

Agricultural Innovation Board Meeting

January 22, 2024 1pm-3:05pm

Transcript Text

0:0:0.0 --> 0:0:5.850

86120c6c-8638-4e7c-b634-2557cc4933ed

Hello and welcome to the first AIB meeting of 2024.

0:0:6.470 --> 0:0:22.920

86120c6c-8638-4e7c-b634-2557cc4933ed

As a reminder, this meeting is being recorded as public record and that participation in the recorded meeting will be deemed as consent to be recorded, including statements both written and oral public records, including this recording, can be requested at any time in accordance with the Vermont Public Records Act.

0:0:25.380 --> 0:0:26.880

86120c6c-8638-4e7c-b634-2557cc4933ed

So hello and welcome.

0:0:31.740 --> 0:0:33.130

86120c6c-8638-4e7c-b634-2557cc4933ed

We are.

0:0:36.370 --> 0:0:40.50

86120c6c-8638-4e7c-b634-2557cc4933ed

This having a few more Members role in.

0:0:43.0 --> 0:0:48.150

86120c6c-8638-4e7c-b634-2557cc4933ed

I guess we will start in the room here with our introductions.

0:0:48.360 --> 0:0:50.460

86120c6c-8638-4e7c-b634-2557cc4933ed

So I'll start with Members first.

0:0:50.490 --> 0:0:51.530

86120c6c-8638-4e7c-b634-2557cc4933ed

The go ahead, Jonathan.

0:0:51.640 --> 0:0:53.100

86120c6c-8638-4e7c-b634-2557cc4933ed

Jonathan, Chairman, prep consultant.

0:0:55.500 --> 0:0:57.690

86120c6c-8638-4e7c-b634-2557cc4933ed

And then he's already UM extension.

0:1:0.980 --> 0:1:2.530

86120c6c-8638-4e7c-b634-2557cc4933ed

Steve, Steve wardell.

0:1:3.780 --> 0:1:5.130

86120c6c-8638-4e7c-b634-2557cc4933ed

Ancient agriculture, good marks.

0:1:8.160 --> 0:1:11.730

86120c6c-8638-4e7c-b634-2557cc4933ed

I'm gonna do more members that I see.

0:1:11.780 --> 0:1:15.880

86120c6c-8638-4e7c-b634-2557cc4933ed

So Wendy Sue, we're just doing your introduction.

0:1:19.380 --> 0:1:20.80

wsh

Can you hear me?

0:1:21.10 --> 0:1:21.680

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah. Yep.

0:1:21.660 --> 0:1:26.540

wsh

Ohh great cause I'm just getting on and there's all these screens blocking things.

0:1:29.60 --> 0:1:29.550

wsh

Wendy's.

0:1:29.560 --> 0:1:30.390

wsh

Uh, Harper.

0:1:30.400 --> 0:1:35.640

wsh

I'm a soil scientist and I represent the soil biology position.

0:1:37.870 --> 0:1:39.60

86120c6c-8638-4e7c-b634-2557cc4933ed

Thanks Ryan.

0:1:41.140 --> 0:1:44.0

Ryan Rebozo

Ryan Rebozo and I'm with the Vermont Center for Ecstasies.

0:1:47.660 --> 0:1:48.540

86120c6c-8638-4e7c-b634-2557cc4933ed

Thanks, Ryan. Abby.

0:1:57.20 --> 0:1:58.90

Pajak, Abbi

Sorry, I was muted.

0:1:58.580 --> 0:2:0.230

Pajak, Abbi

Abby Pajak, DC.

0:2:4.800 --> 0:2:5.410

86120c6c-8638-4e7c-b634-2557cc4933ed

Thanks everyone.

0:2:5.420 --> 0:2:6.260

86120c6c-8638-4e7c-b634-2557cc4933ed

OK see.

0:2:8.270 --> 0:2:12.100

86120c6c-8638-4e7c-b634-2557cc4933ed

I think that was all of our Members right now.

0:2:12.110 --> 0:2:15.220

86120c6c-8638-4e7c-b634-2557cc4933ed

So let's I'm going to start in the room now.

0:2:15.230 --> 0:2:17.590

86120c6c-8638-4e7c-b634-2557cc4933ed

The non members and I'll.

0:2:17.640 --> 0:2:19.380

86120c6c-8638-4e7c-b634-2557cc4933ed

And so you'll go ahead.

0:2:19.730 --> 0:2:23.40

86120c6c-8638-4e7c-b634-2557cc4933ed

Jill God cheaper, larger specialist with the agency.

0:2:23.50 --> 0:2:23.710

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That agriculture.

0:2:25.150 --> 0:2:30.30

86120c6c-8638-4e7c-b634-2557cc4933ed

Stephanie Stephanie Smith, deputy director with the Agency of Agriculture.

0:2:32.640 --> 0:2:38.30

86120c6c-8638-4e7c-b634-2557cc4933ed

And we have a new intensive agriculture employee with us.

0:2:38.210 --> 0:2:42.70

86120c6c-8638-4e7c-b634-2557cc4933ed

Hey, AM and so you can kind of introduce yourself.

0:2:42.160 --> 0:2:42.400

86120c6c-8638-4e7c-b634-2557cc4933ed

OK.

0:2:43.400 --> 0:2:45.820

86120c6c-8638-4e7c-b634-2557cc4933ed

Hi everyone is there a camera?

0:2:47.330 --> 0:2:49.710

86120c6c-8638-4e7c-b634-2557cc4933ed

It's not, it's not working right now.

0:2:49.750 --> 0:2:50.540

86120c6c-8638-4e7c-b634-2557cc4933ed

Sorry, fine.

0:2:50.790 --> 0:2:51.920

86120c6c-8638-4e7c-b634-2557cc4933ed

My name is Pam Grier.

0:2:51.930 --> 0:2:54.0

86120c6c-8638-4e7c-b634-2557cc4933ed

I'm that new agrichemical toxicologist.

0:2:55.40 --> 0:3:1.10

86120c6c-8638-4e7c-b634-2557cc4933ed

I have been on job four weeks, 3 1/2 weeks so take it easy on me please.

0:3:1.20 --> 0:3:7.510

86120c6c-8638-4e7c-b634-2557cc4933ed

Today I come here from 6 years as being the pesticides toxicologist with the main board.

0:3:7.520 --> 0:3:8.370

86120c6c-8638-4e7c-b634-2557cc4933ed

Pesticide control.

0:3:9.660 --> 0:3:9.870

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah.

0:3:11.360 --> 0:3:13.280

86120c6c-8638-4e7c-b634-2557cc4933ed

My degree is in environmental toxicology.

0:3:16.580 --> 0:3:16.980

86120c6c-8638-4e7c-b634-2557cc4933ed

Thank you.

0:3:18.590 --> 0:3:20.40

86120c6c-8638-4e7c-b634-2557cc4933ed

How about Steve Cash?

0:3:23.250 --> 0:3:26.710

Cash, Steven

Steve Cash, Agency of agriculture, water quality division.

0:3:34.320 --> 0:3:34.820

86120c6c-8638-4e7c-b634-2557cc4933ed

Gene.

0:3:34.990 --> 0:3:35.150

Steve Schubart

What?

0:3:37.810 --> 0:3:40.340

Gene Harrington

A gene, Herrington biotechnology innovation organization.

0:3:45.590 --> 0:3:48.260

86120c6c-8638-4e7c-b634-2557cc4933ed

I'm with a few more members who are joining us too.

0:3:48.270 --> 0:3:48.780

86120c6c-8638-4e7c-b634-2557cc4933ed

Roy, you want?

0:3:48.790 --> 0:3:50.380

86120c6c-8638-4e7c-b634-2557cc4933ed

We're just going through our introduction.

0:3:53.660 --> 0:3:55.260

Roy Beckford

Alrighty, I'm Roy.

0:3:55.270 --> 0:4:2.20

Roy Beckford

Back foot associate Dean and director of extension UVM hope that's good enough.

0:4:2.220 --> 0:4:2.650

86120c6c-8638-4e7c-b634-2557cc4933ed

Perfect.

0:4:2.870 --> 0:4:3.750

86120c6c-8638-4e7c-b634-2557cc4933ed

That's perfect. Thanks.

0:4:5.110 --> 0:4:5.990

86120c6c-8638-4e7c-b634-2557cc4933ed

These, she worked.

0:4:8.240 --> 0:4:9.280

Steve Schubart

Gives schubart.

0:4:10.120 --> 0:4:14.60

Steve Schubart

I'm on the Commission and I raised grass fed beef.

0:4:16.140 --> 0:4:16.360

86120c6c-8638-4e7c-b634-2557cc4933ed

I think.

0:4:18.660 --> 0:4:22.140

86120c6c-8638-4e7c-b634-2557cc4933ed

And we have two other people joining us.

0:4:22.150 --> 0:4:24.490

86120c6c-8638-4e7c-b634-2557cc4933ed

Sydney and they're just doing a quick introduction.

0:4:26.40 --> 0:4:27.230

Sydney Miller

Hi, Sydney Miller.

0:4:27.240 --> 0:4:28.630

Sydney Miller

I work at the Vermont B lab.

0:4:32.870 --> 0:4:33.540

86120c6c-8638-4e7c-b634-2557cc4933ed

Thanks and Zach.

0:4:35.580 --> 0:4:38.370

Szczukowski, Zach

It's actually kowski agency of agriculture food markets.

0:4:43.260 --> 0:4:43.660

86120c6c-8638-4e7c-b634-2557cc4933ed

Great.

0:4:48.100 --> 0:4:49.520

86120c6c-8638-4e7c-b634-2557cc4933ed

Alright so.

0:4:51.710 --> 0:5:6.340

86120c6c-8638-4e7c-b634-2557cc4933ed

Are gender today we are going to hear from Gene Harrington kind of an update on the New York for the Protection Act that we've been talking about of late.

0:5:6.350 --> 0:5:12.390

86120c6c-8638-4e7c-b634-2557cc4933ed

And also we're going to hear from Doctor Heather Darby about her research and any new results that she has.

0:5:13.220 --> 0:5:18.120

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And then we're going to talk about our potential next topic to address as a board.

0:5:19.150 --> 0:5:29.160

86120c6c-8638-4e7c-b634-2557cc4933ed

So before we get there, umm, I didn't hear back from anybody about major edits for the December minutes from our December meeting.

0:5:33.70 --> 0:5:38.960

86120c6c-8638-4e7c-b634-2557cc4933ed

So those are have been put up and then I think you all for your.

0:5:41.250 --> 0:5:53.200

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Participation in reviewing and editing and kind of keeping all of us on point for our two reports that we kind of get up got out by the end of the year.

0:5:53.210 --> 0:6:1.620

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So one was a report of our recommendations that the AIB gave to the Agency of AGS.

0:6:1.630 --> 0:6:8.180

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So that was a summary of all of our hard work basically for the last year and half of learning about Munich because Munich you seeds.

0:6:8.490 --> 0:6:11.590

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So those recommendations you guys read through them, edited them.

0:6:11.600 --> 0:6:16.550

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And so that report was sent to Anthony Davis.

0:6:16.560 --> 0:6:19.940

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Their secretary of Act and Allison Eastman.

0:6:19.950 --> 0:6:26.210

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And then that report also was used as umm to inform.

0:6:28.450 --> 0:6:39.610

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The House and Senate Committees of Agriculture about recommendations that the IV made and the second report is our annual report, that too, in the middle of January.

0:6:39.620 --> 0:6:58.90

86120c6c-8638-4e7c-b634-2557cc4933ed

So just a few weeks ago and you guys saw that and reviewed that and it basically was the majority of that report was our recommendations on the seeds and also is a little snippet in there of the survey that if anyone remembers we did at the beginning of the 2023.

0:6:58.520 --> 0:7:1.230

86120c6c-8638-4e7c-b634-2557cc4933ed

So that was also in that in report.

0:7:1.240 --> 0:7:8.390

86120c6c-8638-4e7c-b634-2557cc4933ed

So both of those reports are on our website and on our SharePoint site Slash Team site.

0:7:10.710 --> 0:7:22.740

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As like final PDF, so that's what was submitted Morgan and and just so you know, we also were asked to present that information to the Senate Act committee, which we did.

0:7:23.990 --> 0:7:25.40

86120c6c-8638-4e7c-b634-2557cc4933ed

Don't eyes actually.

0:7:25.50 --> 0:7:26.680

86120c6c-8638-4e7c-b634-2557cc4933ed

Yes, we didn't get through it the first time.

0:7:26.690 --> 0:7:30.360

86120c6c-8638-4e7c-b634-2557cc4933ed

So they gave us, come back and then we have another one scheduled for this Friday.

0:7:31.300 --> 0:7:34.130

86120c6c-8638-4e7c-b634-2557cc4933ed

The House activity present those recognitions.

0:7:38.80 --> 0:7:38.630

86120c6c-8638-4e7c-b634-2557cc4933ed

Yep.

