1	IN THE UNITED STATES DISTRICT COURT FOR THE EASTERN DISTRICT OF MISSOURI SOUTHEASTERN DIVISION	
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3	BADER FARMS, INC.,	
4	Plaintiff,)	
5	vs.) No.	1:16-cv-299-SNLJ
6	MONSANTO CO. and BASF) CORPORATION,)	
7) Jan	uary 29, 2020
8	Defendants.)	
9	TRANSCRIPT OF TRIAL DAY #3 - VOLUME 3B	
10	BEFORE THE HONORABLE STEPHEN N. LIMBAUGH, JR. UNITED STATES DISTRICT COURT JUDGE	
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16	Proceedings recorded by mechanical stenography; transcript produced by computer-aided transcription.		
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18	INDEX OF WITNESS EXAMINATION		
19	<u>DX CX R-DX R-CX FR-DX</u>		
20	Dr. Boyd Carey 6 69		
21	DI. Doya Carey 0 09		
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THE COURT: Before calling the jury in, I want to make a little more record about the dispute we had yesterday over the testimony of Steve Smith. There were objections made by defense counsel that on redirect examination the plaintiffs went overboard in treating Smith as an expert witness and elicited testimony from him about the quality of the labels.

I've reviewed the transcript of the testimony yesterday and I'll still -- I think we -- let me just review it. The concern that I had was that the defendants had opened the door to testimony regarding -- expert testimony regarding the labels when they questioned Mr. Smith at length about the quality of the warnings on the labels and what was really needed for a proper label, and that the point of the testimony was that -- and this was line-by-line testimony with the two labels that were eventually adopted and placed on the packages. The line-by-line testimony elicited by the defense was to the effect that they -- the plaintiffs, or -- I'm sorry, to the effect that Monsanto basically did everything that Smith had recommended.

It's the impression from the Court that there's really overlapping testimony about -- that was proper on the question of notice to the defendants, the lack of proper warnings, and it seems as though that it necessarily

implicates expert testimony about the propriety of the labels, and that was at least indirectly the implication or the inference that the defendants were trying to raise by this cross-examination, especially when the defendants went line-by-line with Witness Smith about the labels. They technically did not ask him about the exact propriety of the labels. The questions were designed, rather: Well, did you know that the label reflected this, reflected that, reflected this, reflected that? And, of course, he answered "no" because the labels were developed later on.

Then after the objections to the follow-up questions on redirect examination by plaintiffs' counsel, even though I overruled those objections for the reason that it did seem like the defendants had opened the door, the worst of the questioning was stricken from the record by far, and that was the questioning that dealt with the so-called ecological disaster, so there's no problem with that.

And, again, on reviewing the follow-up questions on direct -- on redirect examination by plaintiffs' counsel, there was very little elicitation of testimony that could even be regarded as expert testimony by -- from witness Smith.

In any event there was absolutely no prejudice to defendants by the elicitation of that minimal testimony regarding the labels. So the whole thing was very

complicated because as I say, there seemed to the court to 1 2 be overlapping testimony that pertained first to notice to the defendants and yet at the same time it implicates expert 3 4 testimony on the part of Mr. Smith. In any event, there's 5 absolutely no prejudice to the defendants from what happened. 6 7 All that said, I'm advising counsel for both sides that there should be no reference for the rest of the trial 8 9 for Mr. Smith testifying or being an expert in any way. any respect. So, I know that's a complicated response but 10 the whole thing was complicated about this yesterday. 11 You can bring the jury in. 12 13 (Jury in) 14 THE COURT: You may proceed. Thank you, Your Honor. 15 MR. RANDLES: DR. BOYD CAREY, PLAINTIFF'S WITNESS, SWORN 16 DIRECT EXAMINATION (continued) 17 QUESTIONS BY MR. RANDLES: 18 Good afternoon, Dr. Carey. We're going to pick back 19 Q. up where we were, more or less, chronologically. 2.0 Can we please show Exhibit 173. I don't think -- the 21 22 front of the document. We're going to move on in because 23 this is the front of many documents. Yes, let's start with 24 this page. 25 What -- Dr. Carey, you're familiar with this document

aren't you? 1 2 Α. I am. And this is a Monsanto document? 3 4 Α. Yes. 5 MR. RANDLES: Okay. Your Honor, I move 173 into evidence. 6 7 THE COURT: Ask him to identify it in some other respect other than it's a Monsanto document. 8 9 MR. RANDLES: Fair enough, Your Honor. Absolutely. 10 (By Mr. Randles) Could you characterize what this document is concerning? 11 12 This is a document outlining plans for a proposed Α. 13 claims management approach. And this is a document you are very familiar with? 14 Q. I'm familiar with it. 15 MR. RANDLES: I offer it into evidence. 16 17 THE COURT: Any objections? MR. MILLER: No objection. 18 19 THE COURT: All right. It's admitted. 2.0 (Plaintiffs' Exhibit No. 173 admitted) MR. RANDLES: Thank you, Your Honor. 21 22 Q. (By Mr. Randles) All right. Let's publish it for the jury and you and I will talk through this a little bit. 23 That was part of your planning for claims that 24

ultimately resulted in the 2017 claims management procedure

1 as we have been discussing, right?

- 2 A. Yes.
- 3 | Q. This says, "What does claims management success look
- 4 | like?" You see that up there?
- 5 | A. I do.
- 6 Q. And I want to look at the very bottom number, bullet
- 7 point: "Minimal number of claims or issues that require
- 8 | financial settlement." Do you see that?
- 9 A. Yes.
- 10 ||Q|. And further on in the document you elab -- well, this
- 11 | idea is elaborated on. We could move to the next entry.
- 12 We'll put that up. We'll see if we can get this a little
- 13 | bit bigger.
- 14 It says, "Likely issues and resolution. Off-site
- movement, no claims settled. You see that?
- 16 A. I do.
- 17 $\parallel Q$. And it says, "Label clearly states the applicator may
- 18 | not spray if there's a risk of off-site movement, and label
- 19 also states the applicator's responsible."
- 20 Do you see that?
- 21 | A. I do.
- 22 $\parallel Q$. And, so, from the beginning, dating all the way back
- 23 to October 2015, Monsanto hadn't made a policy decision that
- 24 | it would not settle off-target movement claims not only in
- 25 | '15 and '16, but going forward, correct?

- 1 A. That is correct.
- 2 Q. And that is still the policy, isn't it?
- 3 | A. It is.
- 4 | Q. All right. Let's go to the next entry in this
- 5 document. And, once again, we have budgeting assumptions
- 6 | for the claims process, and Xtend trade acres assumption,
- 7 | cotton assumption. Do you see that?
- 8 *A.* I do.
- 9 Q. Okay. Then let's move to the next entry, which will
- 10 be called new assumptions. This one, yes. Thank you.
- I want to look here: "Overall resources and funding
- 12 request for FES." And we already said FES was Field
- 13 | Engagement Specialists, the folks you would send out for the
- 14 17 growing season forward to look at fields that had
- 15 complaints, right?
- 16 A. Correct.
- 17 ||Q|. Now, I want to look over here on the right side of the
- 18 page at the top. It said, "FES numbers based upon
- 19 20 percent of Xtend, XtendiMax chemistry customers.
- 20 | Assumption: One in five nonchemistry purchasers will call
- 21 and want a visit."
- 22 Did I read that correctly?
- 23 A. That's correct.
- 24 ||Q|. And it said -- there's a bullet point under it that
- 25 | says, "Weed control, crop injury, off-site movement." Am I

safe in assuming that what this document is telling us is those are category of possible complaints?

A. That's correct.

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- Q. So going into the release of the new herbicide in

 2017, Monsanto internally was estimating that 20 percent of

 the customers, one in five, would have problems sufficiently

 serious to warrant a personal visit, is that correct?
- A. Well, we projected that 20 percent would have enough of an inquiry, enough of a question that it would warrant a visit. May or may not be a valid claim.
 - Q. I'm not saying that, but I'm saying you projected that there would be a serious enough request from one in five that it would warrant a personal visit?
- 14 A. One in five would call us and we would want to visit 15 it, yes.
- Q. Let's show 481, to Court, counsel, and witnesses. If we could blow up the very top just so that everyone can read who it's to and from.
- 19 Do you see this in front of you, Doctor?
- 20 | A. Yes.
 - Q. This is an email from John Chambers to yourself with another person copied. Do you see that?
- 23 A. I do.
- Q. And if we remove the bigger tab, we can see that, just to update, we -- I'm not going to read it, but this is

concerning a presentation by Dr. Stanley Culpepper, is that 1 2 correct? That's correct. 3 A . MR. RANDLES: Your Honor, I move for admission of 481. 4 5 MR. MILLER: Same objection, Your Honor. THE COURT: It's admitted. 6 (Plaintiffs' Exhibit No. 481 admitted) 7 (By Mr. Randles) Then, as we --8 9 MR. RANDLES: May we publish, Your Honor? Thank you, Your Honor. 10 (By Mr. Randles) There's actually then your email in 11 Q. the middle of the page, do you see that, to John Chambers? 12 13 Α. I do. 14 So he's responding to an email you sent. Okay. 15 want to now look at the text of the email you sent to John Chambers, all right? We're going to start with this 16 17 second full paragraph: "In the meantime I want you to be aware that this morning Stu sent a copy of the presentation 18 that Stanley Culpepper and Larry Steckel gave at Beltwide." 19 The following statement appears on one of the slides: 2.0 "Injury and EPA may be the driver; very possible EPA could 21 22 prohibit tank mixes, and remaining slides go into significant information about volatility/drift/injury." 23 24 Did I read that correct?

You did.

- 1 Q. So this presentation involved significant information,
- as you put it, about volatility, drift, and injury, correct?
- 3 A. Well, the significant information I was referring to
- 4 was about the injury and the EPA being the driver. As a
- 5 matter of fact, I said that this statement and the slide
- 6 from Dr. Culpepper said very possible EPA could prohibit
- 7 | tank mixing.
- 8 Q. I understand, and I know that's true, and -- but,
- 9 actually, I'm wanting to focus on the second part of your
- 10 sentence.
- 11 *A.* Okay.
- 12 Q. "And remaining slides go into significant
- 13 | information" -- and "significant information" is your term,
- 14 correct?
- 15 A. Correct.
- 16 Q. -- "about volatility/drift/injury."
- 17 Did I read that correctly?
- 18 A. Correct.
- 19 Q. Next paragraph: "This is something that we have kept
- 20 | tightly confidential within Monsanto, and to my knowledge,
- 21 | this is the first external communication around it."
- 22 Did I read that correctly?
- 23 A. You did.
- 24 | Q. Then you've gone on to say, "I've alerted key
- 25 | regulatory, legal, and dicamba team members."

Did I read that correctly?

A. Yes.

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- 3 Q. You did not recommend, in this email, providing this 4 information to academics, did you?
 - A. Academics already had the information. It was a public presentation by Dr. Culpepper at a meeting.
- Q. So this is something we've kept tightly confidential within Monsanto, so this was the first leak of that information, is that what you're telling our jury?
- What I'm telling you is that, as I mentioned 10 before, the key in this communication is about a red box on 11 a slide that Dr. Culpepper had, and that red box had what 12 I've written here in quotes, and that has nothing to do with 13 volatility. It has to do with an issue that the EPA was 14 15 looking at for another herbicide called Enlist and the possibility that they could prohibit tank mixing. That's 16 what the issue was about. 17
 - Q. So your sentence, "Remaining slides go into significant information about volatility/drift/injury," that's just a gratuitous observation on your part?
 - A. No. It's relevant because, as you've already shown, we were looking to garner any information we could. And "significant" in this sentence means there's a lot of information about volatility, drift, and injury. But the issue with what we kept tightly confidential within Monsanto

1 was not about that piece.

- 2 Q. And this was the same time you were prohibiting
- 3 academics from doing research with your new product on
- 4 drift, volatility, and injury, isn't it?
- 5 A. It would have been in that period, yes.
- 6 Q. Let's look at Exhibit 170. We can look at the top
- 7 here. I'll need that a little bigger.
- Now, this is an email exchange between you and
- 9 Sarah Fike at Monsanto, correct?
- 10 | A. Yes.
- 11 Q. And there are other people copied. Then if we look at
- 12 | the middle of the document, this is your email to Sarah Fike
- 13 regarding project priority ratings. Did I read that
- 14 carefully?
- 15 A. That's correct.
- 16 MR. RANDLES: Your Honor, I move for the admission of
- 17 | this document.
- 18 MR. MILLER: Same objection; relevance.
- 19 **THE COURT:** Overruled; admitted.
- 20 (Plaintiffs' Exhibit No. 170 admitted)
- 21 | Q. (By Mr. Randles) Okay. Let's move into the text of --
- 22 | let's start with business goal. The project name and
- 23 business goal section. Now, this is your proposal, right?
- 24 | This is your email, this contained in your part of it?
- 25 A. That's correct.

1 Q. You say, "Project name one, distinguishing volatility
2 versus physical drift."
3 Did I read that correctly?

A. Yes.

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Q. And you say, "Business goal: Support Xtend commercial introduction, customer training, freedom to operate, and liability defense."

Did I read that carefully?

A. That's correct.

Q. This was your proposal. You had a project to do some scientific research to assist, among other things, in freedom to operate and liability events, correct?

- 13 \blacksquare A. That was one of the purposes for doing the project.
- 14 Q. And this is the first of August 2016, correct?
- 15 *A*. I'm sorry?
- 16 Q. Very top.
- 17 \parallel A. I've got to look at the top. Yes, August 1st, 2016.
- 18 Q. Okay. Let's go back to the text. So, again, to put
- 19 \parallel it in context, this is a few days after the Portageville
- 20 meeting, correct?
- 21 A. I can't remember the dates but I'll take that at your 22 word.
- Q. July 29th, 2016, okay? EPA compliance advisory comes out in August of 2016 talking about the damage in Missouri, correct?

- 1 *A*. Okay.
- 2 Q. You remember that?
- 3 A. I remember it, yes.
- 4 Q. So in the middle of all of this you make a proposal to
- 5 distinguish volatility, physical drift to support the
- 6 | freedom to operate and liability defense, correct?
- 7 A. I made that proposal, yes.
- 8 Q. This was at the same time you weren't doing
- 9 investigations, right?
- 10 A. Correct.
- 11 ||Q|. And it was the same time we were talking about
- 12 | earlier -- and I'm not going to go back into it -- where you
- 13 weren't looking into who the offenders were in Missouri,
- 14 correct?
- 15 A. Correct.
- 16 Q. "Established methods information, demonstrations, and
- 17 | a body of data to distinguish volatility from physical drift
- 18 | to aid investigation, resolution, and defense of commercial
- 19 off-site movement claims where it is alleged that our
- 20 products volatilized."
- 21 Did I read that correctly?
- 22 A. That's correct.
- 23 Q. Does anything in this proposal say anything about
- 24 | determining the truth or validity of claims of damage from
- 25 volatility?

A. Well, that's actually the goal as it's written because
we're trying to find ways to definitively tell if an
off-target movement occurrence happened to distinguish
whether that might have been through physical drift or could
it have been through volatility, so that's essentially what
we're trying to demonstrate.

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- Q. Are you telling our jury these two sentences are just talking about an honest, unbiased scientific inquiry without a goal of protecting the company?
- A. I'm telling you that we had conducted the research on volatility already and it demonstrated that volatility wasn't a contributor to significant off-target movement. So we also had learned, through observing and listening to what had happened with the illegal applications using other herbicides granted, that people often moved to the explanation of volatility as the first explanation. So our science said that volatility with our new formulation was not going to be an issue for off-target movement if it's used in accordance with the label. But when off-target movement occurs it's not always easy to distinguish how it moved, so we felt it would be important to be able to do that for various reasons.
- Q. That's very interesting. Do you remember what my question was?
- A. I apologize. I thought I answered your question.

- Q. What the question was: Are you telling the jurors
 these two sentences are describing just an objective
 scientific search for the truth unrelated to defending the
 company?
 - A. The purposes -- one of the purposes of this work is related to helping defend the company, but the objective is absolutely scientific.
 - Q. 2A, middle of the second sentence: "And a body of data to distinguish volatility from physical drift to aid investigation, resolution, and defense, commercial off-site movement claims."

That's what it says, isn't it?

13 A. That's what it says.

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- 14 Q. And we're going to get into specific documents, but
 15 the investigation goals were to protect the company, right?
 - A. The investigation goals were, first, to respond to a customer need and to determine what actually happened, as is always the case.
- 19 Q. Okay. And that's your testimony to the jury, that was 20 the goal of the investigation?
 - A. It's my testimony what I've said are my words, my project, my objective, yes.
- Q. So this -- the fact that liability defense is
 mentioned in both sentences is just a coincidence to your
 otherwise objective scientific inquiry, is that what you're

1 | telling the jury?

- A. What I'm telling the jury is that the purpose for research can have multiple purposes. When you conduct the research or demonstrations, whatever it turned out to be in this case, that needs to be done unbiased. It needs to be determining the truth and accuracy. And, in fact, as I read
- determining the truth and accuracy. And, in fact, as I read that, it tells me that's exactly what we're trying to do.
- 8 Q. Well, I think everyone can read these two sentences
 9 for themselves and decide what "liability defense" means.
 10 Can we agree on that?
- 11 A. Totally agree.
- 12 Q. All right. Let's go to Exhibit 219. You recognize this document, don't you?
- 14 A. I'm not sure about this one. I think you showed one earlier.
- Q. This is a year later. This is the EPA compliance advisory from July of 2017.
- 18 A. That's -- yeah. That's different.
- 19 $\parallel Q$. You recognize this document though as well, don't you?
- 20 A. I haven't seen this document. I was in a different 21 role at the time. This in July of 2017, so I wasn't
- 22 directly engaged with this type of thing.
- Q. You don't recall me showing you this document in your deposition?
 - A. Maybe you did.

