just
7 lively and informative conversations. I think this
8 is really what makes this meeting so great is the
9 varying stakeholder views that are shared and
10 collaboratively working together and providing
11 feedback to the agency.

12 So have a good night. Be safe. Have fun,
13 but not too much fun. We start tomorrow morning.

14 (Day 1 adjourned.)

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