0:7:39.140 --> 0:7:49.30

86120c6c-8638-4e7c-b634-2557cc4933ed

So I think we can head right into gene cause in four months on update on the New York bill.

0:7:52.990 --> 0:7:55.200

86120c6c-8638-4e7c-b634-2557cc4933ed

Gene, you sent us your presentation button.

0:7:56.20 --> 0:7:59.620

86120c6c-8638-4e7c-b634-2557cc4933ed

Would you like to share it on your own or do you want us to share it?

0:8:0.410 --> 0:8:1.460

Gene Harrington

Ohh I I could share it.

0:8:2.80 --> 0:8:2.400

86120c6c-8638-4e7c-b634-2557cc4933ed

OK.

0:8:1.470 --> 0:8:2.620

Gene Harrington

I just wanted to make sure you had it.

0:8:2.630 --> 0:8:4.520

Gene Harrington

For the record, I I wasn't.

0:8:4.270 --> 0:8:4.690

86120c6c-8638-4e7c-b634-2557cc4933ed

Perfect.

0:8:4.530 --> 0:8:6.920

Gene Harrington

I couldn't remember if I had sent it or or not.

0:8:7.540 --> 0:8:7.920

86120c6c-8638-4e7c-b634-2557cc4933ed

Thank you.

0:8:7.70 --> 0:8:12.850

Gene Harrington

So you know, I I know you wanted for the record, so I just wanted to make sure you had it.

0:8:15.850 --> 0:8:16.310

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Great.

0:8:16.830 --> 0:8:17.970

86120c6c-8638-4e7c-b634-2557cc4933ed

Yep, you can share.

0:8:16.790 --> 0:8:18.510

Gene Harrington

But yeah, let me go ahead and get it up here.

0:8:30.660 --> 0:8:31.10

Gene Harrington

Here we go.

0:8:33.950 --> 0:8:34.400

Gene Harrington

There you go.

0:8:34.410 --> 0:8:34.890

Gene Harrington

Can you see that?

0:8:36.760 --> 0:8:37.500

86120c6c-8638-4e7c-b634-2557cc4933ed

Yes, yes.

0:8:37.850 --> 0:8:38.770

Gene Harrington

So awesome.

0:8:39.710 --> 0:8:42.890

Gene Harrington

Alright, let me put it in slide show for.

0:8:46.50 --> 0:8:47.200

Gene Harrington

OK, super alright.

0:8:47.210 --> 0:8:48.500

Gene Harrington

Well, let me go ahead and get started.

0:8:48.750 --> 0:8:51.780

Gene Harrington

So first of all, thanks so much for the opportunity to present.

0:8:53.260 --> 0:8:53.420

86120c6c-8638-4e7c-b634-2557cc4933ed

OK.

0:8:51.790 --> 0:9:7.900

Gene Harrington

Again, happy 2024, this is really just an update from the May presentation I gave that was pretty far reaching and covered all of the States and all the activities that they've done over time.

0:9:9.250 --> 0:9:19.650

Gene Harrington

You know, related to neonics in general, but really specific to neuronic treated seed at the time New York's birds and the Bees Act was still pending.

0:9:21.190 --> 0:9:28.570

Gene Harrington

So there there wasn't a a final report to give on on that legislation as it was moving through the legislative process.

0:9:30.750 --> 0:9:58.320

Gene Harrington

It would have essentially banned the use of corn, soy and wheat seed treated with neonicotinoid insecticide and would have imposed that ban on January 1st, 2027, so the legislation was passed in I think early June, but it was not sent to the Governor's office for her consideration until December.

0:9:58.640 --> 0:10:0.890

Gene Harrington

And New York has a a strange system.

0:10:1.220 --> 0:10:22.510

Gene Harrington

Uh by which bills are are not formally taken up by the governor until they're transmitted to the governor from the legislature, and they have this very arcane, anachronistic process by which they transmit bills to the governor's it's a very strange system.

0:10:22.520 --> 0:10:28.730

Gene Harrington

So even even though the bill was passed in June, it was not acted on until December.

0:10:29.450 --> 0:10:38.700

Gene Harrington

And to be specific, the the governor acted on the bill on December 22nd, 2023, just just a few days before Christmas.

0:10:39.710 --> 0:10:51.20

Gene Harrington

But she just didn't didn't sign it under New York's constitution, governors have the authority to essentially make changes to bills that they sign into law.

0:10:52.300 --> 0:11:11.910

Gene Harrington

They can put forward what's known as chapter amendments, which is essentially something they they negotiate with members of the legislature and other interest groups to to improve bill, they think may have some shortcomings, and that's what the governor did.

0:11:12.0 --> 0:11:16.990

Gene Harrington

So she signed the the bill and into law, but with a chapter amendments.

0:11:18.450 --> 0:11:26.760

Gene Harrington

And I think as as you'll see, when I kind of explain the chapter amendments, the the bill had a pretty broad support.

0:11:27.130 --> 0:11:44.330

Gene Harrington

In fact, according to the governor's press release that she released to to announce the bill signing, you know, representatives from environmental groups, agricultural groups, organic groups, you know, all expressed support for the legislation.

0:11:46.630 --> 0:11:53.120

Gene Harrington

And the governor also had a a message that accompanied her action.

0:11:53.990 --> 0:12:19.280

Gene Harrington

You know, indicating you know why she signed the bill, but also explaining some of the

changes that that she made and really the the key change that she made was to to substitute a waiver process for provision that was in the bill that that essentially would have allowed the department to suspend the band.

0:12:19.590 --> 0:12:23.480

Gene Harrington

So instead, there's an ongoing waiver process.

0:12:24.270 --> 0:12:43.220

Gene Harrington

Instead of this possibility of deferring or suspending the program so the waiver process was extremely important to the governor in in many ways it's it's really kind of the core part of the the legislation now.

0:12:44.410 --> 0:12:54.810

Gene Harrington

So just to walk through what the chapter amendments the the governor proposed due and I'll get to that in a SEC.

0:12:54.820 --> 0:13:15.130

Gene Harrington

But I think it's important to explain that these Charter amendments actually still have to go through the legislative process, so the chapter amendments have actually been introduced now in bill form and the legislature, and they're expected to go through the legislature and and be passed by the legislature in the next four to six weeks.

0:13:16.40 --> 0:13:44.200

Gene Harrington

So specifically, what what the governor and legislature legislature negotiated as far as the chapter amendments is beginning on January 1st, 2029, it's gonna be unlawful to use a corn, soy or wheat seeds treated with Neo Nick, Nick, Antoine, insecticides, unless the farmer is issued a waiver by the Department of Environmental Conservation.

0:13:45.130 --> 0:14:4.220

Gene Harrington

So as I said earlier that you know the the key change that the governor made and her chapter amendments was substituting the agency's ability to suspend the ban with an ongoing waiver process that she felt, you know, provides more individualized and targeted to combination for the states farming needs.

0:14:4.690 --> 0:14:23.700

Gene Harrington

So under the Charter amendments, DC's expressly authorized to issue a waiver to allow for farmers to continue to use corn, soy or wheat seed treated with neonicotinoid insecticides.

0:14:25.690 --> 0:14:56.880

Gene Harrington

And to kind of flush out the specifics of the the waiver program, as far as you know, when people have to apply and all that stuff, DC was directed to promulgate regulations in conjunction with the State Department of Agriculture and Markets to to implement that waiver process and make sure that everybody understands the timelines and the specifics of, you know, when they need to apply for, for the waiver.

0:15:8.490 --> 0:15:9.20

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Ohh.

0:15:12.670 --> 0:15:13.10

86120c6c-8638-4e7c-b634-2557cc4933ed

Ah.

0:15:14.910 --> 0:15:15.150

86120c6c-8638-4e7c-b634-2557cc4933ed

What?

0:15:17.880 --> 0:15:18.920

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Well, like I was back.

0:15:21.270 --> 0:15:37.780

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While these reconnect as one to one of the things that Gene said, he said that the bill would prohibit the use of the seed and actually the the bill doesn't prohibit the use of, say, to prohibits the distribution for you.

0:15:38.370 --> 0:15:45.10

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So the the regulatory authority is actually for the dealers, not for the farmers.

0:15:45.510 --> 0:15:49.490

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And that's something that's, you know, kind of subtle, but it is.

0:15:49.560 --> 0:15:55.250

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It's what the way the bill is written, and I've talked to our colleagues over in New York about this.

0:15:55.260 --> 0:15:59.660

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The folks are gonna actually have to write the rule, and that's the way they're looking at it.

0:16:0.360 --> 0:16:3.720

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So the waiver would have to be applied for by the dealer.

0:16:3.980 --> 0:16:10.830

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Now the waivers applied for it by the farmer, but you'd have to provide the waiver to the dealer before you can buy the seat.

0:16:11.20 --> 0:16:13.890

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In other words, if you wanted to use any of the noise seeds.

0:16:14.960 --> 0:16:19.150

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Before they could sell it to you, you have to document the waiver.

0:16:19.660 --> 0:16:26.630

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So, but they said they're gonna be developing rules for that over the next five years, because if I'm going to take the 2029.

0:16:27.400 --> 0:16:29.470

86120c6c-8638-4e7c-b634-2557cc4933ed

So I have a question about that.

0:16:29.520 --> 0:16:34.240

86120c6c-8638-4e7c-b634-2557cc4933ed

So if I were a farmer and I were buying seeds out of state, right, how does that work?

0:16:35.580 --> 0:16:40.170

86120c6c-8638-4e7c-b634-2557cc4933ed

Well, it's interesting because what it says is a lawful for person to distribute it.

0:16:40.180 --> 0:16:44.260

86120c6c-8638-4e7c-b634-2557cc4933ed

So whether New York could go after somebody that I don't know, you don't know.

0:16:46.400 --> 0:16:50.570

86120c6c-8638-4e7c-b634-2557cc4933ed

I don't think it's something you'd wanna necessarily fool around with.

0:16:50.640 --> 0:16:51.190

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah, yeah.

0:16:51.200 --> 0:16:53.710

86120c6c-8638-4e7c-b634-2557cc4933ed

But it's not the buyer, but it's not the farmer.

0:16:54.140 --> 0:17:6.940

86120c6c-8638-4e7c-b634-2557cc4933ed

No, but I mean it's so if you were a seed company selling seed to someone in New York and it was not allowed to be sold even though you resided in wherever.

0:17:7.320 --> 0:17:9.500

86120c6c-8638-4e7c-b634-2557cc4933ed

You know, I don't know if it's still be unlawful.

0:17:9.510 --> 0:17:11.300

86120c6c-8638-4e7c-b634-2557cc4933ed

They could still do something or whatever.

0:17:11.690 --> 0:17:14.390

86120c6c-8638-4e7c-b634-2557cc4933ed

You could still buy seeds in another state, right?

0:17:14.400 --> 0:17:23.870

86120c6c-8638-4e7c-b634-2557cc4933ed

But the seed dealer that state could potentially be breaking New York law by selling it to you so that what's that?

0:17:23.910 --> 0:17:24.860

86120c6c-8638-4e7c-b634-2557cc4933ed

You know, how does that work?

0:17:24.930 --> 0:17:29.690

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah, you know, I mean, New York has a lot of lot of layers, so.

0:17:31.810 --> 0:17:33.260

86120c6c-8638-4e7c-b634-2557cc4933ed

You don't wanna mess with her or not.

0:17:33.410 --> 0:17:35.200

86120c6c-8638-4e7c-b634-2557cc4933ed

Plus, it's just as a practical matter.

0:17:35.250 --> 0:17:39.620

86120c6c-8638-4e7c-b634-2557cc4933ed

You know the, you know, getting seed from out of state could be cumbersome and expensive.

0:17:41.370 --> 0:17:41.730

86120c6c-8638-4e7c-b634-2557cc4933ed

All that.

0:17:43.940 --> 0:17:49.350

86120c6c-8638-4e7c-b634-2557cc4933ed

So anyway, I just wanted to point out that distinction in the the way the law was written.

0:17:51.900 --> 0:17:56.480

86120c6c-8638-4e7c-b634-2557cc4933ed

So yes, try to text gene and see.

0:17:56.490 --> 0:17:56.590

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah.

0:17:57.80 --> 0:17:58.130

86120c6c-8638-4e7c-b634-2557cc4933ed

Number of anything, no.

0:18:0.180 --> 0:18:1.280

86120c6c-8638-4e7c-b634-2557cc4933ed

Take something real quick.

0:18:3.340 --> 0:18:7.670

86120c6c-8638-4e7c-b634-2557cc4933ed

Does everybody any of the board members have any questions or comments or anything?

0:18:14.920 --> 0:18:16.910

86120c6c-8638-4e7c-b634-2557cc4933ed

Seems like it's going to be convoluted.

0:18:19.200 --> 0:18:19.580

86120c6c-8638-4e7c-b634-2557cc4933ed

Umm.

0:18:21.210 --> 0:18:22.810

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah, that's commentation sounds.