- 1 Q. Okay. Down at the bottom of the page it lists a
- 2 Monsanto Bates number. You see that?
- 3 *A.* Yes.
- 4 Q. So Monsanto received this document from the EPA
- 5 regarding dicamba crop damage?
- 6 *A.* Okay.
- 7 Q. You see that? Bottom of the page, again, that number,
- 8 that's what that indicates. Bottom right-hand corner, long
- 9 number?
- 10 A. I thought you asked me if this -- what the subject of
- 11 this was, so I was looking towards the top.
- 12 MR. RANDLES: I've got to take care of a foundation
- 13 | issue now. Your Honor, I offer 219 into evidence.
- 14 MR. MILLER: Same objection, Your Honor.
- 15 **THE COURT:** Overruled admitted.
- 16 (Plaintiffs' Exhibit No. 219 admitted)
- 17 Q. (By Mr. Randles) All right. Now let's look at what --
- 18 \parallel you can publish to the jury.
- 19 Okay. "Crop Damage Complaints Related to Dicamba
- 20 | Herbicides Raising Concerns." You see that as the title?
- 21 **A**. I do.
- 22 Q. You see the date, July 2017?
- 23 **A**. Yes.
- 24 | Q. Now, this is in the middle of the first growing season
- 25 | where your new herbicide had been released, correct?

- 1 A. The first herbicide had been released, yes.
- 2 Q. I'm trying to avoid supposedly low volatility but I
- 3 | think I'm just going to go back to that. When your
- 4 supposedly low volatility herbicide had been released, this
- is the middle of the first growing season, isn't it?
- 6 A. This is the first growing season where we had an
- 7 approved product for the technology.
- 8 Q. You had an improved product?
- 9 A. Approved.
- 10 ||Q|. Approved product. Okay. I misheard. Because let's
- 11 look at what the EPA says here. Let's go to Agricultural
- 12 Concerns: "Despite the conditional approval of new dicamba
- 13 products with drift reduction agents and further use
- 14 restrictions set in place prior to the 2017 growing
- 15 season "-- I want to pause here.
- 16 EPA approved the new XtendiMax with VaporGrip and
- 17 | Engenia for the 2017 growing season, right?
- 18 A. Correct.
- 19 $\parallel Q$. And the EPA also set additional restrictions on use,
- 20 didn't it, of those products?
- 21 | A. I believe that's the case. I can't remember exactly
- 22 | the -- I believe that's the case.
- 23 Q. That's what it's talking about here, isn't it, in
- 24 | "further use restrictions set in place prior to the 2017
- 25 growing season"?

1 A. That's correct.

Q. "Some states are reporting high numbers of dicamba complaints. By early July we already had reports of hundreds of complaints received by state agencies in Arkansas, Missouri, Tennessee, a significant increase from

Do you see that?

A. I see that.

last year."

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- Q. So the off-label spraying occurred in '16, but when the new products were out in the middle of that growing season, EPA says, "We're seeing a significant increase in last year from reports." That's what it says here, isn't
- 13 | it?
- 14 \blacksquare A. That's what it says.
- Q. And it says, "Both physical drift and volatilization of dicamba from the target application site have been reported. The underlying causes of the various damage reports are still being investigated."

19 Did I read that correctly?

- A. You did.
- Q. Let's go to Exhibit 175. Now, during the same month,
 July 2017, of the compliance advisory we just read, you
 authored this document, didn't you?
- 24 A. Yes, I did.
 - Q. Okay. And it was concerning Xtend inquiry

investigation guidance, correct? 1 2 Α. Correct. MR. RANDLES: Your Honor, I offer Plaintiffs' 175. 3 4 MR. MILLER: No objection, Your Honor. THE COURT: It's admitted. 5 (Plaintiffs' Exhibit No. 175 admitted) 6 7 (By Mr. Randles) I want to go initially to the "do not Q. visit." Here you go, yeah. Down a little further. Yeah. 8 All right. Now, this is guidance you're providing 9 10 through this document to the people doing the investigation, correct? 11 Α. Correct. 12 13 I mean these are the rules, right? This is our policy, our guidance to our field people, 14 Α. 15 yes. Okay. Bottom bullet point: "Do not visit a driftee 16 Q. 17 inquiry if the driftee is not a MON customer. See brands, traits, or crop protection." 18 19 Did I read that correctly? 2.0 Yes. A. And that was the policy then, that if someone called 21 22 saying, I've got a problem with off-target movement of 23 dicamba, if they weren't a Monsanto customer, you wouldn't 24 investigate, right? 25 Α. That's correct.

- And the phrase "driftee" is actually a phrase your 1 Q. 2 team invented, isn't it?
- It's a term that we just needed to demonstrate and 3 A . 4 differentiate between someone who might have caused a drift 5 issue versus someone who may have received a drift issue, so it was a term of convenience in our own terminology.
- 7 0. And this document was given to the Field Engagement 8 Specialists who were on -- who were the people on the 9 ground, correct?
- 10 I believe it was, yes.

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- Let's go to 178. This is still July of 2017. Do you 11 Q. recognize this email exchange between you and Tom Carlson at 12 13 Monsanto?
 - Clearly, I wrote this at the top, but I need to take a look at it. I don't recognize it at the moment.
 - MR. RANDLES: Your Honor, I offer 178.
- MR. MILLER: Same objection, Your Honor. 17
- THE COURT: Overruled; admitted. 18
- (Plaintiffs' Exhibit No. 178 admitted) 19
 - (By Mr. Randles) I want to go to the Key Don'ts section in this document. Well, can you make the box a little bigger. I'd like to get his name at the bottom of that section, okay? There you go.
- 24 And this is a portion of email you drafted because it 25 says, "Thanks, Boyd" down at the bottom, right?

1 | A. Yes.

2 Q. Okay. You say, "The key don'ts are: Do not visit a

3 driftee inquiry if the farmer is not a customer." Again,

- seed, trait, or chemical, right?
- 5 | A. Correct.
- 6 Q. "And, note, 'driftee' is meant as an internal term
- 7 only."

- 8 Did I read that correctly?
- 9 A. Correct.
- 10 Q. And that was one of your key don'ts, correct?
- 11 A. Well, the don't is, do not visit a driftee inquiry if
- 12 | the farmer's not a customer. And the note about driftee is
- 13 | just a reminder that that's an internal term.
- 14 \parallel Q. Still in July 2017 -- let's do 179. Up here at the
- 15 | top, this is an email exchange between Sara Allen and a
- 16 number of people at Monsanto, including Ty Witten,
- 17 | regarding, "Subject: OTM." That's off-target movement,
- 18 right?
- 19 A. That's correct.
- 20 ||Q|. -- dash, "driftee midwest region." Do you see that?
- 21 A. Yes.
- 22 **MR. RANDLES:** Okay. Your Honor, I offer 179 into
- 23 evidence.
- 24 MR. MILLER: Same objection, Your Honor.
- 25 **THE COURT:** Overruled; admitted.

(Plaintiffs' Exhibit No. 179 admitted)

- 2 (By Mr. Randles) Let's start at the paragraph that begins at the top. It says, "Ty, we got nine more 3 off-target driftees from the midwest region yesterday, so up 4 5 to 38 now, including comments from HGS on this updated filtered spreadsheet. It is obvious some consider 6 7 themselves good MON customers and are expecting a contact." 8
- Did I read that correctly?
 - Α. That's correct.
- 10 Okay. Then I want to go to the "I will" on purchase history. I believe it may be the next page. You got it? 11 Okay. 12
 - It says, "I filtered my spreadsheets for the OTM driftees, 29 to date, and attached it to give you a list of customers (known non-MON are clearly marked)."
 - Do you see that?
- 17 Α. I do.

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- -- "that I will need a purchase history to determine 18 if they are "good MON customers" and thus need a dispatch." 19 Did I read that correctly? 2.0
 - Α. Yes.
- So one of the factors to determine if someone 22 Q. 23 warranted a visit was whether they were a good MON customer, 24 and that was determined from their purchase history, 25 correct?

A. The terminology "good Monsanto customer" relates to checking to make sure that if someone is in good standing with respect to their payments and bills. That's what it

- Q. So if they are behind in payments to Monsanto and have an off-target movement problem, Monsanto won't send anybody, will they?
- A. Well, at this time -- we've already stated, I believe, at this point in time that our practice wasn't to visit non-Monsanto customers.
- Q. Yes, but I'm asking you another question.

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refers to.

In evaluating Monsanto customers -- non-Monsanto customers don't get a visit, we're clear on that. But in determining which Monsanto customers get a visit, the purchase history is pulled to see if they're good Monsanto customers, correct?

sometimes when someone called in we needed to verify. The may have been a customer five years, ten years ago, something of that nature, and showed up as a current customer when they weren't really a current customer. So that's what this is referring to.

The issue was that our data wasn't always perfect and

- Q. Didn't you just say it was also important to find out if they were paid up-to-date?
 - A. That's part of it, yeah.

- Exhibit 180. Now, we're still -- we're now in August 1 Q. of 2017. See this email, Ty Vaughn to Ty Witten, "Forward 2 Frey Farms in Bootheel." Do you see that? 3 4 A. I do. 5 You've seen this document before in the deposition? Q. I saw in the deposition. Α. 6 7 MR. RANDLES: Your Honor, I offer Plaintiff 180. MR. MILLER: Same objection, Your Honor. 8 THE COURT: Overruled; admitted. 9 (Plaintiffs' Exhibit No. 180 admitted) 10
 - Q. (By Mr. Randles) Before we get into it, I want to lay a bit of a foundation.

We talked about -- we talked about non-MON customers.

MON service purchase histories are analyzed in terms of
whether they get a visit, but certain Monsanto customers
certainly are going to get a visit based on their size,
isn't that correct?

- A. I don't -- I can't say that.
- Q. Let's look and see what the document says about that.

 Let's go to -- on the wanted follow-up portion. "Ty wanted

 to follow up on the Frey Farms report on dicamba at their

 Kennett farm in the Bootheel."
- Do you know where Kennett is?
- 24 A. Generally, yes.

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Q. Down deep in the Bootheel, right?

1 | A. Yes.

- 2 | Q. Not right by -- not far from Bader Farms, that area,
- 3 | right?
- 4 | A. Okay.
- 5 | Q. Close to Campbell? A few miles away, right?
- 6 *A.* Okay.
- 7 | Q. I don't know if you're saying okay if you know that or
- 9 A. I don't know the geography well enough to confirm
- 10 that. I trust you.
- 11 Q. Fair enough. Okay. "We are going to have them into
- 12 St. Louis, STL, the morning of September 14 and would like
- 13 to have a follow-up to their concerns and issues they
- 14 | experienced."
- 15 Next paragraph: "Kristin: To get you up to speed,
- 16 | Frey Farms is a strategic account for our Siminis team.
- 17 | They are the largest buyer of our watermelon seed in the
- 18 entire U.S. and are 100 percent on board with our corn
- 19 program."
- 20 I read that correctly?
- 21 A. Yes.
- 22 \parallel Q. Do you have any reason to doubt the facts stated about
- 23 the purchase history of Frey Farms here?
- 24 A. No basis to doubt that, no.
- 25 Q. "Their watermelon Liberty -- their watermelon, Liberty

soybean seeds, and sweetcorn were hit pretty hard by dicamba use in the Bootheel."

Do you see that?

A. I do.

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Q. "I would like to work with your team to acquire marketing opportunities to transition them to our program and also look into hosting a Xtend training session for growers and applicators around the Kennett area."

Did I read that correctly?

- 10 | A. Yes.
 - Q. Now, I want to break that last part up. "I want to talk with your team to acquire marketing opportunities to transition them to our program." Now, you understand this team went down there and tried to recruit Frey Farms to buy dicamba-tolerant seed for their soybean going forward, just as this document suggests. You know that happened, don't you?
 - A. I can't confirm that. I assume it did.
- Q. Do you also know -- and it says, "Also look into hosting a Xtend program training session for growers and applicators around the Kennett area."

Are you aware the separate training program was held for farmers near Frey Farms to try to minimize the risk of off-target movement to Frey Farms?

A. I'm not aware whether a training program was or wasn't

- 1 held or whether it was specifically to, quote, unquote,
- 2 protect" Frey Farms or not. I don't know.
- 3 Q. You haven't reviewed Greg Starling's testimony about
- 4 | this incident?
- 5 A. I don't recall that.
- 6 Q. The jury will see that at a later point.
- 7 Do you know whether anyone scheduled additional
- 8 | training for the neighbors in Campbell, Missouri around
- 9 | Bader Farms?
- 10 A. I do not.
- 11 Q. Now, Frey Farms is the biggest purchaser of your
- 12 watermelon seeds in the country, right?
- 13 A. That's what this says.
- 14 Q. This is the response they got from folks at Monsanto.
- 15 | This email outlines what the response is going to be,
- 16 correct?
- 17 | A. Well, I have to look at the rest of the response here
- 18 to see if it says what actually transpired.
- 19 Q. It's outlining a plan, isn't it?
- 20 A. It's a request, yes.
- 21 Q. Okay. And, again, the jurors will see from people on
- 22 \parallel the ground what actually -- how this actually carried out.
- But, Monsanto does not sell peach trees, never has,
- 24 right?
- 25 A. Not to my knowledge.

1 Q. So Monsanto had no economic interest in providing
2 expert training for Bill Bader's neighbors, did it?

3 A. We provided and have aggressively provided training

4 | all over the United States.

neighbors, correct?

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Q. That was not my question. They're talking about holding a specific Xtend training session in Kennett where Frey Farms is located. There was no economic advantage to holding a separate one in Campbell for Bill Bader's

A. I assume there are soybean customers and corn customers all over the Bootheel. I don't have any knowledge of us having any training events near Mr. Bader's farm or not.

Q. If Frey Farms, the largest purchaser of watermelon seeds in the country, was unhappy with Monsanto and stopped buying those seeds, that would be a serious economic impact to Monsanto, wouldn't it?

A. It would.

Q. If, however, Bader Farms, which grows peach trees and peaches that Monsanto doesn't sell goes out of business, that is of zero economic impact to Monsanto, isn't it?

A. Well, based on my discussion with Mr. Bader, I was under the impression he grew a lot of other crops, including soybeans. But we don't sell peaches and that would not be an impact to us.

- 1 Q. If the 1,000 acres of peaches at Bader Farms just went
- 2 away, that's of no economic importance to Monsanto, is it?
- 3 A. Not a direct economic importance to Monsanto, no.
- 4 | Q. Let's look at 518. Well, once again, we start with
- 5 the usual cover that is frequent on many things. Let's move
- 6 to the relevant page so that we can more easily identify
- 7 this document. You see it's the 2015 document.
- 8 A. I see that, yes.
- 9 Q. Now, you are familiar with this document?
- 10 A. I don't believe I've seen this document. This
- 11 | looks -- if you can go back, if there was a date.
- 12 Q. Sure. Actually, I showed it to you at your
- 13 \parallel deposition, but I'm not saying you have to remember.
- 14 A. Okay. If you showed it to me, then I've seen it.
- 15 Q. Okay. 2015, Coastal Training, or Coastal RLT
- 16 Planning, Bollgard, XtendFlex.
- 17 | A. I see it. I don't recall that, but I see it.
- 18 \parallel Q. Let's go back to the page we just discussed. This is
- 19 \parallel a page talking about the tools under development, including
- 20 the Dicamba Inquiry Form, correct?
- 21 A. Yes.
- 22 Q. You see that?
- 23 MR. RANDLES: Your Honor, I offer 518 into evidence.
- 24 MR. MILLER: Same objection, Your Honor.
- 25 **THE COURT:** Overruled; admitted.

(Plaintiffs' Exhibit No. 518 admitted)

- 2 THE WITNESS: Just to clarify, I do not recall seeing this.
- 4 | Q. (By Mr. Randles) Fair enough. It's not a memory game.
- 5 Says, "Tools under development." "Tools available or under
- 6 development, precisely. Do you see that?
- 7 A. Yes.

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- 8 Q. And it says, "Dicamba Inquiry Form." Do you see that?
- 9 A. I do.
- 10 Q. I want you to look at the last bullet point here.
- 11 | "Developed to gather data that could defend Monsanto."
- 12 Did I read that correctly?
- 13 *A.* Yes.
- 14 ||Q|. Now, just to be sure our jurors are clear, the Dicamba
- 16 | with them to fill out to report back what they see to
- 17 Monsanto, correct?
- 18 A. To collect information, that's correct.
- 19 Q. And the purpose of this form, according to this
- 20 | Monsanto document, is, "it's developed to gather data that
- 21 | could defend Monsanto."
- 22 Did I read that correctly?
- 23 A. Well, that's one bullet on the page, so -- yes, that's
- 24 one element.

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Q. Well, that was consistent with the policy never to

1 settle, wasn't it?

- 2 A. Well, so the inquiry form would also be utilized to
- 3 capture information on other types of inquiries as well.
- 4 But with regards to OTM, or off-target movement, we also
- 5 | wanted to gather data to understand what might have happened
- 6 in those situations so that we could continuously improve
- 7 and refine our recommendations if we had information to do
- 8 so.
- 9 Q. So is this just another unbiased search for the truth
- 10 by Monsanto?
- 11 \parallel A. Every time we investigate an inquiry, a complaint,
- 12 we're looking for what really happened, the truth.
- 13 ||Q|. But the truth must always be subject to gathering data
- 14 | for defending Monsanto, isn't that right?
- 15 A. That's not correct.
- 16 \mathbf{Q} . Well, the truth always leads to no settlement though,
- 17 doesn't it?
- 18 A. That's not correct.
- 19 $\parallel Q$. Let's look at 92. See this email from Commercial
- 20 | Operations to a number of people at Monsanto. You see that?
- 21 A. I do.
- 22 \parallel Q. And it says, "Subject: Forward COLT Dicamba claims
- 23 process."
- 24 Do you see that?
- 25 **|** A. I do.