0:18:23.70 --> 0:18:23.250

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah.

0:18:24.360 --> 0:18:26.170

86120c6c-8638-4e7c-b634-2557cc4933ed

Well, yeah, yeah, the.

0:18:28.810 --> 0:18:34.800

86120c6c-8638-4e7c-b634-2557cc4933ed

So the in New York, the Department of Oral Conservation, is the state pesticide agency.

0:18:34.850 --> 0:18:35.180

86120c6c-8638-4e7c-b634-2557cc4933ed

OK.

0:18:35.190 --> 0:18:36.480

86120c6c-8638-4e7c-b634-2557cc4933ed

Just like we are in Vermont.

0:18:36.530 --> 0:18:44.780

86120c6c-8638-4e7c-b634-2557cc4933ed

So there are the appropriate ones to write the the rule rules relative to implementation of this and there.

0:18:46.30 --> 0:18:50.0

86120c6c-8638-4e7c-b634-2557cc4933ed

Umm, you know, they're waiting for the bill to had passed.

0:18:50.10 --> 0:18:55.140

86120c6c-8638-4e7c-b634-2557cc4933ed

They, like you said, it has to be adopted, but once it's adopted, then we'll start the process and it'll.

0:18:57.560 --> 0:19:4.870

86120c6c-8638-4e7c-b634-2557cc4933ed

I'm sure involve a lot of conversations with Cornell because they're doing all the research on the seed and the pest control and everything.

0:19:4.880 --> 0:19:9.790

86120c6c-8638-4e7c-b634-2557cc4933ed

So they'll be a lot of conversations about that with those folks out.

0:19:9.800 --> 0:19:12.510

86120c6c-8638-4e7c-b634-2557cc4933ed

I know Heather's been talking to them, too.

0:19:12.840 --> 0:19:14.210

86120c6c-8638-4e7c-b634-2557cc4933ed

The Cornell folks, they were.

0:19:14.320 --> 0:19:23.840

86120c6c-8638-4e7c-b634-2557cc4933ed

Several of them were on the webinar that she put together, you know, good part of the present President, people who made presentations were from Cornell, so.

0:19:27.110 --> 0:19:27.710

Gene Harrington

Sorry about that.

0:19:27.230 --> 0:19:27.810

86120c6c-8638-4e7c-b634-2557cc4933ed

OK, well.

0:19:27.720 --> 0:19:28.400

Gene Harrington

And we're gonna.

0:19:28.460 --> 0:19:29.690

Gene Harrington

I'm not sure where it fell off.

0:19:32.660 --> 0:19:37.190

86120c6c-8638-4e7c-b634-2557cc4933ed

I well, he filled in for a little bit.

0:19:37.420 --> 0:19:41.230

86120c6c-8638-4e7c-b634-2557cc4933ed

Ah, you. If you pull up your presentation.

0:19:41.300 --> 0:19:42.160

86120c6c-8638-4e7c-b634-2557cc4933ed

Think you were just.

0:19:45.950 --> 0:19:46.240

86120c6c-8638-4e7c-b634-2557cc4933ed

Hey.

0:19:47.490 --> 0:19:47.710

Gene Harrington

Yeah.

0:19:46.250 --> 0:19:56.70

86120c6c-8638-4e7c-b634-2557cc4933ed

Hey, Jean, one thing I point out while you were trying to reconnect is that the New York bill doesn't actually prohibit the use of the seed.

0:19:56.440 --> 0:20:5.740

86120c6c-8638-4e7c-b634-2557cc4933ed

It prohibits the distribution for you use, so the and I've talked to the folks over at the arc about this too, and it seems like it's.

0:20:7.770 --> 0:20:12.70

86120c6c-8638-4e7c-b634-2557cc4933ed

Any regulatory authority be directed against the seed distributors, not the farmer.

0:20:13.860 --> 0:20:19.730

Gene Harrington

Yeah, I I think there's some issues that that definitely have to be sorted out in the regulatory process.

0:20:31.790 --> 0:20:32.110

86120c6c-8638-4e7c-b634-2557cc4933ed

Umm.

0:20:45.170 --> 0:20:45.490

86120c6c-8638-4e7c-b634-2557cc4933ed

Umm.

0:20:19.740 --> 0:20:55.580

Gene Harrington

The administrative process, umm, you know the language is is certainly, you know a little bit confusing especially when you look at the waiver process compared to the prohibition language and you know and that's why the regulatory or the regulations are gonna be so key because you know there is a discrepancy between the prohibition language and the the waiver because like you said in in a lot of ways the prohibition language is aimed almost more at the sale and distribution and the waiver language is aimed at the use.

0:20:56.740 --> 0:20:57.50

86120c6c-8638-4e7c-b634-2557cc4933ed

Umm.

0:20:58.180 --> 0:21:4.830

Gene Harrington

So you know that there is gonna be a lot of work over the next, you know, almost five years or so.

0:21:4.840 --> 0:21:15.670

Gene Harrington

I assume they're going to want to get these regulations out earlier as opposed to later, and have them fully functioning, at least by the middle of 2028.

0:21:15.680 --> 0:21:21.140

Gene Harrington

So everybody knows the timetable by which they're operating for the 2029 growing season.

0:21:26.170 --> 0:21:27.560

Gene Harrington

So I don't know where I fell out.

0:21:27.570 --> 0:21:28.20

Gene Harrington

Who did it?

0:21:28.30 --> 0:21:30.50

Gene Harrington

Where where exactly did I did I fall off?

0:21:31.90 --> 0:21:33.540

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah, this exact go back to where you just were.

0:21:35.200 --> 0:21:35.920

Gene Harrington

The next the next one.

0:21:36.430 --> 0:21:40.30

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah, you were talking about the folks who were in the governor's message.

0:21:41.710 --> 0:21:42.10

86120c6c-8638-4e7c-b634-2557cc4933ed

Right.

0:21:41.830 --> 0:21:42.340

Gene Harrington

Oh, wow.

0:21:42.350 --> 0:21:42.480

Gene Harrington

OK.

0:21:42.20 --> 0:21:43.510

86120c6c-8638-4e7c-b634-2557cc4933ed

You haven't talked about this slide yet.

0:21:44.410 --> 0:21:45.20

Gene Harrington

Ohh jeez.

0:21:46.860 --> 0:21:47.740

86120c6c-8638-4e7c-b634-2557cc4933ed

Sorry, you were going.

0:21:45.90 --> 0:21:48.710

Gene Harrington

OK, alright, so I was OK.

0:21:48.720 --> 0:21:48.950

Gene Harrington

Yeah.

0:21:48.960 --> 0:21:49.490

Gene Harrington

Yeah, I was.

0:21:49.560 --> 0:21:49.930

Gene Harrington

I was.

0:21:49.980 --> 0:21:51.270

Gene Harrington

I was on a I was on A roll.

0:21:51.280 --> 0:21:51.850

Gene Harrington

OK.

0:21:51.940 --> 0:21:53.30

Gene Harrington

Well, yeah.

0:21:53.40 --> 0:21:55.580

Gene Harrington

So it was a great talk.

0:21:55.590 --> 0:21:57.120

Gene Harrington

You we really missed something good.

0:21:59.440 --> 0:22:1.20

Gene Harrington

One one of my best but.

0:22:2.350 --> 0:22:16.470

Gene Harrington

At any event, so the the governor also issued a veto message in conjunction with signing the bill and Chapter amendments and and in the the Veto message, she essentially explains, you know, why she signed the bill.

0:22:16.480 --> 0:22:24.660

Gene Harrington

But be also why she made the changes and really the the key change that she made was she substituted.

0:22:25.430 --> 0:22:37.510

Gene Harrington

Uh, the essentially the emergency deferral or suspension process that Department of Environmental Conservation had with an ongoing waiver process.

0:22:37.730 --> 0:22:57.70

Gene Harrington

So instead of the department being able to suspend or defer the program, they're now going to be administering an ongoing waiver process and in many respects, you know the the waiver process is kind of the the key part of of the bill.

0:22:58.580 --> 0:23:16.950

Gene Harrington

So just to to walk through the what the Charter amendments actually do and and it's important to point out too that these Charter amendments actually still have to go through the normal legislative process and we anticipate that's gonna happen sometime between the next four and six months.

0:23:17.820 --> 0:23:21.210

Gene Harrington

But to walk through the chapter amendments they you know specifically.

0:23:23.80 --> 0:23:32.450

Gene Harrington

Make it a law for to to sell or distribute the use of corn, soy or wheat seed treated with neonicotinoid insecticide.

0:23:32.540 --> 0:23:51.70

Gene Harrington

Unless a waiver is issued by the Department of Environmental Conservation, and as Steve and I were saying, there's a little bit of discrepancy between, you know, what the prohibition establishes and kind of, you know, the the waiver process.

0:23:51.310 --> 0:23:58.20

Gene Harrington

I mean, one is aimed specifically at sale and distribution and the other is really aimed at allowing use.

0:23:58.90 --> 0:24:4.10

Gene Harrington

So you know that's gonna have to be worked out in the the regulatory process over time.

0:24:4.590 --> 0:24:9.180

Gene Harrington

Umm, but specifically as I mentioned you know the Charter amendment.

0:24:9.190 --> 0:24:24.870

Gene Harrington

Substitute the agency's ability to suspend the ban with an ongoing waiver process that the governor thought provided for more individualized or targeted accommodation for the farming community.

0:24:26.260 --> 0:24:35.560

Gene Harrington

So DC's gonna be able to to, you know, issue these waivers provided that that farmers do three things.

0:24:36.390 --> 0:24:43.680

Gene Harrington

Umm, so the three things that the farmers will need to do in in order to be eligible for waiver are complete.

0:24:43.870 --> 0:24:52.520

Gene Harrington

I PM training, condescend, conduct a pest risk assessment and put that risk assessment in the form of a report.

0:24:53.170 --> 0:25:9.850

Gene Harrington

Now this is very similar to what Ontario has in place, and I think they model it much after Ontario's law and these waivers are are going to be valid for two years, at which time farmers will have to reapply for for the waiver.

0:25:10.560 --> 0:25:24.930

Gene Harrington

But chapter amendments also directs DC and the Department of Agriculture and Markets and Consultation with Cornell to conduct a study looking at, you know, practicable and feasible alternatives to neonics.

0:25:25.360 --> 0:25:32.80

Gene Harrington

And they'll need to submit the findings of that study to the legislature by January 1st, 2026.

0:25:33.810 --> 0:25:46.840

Gene Harrington

And then as I said and and you know this, this is important because this is gonna continue to play out these chapter amendments, which are are now in the form of legislation, do have to go through the normal legislative process.

0:25:47.430 --> 0:25:56.380

Gene Harrington

But since this is a deal that's already been cut by the legislature and the governor, that's anticipated to happen over the next four to six weeks.

0:25:57.90 --> 0:26:3.880

Gene Harrington

Now I didn't put this in the slides because I wanted to focus mostly on the treated sea part of this law.

0:26:4.450 --> 0:26:15.90

Gene Harrington

But there are provisions in the law related to non agricultural use, specifically ornamental and turf, and they would those provisions would phase in.

0:26:17.640 --> 0:26:30.110

Gene Harrington

Prohibitions on the use of merriment on turf use of of neonics for some neonics at the end of 2024, and for other neonics at the end of 2026.

0:26:30.890 --> 0:26:49.760

Gene Harrington

And there is an emergency waiver process that DC would have the authority to use in administering that ban in in case some emergency rose and in which, you know, neonics were were necessary.

0:26:50.90 --> 0:26:52.200

Gene Harrington

They do have that authority as as well.

0:26:52.710 --> 0:26:58.960

Gene Harrington

I I didn't list it in the presentation because I I wanted to focus mostly on the treated seed part of the law.

0:27:4.840 --> 0:27:11.860

Gene Harrington

So that was pretty much all all I had prepared, you know, certainly happy to answer any questions that folks might have.

0:27:14.390 --> 0:27:15.630

86120c6c-8638-4e7c-b634-2557cc4933ed

I do have a question.

0:27:15.640 --> 0:27:24.800

86120c6c-8638-4e7c-b634-2557cc4933ed

Do you, Mrs Morgan and I was wondering if it's defined what the pest risk assessment is or needs to contain.

0:27:26.340 --> 0:27:27.280

Gene Harrington

No, it doesn't.

0:27:27.290 --> 0:27:31.360

Gene Harrington

And that that's something that will have to be fleshed out and and the regulations.

0:27:33.100 --> 0:27:33.380

86120c6c-8638-4e7c-b634-2557cc4933ed

OK.

0:27:37.440 --> 0:27:37.620

Gene Harrington

Yep.

0:27:35.730 --> 0:27:48.590

86120c6c-8638-4e7c-b634-2557cc4933ed

Hey Gene, have have you heard of any other states adopting or introducing similar legislation?

0:27:50.860 --> 0:27:51.0

86120c6c-8638-4e7c-b634-2557cc4933ed

As.

0:27:50.180 --> 0:27:53.810

Gene Harrington

Not yet, but I I think that's only because, well, Vermont, I guess.

0:27:53.820 --> 0:27:54.440

Gene Harrington

But but.

0:27:54.520 --> 0:27:54.720

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah.

0:27:56.830 --> 0:28:0.960

Gene Harrington

Not, I should say, not yet because, but only because it's so early.

0:28:1.90 --> 0:28:3.120

Gene Harrington

Some some sessions haven't gotten started.

0:28:3.490 --> 0:28:12.560

Gene Harrington

You know, I I do anticipate we'll, we'll see similar bills in states, for instance, Connecticut, Minnesota.

0:28:12.630 --> 0:28:14.600

Gene Harrington

But those sessions haven't started yet.

0:28:16.500 --> 0:28:16.650

86120c6c-8638-4e7c-b634-2557cc4933ed

Yep.

0:28:14.610 --> 0:28:29.980

Gene Harrington

So and some of those sessions don't have pre files, so you know the fact that we've only seen Vermont with the you know my you know build model after New York I think only means you know Vermont's legislature started earlier than many others.

0:28:30.250 --> 0:28:39.210

Gene Harrington

I I think we we anticipate seeing at least a handful of of states taking up bills similar to to New York's new law.

0:28:41.400 --> 0:28:41.970

86120c6c-8638-4e7c-b634-2557cc4933ed

OK.

0:28:42.40 --> 0:28:42.340

86120c6c-8638-4e7c-b634-2557cc4933ed

Thank you.

0:28:42.240 --> 0:28:42.890

Gene Harrington

And I can.

0:28:45.90 --> 0:28:45.920

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah, that would be great.

0:28:42.900 --> 0:28:52.630

Gene Harrington

I can keep you posted on, you know, when when we we see those bills, but I I think the bigger factor that we haven't seen them is it's you know January 22nd.

0:28:52.700 --> 0:29:0.550

Gene Harrington

So you know we're only, you know, three weeks in so give give it two months and that list may be be up to a few more states.

0:29:2.530 --> 0:29:2.830

86120c6c-8638-4e7c-b634-2557cc4933ed

OK.

0:29:2.840 --> 0:29:3.170

86120c6c-8638-4e7c-b634-2557cc4933ed

Thank you.

0:29:10.220 --> 0:29:13.270

86120c6c-8638-4e7c-b634-2557cc4933ed

Any other board members, board members 70 questions.

0:29:18.290 --> 0:29:20.260

86120c6c-8638-4e7c-b634-2557cc4933ed

It Morgan, it's not.

0:29:24.240 --> 0:29:24.910

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah, I don't know.

0:29:24.920 --> 0:29:27.390

86120c6c-8638-4e7c-b634-2557cc4933ed

I'm gonna pick on on you. Donathan.

0:29:27.500 --> 0:29:28.270

86120c6c-8638-4e7c-b634-2557cc4933ed

Like what is?

0:29:28.280 --> 0:29:32.230

86120c6c-8638-4e7c-b634-2557cc4933ed

What does your gut reaction to hearing that of our neighbors?

0:29:32.240 --> 0:29:32.590

86120c6c-8638-4e7c-b634-2557cc4933ed

Like what?

0:29:32.600 --> 0:29:36.170

86120c6c-8638-4e7c-b634-2557cc4933ed

Are you till I see the waiver application and what some of those?

0:29:36.180 --> 0:29:50.480

86120c6c-8638-4e7c-b634-2557cc4933ed

I mean those are pretty generic definitions in my mind as to thresholds or you know that to me is conquer the devil in the details as far as what are they going to require for those assessments.

0:29:51.250 --> 0:29:56.330

86120c6c-8638-4e7c-b634-2557cc4933ed

And as it stands, it could be just fine, or it could basically turn into an outright ban.

0:29:57.570 --> 0:29:58.770

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah, I know, OK.

0:30:11.740 --> 0:30:12.20

86120c6c-8638-4e7c-b634-2557cc4933ed

Awesome.

0:30:12.30 --> 0:30:13.450

86120c6c-8638-4e7c-b634-2557cc4933ed

Well, thank you so much, Jean.

0:30:13.460 --> 0:30:21.660

86120c6c-8638-4e7c-b634-2557cc4933ed

And just keep us updated and maybe we'll have you back if we get a few more states introducing similar bills.

0:30:23.470 --> 0:30:23.820

Gene Harrington

Sure.

0:30:23.870 --> 0:30:24.290

Gene Harrington

Absolutely.

0:30:24.300 --> 0:30:26.600

Gene Harrington

Yep, sorry about the Internet snafu.

0:30:26.610 --> 0:30:27.560

Gene Harrington

I don't know what happened.

0:30:27.600 --> 0:30:27.960

Gene Harrington

I was.

0:30:27.970 --> 0:30:32.330

Gene Harrington

I was on A roll and uh didn't realize I wasn't on, so I apologize for that.

0:30:33.180 --> 0:30:33.750

86120c6c-8638-4e7c-b634-2557cc4933ed

Who are you?

0:30:33.760 --> 0:30:37.480

86120c6c-8638-4e7c-b634-2557cc4933ed

Did great so it was better coverage and yes.

0:30:40.170 --> 0:30:44.360

86120c6c-8638-4e7c-b634-2557cc4933ed

So we have some time on our agenda before Heather joins, but I think Heather's not on yet.

0:30:44.370 --> 0:30:44.610

86120c6c-8638-4e7c-b634-2557cc4933ed

Right.

0:30:44.620 --> 0:30:45.100

86120c6c-8638-4e7c-b634-2557cc4933ed

Yep. So.

0:30:47.690 --> 0:30:53.160

86120c6c-8638-4e7c-b634-2557cc4933ed

Maybe you can we talk, can we talk about the Vermont introduce Bill as well?

0:30:53.170 --> 0:30:53.500

86120c6c-8638-4e7c-b634-2557cc4933ed

It's.

0:30:54.30 --> 0:30:54.630

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah, sure.

0:30:54.640 --> 0:30:57.130

86120c6c-8638-4e7c-b634-2557cc4933ed

I mean, there's a bill has been introduced.

0:30:57.140 --> 0:30:59.40

86120c6c-8638-4e7c-b634-2557cc4933ed

Yep, the.

0:31:1.190 --> 0:31:4.590

86120c6c-8638-4e7c-b634-2557cc4933ed

It was the as introduced the bill.

0:31:5.810 --> 0:31:6.160

86120c6c-8638-4e7c-b634-2557cc4933ed

Umm.

0:31:6.450 --> 0:31:10.670

86120c6c-8638-4e7c-b634-2557cc4933ed

Track the original bill that New York was interested was introduced.

0:31:10.680 --> 0:31:16.50

86120c6c-8638-4e7c-b634-2557cc4933ed

You, not the one that's been amended with the governor making those changes.

0:31:17.630 --> 0:31:19.530

86120c6c-8638-4e7c-b634-2557cc4933ed

So the the bill is introduced.

0:31:22.750 --> 0:31:25.930

86120c6c-8638-4e7c-b634-2557cc4933ed

Actually prohibits use as opposed to just sail and use.

0:31:25.940 --> 0:31:30.20

86120c6c-8638-4e7c-b634-2557cc4933ed

It actually doesn't include a provision on use of neonicotinoid treated seeds.

0:31:30.140 --> 0:31:48.660

86120c6c-8638-4e7c-b634-2557cc4933ed

Goes into effect or would go into effect in January 2027, and it established an exemption process where the secretary of Ancient Natural resources actually could issue in an exemption.

0:31:50.550 --> 0:31:52.980

86120c6c-8638-4e7c-b634-2557cc4933ed

To the prohibition of the use of the seed.

0:31:53.30 --> 0:31:54.830

86120c6c-8638-4e7c-b634-2557cc4933ed

If there was a finding that.

0:31:56.990 --> 0:32:0.600

86120c6c-8638-4e7c-b634-2557cc4933ed

The prohibition would cause substantial financial hardship.

0:32:2.910 --> 0:32:14.160

86120c6c-8638-4e7c-b634-2557cc4933ed

And it determination was made that they continue that they use the seed would not result in uh, but I might not have the exact word, but basically detrimental effects on pollinators.

0:32:14.200 --> 0:32:29.910

86120c6c-8638-4e7c-b634-2557cc4933ed

So quite a bit different than the actually very different than the somewhat different than the

original New York bill, because it includes use and also substantially different from the bill that's been amended that now is in front of the New York legislature.

0:32:30.540 --> 0:32:33.490

86120c6c-8638-4e7c-b634-2557cc4933ed

So that that's where we're at on that.

0:32:38.290 --> 0:32:41.960

86120c6c-8638-4e7c-b634-2557cc4933ed

He said that here the DC that does the exemption.

0:32:42.450 --> 0:32:53.680

86120c6c-8638-4e7c-b634-2557cc4933ed

So in New York, it's if the in the New York they all the original bill DC would have granted the exemption and they're the state lead agency.

0:32:53.690 --> 0:33:2.30

86120c6c-8638-4e7c-b634-2557cc4933ed

And in New York, in the Vermont build, the aging natural resources would be the one that granted the exemption.

0:33:2.630 --> 0:33:5.60

86120c6c-8638-4e7c-b634-2557cc4933ed

And resources is not the state.

0:33:6.820 --> 0:33:7.400

86120c6c-8638-4e7c-b634-2557cc4933ed

Not the state.

0:33:7.700 --> 0:33:9.600

86120c6c-8638-4e7c-b634-2557cc4933ed

That's yeah.

0:33:9.610 --> 0:33:10.610

86120c6c-8638-4e7c-b634-2557cc4933ed

So that's a big distinction.

0:33:12.550 --> 0:33:12.770

86120c6c-8638-4e7c-b634-2557cc4933ed

So.

0:33:15.480 --> 0:33:16.110

86120c6c-8638-4e7c-b634-2557cc4933ed

So you know.

0:33:19.60 --> 0:33:26.850

86120c6c-8638-4e7c-b634-2557cc4933ed

I don't know the status of the bill in terms of which committees has been assigned to yet we haven't been asked to testify about that bill yet.

0:33:28.660 --> 0:33:31.480

86120c6c-8638-4e7c-b634-2557cc4933ed

I'm sure we will if it gets assigned to committees.

0:33:32.600 --> 0:33:35.730

86120c6c-8638-4e7c-b634-2557cc4933ed

So that's, you know, that's that's not much more to say about it right now.

0:33:35.740 --> 0:33:37.700

86120c6c-8638-4e7c-b634-2557cc4933ed

It's just it's been introduced.

0:33:38.680 --> 0:33:48.770

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah, with delegated authority, can the other agency have oversight of pesticides like that from EPA perspective?

0:33:50.100 --> 0:33:50.720

86120c6c-8638-4e7c-b634-2557cc4933ed

What's your?

0:33:50.730 --> 0:33:51.250

86120c6c-8638-4e7c-b634-2557cc4933ed

Can do whatever.

0:33:51.260 --> 0:33:52.780

86120c6c-8638-4e7c-b634-2557cc4933ed

Let's let's OK. Alright.

0:33:53.630 --> 0:33:53.940

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah.

0:33:53.950 --> 0:34:13.590

86120c6c-8638-4e7c-b634-2557cc4933ed

So in the bill, they do, you know, propose the amendments to the Vermont statute that would make that would make it possible for them to have so that it's not just secretary of eggs with that jurisdiction, so that if they would, they would otherwise expressed in statute.

0:34:13.700 --> 0:34:15.330

86120c6c-8638-4e7c-b634-2557cc4933ed

So then that's why it's so then.

0:34:15.400 --> 0:34:17.890

86120c6c-8638-4e7c-b634-2557cc4933ed

So they're making those amendments, too within that.

0:34:18.360 --> 0:34:18.630

86120c6c-8638-4e7c-b634-2557cc4933ed

Yep.

0:34:19.150 --> 0:34:19.460

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah.

0:34:19.510 --> 0:34:26.550

86120c6c-8638-4e7c-b634-2557cc4933ed

And and you know, we'll later on on the and we might want to do it now or waiting one of the one of the.

0:34:28.840 --> 0:34:42.100

86120c6c-8638-4e7c-b634-2557cc4933ed

Assignments for the Agricultural Innovation Board is to ohh review and comment on legislation relative to issues that the Agriculture Innovation Board looks at, including the test.

0:34:43.250 --> 0:34:51.430

86120c6c-8638-4e7c-b634-2557cc4933ed

So we I think Morgan already sent to you the three bills that we're aware of and we can talk about that.

0:34:51.440 --> 0:34:52.520

86120c6c-8638-4e7c-b634-2557cc4933ed

And while we're waiting for Heather.

0:34:54.430 --> 0:34:57.300

86120c6c-8638-4e7c-b634-2557cc4933ed

One of them, of course, is this neonicotinoid bill.