MR. RANDLES: Your Honor, I would like to offer 92. 1 MR. MILLER: Same objection, Your Honor. 2 THE COURT: Overruled; admitted. 3 (Plaintiffs' Exhibit No. 92 admitted) 4 5 (By Mr. Randles) Let's go to the claims chart. We can 6 blow that part up. 7 Says, "Incident management flowchart, 2016." Do you see that? 8 9 Α. Yes. "Call comes into CAM, off-site movement." See that? 10 Q. 11 A. Yes. Now, this is your decision tree, right? 12 Q. Well --13 Α. 14 Two possibilities in two columns. You see that? Q. 15 I see the two columns, yes. They all lead to the bottom, to no settlement, 16 Q. 17 correct? 18 A. Correct. 19 And the no settlement of off-target movements was a 2.0 hard and fast Monsanto policy decision, wasn't it? It was consistent with our history in selling 21 22 herbicides for decades, and that's been consistent from the 23 very beginning and continues to this day. 24 So your policy's always been, we won't settle claims

no matter what, right?

- 1 A. That -- we settle claims. I've settled a lot of them.
- 2 | Q. But none for off-target movement?
- 3 A. Not for off-target movement.
 - Q. Not one ever, right?
 - A. To my knowledge.
- 6 Q. So when you prepare a form for someone to go out and
- 7 | look at off-target movement damage and the form says its
- 8 purpose is to defend Monsanto, and the person knows good and
- 9 ₩ well Monsanto isn't going to settle, are you saying that
- 10 won't influence the prism through which they gather their
- 11 | facts?

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- 12 A. We're asking our people to search for the truth in
- 13 those investigations.
- 14 Q. So is your opinion that they would be entirely
- 15 comfortable reporting back, this is Monsanto's fault? Is
- 16 | that your view?
- 17 \parallel A. I think if people believe that happened, they would
- 18 come back and say that.
- 19 Q. And that would be received with a white-out of the "no
- 20 | settlement, and settlement written in large letters?
- 21 A. Our policy's consistent. It's on the label. It's
- 22 | been there from the beginning and is consistent with the
- 23 industry standard.
- 24 Q. So the final line of the investigation, "we will not
- 25 settle," has already been written, but you're telling our

jurors that, with the final line written, people are just going to go out and impartially gather the facts. Is that what you're telling me?

- A. What we found when our FES team has gone out and our own representatives in other cases have gone out and investigated inquiries, in many, many cases we find out that maybe it wasn't even an issue related to dicamba, and we learned something from that. We might find out that it was an issue related to dicamba but happened for a specific reason, which we can then hopefully utilize in our training in the succeeding years to better improve our recommendations and our training.
- Q. Do you remember what my question was?
- 14 A. Can you please repeat it.

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- Q. Okay. Are you telling our jurors that, given that the bottom line sentence is written, there will not be a settlement and Monsanto was not responsible, they're then going to go out knowing that, and viewing it through that prism, and be completely objective? Is that what you're telling us?
- A. I'll tell you that we instruct our people to look for the facts, not to make conclusions and bring that information back, and we do not ask them to go with a preconceived conclusion.
- Q. Even though you designed the form to defend Monsanto

1 according to your own document, right?

- 2 A. Well, this is from 2015, and I'm quite confident this
- 3 isn't the document or the final program that we went out
- 4 with.
- 5 \parallel Q. But somehow the no settlement policy remains, right?
- 6 A. That's been consistent in our history as a company,
- 7 | and it continues.
- 8 MR. RANDLES: Your Honor, let's show 190 for
- 9 transmittal, and then 191.
- 10 | Q. (By Mr. Randles) Up at the top -- if we can get a
- 11 | little bit bigger -- is an email from Dan Schultz at
- 12 Monsanto. Do you see that?
- 13 *A.* Yes.
- 14 | Q. To Ryan Rubischko at Monsanto. Do you see that?
- 15 A. Yes.
- 16 \parallel Q. You told us, at least in '16, rob so worked for you?
- 17 A. No. Mr. Rubischko was a colleague of mine in that
- 18 period of time. He was in a private management role and I
- 19 was in a technical development role, so we worked together.
- 20 Q. You were peers. I apologize.
- 21 *A*. Yeah.
- 22 | Q. Subject: XtendiMax question on waiving surcharges to
- 23 match marketplace. Well, that's not so much what we get a
- 24 | little bit later. Let's take that out, get to the part --
- 25 | here you go.

I'm not so much interested in the surcharge but the 1 part where it talks about in the middle of that paragraph --2 okay. Can you see this? 3 4 All right. About of the third sentence it refers to, 5 "I will forward you some interesting market research I received from Purdue today." 6 7 And we're going to return to what else was said, but do you see that in the middle of that paragraph? 8 9 I just want to read the paragraph to get the Yes. context because I don't recall seeing this. 10 And you may feel free. We're going to return to this 11 Q. email in a minute. I'm just laying foundation. 12 13 Α. Okay. You see that? And then I would like to show 14 Q. Okay? the attachment, which is 191. You see this up at the top, 15 "Purdue Ag Retail Survey Highlights Challenges Ahead," 16 17 distributed by Bank of America? Okay. I see the Bank of America, yes. Interesting 18 Α. 19 overview. MR. RANDLES: Your Honor, I would like to offer 191 2.0 for notice, and 190. 21 22 MR. MILLER: Same objection, Your Honor. THE COURT: Overruled; admitted. 23 (Plaintiffs' Exhibit Nos. 190 and 191 admitted) 24

(By Mr. Randles) Okay.

- 1 A. Sir, can you help me with the Purdue part? I didn't see that.
- 3 Q. It was at the very top. You see that in the blue?
- 4 A. Okay. There it is. I see it.
- 5 Q. And we're going to come back to this in a minute.

Now, I want to go back to the transmittal email, which is 190. Let's go right back to where we were. We're going the start, again, with the discussion with Purdue in the middle of the paragraph. Do you see that, "I will forward you some interesting market research I received from Purdue

- 11 today"? Do you see that?
- 12 **|** A. I do.
- 13 Q. "Interesting assessment that much of the Xtend acreage
 14 was planted to protect themselves from neighbors who might
- 15 be using dicamba?"
- 16 Do you see that?
- 17 | A. I do.
- 18 Q. "Gotta admit, I would not have expected this in a market research document."
- 20 Did I read that correctly?
- 21 A. Yes.
- Q. Now, let's go to the Purdue document, which we are
 offering for notice of the survey, and let's pull that first
 clip of that. Okay. The first page: "Rapid extend launch
 positive for MON, negative for Dow." I'm trying not to

1 read -- here we go. We're going to start with respondents.

It gives the method of the survey, and then in the middle,

3 the content.

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"Respondents noted that the rapid adoption was driven by both superior yielding genetics as well as a defensive maneuver to protect from potential spraying of dicamba by neighbors."

You see that?

- A. I do.
- 10 Q. Now, are you familiar with the term "defensive planting"?
- 12 A. I have heard that term, yes.
- 13 Q. And what it means essentially is planting a crop -- in 14 this case, Xtend seeds -- to protect oneself from potential
- damage from your neighbors, correct?
- 16 A. That's an accurate description.
- 17 Q. And you've been familiar with that term for quite a while, haven't you?
- A. I don't know how long but certainly we've heard customers comment to that for a few years now, yes.
- Q. And are you familiar with a Monsanto policy to use the fact that a person has been damaged as a marketing opportunity to get them to buy the Xtend system?
- 24 A. I'm not familiar with that.
 - 0. Let's look at 177. This is an email from

Ron Flannagan. He's a Monsanto person, right? 1 2 Ron was at the time, yes. At this time he was. Α. He has a Monsanto email, right? 3 Q. 4 A. Correct. 5 Okay. It's sent August the 7th of 2017 to you, Q. Boyd Carey, right? 6 7 Α. Yes. "Forward: TA help with driftee people." 8 Q. Okay. 9 Did I read that correctly? 10 Α. Yes. MR. RANDLES: Your Honor, I offer 177. 11 MR. MILLER: Same objection, Your Honor. 12 THE COURT: Overruled; admitted. 13 (Plaintiffs' Exhibit No. 177 admitted) 14 15 (By Mr. Randles) Let's turn to the subsequent paragraph here. Can you pull that down for me a little. Okay. 16 Never 17 mind. And so this is John's email to you, John Cantwell. 18 19 "It appears" -- now, it deals with a bunch of the CAM 2.0 emails. I'm actually going to go to -- let's deal with the "I". 21 "I think we can significantly grow business and have a 22 positive effect on the outcome of 2017 if we reach out to 23 24 all the driftee people." 25 Did I read that correctly?

1 Α. Yes. "Most investigations I did involved the driftee 2 3 people. Most driftee people were interested in the technology and can be walked back to neutrality on the 4 damage affecting yield and in many cases turned into new 5 users." 6 7 Did I read that correctly? Α. Yes. 8 And that was sent to you on August 7th of 2017, wasn't 9 Q. 10 it? It was. 11 A. 12 Like to show you Exhibit 198. 13 A . Can I explain this statement? 14 If your lawyer wants you to. I think it's pretty Q. 15 self-explanatory. THE COURT: Your lawyer should be examining you with 16 17 respect to this. 18 THE WITNESS: Okay. 19 (By Mr. Randles) Up at the top, from Ryan Rubischko to Bernard Whelan and others. You see that? 2.0 I do. I do. 21 Α. "Regarding IFCA Ag retail dicamba survey report." 22 Q. Did I read that correctly? 23

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A.

Yes.

MR. RANDLES:

Your Honor, I'm going to deal with this

one first, then I'll lead with the attachment separately. 1 I would like to move Plaintiff 198 into evidence. 2 MR. MILLER: Same objection, Your Honor. 3 4 THE COURT: Overruled; admitted. 5 (Plaintiffs' Exhibit No. 198 admitted) (By Mr. Randles) "We are meeting with the Illinois 6 7 Fertilizer and Chem Association next Tuesday in St. Louis to discuss this recently conducted survey of their retail 8 9 members about their experiences this summer when spraying dicamba formulations in the Xtend crop system." 10 Did I read that correctly? 11 12 A. Yes. 13 And this is 2017, correct? 14 Α. Correct. 15 So the seed and the new herbicide, both being used, 16 right? 17 Both were available for use and purchase, yes. Now, let's -- I want to show you 199, which is the 18 attachment. You look at the top, this is from the Illinois 19 Fertilizers and Chemical Association. Do you see that? 2.0 21 Α. Yes. 22 Q. Dated August 28th, 2017. We go to the first paragraph there, it identifies the survey. Do you see that? 23 24 Α. I do. 25 Your Honor, I offer 199 for notice. MR. RANDLES:

Same objection, Your Honor. 1 MR. MILLER: MR. MANDLER: Same objection, Your Honor. 2 THE COURT: Overruled; admitted. 3 (Plaintiffs' Exhibit No. 199 admitted) 4 5 (By Mr. Randles) Okay. Let's go to the first section. This is one question in the survey: "If you applied 6 7 dicamba to soybeans, did you experience any instances of symptoms in adjacent sensitive soybean fields? 8 If no, provide the approximate number of soybean acres you treated 9 with dicamba, and then proceed to Question 26 to provide 10 information on your experience with the product." 11 So, again, this question is, "If you applied the new 12 herbicides, did you get symptoms in your nearby soybean 13 fields?" 14 Now, if you look down here, "yes" is listed at 80 15 some-odd percent. Do you see that? 16 17 Yes. A. "No" is between 15 and 18 percent there on the bottom. 18 Do you see that? 19 2.0 A. I do. Let's go to the second portion of this. We're going 21 22 to go to a Comment section here. 23 We have another question: "Did you see 24 symptoms in adjacent fields of non-DT soybeans even when the 25 wind was not blowing toward that field during the time of

application?" 1 2 Do you see that? 3 I see that. Α. And, again, we have somewhere around 85 percent "yes." 4 5 Do you see that? I do. 6 Α. 7 And somewhere around 15 percent "no." Do you see that? 8 I see it. 9 Α. "Retailers provided extensive comments on this 10 11 question." 12 Do you see that? This is all -- I've not seen this before but I'm 13 14 following. "They stated that many of their problems occurred in 15 non-DT soybean fields that were in the opposite direction of 16 17 the Xtend fields at the times they made their application." Do you see that? 18 19 Α. I do. "They cited volatility and vapor drift as their main 2.0 suspicions for damage since they were especially careful to 21 choose days to apply when winds were in the opposite 22 direction of the sensitive soybeans." 23 I read that correctly? 24 25 Yes.

- 1 Q. Now, we talked about following the label correctly -2 following the label earlier, right?
- 3 A. Yes.
- 4 Q. Survey addresses that, too. It says, "They expressed
- 5 strong -- they had followed the label and put their best
- 6 applicators on the job and observed symptoms when winds
- 7 shifted towards the sensitive fields days later, and
- 8 especially in hot conditions. They also wondered if an
- 9 inversion event days later caused the product to move from
- 10 the applied fields."
- 11 Did I read that correctly?
- 12 | A. Yes.
- 13 \parallel Q. When Monsanto received this sort of information from
- 14 | the Illinois Fertilizer and Chemical Association, what, if
- 15 anything, did it do in response?
- 16 A. I'm not -- I've not seen this before, so I can't speak
- 17 \parallel for what was or wasn't done in response to this.
- 18 $\parallel Q$. Well, we can talk about what wasn't done. Same
- 19 product still on the market, right?
- 20 A. That's correct.
- 21 Q. Monsanto maintains the same position, that if you use
- 22 | it according to the label, it won't do these things,
- 23 correct?
- 24 A. Correct.
- 25 Q. And here's my question: When you hear over and over

from your customers that the product behaves in a way
different than you say it will, doesn't that give you pause?

- A. We pay attention to that feedback, yes, and we challenge it against the research that we do to verify.
- 5 Q. Your research you do at Monsanto, that's what you
 6 compare it against?
- 7 A. And research that we've sponsored at the universities 8 now.
- 9 Q. So reports from thousands of farmers around the
 10 country regarding untold numbers of acres in the real world
 11 weighs less in your mind than the research you're doing that
 12 tells it's not a problem?
- 13 MR. MILLER: Objection, Your Honor. Assumes facts not in evidence.

THE COURT: Overruled.

THE WITNESS: All those aspects are considered and taken into account.

- Q. (By Mr. Randles) Well, I'm sure they're considered, but my question is: Does it actually result in any changes?
 And let me break that down. Same product still on the market, right?
- A. Same product.

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- Q. Monsanto maintains its same position that it's never responsible for off-target movement, correct?
 - A. Correct.

- Q. Monsanto maintains the same position that it will never settle an off-target movement claim, correct?
- 3 A. We do not settle off-target movement claims.
- Q. And Monsanto maintains the same position that if off-target movement occurs, you can't blame the product;
- 6 it's the applicator's fault, correct?
- 7 A. Our experience with investigating these claims 8 indicates exactly that.
- 9 Q. Your investigation supports that conclusion, that's what you're telling us, right?
- 11 A. That's correct.

- Q. But the conclusions of all of these users doesn't weigh nearly as heavy in your calculation as your paid investigators' claims going out filling out your form, correct?
 - MR. MILLER: Objection, Your Honor.
- 17 | THE COURT: I'll sustain that objection.
- 18 *Q.* (By Mr. Randles) You haven't changed anything because of this survey, have you?
- A. The label has some additional requirements from the first registration, and that may have been -- may or may not have been implicated in some of the things that we've seen, but we are still selling the product. The data experience and research demonstrate that it doesn't move off-target if applied according to label.

- 1 Q. Not all the data. This is data, isn't it?
- 2 A. It's a survey.
- 3 Q. Of real world users in real world conditions, right?
- 4 A. Correct.
- 5 Q. You can take that down now. I'd like to switch for a
- 6 few moments to ask you about Bill Bader particularly and
- 7 your interactions with him.
- Now, you were not in charge of claims in 2015, were
- 9 you?
- 10 A. No.
- 11 Q. And had you heard that Bill Bader called Monsanto with
- 12 concerns about off-target movement in 2015?
- 13 A. At some point I became aware of that, and certainly by
- 14 the first conversation I had with Mr. Bader by phone the
- 15 summer of 2016, certainly by then I'd heard about it.
- 16 Q. And as you said earlier, you had two conversations
- 17 with Mr. Bader by phone, correct?
- 18 | A. Yes.
- 19 Q. You did not call him of your own volition, did you?
- 20 \parallel A. Well, I was made aware that he had called and members
- 21 of our legal team had talked with him, and they wanted me to
- 22 | talk with him because he wanted to talk with someone else at
- 23 the company.
- 24 Q. So you called him back at the direction of lawyers,
- 25 right?

1 A. That's correct.

2 Q. Now, he's the only driftee you've ever called, isn't

3 he?

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- A. I investigated at least one other claim.
- Q. Put up 52. You recall in your deposition:
- "Q. As we sit here today you can't remember talking to any noncustomer driftee other than Bill Bader, is that

8 correct?

"A. That's correct."

10 That was a question I asked and the answer you gave?

- 11 A. Technically I was correct in my deposition. The other
- 12 claim that I investigated was a person who had applied the
- 13 product. I apologize.
- 14 | Q. Okay. So you called somebody who applied your
- 15 product, but Bill Bader's the only noncustomer you ever
- 16 called, right?
- 17 A. That's correct.
- 18 Q. You did that at the direction of the lawyers, right?
- 19 A. Correct.
- 20 \parallel Q. Now, when you called Bill Bader, you did not tell him
- 21 | that Monsanto's policy was you weren't going to send anybody
- 22 down no matter what he said to you? You didn't tell him
- 23 | that, did you?
- 24 A. I did not.
- 25 | Q. In either phone call you didn't tell him that, did

1 you?