0:34:57.410 --> 0:35:12.460

86120c6c-8638-4e7c-b634-2557cc4933ed

There's a bill that addresses P Faust has two big parts, one that addresses the purchase of materials that P files in them by the state, and I guess school boards too can't remember schools.

0:35:12.470 --> 0:35:13.320

86120c6c-8638-4e7c-b634-2557cc4933ed

Municipalities.

0:35:13.330 --> 0:35:13.850

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah.

0:35:14.70 --> 0:35:19.890

86120c6c-8638-4e7c-b634-2557cc4933ed

And then the second part that deals with PFOS and pesticides, which we talked about a little bit more and then the.

0:35:21.540 --> 0:35:29.680

86120c6c-8638-4e7c-b634-2557cc4933ed

The third bill is one that was just introduced last week dealing with umm rodenticides and what it does is it.

0:35:32.880 --> 0:35:35.260

86120c6c-8638-4e7c-b634-2557cc4933ed

Requires the RA agency to.

0:35:37.960 --> 0:35:42.930

86120c6c-8638-4e7c-b634-2557cc4933ed

Register all second generation anticoagulant regicides as restricted.

0:35:42.940 --> 0:35:47.70

86120c6c-8638-4e7c-b634-2557cc4933ed

Use pesticides and then adopt rules regarding their use.

0:35:47.620 --> 0:35:48.920

86120c6c-8638-4e7c-b634-2557cc4933ed

So that's the third bill.

0:35:49.940 --> 0:36:0.20

86120c6c-8638-4e7c-b634-2557cc4933ed

So those are unless somebody has already looked at him and wants to comment on what I was thinking we should do is, you know, make sure everybody is aware of them.

0:36:0.510 --> 0:36:3.270

86120c6c-8638-4e7c-b634-2557cc4933ed

And then the next meeting.

0:36:5.180 --> 0:36:5.590

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah.

0:36:5.640 --> 0:36:10.670

86120c6c-8638-4e7c-b634-2557cc4933ed

Have if board members want to make any comments about any of those bills, we can talk about it.

0:36:10.680 --> 0:36:13.860

86120c6c-8638-4e7c-b634-2557cc4933ed

We can set some time aside on the next agenda.

0:36:16.20 --> 0:36:33.10

86120c6c-8638-4e7c-b634-2557cc4933ed

The talk about him and get, you know, and again using the process we've already adopted, which is you know basically everybody, all the board members get to you know, state their opinion about what those you know those subjects and then we'll you know record those efesos onto the secretary but.

0:36:34.950 --> 0:36:36.40

86120c6c-8638-4e7c-b634-2557cc4933ed

So anyway, that's you know.

0:36:39.230 --> 0:36:40.980

86120c6c-8638-4e7c-b634-2557cc4933ed

And of course it's a dynamic situation.

0:36:42.50 --> 0:36:50.510

86120c6c-8638-4e7c-b634-2557cc4933ed

You know, bills change all the time when they're in the legislature, so we have to sort of keep keep up the up the speed with it.

0:36:51.630 --> 0:36:55.230

86120c6c-8638-4e7c-b634-2557cc4933ed

Zach Schikowski or staff members, he looks at it every single day.

0:36:57.810 --> 0:37:1.170

86120c6c-8638-4e7c-b634-2557cc4933ed

And let us all know what's going on, because there's a lot going on so.

0:37:4.10 --> 0:37:8.790

86120c6c-8638-4e7c-b634-2557cc4933ed

So those are the three pieces of legislation that we're aware of.

0:37:12.680 --> 0:37:19.50

86120c6c-8638-4e7c-b634-2557cc4933ed

So is there any any of the board members have any questions or comments or does anyone want to get on the record?

0:37:20.630 --> 0:37:22.520

86120c6c-8638-4e7c-b634-2557cc4933ed

I was just curious how does it work.

0:37:22.570 --> 0:37:27.640

86120c6c-8638-4e7c-b634-2557cc4933ed

So is this the bill is within the whole legislature, right?

0:37:27.650 --> 0:37:31.850

86120c6c-8638-4e7c-b634-2557cc4933ed

It's not just a well, it's introduced committee.

0:37:31.900 --> 0:37:32.450

86120c6c-8638-4e7c-b634-2557cc4933ed

No, no, no.

0:37:32.460 --> 0:37:46.490

86120c6c-8638-4e7c-b634-2557cc4933ed

So it's introduced and then the and Zach, if I say anything wrong correctly, but it gets assigned to committees by the either the speaker of the House or the President of the Senate.

0:37:47.460 --> 0:37:58.380

86120c6c-8638-4e7c-b634-2557cc4933ed

The committees consider it and then vote to pass it on or not pass it, and once it's passed on, then it goes to the IT may be assigned.

0:37:58.390 --> 0:38:0.40

86120c6c-8638-4e7c-b634-2557cc4933ed

Sometimes it's assigned to several committees.

0:38:0.50 --> 0:38:21.240

86120c6c-8638-4e7c-b634-2557cc4933ed

If it's several different, if it affects more than one thing, and then those votes, then it gets goes to the floor and then it gets passed or not passed, and then it gets if if say, the bills only introduced in one house that it has to cross over to the other house and be considered by them also.

0:38:23.740 --> 0:38:27.0

86120c6c-8638-4e7c-b634-2557cc4933ed

So there's a, you know, whole process that anything you want to add to that?

0:38:28.990 --> 0:38:34.630

Szczukowski, Zach

God, no, I'm just that the the bill is H 706.

0:38:34.930 --> 0:38:35.280

Szczukowski, Zach

That's.

0:38:36.160 --> 0:38:47.690

Szczukowski, Zach

So that's a house bill, and it is currently located in the House Committee on Agriculture, Food Resiliency, resiliency and forestry.

0:38:47.780 --> 0:38:52.940

Szczukowski, Zach

And I can drop a a link to the page in the chat.

0:38:55.20 --> 0:38:58.300

86120c6c-8638-4e7c-b634-2557cc4933ed

That's the neonicotinoid seed, right?

0:38:58.650 --> 0:38:59.190

Szczukowski, Zach

Correct.

0:38:59.200 --> 0:39:3.220

Szczukowski, Zach

Yeah, and accumulating to banning the use of Munich is annoyed person that's size.

0:39:4.30 --> 0:39:4.280

86120c6c-8638-4e7c-b634-2557cc4933ed

Right.

0:39:6.60 --> 0:39:16.210

86120c6c-8638-4e7c-b634-2557cc4933ed

One other thing that I wanted to mention that in that bill is in the like, you know, the bottom amendments that kind of give, you know that like.

0:39:17.770 --> 0:39:22.170

86120c6c-8638-4e7c-b634-2557cc4933ed

Make it so that jurisdiction makes sense between these two, but it also would.

0:39:25.720 --> 0:39:38.910

86120c6c-8638-4e7c-b634-2557cc4933ed

You know make null any rule that was introduced by the agency of AG about best management practices for use of the Unix treated teams.

0:39:38.950 --> 0:39:51.280

86120c6c-8638-4e7c-b634-2557cc4933ed

So that it is in that build to say if this basically this passes, then any rule that you made about best management practices for Munich treated seeds are.

0:39:52.610 --> 0:39:53.690

86120c6c-8638-4e7c-b634-2557cc4933ed

Thank you. Yeah.

0:39:54.20 --> 0:39:55.570

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah, it's preemptive repeal.

0:39:56.200 --> 0:39:57.820

86120c6c-8638-4e7c-b634-2557cc4933ed

Thank you very much.

0:39:57.860 --> 0:39:58.490

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah.

0:39:58.530 --> 0:40:1.760

86120c6c-8638-4e7c-b634-2557cc4933ed

Figure vocabulary words and it was finding to explain that but.

0:40:3.820 --> 0:40:6.870

86120c6c-8638-4e7c-b634-2557cc4933ed

But again, just, you know, give folks a chance to look at those.

0:40:6.880 --> 0:40:8.560

86120c6c-8638-4e7c-b634-2557cc4933ed

I think Morgan sent the bill.

0:40:8.680 --> 0:40:11.740

86120c6c-8638-4e7c-b634-2557cc4933ed

I did send all three with those and links.

0:40:11.800 --> 0:40:20.160

86120c6c-8638-4e7c-b634-2557cc4933ed

So you can see them within like the committee websites, but then also just attached as PDF as they were introduced.

0:40:20.580 --> 0:40:21.0

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah.

0:40:21.40 --> 0:40:25.880

86120c6c-8638-4e7c-b634-2557cc4933ed

So you can look at them and then we'll set aside time on the agenda for the next meeting for people to.

0:40:27.850 --> 0:40:29.920

86120c6c-8638-4e7c-b634-2557cc4933ed

Say what I wanna say about so.

0:40:31.890 --> 0:40:33.500

Roy Beckford

Good question, Steve.

0:40:33.790 --> 0:40:36.530

Roy Beckford

Without delving into this, is there?

0:40:38.320 --> 0:40:40.740

Roy Beckford

Is there a cost associated with this bill?

0:40:40.750 --> 0:40:45.550

Roy Beckford

Those I mean in consider in considering the bill is there cost associations?

0:40:47.550 --> 0:40:47.870

Roy Beckford

That's.

0:40:47.970 --> 0:40:54.480

86120c6c-8638-4e7c-b634-2557cc4933ed

There are no I don't think there are any fiscal impacts sided in the bill.

0:40:54.490 --> 0:41:0.980

86120c6c-8638-4e7c-b634-2557cc4933ed

It doesn't mean they won't be developed as the bill progresses, but I don't think there was a fiscal.

0:41:2.350 --> 0:41:3.970

86120c6c-8638-4e7c-b634-2557cc4933ed

The impact.

0:41:7.40 --> 0:41:24.100

86120c6c-8638-4e7c-b634-2557cc4933ed

For the neonicotinoid bill, now for the the P Foss bill, and actually just so you know, Doctor Pam, Pam Breyer, who's now with us, has spent a good part of her the last several years dealing with the whole issue of P Foss and P, Foss and pesticides.

0:41:24.110 --> 0:41:26.30

86120c6c-8638-4e7c-b634-2557cc4933ed

So we have an expert now.

0:41:27.150 --> 0:41:34.330

86120c6c-8638-4e7c-b634-2557cc4933ed

Uh, in our in our shop, but there would be, depending on how the bill opens up.

0:41:35.680 --> 0:41:49.370

86120c6c-8638-4e7c-b634-2557cc4933ed

One potential is that it would prevent the use of a number of sides which would that have a fiscal impact because those products wouldn't be registered and that would have an impact on our revenue collected.

0:42:7.250 --> 0:42:9.820

86120c6c-8638-4e7c-b634-2557cc4933ed

Well, still waiting on Heather, yeah.

0:42:12.510 --> 0:42:12.900

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah.

0:42:12.910 --> 0:42:14.780

86120c6c-8638-4e7c-b634-2557cc4933ed

No, it's not until 2:15.

0:42:14.790 --> 0:42:16.330

86120c6c-8638-4e7c-b634-2557cc4933ed

So she might not join quite yet.

0:42:16.530 --> 0:42:17.70

86120c6c-8638-4e7c-b634-2557cc4933ed

OK.

0:42:17.910 --> 0:42:19.660

86120c6c-8638-4e7c-b634-2557cc4933ed

Do you wanna talk about other stuff?

0:42:19.730 --> 0:42:20.480

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah, I wanna.

0:42:20.490 --> 0:42:27.20

86120c6c-8638-4e7c-b634-2557cc4933ed

I wanted to bring up one other thing and that is the survey, so.

0:42:28.170 --> 0:42:37.980

86120c6c-8638-4e7c-b634-2557cc4933ed

I I guess it can be interpreted that we have to do this survey annually because it says that we should conduct a survey to reach.

0:42:39.400 --> 0:42:44.710

86120c6c-8638-4e7c-b634-2557cc4933ed

Everybody you know, all the counties in the state to inform.

0:42:44.720 --> 0:42:49.480

86120c6c-8638-4e7c-b634-2557cc4933ed

Any recommendations that are included in our annual report so?

0:42:51.650 --> 0:42:56.740

86120c6c-8638-4e7c-b634-2557cc4933ed

We were successful in reaching all 14 counties in our first survey.

0:42:57.550 --> 0:43:0.60

86120c6c-8638-4e7c-b634-2557cc4933ed

However, we felt that we weren't successful in reaching.

0:43:3.670 --> 0:43:3.990

86120c6c-8638-4e7c-b634-2557cc4933ed

People.

0:43:7.460 --> 0:43:13.400

86120c6c-8638-4e7c-b634-2557cc4933ed

Like, you know, like we weren't reaching conventional theory, really based on the answers that we are receiving.

0:43:13.410 --> 0:43:17.100

86120c6c-8638-4e7c-b634-2557cc4933ed

And so we tried a second time and we only got four more, so I guess.

0:43:19.230 --> 0:43:33.410

86120c6c-8638-4e7c-b634-2557cc4933ed

We can set aside time in our next meeting in February, but of just what types of questions do we want to ask about this time around topics to address?