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- 2 A. Well, I did make it clear to him that I wasn't coming to visit.
- Q. But you didn't tell him the policy was, no matter what he said, you weren't coming?
- 6 A. I don't recall.
- Q. And after one of your calls with Bill Bader, you got together with your team in a conference room in St. Louis to discuss what might be the problem on Bader Farms, didn't you?
- 11 A. I don't remember that.
 - Q. Okay. And you don't remember telling me in your deposition that you brainstormed with your team? And then I asked you: "You can't determine symptomatology from a conference room in St. Louis; you have to actually go?"
 - A. I honestly don't remember that.
- 17 *Q.* Play clip 55.
 - "Q. And the fact is we can sit in a conference room in St. Louis and speculate on what might look like dicamba, but you testified earlier the only way to know is to go walk the field and look at it, right?
 - "A. I testified that many different things can cause the same type of symptomatology as dicamba, and to understand what really happened in the field would take more than just an observation of what the symptoms are.

"Q. And would take more than sitting in this conference 1 room in St. Louis speculating, wouldn't it? 2 "A. Yes. 3 "Q. You have to actually go look" --4 5 THE COURT: Stop. MS. GEORGE: It wasn't publishing for the jury. 6 7 That's fine. They heard it. Okay. MR. RANDLES: content to move on, Your Honor. They heard my thick accent 8 9 asking and him answering. (By Mr. Randles) So you don't remember, as you sit here 10 today, meeting with your team, brainstorming about what 11 might be going on at Bader Farms? 12 13 I don't remember a specific meeting with my team to do that, if it occurred. 14 15 So this was summer of '16 when you had conversations with Bill Bader? 16 17 Yes. A. I want to show one -- I want to show 90, Exhibit 90. 18 19 This is an email from John Chambers to I'm sorry. Jennifer -- I'm not going to attempt to pronounce her last 2.0 name -- at Monsanto, correct? 21 22 Α. Yes. 23 It says, "Disease impact versus drift impact north delta." 24

Do you see that?

Α. Yes. 1 2 MR. RANDLES: Your Honor, I want to offer Plaintiff 90. 3 Same objection, Your Honor. 4 MR. MILLER: 5 THE COURT: Overruled; admitted. (Plaintiffs' Exhibit No. 90 admitted) 6 7 Q. (By Mr. Randles) Let's publish it to the jury. Before we highlight anything, I want to show them, in big letters 8 in the bottom, it says, "Suspected dicamba damage begins to 9 come into focus for Bootheel soy farmers." 10 You see that? 11 I do. 12 Α. 13 And there's a link to a St. Louis Post-Dispatch 14 article. Do you see that? 15 Yes. We're not going to get that link. I just wanted to 16 17 point that out to you. So this email is -- we can pull that -- is transmitting this article about dicamba damage in 18 19 the Bootheel, correct? 2.0 It looks to be the case, yes. All right. Let's go to that sentence right above it. 21 22 "I'm not sure how we will be able to separate the two, but 23 we need to make sure disease impact is not overlooked in the conversation around drift." 24

Do you see that?

- 1 | A. I do.
- 2 Q. So in response to this Article about dicamba damage to
- 3 the Bootheel, this Monsanto document says, well, we need to
- 4 | make sure disease isn't overlooked, doesn't it?
- 5 A. It does.
- 6 Q. And, again, you had not walked a single field of
- 7 | dicamba damage at this point in time?
- 8 A. Personally, no.
- 9 Q. Well, no one had from Monsanto if they were following
- 10 the policy, right?
- 11 A. That's correct.
- 12 Q. And you certainly hadn't been to Bader Farms yet, had
- 13 you?
- 14 A. I had not.
- 15 Q. No one had from Monsanto, correct?
- 16 A. To my knowledge, that's correct.
- 17 $\parallel Q$. Okay. We're going to move forward to September 1st,
- 18 📕 2016, and I want to -- first of all, I want to ask you a
- 19 | threshold foundational question. I want you to assume that
- 20 | Bill Bader's lawsuit was filed in November of 2016, all
- 21 right?
- 22 **||** A. Okay.
- 23 | Q. It's important -- November of 2016.
- 24 MR. RANDLES: Your Honor, I'd like to show the witness
- 25 and the Court, counsel, 154.

- 1 Q. (By Mr. Randles) Now, this is an email to you from 2 Joe Sandbrink, isn't it?
- 3 | A. It is.

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- Q. And this is the cover of a forwarding of the report of a report on a legislative hearing, correct?
 - A. Think so.
- 7 MR. RANDLES: Your Honor, I offer 154 into evidence.
- 8 MR. MILLER: Same objection, Your Honor.
- 9 **THE COURT:** Overruled; admitted.

(Plaintiffs' Exhibit No. 154 admitted)

- 11 Q. (By Mr. Randles) Let's go to the relevant page. Now,
- 12 did you ask Mr. Sandbrink to cover this legislative hearing
- 13 yourself?
- 14 A. No. I know Mr. Sandbrink from working with him many
- 15 years at Monsanto. He had retired, and at this point he was
- 16 working with -- for another company, but we kept in touch
- 17 | from time to time and he knew, in my role, I might be
- 18 interested in this.
- 19 Q. And he was a paid consultant for Monsanto at this time
- 20 | in '16, wasn't he?
- 21 | A. I don't know if it was at this time or not.
- 22 $\parallel Q$. He works for Monsanto again, doesn't he? He
- 23 un-retired?
- 24 | A. I don't know if he's working for us at this point or
- 25 not.

- 1 Q. You just don't know?
- 2 A. I don't know.
- 3 Q. Let's start with "as."

"As I said earlier, the Missouri Extension rep thinks

Mr. Bader may be looking at this as an opportunity to cash

in on a problem that has existed in his peach orchard and

that is not related to auxin chemistry."

Pause here. This is a good two months before the lawsuit was filed. I want you to assume the date's correct. This is September 1st, 2016. All right?

A. Okay.

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- 12 Q. Mr. Bader's invited Monsanto folks down more than once, you more than once, right?
- 14 A. At least once.
- 15 Q. Now, Mr. Sandbrink, to your knowledge, had not toured 16 Bader Farms, had he?
- 17 A. Not to my knowledge.
 - Q. Okay. But he says, without anybody from Monsanto having been there, "Opportunity to cash in on a problem that has existed in his peach orchard." He's making the conclusion that the problem was already there without ever coming to look?
 - MR. MILLER: Objection. Completely misrepresenting what that sentence says.
 - THE COURT: Overruled. He can answer.

MR. RANDLES: Well, he's relaying a conversation with someone he had -- I'm content with that. The Missouri Extension rep --

MR. MILLER: Thank you, counsel.

- Q. (By Mr. Randles) Some unnamed person thinks Mr. Bader may be looking as an opportunity to cash in on the problem?
- A. Mr. Sandbrink was just capturing notes and he relayed what a Missouri Extension rep said. It wasn't Mr. Sandbrink saying that.
- Q. But he's relaying it was some, as we'll see in a moment, to cash in on a problem that has existed in his peach orchard that is not related to auxin chemistry. Do you have any idea if that unnamed Extension rep had toured Bader Farms?
- A. I don't.

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- Q. Mr. Sandbrink doesn't say so, does he? We talked earlier how tenured professor at the University of Missouri, of weed science, Dr. Kevin Bradley, gave presentations at the Portersville meeting about Bader Farms that you heard, didn't you?
- A. Yes.
- Q. And I think it's fair to say that Dr. Bradley did not say this at that Portageville meeting, did he, that Bader Farms' problem is unrelated to auxin chemistry?
 - A. I don't know if Dr. Bradley was at this particular

1 meeting even. I don't know who the Missouri Extension rep

- 2 is.
- 3 Q. I don't either, but --
- 4 A. It could be multiple people.
- 5 | Q. But we know who Dr. Kevin Bradley is, tenured
- 6 professor at University of Missouri?
- $7 \parallel A$. Yes, sir.
- 8 Q. Extension department. It's his department, right?
- 9 A. He's a key member of that department, yes.
- 10 | Q. A very senior person, right?
- 11 \blacksquare A. I'll take your word for that.
- 12 Q. You know that yourself, don't you?
- 13 A. I know of Dr. Bradley, and he's a weed science
- 14 extension professor, yes.
- 15 Q. Then it goes on to say, "Will be interesting to see
- 16 where this one goes. All I know is, a decent lawyer will
- 17 | have a field day with Mr. Bader if he gives similar
- 18 testimony as he gave yesterday."
- 19 Read that correctly?
- 20 A. Yes.
- 21 ||Q|. Now, did you ever write back to Mr. Sandbrink and say,
- 22 | well, you know, we can't say -- no one can say if this
- 23 problem's existed in his orchard without going to look at
- 24 | it? Did you ever say that?
- 25 | A. I didn't say that to Mr. Sandbrink. I didn't

necessarily think I needed to because he wasn't relaying the comments; he was just relaying comments from the Extension

3 rep.

Q. And we just relayed at this same point in time a
little bit earlier email went around at Monsanto regarding
problems in the Bootheel saying, don't forget to talk about
disease, right?

- 8 A. That email -- I'm sorry. Are you suggesting they're connected in some way?
- Q. I'm asking a question right now. An email talking about damage in the Bootheel said, "Make sure we don't forget about disease"?
- 13 | A. It did.

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- Q. Okay. Then Mr. Sandbrink says this in an email to
 you. Was he just emailing you for the fun of it or did you
 have a relationship with him?
 - A. As I said before, I worked with Mr. Sandbrink for -on and off for several years. At this point in time he was
 working for another company. As part of his job he was
 going to be at this meeting anyway and shared these notes
 with me.

The letter or the email you mentioned earlier about distinguishing diseases, I see that as a responsible approach and a responsible observation made by someone in the field that there are diseases and they can be -- can be

1 mistaken for other things.

- 2 Q. Put 90 back up. Exhibit 90, Your Honor, in evidence.
- 3 | St. Louis Post-Dispatch article, link at the bottom:
- 4 Suspected Dicamba Damage Begins to Come Into Focus for
- 5 Bootheel Soybean Farmers, "right?
- 6 A. Yes.
- 7 Q. Then the bottom sentence, the sentence right above
- 8 that where the headline talks about dicamba, says, "We need
- 9 to make sure disease impact is not overlooked."
- 10 That's what it says, isn't it?
- 11 A. That's what it says.
- 12 | Q. And, again, this is -- disease impact isn't
- 13 | overlooked. Nobody from Monsanto had gone to any of these
- 14 places, so how could they diagnose disease impact?
- 15 **∥** A. Well, our TAs -- and Larry Ganan is a TA, or a
- 16 Technical Agronomist, spends probably every day in a field
- 17 in the summertime.
- 18 $\parallel Q$. We're talking about '16. You testified no one from
- 19 Monsanto walked any of these damaged fields in '16?
- 20 | A. He's in fields all the time. It doesn't mean he's in
- 21 an alleged damaged field.
- 22 | Q. So if he's just in some field somewhere for some
- 23 | reason, he has the ability to intuit what the cause of
- 24 damage is on other fields?
- 25 A. That's a gross mischaracterization.

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     Q.
           We'll leave that for the jury. Let's go to
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     Exhibit 175.
            THE COURT: That's been admitted.
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           MR. RANDLES:
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                          It hasn't been admitted. No, no, don't
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     show the jury.
           THE COURT: It has been admitted.
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                          It has?
           MR. RANDLES:
           COURTROOM DEPUTY: Yes.
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           MR. RANDLES: Well, I was being cautious.
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10
     apologize.
           (By Mr. Randles) This is the Xtend Inquiry
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     Q.
     Investigation Guidance, at the top. Do you see that?
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13
     Α.
           Yes.
           Let's go to Item number 2: "What to look for during
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     Q.
15
     the course of investigation and information collection."
           Do you see that?
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17
     Α.
           I do.
           "Are symptoms consistent with those typically caused
18
     by dicamba?"
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           Do you see that?
     Α.
21
           Yes.
           And then right underneath it, the first bullet point
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     Q.
     says, "Could symptoms potentially be caused by another
23
     nondicamba factor?"
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Do you see that?

1 | A. I do.

Q. And then it asks, are there Xtend fields in the area
with the same symptoms?

A. Yes.

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Q. Now, I'm puzzled by that bullet point because Xtend fields could not have symptoms of dicamba drift on them, could they?

8 A. That's correct.

Q. Because they're immune?

10 A. That's correct.

11 Q. Okay. Bullet point number two: "Environmental stress
12 (high temperatures, drought, other)."

Did I read that correctly?

A. Yes.

Q. Next bullet point: "Other nondicamba herbicides or products applied to the field or drifted from another source field."

Did I read that correctly?

A. Yes.

Q. So we have in this document a directive to your field people to look for other things it might be, like environmental stress, which would include temperatures and drought, other non-dicamba herbicides or products, don't it?

A. I wrote this, and it's, frankly, modeled after something I had 25 years ago in another company, training my

1 | sales people on how to properly investigate field issues.

- 2 And this is the type of thing that a responsible
- 3 investigation would include. You consider -- you try to
- 4 eliminate other factors. You try to consider all the
- 5 | potential causes that might cause the symptomatology that
- 6 you may see, and that's what we were trying to do here.
- 7 | Q. Are you telling our jurors that your Field Engagement
- 8 Specialists are just as eager to attribute damage to dicamba
- 9 as they are these other factors?
- 10 **A**. No.
- 11 **∥** *Q.* I didn't think so. Let's go to 197. Roundup Ready.
- 12 | You see this, "Roundup Ready Xtend Crop System Update." Do
- 13 you see that?
- 14 A. Yes.
- 15 $\parallel Q$. And I don't know if we have a written date on it, but
- 16 we do have a date from the metadata. Is there an -- on the
- 17 | next page, or on the bottom?
- 18 **MS. GEORGE:** On your notes.
- 19 **MR. RANDLES:** Yeah, I know. I just meant on this.
- 20 \parallel Q. (By Mr. Randles) From the metadata we have a date of
- 21 October 31st of 2017, all right?
- 22 A. October -- okay.
- 23 **MR. RANDLES:** Okay. And this is Xtend Crop System
- 24 Update. Your Honor, I move for the admission of 197.
- 25 MR. MILLER: Same objection, Your Honor.

THE COURT: Overruled; admitted. 1 (Plaintiffs' Exhibit No. 197 admitted) 2 MR. MILLER: Mr. Randles, can you give me that date 3 4 again? 5 MR. RANDLES: I sure do. October 31st of 2017 is what 6 we have. 7 MR. MILLER: Thank you. (By Mr. Randles) And you will see some little -- some 8 internal evidence for this date. Let's go to the page --9 10 This says, "Summary of Inquiries as of first page. 10/26/17." 11 Do you see that? 12 13 A . Yes. And, actually, above it in red it says, "Learnings 14 15 from 2017 season." Do you see that? 16 17 Yes. Α. And it goes on to say, "If a customer experienced weed 18 19 performance issues or symptomatology regarding possible 2.0 off-target movement, Monsanto deployed Field Engagement Specialists, FES, and the objective was to gather 21 information as to the nature of inquiry and offer 22 opportunity to educate during the field visit." 23 24 Do you see that? 25 Yes.

With a total of 3800 inquiries. And if you look here, 1 Q. 2 we have 769 for performance/weed control and 16 for crop There are five non-aq urban -- I don't actually 3 response. 4 know where they fit, but they don't fit in the calculation 5 I'm about to talk about, okay? And then we have off-target movement applicator and off-target movement non-applicator. 6 7 Do you see that? 8 Α. Yes. And I did a little -- we did a little calculation on 9 calculator because I can't do this in my head, perhaps you 10 can. When you add the two off-target -- I guess when you 11 add all the off-target movements, because we have other 12 13 crop, 20 -- I did it again. Other crops, 23, and non-ag 14 urban, five. When you add those together the distribution 15 of claims is, 79.6 percent is off-target movement, and the remainder is other. I'm not asking you to take my word for 16 Know if you can do it in your head, but when you look 17 at these numbers, does that sound about right to you? 18 I'll trust your calculations. 19

Q. So earlier when we were talking about sort of what the distribution would be in claims, and I indicated you had predicted 80 percent would be off-target movement, your calculation was almost exactly correct, wasn't it?

MR. MILLER: Objection. Assumes facts not in evidence.

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THE COURT: Overruled. 1 THE WITNESS: I have to say I don't recall the 2 distribution and the projections. 3 4 (By Mr. Randles) Fair enough. I don't need to 5 particularly give you credit for that. But the distribution of claims works out to about almost exactly 80 percent 6 7 off-target movement, and the 20.4 percent being other causes, correct? 8 9 Α. Okay. And that results in a number of claims slightly above 10 what you projected but still within the ballpark of -- we 11 have around 3,000, little bit over that, off-target movement 12 13 claims, as you testified earlier, correct? 14 Α. Yes, correct. 15 MR. RANDLES: That's all the questions I have. THE COURT: We'll take a recess for another ten or 12, 16 17 15 minutes. Remember the admonition I've given you 18 repeatedly. You can go to the jury room. We'll call you back shortly. 19 (Jury out) 2.0 (Following conducted outside presence of jury:) 21 22 THE COURT: Before we recess, I want to make a record again that I've tried to make repeatedly, that the Court 23 24 will entertain motions -- or limiting instructions on nearly

all of these exhibits that have been introduced with this

witness and others, for that matter, and a lot of his 1 2 testimony, too, so that the jury would understand that this evidence is not being offered -- or a lot of it is not being 3 4 offered for the truthfulness of it, but instead, is being 5 offered just to prove notice to Monsanto. Now, I take it then the absence of any request for limiting instructions is 6 a matter of strategy then for the defendants. 7 So, in any event, I just want you all to know that I'm 8 9 willing to make those -- offer those -- give those limiting instructions. 10 With that, we'll be in recess for ten or 15 minutes. 11 (Court recessed from 2:57 p.m. to 3:24 p.m.) 12 13 THE COURT: Preliminary matters? 14 Okay. Bring the jury in. (Jury in) 15 THE COURT: Mr. Miller. 16 MR. MILLER: Thank you, Your Honor. 17 CROSS-EXAMINATION 18 19 QUESTIONS BY MR. MILLER: Good afternoon, Dr. Carey. I know you've had a long 2.0 Q. Unfortunately, it's not quite over yet. 21 22 Dr. Carey, I want to go back to Exhibit 154. That was towards the end of Mr. Randles's examination of you. And if 23 24 we could have 154 already in evidence up on the screen,

25

please.