0:43:33.420 --> 0:43:33.790

86120c6c-8638-4e7c-b634-2557cc4933ed

I don't know.

0:43:35.180 --> 0:43:45.410

86120c6c-8638-4e7c-b634-2557cc4933ed

We should wait to see more of where the legislation ends up before we ask questions and maybe do it later in the year.

0:43:47.790 --> 0:43:50.460

86120c6c-8638-4e7c-b634-2557cc4933ed

Because it seemingly might have a bigger impact.

0:43:50.470 --> 0:43:50.660

86120c6c-8638-4e7c-b634-2557cc4933ed

I'm.

0:43:50.670 --> 0:43:53.710

86120c6c-8638-4e7c-b634-2557cc4933ed

I'm just contain what's going through my mind.

0:43:56.250 --> 0:43:57.710

86120c6c-8638-4e7c-b634-2557cc4933ed

But interested to hear what other people.

0:44:0.60 --> 0:44:2.930

86120c6c-8638-4e7c-b634-2557cc4933ed

Think might be a good idea for our survey this year.

0:44:5.310 --> 0:44:7.930

86120c6c-8638-4e7c-b634-2557cc4933ed

Do we want to keep some questions consistent?

0:44:9.200 --> 0:44:18.170

86120c6c-8638-4e7c-b634-2557cc4933ed

For the purposes of year over year answers of maybe, maybe, maybe some questions changes the landscape changes, but.

0:44:20.30 --> 0:44:23.520

86120c6c-8638-4e7c-b634-2557cc4933ed

It's a landscape hasn't changed on, let's say, plastics and plastics.

0:44:23.530 --> 0:44:25.720

86120c6c-8638-4e7c-b634-2557cc4933ed

So maybe Britain those questions.

0:44:27.850 --> 0:44:28.760

86120c6c-8638-4e7c-b634-2557cc4933ed

Just as an idea.

0:44:28.870 --> 0:44:32.960

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah, for the for the board members, think about a survey, should we do a survey again?

0:44:36.670 --> 0:44:38.600

86120c6c-8638-4e7c-b634-2557cc4933ed

So remind me who this survey goes to.

0:44:39.770 --> 0:44:46.210

86120c6c-8638-4e7c-b634-2557cc4933ed

Ohh one of the we what the legislation says, it's disturbing farmers in each county.

0:44:46.580 --> 0:44:47.670

86120c6c-8638-4e7c-b634-2557cc4933ed

Ohh wow. Yeah.

0:44:47.680 --> 0:44:50.180

86120c6c-8638-4e7c-b634-2557cc4933ed

So are we the little big?

0:44:50.450 --> 0:44:50.940

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah.

0:44:51.570 --> 0:44:57.0

86120c6c-8638-4e7c-b634-2557cc4933ed

And what we did last year was reach out to many organizations we could think of.

0:44:57.50 --> 0:45:11.570

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah, including extensions, an ASK for responses to the survey which we developed, we we have a certain set of survey questions we circulated to the board members board members commented on them and then we submitted the survey.

0:45:11.620 --> 0:45:13.250

86120c6c-8638-4e7c-b634-2557cc4933ed

So that's that's.

0:45:13.250 --> 0:45:17.920

86120c6c-8638-4e7c-b634-2557cc4933ed

The idea I can put this, maybe we could do the same thing again.

0:45:19.270 --> 0:45:27.380

86120c6c-8638-4e7c-b634-2557cc4933ed

Uh, I guess my my thinking is that we go ahead and plan on doing it and start the process of drafting it and circulating.

0:45:27.390 --> 0:45:29.650

86120c6c-8638-4e7c-b634-2557cc4933ed

It's gonna take several meetings to do it.

0:45:30.340 --> 0:45:32.260

86120c6c-8638-4e7c-b634-2557cc4933ed

We can always add questions.

0:45:32.270 --> 0:45:34.290

86120c6c-8638-4e7c-b634-2557cc4933ed

I guess when you sue?

0:45:37.540 --> 0:45:44.900

wsh

I think if we're gonna do a survey now would be a good time to do it, because farmers tend to be less busy in the winter.

0:45:47.770 --> 0:45:48.60

86120c6c-8638-4e7c-b634-2557cc4933ed

Or.

0:45:53.510 --> 0:45:56.170

86120c6c-8638-4e7c-b634-2557cc4933ed

Other other board members? Thoughts.

0:46:4.240 --> 0:46:5.500

86120c6c-8638-4e7c-b634-2557cc4933ed

So we would include.

0:46:4.610 --> 0:46:9.420

Steve Schubart

I guess I don't really see any downside to having a corner feedback.

0:46:12.750 --> 0:46:13.70

86120c6c-8638-4e7c-b634-2557cc4933ed

Sorry.

0:46:13.80 --> 0:46:13.880

86120c6c-8638-4e7c-b634-2557cc4933ed

Sir, can you repeat that?

0:46:15.860 --> 0:46:25.90

Steve Schubart

Sorry if my audio is bad, I don't think there's any downside to having more feedback or opening up communication channels unless I'm missing something.

0:46:26.570 --> 0:46:27.490

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah, yeah.

0:46:35.570 --> 0:46:36.780

86120c6c-8638-4e7c-b634-2557cc4933ed

I just pulled this up.

0:46:36.790 --> 0:46:38.370

86120c6c-8638-4e7c-b634-2557cc4933ed

It does actually specifically say.

0:46:39.900 --> 0:46:40.820

86120c6c-8638-4e7c-b634-2557cc4933ed

OK, make it bigger.

0:46:43.450 --> 0:46:59.580

86120c6c-8638-4e7c-b634-2557cc4933ed

That this number 3 here survey farmers from every county in the state to help better understand how agricultural inputs such as pesticides, synthetic fertilizers and plastics are currently used, as well as currently current challenges farmers face and reducing these inputs.

0:47:1.920 --> 0:47:6.260

86120c6c-8638-4e7c-b634-2557cc4933ed

So it does give a specific kind of things to address, right?

0:47:7.140 --> 0:47:13.260

86120c6c-8638-4e7c-b634-2557cc4933ed

Ohh Roy this do you guys do any kind of routine survey?

0:47:15.610 --> 0:47:16.150

86120c6c-8638-4e7c-b634-2557cc4933ed

Drawer.

0:47:17.630 --> 0:47:31.930

Roy Beckford

Ohh don't know if I can answer to the routine part, but we do several surveys, annual surveys of farmers, depending on what we're what we're searching or what what the extensions working on ohm we also.

0:47:33.960 --> 0:47:47.0

Roy Beckford

Also, the parts of the College of Agriculture send out the annual on several annual surveys, including the Vermonter poll, which does different things.

0:47:48.150 --> 0:47:48.400

86120c6c-8638-4e7c-b634-2557cc4933ed

Hmm.

0:47:48.330 --> 0:47:50.800

Roy Beckford

Umm, but I supposed to answer your question.

0:47:51.450 --> 0:47:55.570

Roy Beckford

Summarily, we do quite a number of polls and surveys.

0:47:55.580 --> 0:47:55.900

86120c6c-8638-4e7c-b634-2557cc4933ed

OK.

0:47:57.260 --> 0:48:2.280

86120c6c-8638-4e7c-b634-2557cc4933ed

Maybe we could kind of figure out a way to collaborate a little bit on that.

0:48:2.810 --> 0:48:6.740

86120c6c-8638-4e7c-b634-2557cc4933ed

We get a we didn't get fantastic response last time we did it.

0:48:6.750 --> 0:48:10.770

86120c6c-8638-4e7c-b634-2557cc4933ed

So let me probably be a little bit smarter about it this time.

0:48:12.230 --> 0:48:12.770

Roy Beckford

Yeah, I'm.

0:48:12.780 --> 0:48:22.380

Roy Beckford

I'm now we're also very careful about how often we do surveys because I know that farmers can get exhausted from repeat.

0:48:22.930 --> 0:48:23.540

Roy Beckford

I'm looking.

0:48:23.580 --> 0:48:27.200

Roy Beckford

I'm looking at Steve because I know I know that, you know, you get 4 surveys.

0:48:27.210 --> 0:48:28.280

Roy Beckford

You go like, Oh my God.

0:48:28.290 --> 0:48:28.960

Roy Beckford

Another one.

0:48:29.320 --> 0:48:38.30

Roy Beckford

So to double them up might be a good thing, but also you know I don't know how many years are on how many we have already done this this winter so far.

0:48:40.60 --> 0:48:41.870

Roy Beckford

But I can do a check and let you know.

0:48:41.880 --> 0:48:46.200

Roy Beckford

Steve, I can follow up with you about who's planning to do any kind of.

0:48:47.940 --> 0:48:50.400

Roy Beckford

Farmer surveys and what on what they're working on.

0:48:51.330 --> 0:48:52.370

86120c6c-8638-4e7c-b634-2557cc4933ed

OK. OK.

0:48:53.410 --> 0:48:54.520

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah, that'd be great. Thanks.

0:49:0.370 --> 0:49:4.670

86120c6c-8638-4e7c-b634-2557cc4933ed

I wonder if they could be done at some of the winter meetings where you've got a captive audience.

0:49:5.20 --> 0:49:6.510

86120c6c-8638-4e7c-b634-2557cc4933ed

You know, Heather has a lot of winter.

0:49:8.840 --> 0:49:11.510

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah, the extra donut.

0:49:11.750 --> 0:49:12.400

86120c6c-8638-4e7c-b634-2557cc4933ed

Thank you so much.

0:49:13.200 --> 0:49:13.400

Roy Beckford

If.

0:49:12.810 --> 0:49:13.740

86120c6c-8638-4e7c-b634-2557cc4933ed

I know, right?

0:49:13.750 --> 0:49:15.500

86120c6c-8638-4e7c-b634-2557cc4933ed

Well, then, yeah.

0:49:16.130 --> 0:49:18.430

86120c6c-8638-4e7c-b634-2557cc4933ed

Then yeah, very.

0:49:18.440 --> 0:49:19.450

86120c6c-8638-4e7c-b634-2557cc4933ed

There's next week.

0:49:19.460 --> 0:49:20.710

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah, that right, right.

0:49:20.720 --> 0:49:23.410

86120c6c-8638-4e7c-b634-2557cc4933ed

And then three fruit or maybe the other ones?

0:49:23.420 --> 0:49:23.880

86120c6c-8638-4e7c-b634-2557cc4933ed

Tree, fruit.

0:49:23.890 --> 0:49:24.440

86120c6c-8638-4e7c-b634-2557cc4933ed

Tree tree.

0:49:24.450 --> 0:49:25.360

86120c6c-8638-4e7c-b634-2557cc4933ed

Fruit library?

0:49:25.370 --> 0:49:31.850

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah, I I just got a \$40.00 for doing a survey for NSF.

0:49:32.530 --> 0:49:36.560

86120c6c-8638-4e7c-b634-2557cc4933ed

I mean like the price of doing a survey has has gone up.

0:49:36.570 --> 0:49:37.730

86120c6c-8638-4e7c-b634-2557cc4933ed

We have no balance, yeah.

0:49:40.450 --> 0:49:43.580

86120c6c-8638-4e7c-b634-2557cc4933ed

But you donut though has to be just a warm feeling, yeah.

0:49:48.800 --> 0:49:50.190

Roy Beckford

Steve, I also know that the.

0:49:48.500 --> 0:49:50.680

86120c6c-8638-4e7c-b634-2557cc4933ed

Maybe one of those live tools during a meeting.

0:49:51.740 --> 0:49:52.120

86120c6c-8638-4e7c-b634-2557cc4933ed

What's that?

0:49:57.40 --> 0:49:57.660

86120c6c-8638-4e7c-b634-2557cc4933ed

Ohh yeah.

0:49:52.90 --> 0:50:8.900

Roy Beckford

Ohh also know that the farmers coalitions have done surveys of their membership in various places and if you can, if you can corner that, I mean we can, we can go far away in in getting data from many of the counties, many other counties outside of Chittenden.

0:50:9.310 --> 0:50:13.480

Roy Beckford

But maybe that's where the some of the focus could be.

0:50:14.680 --> 0:50:16.710

86120c6c-8638-4e7c-b634-2557cc4933ed

OK, good point. Yeah.

0:50:18.540 --> 0:50:18.740

86120c6c-8638-4e7c-b634-2557cc4933ed

OK.

0:50:22.560 --> 0:50:23.860

86120c6c-8638-4e7c-b634-2557cc4933ed

Summit call Heather.

0:50:23.870 --> 0:50:25.240

86120c6c-8638-4e7c-b634-2557cc4933ed

And sure.

0:50:26.490 --> 0:50:28.310

86120c6c-8638-4e7c-b634-2557cc4933ed

Let's say you join the floor.

0:50:28.360 --> 0:50:29.990

86120c6c-8638-4e7c-b634-2557cc4933ed

Maybe I can hop on.