And this is the email that Mr. Sandbrink sent to you 2 on September 1, 2016, is that right?

Yes. 3 Α.

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- And he summarized a meeting he attended on August 31, 4 5 the day before, 2016, is that correct?
- Yes. 6 A.
- 7 Now, just to be clear, was Mr. Sandbrink an employee of Monsanto at that time? 8
- I don't believe he was an employee at this time. 9 was working with West Central. 10
- And what is West Central? 11 Q.
- They are a distribution company, distribute 12 herbicides, pesticides, agricultural products. 13
- 14 Let's go to the last page, to the section that Q. 15 Mr. Randles -- or at least part of the section Mr. Randles was talking to you about. And if we could blow up, please, 16 17 Ms. Bedard, the bottom half of that paragraph.

Now, I want to make this clear. There's a line here that says, "As I said earlier, the Missouri Extension rep thinks Mr. Bader may be looking at this as an 'opportunity' -- quote, unquote -- to cash in on a problem that has existed in his peach orchard that is not related to

24 Α. Yes.

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First of all, Mr. Randles, Let's break this down.

auxin chemistry, " correct?

1 when he first asked you about this -- and, frankly, in his

- 2 opening statement -- said it was a Monsanto employee who
- 3 said that Mr. Bader was looking to cash in. Is the Missouri
- 4 Extension rep a Monsanto employee?
- 5 A. No.
- 6 Q. What's a Missouri Extension rep?
- 7 A. Well, a Missouri Extension rep in this context would
- 8 be probably -- a Missouri Extension agent is probably the
- 9 proper term.
- 10 Q. Let's explain to the jury, if they don't know, what is
- 11 Missouri Extension? What does that mean?
- 12 | A. Well, at every land grant university -- and the
- 13 | University of Missouri is the land grant university for the
- 14 State of Missouri -- the mission of that university -- part
- 15 | of the mission is to have an extension department. And the
- 16 extension department goes all the way back to
- 17 | Abraham Lincoln. And they chartered these land grant
- 18 | universities to take the information and the learning from
- 19 the university and the research out into the countryside,
- 20 out into the rural areas, and that's what a lot of extension
- 21 | agents for agriculture do.
- 22 ||Q|. So they're working with the farmers?
- 23 *A.* Yes.
- 24 | Q. And, in fact, Mr. Randles said that Dr. Bradley that
- 25 he referred to is the head of the Missouri Extension project

1 or section out there, correct?

A. Yes.

- 3 Q. And if Mr. Randles is right, then this Missouri
- 4 Extension rep would be working under Dr. Bradley, is that
- 5 | correct?
- 6 A. In that case, I think that would be correct. I don't
- 7 believe Dr. Bradley's the extension director for the
- 8 university, but I don't know. I'm not that familiar with
- 9 all of the people in the --
- 10 \parallel Q. I'm just simply assuming what Mr. Randles said.
- 11 **|** *A*. Okay.
- 12 Q. Okay. So the Missouri Extension rep says that he
- 13 thinks Mr. Bader may be looking at this as an opportunity to
- 14 cash in on a problem that has existed in his peach orchard
- 15 | that is not related to auxin chemistry. What is auxin
- 16 chemistry?
- 17 | A. The term "auxin" is a description. Each herbicide
- 18 \parallel has -- belongs to a different class of chemistry, and the
- 19 class of chemistry for dicamba, or 2,4-D, is auxins.
- 20 | Q. And so if I'm reading this correctly, the Missouri
- 21 | Extension rep is saying, in his opinion, the problem at the
- 22 Bader peach orchard is not dicamba or any other auxin
- 23 | chemistry; it's something that's existed before, correct?
- 24 A. That's what's communicated here.
- 25 Q. By the way, the word "disease" does not appear there,

1 does it?

- 2 A. No.
- 3 Q. And, by the way, Missouri Extension -- you were asked
- 4 a lot of questions about independent academic research. You
- 5 recall those questions from Mr. Randles?
- 6 A. Yes.
- 7 | Q. And when you have universities doing academic research
- 8 for agricultural issues such as herbicides, is that the
- 9 extension part of the university that does it?
- 10 A. Well, yes. Well, using Dr. Bradley's example, he's
- 11 | the extension weed scientist for the State of Missouri.
- 12 Q. So this Missouri Extension rep that's giving his
- 13 | opinion that the damage at Bader peach farm has nothing to
- 14 do with dicamba, he works in the area of the university that
- 15 | the plaintiffs' counsel was suggesting we should be going to
- 16 | for independent information, is that fair?
- 17 A. That's correct.
- 18 Q. Okay. Let's scroll up a little bit and show some of
- 19 the things Mr. Randles didn't ask you about.
- 20 Can we blow up that whole paragraph. Thank you,
- 21 Ms. Bedard.
- 22 Now, this paragraph summarizes -- Mr. Sandbrink's
- 23 writing down notes about what Mr. Bader said himself at the
- 24 meeting, correct?
- 25 A. Yes.

1 Q. And Mr. Sandbrink says -- if you go to the second

2 line. "It was very difficult," starting there. Thank you.

3 He says that, "It was very difficult to follow

4 Mr. Bader, but basically he had the USDA." And who would

5 | the USDA be?

6 A. The USDA is the United States Department of

7 Agriculture agency.

- Q. They work for Monsanto?
- 9 | A. No.

- 10 Q. Mr. Bader testified or stated that the USDA came out
- 11 | to test his peaches for glyphosate, dicamba, and 2,4-D and
- 12 he stated that the results came back negative for 2,4-D and
- 13 dicamba, correct?
- 14 A. That's what it says.
- 15 $\parallel Q$. So, Mr. Bader stated at this meeting that his peaches
- 16 were tested by the federal government for dicamba, and the
- 17 | test was negative, is that fair?
- 18 A. That's what it says.
- 19 $\parallel Q$. And he claimed they wouldn't give him the glyphosate
- 20 results, right?
- 21 A. Again, that's what it says.
- 22 $\parallel Q$. And then Mr. Sandbrink goes on to say that Mr. Bader
- 23 | claims that he will lose 40 percent of his peach crop this
- 24 | year due to dicamba even though it was not detected in the
- 25 samples, correct?

1 A. Correct.

- 2 Q. Mr. Sandbrink then gives an editorial comment, it
- 3 looks like, where he says, "Huh?" Is that right?
- 4 A. Yes.
- 5 \parallel Q. And then he continues on talking about this.
- 6 Mr. Sandbrink said, "The symptoms that he described in the
- 7 St. Louis Post-Dispatch article a couple of weeks ago did
- 8 not correlate with growth regulatory chemistry."
- 9 And did you understand Mr. Sandbrink to be talking
- 10 about an article that appeared in the Post-Dispatch where
- 11 Mr. Bader was describing symptoms he saw at his peach
- 12 orchard?
- 13 **A**. Yes.
- 14 $\parallel Q$. Okay. And when he says that the symptoms that
- 15 Mr. Bader described "did not correlate with growth
- 16 regulatory chemistry, what is growth regulatory chemistry?
- 17 $\|A.\|$ "Growth regulator" is another terminology used to
- 18 describe herbicides, including dicamba and 2,4-D as the most
- 19 common.
- 20 | Q. Okay. So, Mr. Sandbrink is saying that Mr. Bader is
- 21 | giving descriptions of symptoms that don't go with dicamba?
- 22 A. That's correct.
- 23 \mathbf{Q} . And then he goes on to say what Mr. Bader said in the
- 24 article. "He," Mr. Bader, "described 'shot holes' through
- 25 the leaves."

1 Do you see that?

- 2 | A. I do.
- 3 *Q*. What are shot holes?
- 4 A. Shot holes is a term, common term, that agronomists
- 5 | use when they're diagnosing plants that have small holes in
- 6 the leaves. So shot hole really comes from, if you could
- 7 | imagine shooting a leaf with a shotgun, it might look like
- 8 shot holes.
- 9 0. And does dicamba cause shot holes in leaves?
- 10 A. That's not a symptom I would associate with dicamba.
- 11 Q. What -- and you're a weed scientist, correct?
- 12 *A.* Yes.
- 13 $\parallel Q$. What generally causes shot holes in weeds -- in
- 14 leaves?
- 15 | A. Well, could be multiple things, but it certainly could
- 16 be insects or potentially a disease.
- 17 ||Q|. So, when we look at this entire paragraph,
- 18 Mr. Sandbrink was letting you know what the Missouri
- 19 Extension representative's opinions were of Mr. Bader's
- 20 claims, correct?
- 21 A. Yes.
- 22 \parallel Q. And you were asked a lot of questions about claims by
- 23 | Mr. Randles. Do you recall those -- well, at least some of
- 24 those numerous questions you were asked?
- 25 A. I do.

- 1 | Q. And does a claim that someone has, even if they
- 2 honestly believe it, that their crop was injured by dicamba,
- 3 does that mean that, in fact, their crop was injured by
- 4 dicamba?
- 5 A. Well, not necessarily. And we often interchangeably
- 6 use the word "claim" or "inquiry" internally, but it's --
- 7 | generally it's someone who thinks they have a problem but
- 8 you don't know what the real problem may or may not be
- 9 until, you know, a proper investigation can be done, and
- 10 many times it's difficult to do that.
- 11 Q. And so, in fact, sometimes people will file claims,
- 12 | official claims, with say a state regulatory agency claiming
- 13 one thing and it turns out to be something else, right?
- 14 A. That's very possible, yes.
- 15 Q. You were asked, for example, about the Frey claims, is
- 16 that right --
- 17 | A. Yes.
- 18 Q. -- during your examination by Mr. Randles?
- 19 *A.* Yes.
- 20 | Q. And could we see, please, Exhibit 180, which is
- 21 | already in evidence. And if we could go to the second page,
- 22 | please. I think this is the section that Mr. Randles talked
- 23 about. Second page, down at the bottom there, second
- 24 paragraph down. Yeah. Thank you.
- Mr. Randles pointed out to you that the Freys said

- 1 that, right in the middle, "their watermelon, liberty
- 2 soybeans, and sweetcorn were hit pretty hard by dicamba use
- 3 in the Bootheel, " correct?
- 4 A. That's what it says.
- 5 | Q. That's what the Freys believed happened, correct?
- 6 A. Yes.
- 7 Q. And watermelons, they're a specialty crop, aren't
- 8 they?
- 9 A. We would call them a specialty crop.
- 10 | Q. Just like peaches, right?
- 11 A. Certainly a different crop, but a specialty crop. Not
- 12 \parallel what we call a row crop, broad-acre crop.
- 13 ||Q|. And, so, apparently the Freys believed that their
- 14 | specialty crop, watermelons, were hit hard by dicamba,
- 15 correct?
- 16 A. That's what this says, yes.
- 17 Q. And you're aware that they filed a claim with the
- 18 Missouri Department of Agriculture, right?
- 19 A. I understand that's the case.
- 20 \parallel Q. And are you -- claiming that they were hit by dicamba,
- 21 | right?
- 22 A. Yes.
- 23 Q. And are you aware that the Freys later withdrew that
- 24 complaint because afterwards they realized themselves what
- 25 they thought was actually wrong, that it wasn't dicamba,

that it was some other cause?

A. I'm aware of that.

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- Q. So is it fair to take the number of claims that come in and say that those are all dicamba damage?
 - A. Not -- it shouldn't be assumed automatically that they are all dicamba damage, no.
- 7 And you talked a little bit about investigations, and we'll get to this a little later, but if you're doing an 8 investigation as a weed scientist to figure out if there's a 9 problem with a crop, somebody suspects it's a particular 10 cause, in this case dicamba, what are some of the steps you 11 need to take to do a proper investigation to determine if 12 13 the claim is what actually happened? Tell the ladies and 14 gentlemen of the jury, please.
 - A. Well, the most important thing probably would be to visit the alleged field or crop that's impacted as quickly as possible because you want to be able to find out what symptoms are or are not there. And the first thing to do is, as I had mentioned previously, from your experience and other resources, you have make a determination. Do the symptoms I see, are they consistent with what typically we see with that particular type of problem, be it a herbicide or something else, even a disease or whatever? If it's not, it's good to look for -- well, in either case it's good to look at surrounding fields to find out if the

symptomatologies are in the other fields, because it helps
you eliminate the possibility of whatever happened only
happened in that field. Maybe what happened was something
that was a management practice that was on that field, and
that management practice may not have happened on the other

But the most important part is understanding the symptomatology, identifying that, being open to any potential cause, not eliminating or concluding anything from the very first investigation but following up with questions to eliminate and hopefully narrow it down to what actually happened.

- Q. And you talked about eliminating alternative causes.
 Is that part of a proper investigation?
- 15 *A.* Yes.

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- Q. Could you explain what that means to the ladies and gentlemen of the jury.
- Well, an example -- for instance, I talked earlier 18 Α. about, one of the guidances we have is that if you saw 19 20 symptomatology in -- let's say it's an Xtend -- or a soybean If there's an Xtend field nearby, you could check 21 that Xtend field to see, hey, do the same symptoms show up 22 23 in that field? If they show up in that field and they're very consistent with the field that you're concerned about, 24 25 there's a good likelihood that it's not caused by dicamba in

that example because the dicamba couldn't have caused those same symptoms in that comparison field. That's just one example.

- Q. Okay. And what about if you went to a separate -- a field right next door that had sensitive crop -- soybeans are the most sensitive things for dicamba, is that fair?
- 7 A. Soybeans are as sensitive as any plant we're aware of, 8 yes.
- 9 Q. And if you had a non-dicamba-tolerant soybean field
 10 right next to a field that thought it might have been hit by
 11 dicamba, and there was no dicamba symptomatology in that
 12 soybean field, would that give you some information?
 - A. It absolutely would. You want to make those --
- 14 Q. What would it tell you?

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- A. Well, if you see the symptomatology in the non-dicamba soybeans and if it's next to a dicamba field, and those symptoms are consistent with what you would expect to see with dicamba, you should start investigating what happened in that other field. Did that -- was dicamba even applied in that field or was it applied in any other area around the field?
 - Q. What if you have a non-dicamba-tolerant soybean field right next to the field you're investigating and that non-dicamba soybean field has no symptoms of dicamba? Is that an indicator that there's not dicamba?

- A. Could be. Again, you'd need to know what the circumstances around it were.
- 3 Q. You can't tell from just one factor?
- 4 A. No, no. You need to eliminate things. You need to fully investigate.
- 6 Q. And speaking about people believing what might have
- 7 caused losses to them, Mr. Randles asked you about a couple
- 8 phone calls that you had with Mr. Bader. You spoke with
- 9 Mr. Bader twice in 2016, correct?
- 10 A. Correct.
- 11 Q. Mr. Randles didn't ask you about what was discussed in 12 those phone calls. I'm going to.
- Let's talk about the first call. Was that in July of 2016, do you recall?
- 15 A. It was in July.
- 16 Q. And tell us what Mr. Bader and you talked about.
- 17 A. Well, Mr. Bader described to me that he was having
- problems with his peach trees, and he mentioned that he had
- 19 problems in 2015, which would have been the previous year.
- 20 Q. Did he tell you what the problems were caused by in 21 2015?
- 22 A. He indicated that there had been an application made
- 23 by -- aerially, or through a crop duster --
- 24 Q. Crop duster. Okay. Go ahead.
- 25 A. -- nearby. That applicator had applied, he indicated,

1 Roundup 2,4-D, and Valor.

- 2 Q. What's Valor?
- 3 A. Valor's a herbicide used for soybeans. It's a
- 4 preemergence or a soil-applied herbicide called flumioxazin.
- 5 | Q. Is not dicamba?
- 6 A. No, no.
- 7 Q. And is Roundup dicamba?
- 8 A. No. Roundup is glyphosate.
- 9 Q. Is 2,4-D dicamba?
- 10 A. No.
- 11 Q. Okay. Go ahead.
- 12 A. So he indicated that he had had the state out, he also
- 13 | had the insurance company for the aerial applicator both to
- 14 his farm and that they had both taken samples of his peaches
- 15 for potential residue analysis.
- 16 Q. Now, let me ask you: The aerial application, did he
- 17 | say what that was over? Was it an in-crop or was it a
- 18 burndown?
- 19 A. I don't know if he said, but if it had Valor in it, it
- 20 | would not have been over top of a soybean crop. It would
- 21 | kill the crop. It was very likely a burndown herbicide.
- 22 $\parallel Q$. So you can use Valor over burndown just like you can
- 23 | legally use dicamba over burndown, is that fair?
- 24 A. That's correct.
- 25 | Q. And a burndown -- when we're talking about application

1 onever a burndown, what is a burndown?

- Burndown is when a grower might want to get the 2 Α. Yeah. weed control established before they actually plant the 3 crop, and often times it might be in a no till situation 4 where they aren't tilling the weeds, so -- but they have to 5 manage those weeds some way, shape, or form before they try 6 7 to plant their actual crop. So we typically refer to that as a burndown because it burns the weeds down so that you 8 9 can plant your crop.
- Q. And Mr. Bader told you during that call that that aerial application, that cropduster burndown, took place
 April 11th F 2015?
- 13 **A**. Yes.

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- Q. And, now, in 2015, Monsanto had started selling Xtend cotton, correct?
- 16 A. That's correct.
- Q. In April in the Bootheel is anybody spraying dicamba?