0:50:33.610 --> 0:50:34.80

86120c6c-8638-4e7c-b634-2557cc4933ed

I myself.

0:50:41.970 --> 0:50:51.560

86120c6c-8638-4e7c-b634-2557cc4933ed

Where does OK, so for February then the other thing we want to talk a little bit more about this survey and more structured.

0:50:51.570 --> 0:50:51.910

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah.

0:50:51.920 --> 0:51:6.280

86120c6c-8638-4e7c-b634-2557cc4933ed

So maybe Roy for February or February 26th meeting, if you can have kind of an answer, maybe a bit of if anything's up and coming that we might be able to piggyback on to relieve that amount of surveys coming out from people.

0:51:6.290 --> 0:51:22.330

86120c6c-8638-4e7c-b634-2557cc4933ed

And then umm, I'll put an agenda item just hit so we can maybe get a little bit and we could our direction and maybe what we can do right and we can bring back the questions we asked last time to see if there's anything we wanna add or change or whatever.

0:51:23.810 --> 0:51:24.680

Roy Beckford

Yeah, happy to do that.

0:51:26.530 --> 0:51:28.740

86120c6c-8638-4e7c-b634-2557cc4933ed

OK, cool.

0:51:31.170 --> 0:51:34.180

86120c6c-8638-4e7c-b634-2557cc4933ed

And then the next thing while we're.

0:51:37.340 --> 0:51:38.60

86120c6c-8638-4e7c-b634-2557cc4933ed

Is.

0:51:40.20 --> 0:51:44.980

86120c6c-8638-4e7c-b634-2557cc4933ed

That right now, the last meeting we have scheduled in 2024 right now, February 26th, so.

0:51:47.200 --> 0:51:51.240

86120c6c-8638-4e7c-b634-2557cc4933ed

I mean, I think we're still trying to figure out what's the next kind of big.

0:51:53.20 --> 0:52:7.440

86120c6c-8638-4e7c-b634-2557cc4933ed

Thing is that we tackle or whether it's big or not, and so do we, the ME expect to meet monthly and then get a happy surprise if we don't.

0:52:7.530 --> 0:52:8.590

86120c6c-8638-4e7c-b634-2557cc4933ed

Or so should I.

0:52:9.930 --> 0:52:20.520

86120c6c-8638-4e7c-b634-2557cc4933ed

But on calendars the same you know, fourth Mondays and every month, and then it's just you get an afternoon free if we don't meet.

0:52:20.530 --> 0:52:22.610

86120c6c-8638-4e7c-b634-2557cc4933ed

Is that kind of what I was thinking?

0:52:24.70 --> 0:52:26.440

86120c6c-8638-4e7c-b634-2557cc4933ed

I'm getting nods in the room from the.

0:52:26.450 --> 0:52:28.90

86120c6c-8638-4e7c-b634-2557cc4933ed

How about you guys on the phone is that?

0:52:30.510 --> 0:52:34.20

86120c6c-8638-4e7c-b634-2557cc4933ed

So plan on the same strategy the 4th Monday of every month.

0:52:35.820 --> 0:52:40.880

86120c6c-8638-4e7c-b634-2557cc4933ed

I'll put out the meeting and then depending on what topics we have to discuss.

0:52:43.410 --> 0:52:45.200

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah, we got plenty to talk about.

0:52:45.750 --> 0:52:47.320

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah, I don't see us cancelled.

0:52:47.400 --> 0:52:48.520

86120c6c-8638-4e7c-b634-2557cc4933ed

Meantime, soon.

0:52:49.390 --> 0:52:50.380

86120c6c-8638-4e7c-b634-2557cc4933ed

OK, I'll.

0:52:52.640 --> 0:52:52.900

86120c6c-8638-4e7c-b634-2557cc4933ed

Umm.

0:52:57.250 --> 0:52:57.480

86120c6c-8638-4e7c-b634-2557cc4933ed

Or.

0:53:5.20 --> 0:53:6.730

86120c6c-8638-4e7c-b634-2557cc4933ed

OK, I do on that topic.

0:53:6.740 --> 0:53:31.440

86120c6c-8638-4e7c-b634-2557cc4933ed

So Doctor Owens, unable to join us today, but I do want to say that she had a suggestion input on the agenda is that she said my only input on the agenda is that with the legislative session taking up much time, we may want to start any big projects not want to start any big projects until May so.

0:53:34.940 --> 0:53:37.810

86120c6c-8638-4e7c-b634-2557cc4933ed

I think you know, she's definitely feeling pressure.

0:53:37.820 --> 0:53:44.210

86120c6c-8638-4e7c-b634-2557cc4933ed

I think of, you know, people are moved, pulled in many different directions during this time.

0:53:44.400 --> 0:53:46.830

86120c6c-8638-4e7c-b634-2557cc4933ed

So just wanted to share that.

0:53:46.900 --> 0:53:47.210

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah.

0:53:47.220 --> 0:54:1.340

86120c6c-8638-4e7c-b634-2557cc4933ed

One thing I point out we don't have now that we, you know, provided set of

recommendations to the Secretary, I don't think there's any other time sensitive report other than ever report.

0:54:1.350 --> 0:54:3.730

86120c6c-8638-4e7c-b634-2557cc4933ed

I mean, there's nothing says by such and such a date.

0:54:3.740 --> 0:54:5.320

86120c6c-8638-4e7c-b634-2557cc4933ed

You will do XYZ.

0:54:5.550 --> 0:54:17.620

86120c6c-8638-4e7c-b634-2557cc4933ed

So I mean, there are other topics that the AIB is supposed to look at, you know, age class, there's fertilizer and engineered, you know seeds, etcetera, etcetera, etcetera.

0:54:17.630 --> 0:54:20.80

86120c6c-8638-4e7c-b634-2557cc4933ed

There's nothing that says you have to do it by such and such a thing.

0:54:20.510 --> 0:54:25.690

86120c6c-8638-4e7c-b634-2557cc4933ed

So we do have time to uh, you know, work out things.

0:54:25.700 --> 0:54:28.550

86120c6c-8638-4e7c-b634-2557cc4933ed

And you know, we're not facing a deadline.

0:54:30.300 --> 0:54:36.710

86120c6c-8638-4e7c-b634-2557cc4933ed

Part Linda, I can change legislature could decide to ABS do something else.

0:54:36.720 --> 0:54:38.810

86120c6c-8638-4e7c-b634-2557cc4933ed

But that's what we're at right now.

0:54:38.820 --> 0:54:43.170

86120c6c-8638-4e7c-b634-2557cc4933ed

So anyway, that's just a an observation I guess.

0:54:54.910 --> 0:54:55.190

86120c6c-8638-4e7c-b634-2557cc4933ed

Umm.

0:54:57.570 --> 0:54:58.60

86120c6c-8638-4e7c-b634-2557cc4933ed

Sorry guys.

0:54:58.860 --> 0:55:7.150

86120c6c-8638-4e7c-b634-2557cc4933ed

From the agenda, making the one other thing until part of our recommendations.

0:55:8.740 --> 0:55:16.250

86120c6c-8638-4e7c-b634-2557cc4933ed

Our I'm saying that as an ID number AID recommendations were to continue research, right?

0:55:16.260 --> 0:55:32.920

86120c6c-8638-4e7c-b634-2557cc4933ed

So I'm kind of thinking in terms of, you know, Heather's coming to talk about this past year, research that we she kind of tacked on to her existing projects about monitoring for neuron use and things like that.

0:55:32.930 --> 0:55:46.580

86120c6c-8638-4e7c-b634-2557cc4933ed

And so I think we have a plan as agency to meet with Heather and see what what we can do to make some of those recommendations come to life.

0:55:46.650 --> 0:55:50.140

86120c6c-8638-4e7c-b634-2557cc4933ed

As far as you know, I was like, we need to know more about dust, right?

0:55:50.150 --> 0:56:12.590

86120c6c-8638-4e7c-b634-2557cc4933ed

We heard or the seed coatings are improved since a lot of the stuff research happened and so umm, I think we're hoping to see what what we can do umm to help make those research asks that were in our recommendations come to life.

0:56:14.410 --> 0:56:17.560

86120c6c-8638-4e7c-b634-2557cc4933ed

And so I don't know if if you guys wanna think of that.

0:56:17.570 --> 0:56:21.220

86120c6c-8638-4e7c-b634-2557cc4933ed

So Heather's coming today just to talk about her last her previous year.

0:56:21.290 --> 0:56:22.260

86120c6c-8638-4e7c-b634-2557cc4933ed

You know, coming to an end now.

0:56:23.650 --> 0:56:29.770

86120c6c-8638-4e7c-b634-2557cc4933ed

Research and results pertinent to unitary and seeds, but if there's something.

0:56:31.750 --> 0:56:43.40

86120c6c-8638-4e7c-b634-2557cc4933ed

Another question that you're thinking of or after we've listened to this for a year and you know maybe please ask Heather, you know, come to us and say this really.

0:56:43.50 --> 0:56:44.920

86120c6c-8638-4e7c-b634-2557cc4933ed

You know, maybe we can do this right?

0:56:44.930 --> 0:56:51.400

86120c6c-8638-4e7c-b634-2557cc4933ed

So other things on our recommendations for research were to learn more about the truancy agent.

0:56:51.470 --> 0:56:53.380

86120c6c-8638-4e7c-b634-2557cc4933ed

So the fabricants right and the new.

0:56:55.330 --> 0:56:58.430

86120c6c-8638-4e7c-b634-2557cc4933ed

You know you know other than talking graphite.

0:57:0.250 --> 0:57:0.620

86120c6c-8638-4e7c-b634-2557cc4933ed

And.

0:57:0.720 --> 0:57:5.890

86120c6c-8638-4e7c-b634-2557cc4933ed

And am I missing another research once was like dust fluency.

0:57:7.540 --> 0:57:9.50

86120c6c-8638-4e7c-b634-2557cc4933ed

Ohh, like a Halo effect right?

0:57:9.60 --> 0:57:12.190

86120c6c-8638-4e7c-b634-2557cc4933ed

This Halo effect happen right?

0:57:12.200 --> 0:57:12.890

86120c6c-8638-4e7c-b634-2557cc4933ed

Is it really?

0:57:12.900 --> 0:57:13.270

86120c6c-8638-4e7c-b634-2557cc4933ed

And I don't.

0:57:14.290 --> 0:57:16.630

86120c6c-8638-4e7c-b634-2557cc4933ed

I don't know if we will be able to tackle that.

0:57:18.690 --> 0:57:20.70

86120c6c-8638-4e7c-b634-2557cc4933ed

Have you ever not but?

0:57:22.410 --> 0:57:22.750

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah.

0:57:22.790 --> 0:57:23.290

86120c6c-8638-4e7c-b634-2557cc4933ed

So I guess that.

0:57:25.170 --> 0:57:30.480

86120c6c-8638-4e7c-b634-2557cc4933ed

What I'm thinking in my head in preparation for this is how can we bring some of those recommendations to life?

0:57:32.400 --> 0:57:36.160

86120c6c-8638-4e7c-b634-2557cc4933ed

And I'm sure she's got ideas about what she can do this summer.

0:57:37.800 --> 0:57:42.420

86120c6c-8638-4e7c-b634-2557cc4933ed

Well, that's why we're gonna have a meeting about and talk about what additional research we could support.

0:57:43.410 --> 0:57:55.50

86120c6c-8638-4e7c-b634-2557cc4933ed

So the other topic that was one of the recommendations was, you know, expanding probably your habitat, that was one of the regulations only that hadn't received a lot of attention yet.

0:57:55.560 --> 0:58:2.510

86120c6c-8638-4e7c-b634-2557cc4933ed

But I think that's something that we ought to talk about, ways to do that on the.

0:58:4.520 --> 0:58:7.870

86120c6c-8638-4e7c-b634-2557cc4933ed

As an agenda, you know, see what the options are.

0:58:35.690 --> 0:58:36.370

86120c6c-8638-4e7c-b634-2557cc4933ed

Sorry, I don't know.

0:58:47.960 --> 0:58:48.300

86120c6c-8638-4e7c-b634-2557cc4933ed

Ohh.

0:58:50.120 --> 0:58:54.10

86120c6c-8638-4e7c-b634-2557cc4933ed

One last plug and I think I sent this to Members.

0:58:54.20 --> 0:59:2.370

86120c6c-8638-4e7c-b634-2557cc4933ed

Is that tomorrow morning, Heather is putting on a a panel with Quebec.

0:59:4.280 --> 0:59:5.250

86120c6c-8638-4e7c-b634-2557cc4933ed

Growers.

0:59:5.940 --> 0:59:15.370

86120c6c-8638-4e7c-b634-2557cc4933ed

So I think it's a great opportunity for us to join and listen in on because we all learned about what Quebec has for regulations, for new and treated seeds.

0:59:15.840 --> 0:59:19.180

86120c6c-8638-4e7c-b634-2557cc4933ed

And so I think there's a panel of four growers.