 Even if they're doing it illegally, is anybody spraying

 dicamba over the top of cotton in the Bootheel on

 April 11th, 2015?
 - A. That would be -- that would be too early and those components of that spray would kill the crop anyway.
- Q. So this problem that Mr. Bader had predated, according to him, the time period when Xtend would even have been started -- excuse me, when even illegal applications of

1 dicamba could have been made over the top of Xtend crops?

- 2 A. If illegal applications over the top were being made
- 3 they would have happened much after this point in time.
- Q. And, so, Mr. Bader told you that the state came in and
- 5 | took samples, is that right?
- 6 A. Yes.
- 7 Q. What did they find, according to Mr. Bader?
- 8 A. He indicated they did find dicamba in the samples, in
- 9 the peach tissue samples.
- 10 Q. Is there any way that dicamba at that time of year
- 11 could have come from an illegal spray over an Xtend crop?
- 12 A. No.
- 13 MR. RANDLES: Objection, Your Honor.
- 14 **THE COURT:** Just a second.
- MR. RANDLES: He hasn't been qualified as an expert in
- 16 this area.
- 17 MR. MILLER: It's Farming 101, Your Honor, and he's
- 18 been asked a variety of things.
- 19 **THE COURT:** He's been offered as a weed scientist by
- 20 you, I think, so --
- 21 MR. MILLER: Correct.
- 22 MR. RANDLES: I offered him as Monsanto executive. He
- 23 is a weed scientist as well.
- 24 MR. MILLER: I agree, Your Honor. He has -- thank
- 25 you.

THE COURT: I think he's qualified as an expert.

MR. MILLER: Thank you, Your Honor.

- 3 Q. (By Mr. Miller) Go ahead, Dr. Carey. Is there any way
- 4 | that the dicamba that was detected in Mr. Bader's fields in
- 5 2015 by the State of Missouri from their testing of his
- 6 leaves could have come from a dicamba application over Xtend
- 7 | crop?

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- 8 A. No.
- 9 Q. What did he tell you about what was found? He said
- 10 they found some dicamba, right?
- 11 A. He did.
- 12 Q. What else did they find?
- 13 A. He indicated they also found glyphosate. Glyphosate
- 14 was at five times the concentration of the dicamba that they
- 15 found.
- 16 | Q. Okay. What else did they find?
- 17 A. 2,4-D, which they indicated was 11 times the
- 18 concentration of the dicamba that was found.
- 19 Q. So they found some dicamba, correct?
- 20 A. That's correct.
- 21 Q. They found five times the amount of glyphosate, right?
- 22 *A.* Yes.
- 23 $\parallel Q$. And they found 11 times the amount of 2,4-D?
- 24 A. Correct.
- 25 Q. And, by the way, what type of herbicide, what family

1 of herbicide does 2,4-D belong to?

- 2 A. It's in the same class or chemistry as dicamba. It's
- 3 an auxin herbicide, acts in a very similar manner in the
- 4 plant as dicamba.
- 5 Q. And it gives some of the same -- similar
- 6 symptomatology as dicamba?
- 7 A. Very similar, yes.
- 8 | Q. And did Mr. Bader tell you -- in your first phone call
- 9 with Mr. Bader, did he tell you that what his loss was in
- 10 2015 from this aerial application of these other herbicides?
- 11 A. Well, he indicated that he believed he would lose
- 12 | 50 percent of his crop, and --
- 13 || Q. For 2015?
- 14 \blacksquare A. Or he had lost 50 percent of his crop --
- 15 $\parallel Q$. Okay.
- 16 | A. -- and 10,000 peach trees.
- 17 \parallel Q. So let me make this clear. In 2016, the first time
- 18 you're talking to Mr. Bader, he told you that, as a result
- 19 of an aerial crop spray of 2,4-D, Valor, and glyphosate, and
- 20 | then -- and I quess some dicamba in the burndown, he lost
- 21 | half his peach crop in 2015, and 10,000 trees were killed?
- 22 A. That's what he told me.
- 23 $\parallel Q$. Did he tell you during that phone call at all that he
- 24 suffered any damage in 2015 to his peach orchard from
- 25 dicamba that had been sprayed over an Xtend crop?

- 1 A. I don't recall. I don't remember.
- 2 Q. You took notes of that, correct?
- 3 A. I took notes of the conversations, yes.
- 4 Q. Do you need to check your notes to refresh your
- 5 | recollection?
- 6 A. No. I don't -- I don't think so. Not in this case.
- 8 A. Can you repeat the question so I'm sure.
- 9 Q. Did he tell you that any of his 2015 loss was as a
- 10 result of dicamba sprayed over Xtend crop?
- 11 A. I don't recall him telling me that. And he talked
- 12 about the aerial application was his problem.
- 13 $\parallel Q$. Now, did he talk to you about what he claimed was
- 14 | going on in 2016?
- 15 A. Yes.
- 16 Q. What did he tell you?
- 17 \parallel A. He felt that his peach trees were again being
- 18 impacted.
- 19 Q. By what?
- 20 | A. Well, in this instance he said it was illegal
- 21 applications of Roundup, plus Banvel.
- 22 | Q. Illegal applications of Roundup and Banvel?
- 23 *A.* Yes.
- 24 | Q. Okay. What's Roundup? Glyphosate?
- 25 A. Yes. Roundup is glyphosate.

- 1 Q. And what is Banvel?
- 2 A. Banvel is an old formulation of dicamba.
- 3 Q. In fact, that's the original one?
- 4 A. Well, a very old one we'll say.
- 5 Q. Okay. And did Mr. Bader tell you what the illegal
- 6 applications of Banvel and glyphosate were sprayed over?
- 7 A. Yes. He believed they were being sprayed over Xtend
- 8 crops.
- 9 Q. Did he know -- okay. And did he tell you -- so that
- 10 was 2016 he was making that claim?
- 11 A. This is 2016 we're talking about.
- 12 Q. What did he tell you his damage was that he was
- 13 alleging from that?
- 14 A. I think he said he felt he would lose 25,000 trees,
- 15 and a thousand acres of those trees were peaches is what he
- 16 said.
- 17 Q. Did Mr. Bader make any discussion of a lawsuit in that
- 18 | call?
- 19 | A. He talked about -- he said that farmers in that area
- 20 were hiring attorneys left and right.
- 21 0. What about him?
- 22 | A. He told me his attorney had talked to a Don Downing in
- 23 St. Louis. He wanted me to know that.
- 24 Q. So did he talk about the possibility of a lawsuit?
- 25 A. He did. He said --

Q. I'll just leave it at that. What did you tell

Mr. Bader about what products Monsanto had or did not have

on the market at that time regarding his allegation that he

was hit with Banvel and 2,4-D?

A. Well, I made it clear that in 2016, or even before that in 2015, that no dicamba herbicide was registered for applications over the Xtend crops, cotton or soybeans, and that Monsanto didn't even sell or market any kind of a dicamba formulation. So, clearly, if the applications were being made, they were illegal.

- Q. And what about the glyphosate? Because he said he got hit by off-target movement of glyphosate, and Monsanto was selling glyphosate, right?
- A. We do sell glyphosate in the form of Roundup. He felt that potentially -- I think his theory was that the glyphosate and the dicamba, from whatever formulation was being sprayed, volatilized together onto his crop. And I shared with him that if he had glyphosate and he had dicamba in his crop, that they didn't get there together by volatilization because glyphosate does not volatilize. It would more than likely, almost certainly, be an off-target movement situation if that's, in fact, what was in his crop.
- Q. Specifically a physical drift --
- 24 A. Yes.

Q. -- situation? And we'll get to physical drift in a

1 few minutes.

2 Let me move on to the second phone call you had with

- 3 Mr. Bader.
- 4 A. Yes.
- 5 \ \ Q. Do you recall what month that was?
- 6 A. It was in August.
- 7 | Q. Of 2016 still?
- 8 *A.* Yes.
- 9 Q. And what did you all talk about in that phone call?
- 10 A. Well, Mr. Bader wanted me to know that -- he wanted to
- 11 | know what our stance was going to be regarding what was
- 12 | happening to his farm and in the Bootheel.
- 13 Q. What did you tell him?
- 14 A. Well, I told him similarly, you know, from the first
- 15 | conversation, that we didn't market dicamba formulation, so
- 16 | if dicamba was getting into -- if dicamba was getting into
- 17 | his crop, it was coming from illegal applications.
- 18 Q. Now, did Mr. Bader make any comments about his belief
- 19 as to whether all of his problem was from dicamba or not?
- 20 \parallel A. He said he understood that not all of his problem was
- 21 | from dicamba is what he said.
- 22 Q. For 2016?
- 23 A. For 2016.
- 24 | Q. Did you discuss anything about the farmers who were
- 25 | allegedly spraying old formula dicamba?

- 1 A. Well, he acknowledged that he understood that they
- 2 knew there were illegal applications.
- 3 Q. So they were breaking the law by doing that?
- 4 A. Yes.
- 5 Q. Did you discuss, in either of these calls, whether
- 6 Mr. Bader had already contacted the authorities, if you
- 7 | will, the state and federal agencies that have authority to
- 8 come in and investigate these things?
- 9 A. Well, in 2016 he indicated that the FDA had been there
- 10 and had taken samples of his peaches.
- 11 Q. And you found out from Mr. Sandbrink later that,
- 12 according to Mr. Bader, those peaches came back negative for
- 13 dicamba, correct?
- 14 A. Assuming those are the same samples they were
- 15 referring to.
- 16 Q. That's fair. Okay. What else did he tell you?
- 17 \parallel A. He also said he had the Missouri Department of Health
- 18 out to his farm as well.
- 19 Q. Dr. Carey, I want to talk about -- I want to move on
- 20 | to a slightly -- it's a related, but a different topic here.
- 21 The word "drift" has been thrown around a lot, and
- 22 | then we've heard the word "volatility" and we've heard the
- 23 | term "off-target movement." I want to break those down so
- 24 everybody understands what we're talking about with that
- 25 | terminology, okay?

- 1 | A. Sure.
- 2 Q. What does "off-target movement" mean?
- 3 A. It's a term to describe any time a pesticide, when
- 4 | it's applied, ends up in a place where it's not supposed to
- 5 | be, you know, where you didn't intend for it to go, which
- 6 where you intended for it to go is -- in this case is on the
- 7 crop and the weeds -- in different ways.
- 8 Q. I'm sorry. I apologize for interrupting you. You
- 9 want it to go on the crop of the weeds and stay there?
- 10 A. Exactly.
- 11 Q. Is there only one type of off-target movement?
- 12 A. No. There's multiple ways that that can possibly
- 13 happen.
- 14 Q. Okay. One of the words that has been thrown around a
- 15 | lot is "drift," and that's also known as physical drift,
- 16 | right?
- 17 | A. Yes.
- 18 Q. Tell the ladies and gentlemen of the jury, what is
- 19 drift when you're talking about off-target movement?
- 20 | A. Well, if you can envision a sprayer, regardless of the
- 21 | size -- it could be a small, you know, yard sprayer, it
- 22 | could be a very large agricultural sprayer. When the spray
- 23 in the water comes out the nozzle there are small droplets,
- 24 and those small droplets are intended to hit the crop and
- 25 | intended to hit the weed to control the weed, but if there's

- 1 wind, the wind can physically move those droplets
- 2 off-target. And the smaller the droplet, the more likely or
- 3 the more possible it is for the wind to move those. We call
- 4 that physical drift of a physical spray droplet.
- 5 Q. And usually that's often short-term to just drift?
- 6 A. Yes.
- 7 Q. Okay. Can dicamba drift?
- 8 A. Yes. Any herbicide -- any pesticide, including
- 9 herbicides, when they're applied through a nozzle and a
- 10 sprayer, some level of drift will occur.
- 11 Q. Why is that?
- 12 A. It's just physics, Mother Nature.
- 13 $\parallel Q$. Okay. So anything that you spray out of this, it's
- 14 going to go -- some of it's going to move a little bit?
- 15 A. Correct.
- 16 Q. And so are there precautions that can be taken to try
- 17 and limit drift for any herbicide?
- 18 A. Yes, absolutely, and that's --
- 19 Q. Like what?
- 20 | A. Well, really choosing nozzles that will produce
- 21 droplets that are less prone to drift.
- 22 \parallel Q. And we're talking about the nozzles that go on the
- 23 boom arms of the sprayer?
- 24 A. The spray boom, yes.
- 25 Q. Basically the herbicide comes down a tank, goes down

1 | the boom, and out the little nozzles, right?

- 2 A. A good demonstration. The boom height -- the higher
- 3 the boom height is, the more likely it's going to allow the
- 4 drops to catch wind. The speed of the sprayer. There are
- 5 | multiple factors that can be managed and reduce the
- 6 potential for physical drift.
- 7 Q. Is dicamba any more prone to physical drift than any
- 8 | other herbicide on the market?
- 9 A. No, no. Physical drift's really about a spray
- 10 droplet. And a meaningful difference is -- there's no
- 11 | meaningful difference if it's dicamba in the droplet or
- 12 Roundup or another herbicide.
- 13 \parallel Q. Does physical drift have anything to do with 2,4 --
- 14 anything to do with volatility?
- 15 $\| A$. They're separate types of off-target movement.
- 16 Q. And we'll get to volatility in a minute.
- 17 Now, you've said, I think, a number of times, that
- 18 | industry standard for manufacturers -- that they're not
- 19 responsible for off-target movement. Do you recall that?
- 20 A. I do.
- 21 Q. Could you explain that to the ladies and gentlemen of
- 22 | the jury. What is that standard and why is that the rule?
- 23 A. Well, it's -- I would call it an industry standard.
- 24 If you look at multiple different manufacturers of
- 25 herbicides, multiple different products, you may find the

exact same language that's used, for instance, on our XtendiMax with VaporGrip label. And it says essentially that maintaining herbicides on target or avoiding spray drift is the responsibility of the applicator.

Q. Why would that be?

A. Well, any application that's made -- every application that's made is its own unique situation. And, of course, those applications are being made in the real world on farms or other places where herbicides are used, so you have different factors that vary, from the wind speed, the humidity, the temperature, the potential of an aversion, or no inversion, as well as the unique situation where the field is placed. Is it around other sensitive crops or is it in the middle of hundreds of other acres of the same crop?

There's a lot of factors involved, so the applicators are required to be certified to understand those situations, and they're in the best position, really the only position to make a responsible decision as to whether the application should or should not be made under the circumstances they have at that point in time.

- Q. So, we've talked some about the first category of off-target movement, physical drift, or drift, right?
- A. Yes.
 - Q. Second category, tank contamination. What's that?

1 A. That's usually the second most common type of off-target movement.

Q. Is drift the first most common type?

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- A. Physical drift's the most common, yes.
- 5 Q. Okay. Tell us about the second most common.
- So, tank contamination is what it says. Basically, if 6 7 you make an application of one herbicide, you've got that herbicide in a spray solution, water solution in your tank. 8 If you want to spray a different herbicide, potentially move 9 to a different crop or a different area to spray, you first 10 need to clean out the original herbicide because that 11 herbicide may not -- that original herbicide may injure 12 13 where you're going next. So you've got to be sure that 14 you've adequately cleaned out the spray tank, all the
 - equipment so that there's no contamination over to that new application.
- 17 \parallel Q. And what happens if you don't do that right?
 - A. Well, if you don't do that right -- it depends on the herbicide, it depends on the crop that you're going to, but certainly with dicamba it's very active and effective, so a very small amount of dicamba, for instance, especially over a soybean crop that's not tolerant, can cause symptoms.
 - Q. What's the third most -- what's the third type of off-target movement?
 - A. Volatility is usually the third type of off-target

1 movement that we train on.

- Q. And could you explain to the ladies and gentlemen of the jury -- excuse me, ladies and gentlemen of the jury, what that means?
- A. So, if you think about a compound, whether it's a liquid or even a dry compound -- but think of a liquid like water. When you heat water up high enough, it turns into a gas. Or I always like to use the analogy of putting gasoline in my lawnmower. If you've ever seen the fumes rise off of the gasoline, that's evaporation, or volatilization, into a gaseous form.

So, some herbicides have the quality of being more volatile or more likely to volatilize than others. The chemistry of dicamba, the molecule itself, not the formulation --

Q. The original form?

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- 17 $\|A$. The original form, the active ingredient, if you will.
- 2,4-D is another one. Clomazone is another one. But those
- 19 chemistries have more of a propensity to volatilize.
 - Q. Now, if something volatilizes up off the field that it was sprayed on, does that immediately mean it's going to be off-target movement, it's going to hit another field? Or what else has to happen?
 - A. Well, it has to be in a sufficient concentration to cause, you know, a problem in an off-target location. It

would need to be moved in that sufficient concentration
without dilution or enough dilution to basically render it
ineffective.

Q. What do you mean, "dilution"?

- A. Well, you can think about the example of perfume. If you spray perfume on your skin, you can smell it across the room, but eventually it dilutes to the point where you no longer smell it. It basically dilutes itself into the atmosphere. That's an analogy.
- 10 Q. Okay. Now, we'll come back to those a little later, okay?

I want to talk some and ask you some questions about -- oh, there was one thing I forgot to ask you about, and that's on tank contamination. Is tank contamination, the second form of off-target movement -- is dicamba any more prone to off-target movement through tank contamination than any other herbicide on the market?

- A. In this situation -- again, any herbicide potentially can be prone to tank contamination. What matters is how much is contaminated and what crop, or where does it end up going after that. But any can be prone to tank contamination and that's why all labels are very clear about being very effective in cleaning out the tanks.
- Q. You got to thoroughly clean out the tank whether you're using dicamba or 2,4-D or Valor or whatever?

A. That's correct.

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Q. All right. Let me switch topics, switch gears here.

I want to started going through a few more documents that

Mr. Randles went through with you. Can we go to Plaintiffs'

282, please. And this is already in evidence. And could we

go to the page that Mr. Randles called up, I think it's page

282? I thought that was in. That was the first one he used, Your Honor. It's the big power point, big thick thing.

Okay. Page 12 of that, please. Okay. Mr. Randles asked you some questions about the Xtend crop system when he was referring to this page, correct?

A. Yes.

Q. And I want to be very clear. I want you to be clear with the jury. What is the Xtend crop system?

A. The Xtend crop system is a -- it's a marketing term, basically the crop system, and what it refers to is the individual products. So, the crop system would include the soybean -- in this case we use soybean with a trait, or Xtend soybeans. It would also include the herbicide that would be registered for it, only the low volatility herbicide that's actually registered for use. And in our case, that's XtendiMax with VaporGrip. And for BASF, that's Engenia. Corteva markets a product called FeXapan. And now

Syngenta markets a product called tavium. Those four would be the only four registered for applications over the crop.

It would also include, as this slide demonstrates, our Roundup Ready PLUS. This has been -- or, at this time it was called Roundup Ready PLUS, and that's a program by which -- by using components of what we call the system, the more components of the system you use, you have the opportunity to get a rebate on additional herbicides because it's really important not to use just a dicamba herbicide and a soybean or the cotton system. That's not a strong stewardship approach to manage the potential for weed resistance.

Q. Why not?

- A. Because when you rely on one herbicide exclusively or almost exclusively, you have a strong selection pressure if there happens to be a resistant weed out there. It might be one in a thousand, one in a million. If you use multiple different herbicides with different modes of action, even if that one weed might be or potentially could be resistant to one of the modes of action, one of the other modes of action is much more likely to control it, and that's a basic practice that is really important for the long-term sustainability of the products.
- Q. Now, let me ask you this, Dr. Carey: When you're talking about the Xtend system, does the Xtend system

1 include any dicamba?

- 2 A. No. It's got to be -- there's only -- as I mentioned,
- 3 there's only four current products registered for use. They
- 4 have to be the low volatility products that we've produced
- 5 | and marketed.
- 6 Q. And that's XtendiMax with VaporGrip for us; Engenia
- 7 | from BASF; FeXapan from Dow?
- 8 A. Is was. Now it's Corteva. Yes.
- 9 0. And then the fourth one?
- 10 A. Fourth one is tavium from Syngenta.
- 11 Q. Is Banvel part of the Xtend system, crop system?
- 12 A. No, never has been and it never will, or we won't
- 13 | support a registration for a product like that.
- 14 \parallel Q. Is Clarity part of the Xtend crop system?
- 15 *A.* No.
- 16 Q. It's never been approved over the top of Xtend seed?
- 17 A. Not for commercial use, no.
- 18 \parallel Q. Okay. Can someone -- are these things sold together?
- 19 Are they bundled? Does Monsanto sell the seed with the
- 20 XtendiMax?
- 21 | A. No. They're independent products. A farmer can buy
- 22 | the seed and choose whether he does or doesn't want to buy
- 23 | one of the products that are registered for the weed
- 24 control, the herbicides. Or, frankly, the herbicides have
- 25 | labels for other uses beyond just the Xtend crop, so grower

1 has the opportunity to purchase one or both.

- 2 | Q. Well, let's say the grower wants to have dicamba for
- 3 his Xtend seed, he wants to have a low volatility dicamba.
- 4 Can he just walk in and say, Give me the Xtend system? I
- 5 mean, wouldn't the person know --
- 6 | A. No.
- 7 Q. -- well, here's what it is?
- 8 A. No. We don't market it that way. We don't sell it
- 9 | that way. There's no price for the system together as a
- 10 | bundle. I'm not an expert in marketing law or anything, but
- 11 | I'm pretty certain that that might be an illegal way to
- 12 market a product.
- 13 Q. An illegal way?
- 14 | A. An illegal way. But I'm beyond my knowledge on that.
- 15 | That's what we've been told before.
- 16 Q. Okay. When Xtend cotton was first sold in 2015,
- 17 | Mr. Randles asked you some questions in which he said it was
- 18 sold without any available herbicide. Do you recall those
- 19 | questions?
- 20 A. Yes.
- 21 Q. Is that accurate? When Xtend cotton was first sold in
- 22 | 2015, were farmers just supposed to plant it and not have
- 23 any herbicide to spray over the top of it?
- 24 A. No. That's a good point. To be clear, the XtendFlex
- 25 | cotton -- in 2015, even though there was no registration for

1 the use of a dicamba product over that cotton, that cotton's

2 no different than any other cotton in the marketplace. Any

- herbicide that's registered for non-Xtend cotton or
- 4 | XtendFlex cotton could be used. And in the case of cotton,
- 5 | it also had a new trait for cotton, which was the
- 6 glufosinate trait, which enabled Liberty to be used over
- 7 | that cotton. So, really, you could use any registered
- 8 product, plus a new trait and herbicide in this case,
- 9 Liberty.

- 10 Q. So with Xtend cotton -- you said glufosinate was for
- 11 | the first time available. That was the first time Monsanto
- 12 | had a cottonseed that was resistant to glufosinate?
- 13 A. That's a first time we had a cottonseed resistant to
- 14 glufosinate, yes.
- 15 \parallel Q. What about Xtend soy in 2016? When that was sold, is
- 16 | it accurate to say that Xtend soy was sold in 2016 with no
- 17 available herbicide?
- 18 \parallel A. Again, it's important to be clear that any registered
- 19 herbicide for soybeans -- Xtend soybeans or non-Xtend
- 20 soybeans -- can be used on Xtend soybeans. So all the other
- 21 products that are available for weed control were there.
- 22 | The one that's not, obviously, it was the new one that we
- 23 were pursuing, which was, of course, dicamba.
- 24 Q. That was low volatility dicamba?
- 25 A. Low volatility dicamba.

Q. XtendiMax eventually, correct?

the dicamba-tolerant trait?

A. Yes.

- Q. Okay. Well, let me ask you this, Dr. Carey: If
 you're introducing -- if Monsanto is starting to sell Xtend
 cottonseed in 2015 -- let's start there chronologically,
 okay? But it's illegal to use any form of dicamba over it
 at that time. Why -- what's the reasoning for selling the
 seed in 2015? Why are you selling it then if you can't use
 - A. Well, the varieties, the XtendFlex varieties, are high-performing varieties. They were the best germplasm or varieties in cotton that we had available. And typically what we found when we've launched new traits over the years is that growers like to get some experience with those new varieties. In this case they would not be able to legally apply the dicamba, but they would get a chance to get agronomic experience and understand how those products performed in the absence of that tool.
 - Q. Now, you were not working in the Xtend area in 2015, correct?
 - A. Correct. Not until the end of the year at least.
 - Q. What about 2016 when Xtend soy was released, the seed, before there was any legal -- any dicamba that could legally be sold over the top, what was the reason for that?
 - A. Same reasons really. The best varieties we had were

in the Xtend -- were Xtend varieties. And part of that was
because we'd had delays in EPA registration of the
herbicide, which gave our breeders more and more time to
improve those products as they were anticipating potential
launches even earlier than that.

Q. So when the breeders are making a new seed and
cross-breeding, or however it is they do it, are they just

- cross-breeding, or however it is they do it, are they just focusing on, for example, just the dicamba-tolerant trait or are they trying to improve whatever they can improve in the seed?
- A. That's a good point. Certainly the trait's important, but no matter how good or bad the trait is, that product's only as good as the agronomic performance, the yield potential, and its disease resistances. So, a breeding organization -- and, frankly, every breeding organization is continuously year-to-year improving their varieties, and so typically the newest varieties are usually the best performing varieties.
- Q. Now, Dr. Carey, I want to go on to another document that Mr. Randles showed you. Could we have Plaintiffs' Exhibit 608, please. And that's already in evidence. And it's page 56. This is the M&M picture. Thank you.
- Dr. Carey, Mr. Randles asked you about this. Do you recall that?
 - A. I do.

Q. And I want to drill down on this. Mr. Randles said a few times he didn't want to get into the details. I do.

Let's talk about what we're looking at here. You talked about off-target movement, you talked about drift, and you talked about volatility, correct?

A. Correct.

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- Q. In this slide, when it says, "How much Clarity per acre does one need to ruin a snap bean field," and you see the drop there about the size of a peanut M&M, are we talking about something were it volatilizes and goes over and hits down or is this a direct spray?
 - A. Well, one of the reasons I think I mentioned -- well, first of all, I think this is a great slide and it's a great educational tool to get the point across to applicators, but it needs to be in the right context from the standpoint that, I'm pretty certain that that amount of Clarity -- and I'm assuming that's actually water in the example, but if that were Clarity, that -- if that were sprayed uniformly over a field it would ruin a snap bean field. I don't think the -- I don't think I would say that, you know, if it volatilized from this drop, that an entire snap bean field would be impacted. But, regardless, it's an excellent educational tool.
 - Q. And let's talk about what you just said a little bit more. When you're talking about a herbicide that

volatilizes, even if you've got a herbicide that in some
situations volatilizes, are you talking about all of it just
evaporating up? Like the entire drop that's been spread out
over an entire acre, every single molecule volatilizing and
moving off?

- A. No. Typically it's a relatively small amount of the overall amount that was originally applied. You know, in the case of dicamba, of course, it is very effective, and relatively small amounts will cause symptomatology, which is what people typically see when it actually does volatilize like a -- you know, a situation like Banvel or if a product's applied with AMS or other things.
- Q. That's another thing I wanted to ask you. This is comparing this drop of directly sprayed Clarity to a peanut M&M, correct?
- 16 A. I'm sorry. Can you say that again.
- Q. Sure. This slide is comparing a drop of Clarity specifically to a peanut M&M, right?
- 19 A. Yes.

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- Q. And was Clarity ever approved for use over the top of Xtend crops?
- 22 A. No.
- Q. And do you know if this comparison would be the same for XtendiMax or Engenia, or do you know?
 - A. Well, I think, again, in a bright context, different

loadings of active ingredient are different in a product

2 like Engenia versus Clarity versus XtendiMax. So, those are

- 3 just details that would need to be understood.
- 4 | Q. I want to go on, please, to Exhibit 151 that
- 5 Mr. Randles showed you. This is already in evidence. And
- 6 if we can go down to the notes area in the middle there. I
- 7 | believe that's what Mr. Randles pulled up. Yeah, right down
- 8 there. Down a little lower, please. Yeah, perfect. Thank
- 9 you.
- 10 And Mr. Randles asked you about, in the middle there,
- 11 where it says, "protocols determined to have no potential to
- 12 compromise regulatory strategy, you may proceed -- TD may
- 13 proceed protocols determined to have potential to compromise
- 14 | regulatory strategy, " you have to take one of these two
- 15 | actions, either terminate or recommend for review, right?
- 16 A. Yes.
- 17 Q. You recall his questions about those?
- 18 A. Yes, I do.
- 19 $\parallel Q$. And if we scroll down a little more -- that's all
- 20 right. Sometimes it works, sometimes it doesn't. If we can
- 21 scroll down a little more down there.
- 22 Mr. Randles pointed out that one of the things was
- 23 | testing for volatility, correct?
- 24 A. Yes.
- 25 ||Q|. Now, that's not the only protocol objective that would

come under this scrutiny, correct?

A. Correct.

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- Q. What are the other ones?
- 4 A. Well, as indicated, herbicide impacts to sensitive
- 5 areas, which, of course, can happen from physical drift or
- 6 any other off-target movement. Synergy was mentioned
- 7 | earlier today, had become a significant issue with the
- 8 | Enlist herbicide that was at EPA and we anticipated would
- 9 impact our registration. And then, of course, new
- 10 performance claims beyond those already established, or
- 11 competitor formulations. That's the list that we had here.
- 12 Q. Could we go back up to the first box that you made,
- 13 Ms. Bedard, please. Okay. Sorry.
- Dr. Carey, I want to ask you about this language
- 15 | saying, "potential to compromise regulatory strategy." Can
- 16 you explain to the ladies and gentlemen of the jury your
- 17 understanding of what that means?
- 18 | A. Well, what we meant here was that our regulatory
- 19 organization was very clear with us that EPA would require
- 20 | absolutely high quality data conducted under the protocols
- 21 | that they -- in the way that they, being EPA, would require,
- 22 and that basically means GLP.
- 23 Q. What is GLP?
- 24 A. Good laboratory practices.
- 25 | Q. What is good laboratory practices?

- 1 A. Well, it's a -- and I'm not an expert because I've not done GLP work. Usually --
 - Q. What generally do you know about it?
- A. It's essentially the highest level of laboratory -- or not "laboratory" -- field research work conducted under strict controls and measures to insure that the protocols are followed and conducted to the highest degree of quality, and actually has components and elements of it that prevents
- 9 the potential for bias because you -- as the company, you
- 10 don't do that work yourself; you have to contract a
- 11 third-party who's certified to do that work and do it under
- 12 those requirements.
- 13 Q. So, the "compromising regulatory strategy" refers to using only GLP testing?
- 15 A. It does.

- Q. Why would that compromise the regulatory strategy ifyou don't use good laboratory practices?
- A. Well, especially if it's a type of testing that you're not qualified to do, don't have experience doing -- and, frankly, our TD organization do not do, we're not certified to do that type of work -- if a mistake is made it could
- 22 | lead to misinterpretation or misrepresentation.
- Q. Was -- is it your understanding that this language
 about compromising regulatory strategy have anything to do
 with, we don't want to do any testing if it's going give us

1 a result we don't like?

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A. No. We were conducting the research that needed to happen on volatility and on other aspects of the protocol development, but it was being done under controlled circumstances.

- Q. Now -- and does EPA require GLP before herbicide is approved for volatility anyway?
- A. Well, again, I'm not a regulatory person, but my understanding is, this type of research would have required GLP studies because it's a unique type of research.
- Q. And that kind of gets me into another area I want to talk with you about that Mr. Randles asked you about, and that is academic testing and the stopping of academic testing in 2015.

What is your understanding as to why Monsanto stopped academic testing on volatility in 2015 prior to the EPA approving XtendiMax with VaporGrip?

- A. Well, it relates back to this discussion that EPA's requirements are very specific, and they were going to require GLP results, and we wanted to insure that any work that we did followed that protocol, followed those requirements.
- Q. Well, don't academics do their studies, their field studies, under good laboratory practices, GLP?
 - A. That's not a typical -- as I said before, honestly,

very few research entities are certified for that work, and it's not a typical type of work that universities are doing, not the type of university researchers that we typically

- Q. They don't have the resources to do it?
- A. Resources is another issue. It takes a tremendous
 amount of resources, as well as training, documentation, and
 certification.
- 9 Q. And why does it -- why does GLP -- what's some of the 10 reasons GLP requires training and documentation and 11 certification? Why require all of that?
 - A. Well, obviously -- I shouldn't say "obviously." EPA is, you know, making critical decisions, and so, understandably, they're going to demand the highest quality, you know, highest rigor type of research done in a consistent manner so that the results can be -- they can be reliable and they can be confident in those results.
 - Q. Mr. Randles asked you, I think yesterday, about -- you know, might have been today, I don't remember -- whether you should try and get bias out of scientific testing. Do you recall those questions?
 - \blacksquare A. I do.

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work with.

- Q. Does GLP have anything to do with trying to remove the bias?
 - A. Again, I don't know the exact process, but I learned

that -- about GLP, that the third-party is not only
collecting the data, conducting the work, but analyzing the
results. So there are parameters or elements that are

designed to take the potential for bias out of that

5 research.

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- Q. And what about the documentation and having to write everything down and having it all double checked so that somebody can look over the shoulder, does that have anything to do with getting the bias out as well?
- 10 A. Absolutely. Every -- yes. It's very, very detailed work.
- Q. Now, I want to ask you something else that you brought up in one of your answers there about training and that sort of thing. You're a weed scientist, correct?
 - A. Yes.
- 16 Q. Generally speaking, are weed scientists qualified to test for volatility?
 - A. To my experience, most weed scientists don't do that type of testing, at least not -- again, GLP type testing certainly, and really not trained or experienced typically in doing volatility research.
 - Q. And Mr. Randles pointed out that Monsanto did not have the academics doing volatility testing in 2015 or '16, but they allowed them to continue doing what are called efficacy testing, whether the --

1 | A. Yes.

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- Q. -- weed killer would kill the weeds, right?
- 3 A. Yes.
- Q. Is that the type of testing that weed scientists are used to doing day in and day out?
- 6 A. Very much so, yes.
- Q. Mr. Randles suggested that after XtendiMax with

 VaporGrip was on the shelf in November of 2016 or beginning

 of 2017, that, well, at that point the academics didn't need

 Monsanto any more because they can just walk into the store,

 grab a bottle of XtendiMax, and go do the volatility testing

 themselves. Do you recall those questions?
- 13 A. Yes, I do.
- Q. Is it your understanding that an academic could have just walked into the store, grabbed a bottle of XtendiMax, and gone and done field testing, volatility field testing?
 - A. Well, certainly they could purchase the product and do testing. The type of testing we're talking about, and really the type of testing it takes to answer the questions or the -- in some cases the concerns that the university researchers had, they would need more specialized equipment and a lot more than just an efficacy trial.
 - Q. And, in fact, after the EPA approved Xtend with VaporGrip in November of 2016, Monsanto started sponsoring, giving money to academics to go do independent research on

1 | volatility of XtendiMax, correct?

A. That's correct.

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- Q. And you just mentioned something about special equipment. Did the academics -- did they all have the special equipment they even needed to do the volatility testing?
 - A. No. In fact, that academic group designed the protocols and the research they wanted to do, and we did not ask them -- we did not direct that research. It was their protocol, their research to answer the questions they had concerns about. But when they designed the protocol it became apparent that they would need more specialized equipment than they had or had access to, so Monsanto sponsored the work, even though it was their protocol, but we also in many cases provided specialized equipment to enable it.
 - Q. Equipment they didn't otherwise have already?
- 18 A. That's right.
- Q. Dr. Carey, I want to go on to another document that
 Mr. Randles showed you part of. This is Exhibit 510,
 already in evidence. And if we could go, please, to page
 of. If you could just -- no. I got the wrong -- that's
 five, please. If we could go to the next page, page -there we go. If you could blow that up, Ms. Bedard. Thank
 you.

1 Mr. Randles went over part of this page with you. Do
2 you remember that?

3 A. Yes.

- 4 Q. And there are three categories on this page, correct?
- 5 A. There are.
- 6 Q. Benefits on the one hand, right?
 - A. Benefits, risks, and a plan.
- Q. Okay. Let's talk about those three. Well, let's talkabout it holistically first. What's going on on this page?
- 10 Why are we looking at benefits and risks and plan, and how
- 11 do they go together?
- 12 A. Well, in the context of the overall presentation, you
- 13 know, people within the organization -- and I wasn't
- 14 involved in this one --
- 15 Q. Right.
- 16 A. -- were debating and taking into consideration all of
- 17 | the things that they felt were critical to consider as to
- 18 \parallel whether or not they should go forth with the launch of the
- 20 registration for the herbicide.
- 21 ||Q|. And, so, on the one hand there are benefits to doing
- 22 | that, correct?
- 23 *A.* Yes.
- 24 | Q. And then, on the other hand, there are risks to doing
- 25 | that, correct?

1 | A. Yes.

Q. And if you want to go forward, you come up with a plan to try to address at least some of those risks, is that

4 | fair?

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A. That's correct.

cottonseed?

- Q. And is that what's going on on this slide?
- 7 A. Yes, that's exactly what this indicates.
- Q. So let's look at a couple of the benefits. And I want to start with the top one. I think Mr. Randles highlighted part of that but I want to highlight the whole thing on the top bullet. "XtendFlex" -- and that's the name of the Xtend
- 13 \blacksquare A. That's the cotton product, yes.
 - Q. It says, "One of the benefits is that growers will still have the choice and flexibility to use glyphosate and glufosinate."

What are we talking about there?

- A. So, glyphosate is the common name for Roundup, and glufosinate the was common name for Liberty herbicide. So, it's just pointing out that the growers can use both of those products if they have this XtendFlex cotton, and those are approved herbicides.
- Q. It was what we were talking about before, it wasn't like the cotton was going to go out there with no legal herbicide to use over it?

- 1 A. That's correct. Plus -- they have those two, but --
- and every other registered herbicide for any other cotton.
- 3 | Q. And, in fact, the next bullet under "Benefits" shows
- 4 that over 35 percent of cotton planted the year before, in
- 5 | fact, contains glufosinate tolerance, but, of course, that
- 6 was seed from another company, right?
- 7 A. I believe that's correct.
- 8 Q. So, there's already a market out there for cotton with
- 9 glufosinate, Liberty, tolerance, right?
- 10 A. Correct.
- 11 Q. Now, several other benefits there. I'm not going to
- 12 | take everybody's time to go through all of those, but let's
- 13 go down to the risks, particularly the one that Mr. Randles
- 14 pointed out, and that's in the middle. "Growers make
- 15 | off-label applications of dicamba." You see that one?
- 16 A. I do.
- 17 \parallel Q. And that was a risk of putting out the seed in 2015
- 18 and '16, correct?
- 19 A. That's correct.
- 20 $\parallel Q$. If -- what is an off-label? Just so we're clear, in
- 21 2015, when there's no dicamba approved for over-the-top use
- 22 | on Xtend cotton, what does "off-label" mean, "off-label
- 23 application of dicamba"?
- 24 | A. So, "off-label" is a common term used in the industry
- 25 | to say that either there's no label approved for that or

- 1 | it's an application that's inconsistent with a label that
- 2 does exist. In this case it's talking about, there would be
- 3 no label and it would be an illegal application if it were
- 4 made.
- 5 | Q. I'm sorry. It would be an illegal application?
- 6 A. Illegal. Sorry.
- 7 Q. And, so, at the bottom is there a plan to try to
- 8 respond to that potential risk?
- 9 A. The plan on this slide suggests that XtendFlex cotton
- 10 | would be launched, along with a robust communication plan,
- 11 that dicamba cannot be used.
- 12 Q. And Mr. Randles has made numerous references during
- 13 his questioning of you as just a pink label?
- 14 A. Yes.
- 15 Q. Remember those?
- 16 | A. Yes.
- 17 $\parallel Q$. Is that all Monsanto did was just a pink label or
- 18 another form of a pink label?
- 19 A. No.
- 20 | Q. Let's go to the very next page and see some of the
- 21 | things that Monsanto planned to do for the communication to
- 22 growers and retailers to tell them, you can't spray this
- 23 | stuff in 2015 or -- well, this one's 2015.
- 24 What are we looking at here, Dr. Carey?
- 25 A. Well, this is, again, a plan for communications to

growers and to retail how we would educate them and the tactics we would take to do that.

Q. Let's take a look at some of these. Mr. Randles asked you about, well, did you send -- do you know if you sent emails out to every single person who was buying this stuff?

Let's look at the second one, letter to all growers who purchase. What's that?

- A. So, that's referring to -- as was discussed earlier today, we have record of anyone who would have a license to use our technologies, so a letter would have been sent to all of those individuals.
- Q. Telling them what?

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- A. Well, telling them that they can plant this cotton but they cannot apply any dicamba over the top of that cotton, we don't have a registration yet.
- 16 Q. Is that all that Monsanto did?
- 17 \blacksquare A. No. There's a long list here.
- 18 Q. Let's take a look at the next one, letters to all dealers with inventory. What's that?
- A. So, the dealers in this case would refer to people who sell the XtendiMax -- excuse me, in this case it would be seed. So, our -- Delta Pine would be our brand, but any dealer who has inventory of the XtendFlex seed, they would have gotten a letter indicating the same things.
 - Q. That you can't spray dicamba in 2015?

1 A. That's correct.

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Q. The next one says, "Communication and direction through SRPs." What's an SRP?

A. SRP stands for strategic retail partner. In our organization, in Monsanto, examples of that would be Growmark, Winfield United, Nutrien, a lot of the large distributors who sell, not only crop protection chemicals, but also seed.

- Q. Let's jump down a couple corporate messages into, "Winter grower group training." What are we talking about there?
- A. So, within the Bayer -- at this time Monsanto organization -- we have multiple different seed brands that we go to market with: Asgrow, Dekalb, Channel, and then a number of regional brands. All of those -- all of the sales people, the agronomists that are parts of those brands and work with farmers and dealers, always have winter trainings, multiple trainings and meetings all through the winter and all through the spring in preparation for the upcoming year, so these messages were included in all of those trainings.
- Q. Let's go to -- well, let's go to the next one, pallet and -- is that Bolbox? Bolbox packaging inserts, do you know what those are?
- A. Generally, yes. You know, cotton may be packaged in different ways. Cottonseed that's sold by planting by a

1 | farmer may come in bags or units on a pallet or in a Bolbox,

- 2 you know, in a larger container that's used for larger
- 3 planters.
- 4 \ \ \ \ Q. So this is not the pink label on every bag we're
- 6 A. I don't believe this is the pink label.
- 7 | Q. Okay. Then you got a couple more down, "Attachment to
- 8 | the dealer bill of lading." What's that?
- 9 A. That one I'm not nearly as familiar with, but clearly,
- 10 | it's another -- it's another touchpoint with people who are
- 11 purchasing the seed.
- 12 ||Q|. And, again, just skipping another one, going down to
- 13 | the bottom: "Bulletins and notice through extension and
- 14 influential academics." So, you're also going to the
- 15 | academics to get the word out that you can't use dicamba in
- 16 2015?
- 17 \parallel A. Yes, absolutely. We asked for their help and support
- 18 in doing that.
- 19 Q. So, I know I skipped a few on this list. Is the pink
- 20 | label even mentioned in any of this?
- 21 A. I don't believe it's on this list.
- 22 \parallel Q. Okay. So if we look at just some of the ones, you're
- 23 | talking about sending letters to the growers in March,
- 24 right?
- 25 A. Yes.

- 1 Q. Letters to the dealers in March, right?
- 2 A. Correct.
- 3 Q. Communications through SRPs throughout the winter,
- 4 | right?
- 5 A. Yes.
- 6 Q. Messages to winter growing groups from January through
- 7 March, right?
- 8 *A.* Yes.
- 9 Q. Packaging inserts when the seed is delivered, correct?
- 10 | A. Yes.
- 11 Q. Attachments to the bill of ladings when they're
- 12 delivered, right?
- 13 A. Yes.
- 14 Q. And then bullets and notice through extension and
- 15 | influential academics throughout the spring, correct?
- 16 *A.* Yes.
- 17 $\parallel Q$. And I know I've skipped a few but we'll leave it at
- 18 that for now.
- 19 MR. MILLER: Court's indulgence one moment,
- 20 Your Honor.
- 21 | THE COURT: You can stand up if you want.
- 22 **MR. MILLER:** I'm not going to be able to finish this
- 23 | afternoon, Your Honor. However long you'd like me to go.
- 24 THE COURT: As long as it's okay with them.
- 25 MR. MILLER: Let me go through three more exhibits --

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they're not going to be real long -- and then I think that would be a good stopping point, Your Honor. If it please the Court.

(By Mr. Miller) Let me go to Exhibit 604, please. And this is already in evidence. Mr. Randles put this in. Ιf you could blow that up, please, Ms. Bedard.

This was the email about the call with Darren Brown,

- Yes.
- I want to point out one thing here because it links into something you and I talked about probably 45 minutes The last sentence of the first paragraph there, he ago now. had a positive experience overall except for a spray tank contamination that he acknowledged was his fault. To your understanding, what is that talking about?
- obviously a seed grower for us, so -- obviously, we don't produce seed in a factory, it's produced in farmers' fields. This is one of the farmers who was helping grow Roundup Ready 2Xtend soybeans for us, as well as Bollgard II XtendFlex, and over those -- so it indicates that for four years he was evidently doing that.

Now, this is all before either -- some of this would have been either before the seed or the -- certainly before the herbicides were registered, and so he had to use M1691,

1 which we discussed earlier is a basically a Clarity product

2 that was never commercialized for commercial applications

- but was used before the registration for seed growers.
- 4 Q. And when we're talking about spray tank contamination,
- 5 that's one of the forms of off-target movement that we
- 6 | talked about?
- 7 | A. Yes.

- 8 Q. Let me go on to the last two for today. Let's start
- 9 with Plaintiffs' 169, please.
- And this is the compliance advisory from August 2016
- 11 that Mr. Randles showed you. Do you recall that?
- 12 A. Yes.
- 13 ||Q|. And if we could go down to where he -- the part he
- 14 showed you, agricultural concerns, right? Thank you.
- 15 And, as he noted in there, the EPA says, to date, the
- 16 Missouri Department of Agriculture has received
- 17 | approximately 117 complaints alleging misuse of pesticide
- 18 products containing dicamba, correct?
- 19 A. Correct.
- 20 $\parallel Q$. Now, was it legal to use any dicamba over Xtend crops,
- 21 | either cotton or soy, in August of 2016?
- 22 A. It was not.
- 23 \parallel Q. And does the EPA say here in this paragraph that
- 24 | they've gone into it at that point and looked and found out
- 25 | that, in fact, these complaints are dicamba, or is there

1 | further investigation as far as you can tell from this?

2 A. This doesn't conclude what the outcome of their

3 investigations were.

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Q. Let's look at the next page to see what they can do depending on the outcome of their investigation. Can we go to the end of the first full paragraph. Yeah. That one, please. Thank you.

And EPA announces to everybody that, EPA enforcement actions -- the last sentence -- "may include but are not limited to assessing civil and criminal penalties." Is that correct?

- A. That's what it says, yes.
- 13 Q. And are you aware that EPA has the authority to do that?
 - A. That would have been my understanding, yes.
- Q. If someone is spraying illegally, what other
 government organizations that you're aware of are there to
 go in and investigate and apply penalties?
 - A. Well, I don't know of all, but I'm certain that the state departments of agriculture would be the key entities that would have that ability.
 - Q. As far as you know, does the -- if somebody is alleged to have sprayed illegally, can Monsanto just go onto that person's field and start their investigation without their permission?

- 1 A. No, that's -- I don't believe that's possible.
- 2 Q. Could the state and federal government do that?
- 3 A. I don't know but I assume that they have the authority
- 4 to.
- 6 August of 2016, correct?
- 7 | A. Yes.
- 8 Q. What happened regarding the EPA's view of XtendiMax
- 9 | with VaporGrip after August of 2016 when was it approved?
- 10 A. So, I'm making sure I have my years and months
- 11 correct, but from August of 2016 -- as of November of 2016
- 12 is when the EPA approved XtendiMax with VaporGrip
- 13 | technology.
- 14 Q. So, the three months after this compliance advisory
- 15 was sent out -- and presumably investigations are ongoing
- 16 during those three months -- three months later the EPA
- 17 | approves the sale of XtendiMax with VaporGrip for sale to
- 18 the public, correct?
- 19 A. That's correct.
- 20 \parallel Q. Let's go to Exhibit 219, please. This is the other
- 21 compliance advisory that Mr. Randles showed you. Do you
- 22 recall this?
- 23 A. I do now.
- 24 | Q. And this one's 11 months later, July of 2017, correct?
- 25 A. Yes.

- Q. Now, this is after XtendiMax with VaporGrip is on the market, right?
- 3 A. That's correct.
- Q. It's the first growing season, in fact, that it was available, and Engenia, too, was available to be used?
- 6 A. Yes, that's correct.
- 7 | Q. All right. And if you could go down, please, to the
- 8 paragraph under -- yeah, agricultural concerns. And, again,
- 9 this is something talking about potential off-target
- 10 movement complaints that have come in, right?
- 11 | A. Yes.
- 12 Q. And the last two sentences of that paragraph say,
- 13 | Both physical drift and volatilization of dicamba from the
- 14 | target application site have been reported, "right?
- 15 A. That's correct.
- 16 Q. But then it goes on to say, "The underlying causes of
- 17 | the various damage reports are still being investigated, " is
- 18 | that right?
- 19 A. That's correct.
- 20 ||Q|. So, no conclusion in here about whether these reports
- 21 are or are not, in fact, dicamba, right?
- 22 A. There's -- I don't see a conclusion here, no.
- 23 $\parallel Q$. And, again, they're talking about both drift and
- 24 volatilization, is that right?
- 25 A. They mention both, yes.

1 Q. Is the incidence or is the tendency to drift, physical

drift, where the person's spraying it and the wind's blowing

it, is that any greater for XtendiMax than it is for any

other herbicide on the market?

 \blacksquare A. No.

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6 Q. So, whatever number of complaints dealing with

7 | physical drift would have nothing to do with volatility of

the chemical properties of XtendiMax with VaporGrip,

- 9 correct?
- 10 A. That's correct.
- 11 Q. Let's go to the next page. And if you could go to the
- 12 second paragraph, please, Ms. Bedard. Yeah, that one.
- 13 And the EPA tells people, "If you suspect crop damage
- 14 has been caused by the off-target movement of dicamba" --
- 15 | and, by the way, the off-target movement, the most common
- 16 form is what?
- 17 A. Physical drift.
 - Q. Second is what?
- 19 A. Tank contamination.
- 20 | Q. And third is volatilization?
- 21 A. Yes.
- 22 | Q. So, if you believe any of that happened, they're
- 23 directing people to call your state department of
- 24 | agriculture and your state pesticide regulatory agency, is
- 25 | that correct?

- A. That's what it says.
- 2 Q. And it goes on to tell everybody that the EPA is
- 3 working directly with state lead agencies and is interested
- 4 in reviewing any information obtained from investigations of
- 5 possible crop damage related to the use of dicamba, correct?
- 6 A. Correct.

- 7 Q. And this came out in July of 2017, is that right?
- 8 A. That's correct.
- 9 Q. And a little over one year later, what decision, if
- 10 any, did the EPA make after they looked at all of these
- 11 investigations about XtendiMax with VaporGrip? Did they say
- 12 no more or did they give it another approval to continue to
- 13 be sold?
- 14 A. The EPA issued another approval for another two years.
- 15 **MR. MILLER:** Probably a good stopping point,
- 16 | Your Honor, if it please the Court.
- 17 \parallel THE COURT: All right. Remember the admonitions I've
- 18 given to you. But more than that, again, because your
- 19 | family, your spouses, your children, your friends, they're
- 20 | all going to want to know what you're doing here, remember,
- 21 | tell them you're under oath not to discuss the case; not
- 22 | only not to just the case, but also you shouldn't listen to
- 23 | any reports, anything in the media. You should not do any
- 24 research. You know all of the admonitions.
- So, I want to thank you for being so attentive. I

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1	noticed that not a single one of you nodded off at all.
2	You're really paying close attention to this complicated
3	case, and I know all the parties really appreciate that, as
4	I do.
5	So, with that, the Court Security Officers will help
6	you to your vehicles. We'll start again at 9:00 tomorrow
7	then.
8	(Jury out)
9	THE COURT: So we have time to do any work. This is
10	off the record.
11	(Off the record)
12	THE COURT: We'll be adjourned until tomorrow at 9:00.
13	(Proceedings adjourned at 5:03 p.m.)
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REPORTER'S CERTIFICATE

I, Laura A. Esposito, Registered Professional Reporter and Certified Realtime Reporter, hereby certify that I am a duly appointed Official Court Reporter for the United States District Court for the Eastern District of Missouri.

I further certify that the foregoing is a true and accurate transcript of the proceedings held in the above-entitled case, that said transcript contains pages 1 through 131, inclusive, and was delivered electronically. This reporter takes no responsibility for missing or damaged pages of this transcript when same transcript is copied by any party other than this reporter.

Dated at St. Louis, Missouri, this 30th day of January 2020.

Laura A. Esposito

Laura A. Esposito, RPR, CRR, CRC Official Court Reporter