0:59:20.640 --> 0:59:26.560

86120c6c-8638-4e7c-b634-2557cc4933ed

I'm talking about their experiences with those regulations and how they're practices changed.

0:59:29.350 --> 0:59:30.30

86120c6c-8638-4e7c-b634-2557cc4933ed

Based on.

0:59:32.70 --> 0:59:34.240

86120c6c-8638-4e7c-b634-2557cc4933ed

Not having access to new treaties?

0:59:35.100 --> 0:59:36.170

86120c6c-8638-4e7c-b634-2557cc4933ed

Potentially so.

0:59:36.180 --> 0:59:38.950

86120c6c-8638-4e7c-b634-2557cc4933ed

I think that's a great opportunity to hear from that.

0:59:38.960 --> 0:59:41.390

86120c6c-8638-4e7c-b634-2557cc4933ed

We didn't have that opportunity here at AIB in.

0:59:42.730 --> 0:59:43.400

86120c6c-8638-4e7c-b634-2557cc4933ed

So I think so.

0:59:43.410 --> 0:59:49.400

86120c6c-8638-4e7c-b634-2557cc4933ed

I think tomorrow morning it's just let me know if you want me to resend that the information and listen in on that.

0:59:52.980 --> 0:59:54.130

86120c6c-8638-4e7c-b634-2557cc4933ed

We did send that already.

0:59:54.200 --> 0:59:56.610

86120c6c-8638-4e7c-b634-2557cc4933ed

I did, I think.

0:59:56.660 --> 1:0:0.980

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah, I think on Friday, OK, yeah.

1:0:9.0 --> 1:0:17.580

86120c6c-8638-4e7c-b634-2557cc4933ed

I was reading the the BIOS of those growers and it sounds like they might not use insecticides.

1:0:20.190 --> 1:0:21.880

86120c6c-8638-4e7c-b634-2557cc4933ed

In their best management strategy.

1:0:23.820 --> 1:0:25.230

86120c6c-8638-4e7c-b634-2557cc4933ed

So it'd be interesting to hear.

1:0:25.640 --> 1:0:36.750

86120c6c-8638-4e7c-b634-2557cc4933ed

I'm not sure I didn't get the impression from the BIOS that anyone was using the alternative like diamide treated seeds, but that could not and could not have been in the.

1:0:37.810 --> 1:0:38.850

86120c6c-8638-4e7c-b634-2557cc4933ed

I don't like the bio of the.

1:0:39.830 --> 1:0:42.150

86120c6c-8638-4e7c-b634-2557cc4933ed

I mean, it'll be a good session.

1:0:44.10 --> 1:0:45.160

86120c6c-8638-4e7c-b634-2557cc4933ed

I'm sorry. What happened?

1:0:45.170 --> 1:0:45.290

86120c6c-8638-4e7c-b634-2557cc4933ed

This.

1:0:47.240 --> 1:0:47.510

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah.

1:0:47.520 --> 1:1:5.850

86120c6c-8638-4e7c-b634-2557cc4933ed

And then on that train of thought is, so Steve and I testified for the Senate ad committee about the recommendations to the AB had to the ANC and the Senate ad committee was very interested in the alternative dynamites and and.

1:1:8.290 --> 1:1:12.210

86120c6c-8638-4e7c-b634-2557cc4933ed

We're interested to know about that continental.

1:1:14.20 --> 1:1:15.620

86120c6c-8638-4e7c-b634-2557cc4933ed

If regulations were introduced.

1:1:17.260 --> 1:1:26.230

86120c6c-8638-4e7c-b634-2557cc4933ed

Or best management practices were introduced by rule that led to a shift from Munich with people use dynamic as well.

1:1:26.240 --> 1:1:26.990

86120c6c-8638-4e7c-b634-2557cc4933ed

What are diamonds?

1:1:27.0 --> 1:1:32.590

86120c6c-8638-4e7c-b634-2557cc4933ed

We don't know much about Dynamites, so this then add committee was interested in hearing more about that.

1:1:32.600 --> 1:1:49.550

86120c6c-8638-4e7c-b634-2557cc4933ed

So we did present more on that table that Wendy Sue you provided, remember that EPA publication that you provided us and it had a table that was comparing toxic toxicity like endpoints for dynamic and other chemicals too.

1:1:49.560 --> 1:1:56.610

86120c6c-8638-4e7c-b634-2557cc4933ed

But Diamines in Unix were on that table, so we ended up presenting that table as an A.

1:1:56.960 --> 1:2:3.0

86120c6c-8638-4e7c-b634-2557cc4933ed

Kind of preliminary introduction into the toxicity of diamide to the Senate ad committee.

1:2:5.890 --> 1:2:7.660

86120c6c-8638-4e7c-b634-2557cc4933ed

Umm SO11 way is just.

1:2:7.670 --> 1:2:8.150

86120c6c-8638-4e7c-b634-2557cc4933ed

Thank you.

1:2:8.160 --> 1:2:10.80

86120c6c-8638-4e7c-b634-2557cc4933ed

And thank you for finding that that was great.

1:2:10.90 --> 1:2:23.130

86120c6c-8638-4e7c-b634-2557cc4933ed

That led to us having information on hand to answer some of their questions, and it just brought up, you know, more questions about dynamics and they're relatively new and we haven't really looked at it.

1:2:23.140 --> 1:2:28.220

86120c6c-8638-4e7c-b634-2557cc4933ed

So that also can be put on the table for Members to discuss the this.

1:2:28.650 --> 1:2:42.240

86120c6c-8638-4e7c-b634-2557cc4933ed

And also it might think about depending on where you know the the Munich bill goes, whether that's something that we look into as well as aboard need to learn more about the alternative of where we might be going.

1:2:46.90 --> 1:2:46.540

86120c6c-8638-4e7c-b634-2557cc4933ed

Ohm.

1:2:49.480 --> 1:2:53.900

86120c6c-8638-4e7c-b634-2557cc4933ed

The the the next report on seed.

1:2:55.390 --> 1:2:57.90

86120c6c-8638-4e7c-b634-2557cc4933ed

Come out to see when will that be?

1:2:58.100 --> 1:3:6.230

86120c6c-8638-4e7c-b634-2557cc4933ed

Well, they don't have to report until February 15th on both the treated and untreated in GEC report.

1:3:6.240 --> 1:3:18.210

86120c6c-8638-4e7c-b634-2557cc4933ed

I've got 10 early reporters so far, largely 0 to report, but they have until February, so I think March meeting maybe.

1:3:21.200 --> 1:3:21.380

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah.

1:3:36.460 --> 1:3:39.130

86120c6c-8638-4e7c-b634-2557cc4933ed

Alright, I'll work from Doctor.

1:3:39.140 --> 1:3:39.670

86120c6c-8638-4e7c-b634-2557cc4933ed

We got it.

1:3:40.370 --> 1:3:40.680

86120c6c-8638-4e7c-b634-2557cc4933ed

OK.

1:3:40.690 --> 1:3:41.380

86120c6c-8638-4e7c-b634-2557cc4933ed

We'll be on it too.

1:3:41.910 --> 1:3:42.910

86120c6c-8638-4e7c-b634-2557cc4933ed

I have other sorry.

1:3:45.200 --> 1:3:47.20

Heather Darby

That's OK problem.

1:3:49.840 --> 1:3:51.650

86120c6c-8638-4e7c-b634-2557cc4933ed

Thanks for joining us.

1:3:52.250 --> 1:3:52.490

Heather Darby

Yeah.

1:3:55.530 --> 1:4:4.450

86120c6c-8638-4e7c-b634-2557cc4933ed

We've just been chatting for a little bit, so we are ready to hear about how the study went in any.

1:4:7.210 --> 1:4:7.430

Heather Darby

Yeah.

1:4:6.620 --> 1:4:7.830

86120c6c-8638-4e7c-b634-2557cc4933ed

Update and results you have.

1:4:8.490 --> 1:4:8.900

Heather Darby

Yep.

1:4:8.950 --> 1:4:10.270

Heather Darby

OK, great.

1:4:11.290 --> 1:4:14.980

Heather Darby

So you see the slides.

1:4:18.130 --> 1:4:21.490

86120c6c-8638-4e7c-b634-2557cc4933ed

Yes, we can, but your audio just is going a little in and out, but.

1:4:22.640 --> 1:4:24.130

Heather Darby

Hmm, OK.

1:4:23.900 --> 1:4:25.590

86120c6c-8638-4e7c-b634-2557cc4933ed

No, that that sounded fine.

1:4:25.640 --> 1:4:27.240

86120c6c-8638-4e7c-b634-2557cc4933ed

So ohh that's.

1:4:26.470 --> 1:4:31.890

Heather Darby

Yeah, I think I just need to stop moving around because I don't have a headset on.

1:4:31.900 --> 1:4:35.710

Heather Darby

So if I Bob around the microphone on my computer.

1:4:36.920 --> 1:4:37.340

Heather Darby

OK.

1:4:37.530 --> 1:4:39.240

Heather Darby

Uh, yes.

1:4:39.250 --> 1:4:51.60

Heather Darby

So I think the last time we chatted, I had talked about some of the research we were doing in the outreach.

1:4:52.0 --> 1:4:52.370

Heather Darby

Umm.

1:4:52.380 --> 1:5:3.340

Heather Darby

I'm not sure how many of the committee members were able to attend the neonicotinoid webinar series that we held in December.

1:5:4.520 --> 1:5:8.930

Heather Darby

Umm, but we had, you know, I would guess modest.

1:5:8.940 --> 1:5:13.960

Heather Darby

Turn out umm, a lot of great information shared.

1:5:13.970 --> 1:5:18.720

Heather Darby

Those are all recorded and the recordings are posted on our website.

1:5:18.730 --> 1:5:26.180

Heather Darby

So if you didn't get a chance to hear those, I think there's a lot of great information that was shared.

1:5:27.0 --> 1:5:33.680

Heather Darby

We have one final webinar tomorrow that I hope some of you can attend.

1:5:34.30 --> 1:5:50.550

Heather Darby

That's with a group of farmers from Quebec that are talking about their, umm, transition away from neonicotinoids and kind of what's been happening up there in the agricultural landscape.

1:5:50.560 --> 1:6:0.530

Heather Darby

So that's tomorrow from 9:30 to 10:30, and that one has almost 100 people signed up right now.

1:6:1.570 --> 1:6:1.800

86120c6c-8638-4e7c-b634-2557cc4933ed

What?

1:6:0.540 --> 1:6:4.790

Heather Darby

So clearly people are really interested in what's happening.

1:6:6.120 --> 1:6:15.910

Heather Darby

Umm, outside of Vermont and we shared that with the New York folks because they need this information too.

1:6:15.920 --> 1:6:27.460

Heather Darby

So I'm assuming a lot of people are attending from around the region and that seminar or webinars in conjunction with the Vermont B Lab and Sam thou?

1:6:27.970 --> 1:6:28.570

Heather Darby

Umm.

1:6:29.670 --> 1:6:33.280

Heather Darby

They'll be presenting that with that group as well.

1:6:33.840 --> 1:6:34.330

Heather Darby

So.

1:6:35.640 --> 1:6:37.470

Heather Darby

Umm, yeah.

1:6:37.480 --> 1:6:41.840

Heather Darby

So let me talk a little bit about our research results from this year.

1:6:43.30 --> 1:6:51.760

Heather Darby

So far, we're still doing a lot of work to understand some of the results and kind of figure out where we go next.

1:6:52.160 --> 1:7:2.340

Heather Darby

But there were two initiatives, I guess or two kind of research initiatives that we established in 2023.

1:7:2.670 --> 1:7:5.760

Heather Darby

And I'm gonna talk about them separately.

1:7:5.870 --> 1:7:8.530

Heather Darby

They are different, very different.

1:7:8.790 --> 1:7:17.300

Heather Darby

So umm, I'll try to be really clear about that because I think it gets confusing sometimes for folks.

1:7:17.690 --> 1:7:21.660

Heather Darby

But the the first project was at the border.

1:7:21.670 --> 1:7:32.380

Heather Darby

Few research farm in Alburg and that was a replicated study really looking at treated seed.

1:7:32.390 --> 1:7:43.400

Heather Darby

And when I say treated, I mean treated with neonicotinoids versus untreated with neonicotinoids and trying to evaluate crop damage.

1:7:45.740 --> 1:8:13.830

Heather Darby

To the crop and we were growing corn and also looking at any yield depression from using treated or untreated seed monitoring pest lights as well and we wanted to look at that across five different planting dates so that we would try not to miss flights of the seed corn maggot.

1:8:13.840 --> 1:8:17.650

Heather Darby

That was really the primary pest that we were looking at.

1:8:17.660 --> 1:8:30.830

Heather Darby

We also looked at wire worms as well, but seedcorn maggots are kind of the primary pests that we were looking to evaluate prop damage and pest fights in this study.

1:8:31.700 --> 1:8:35.160

Heather Darby

So the different planting dates are listed there.

1:8:35.170 --> 1:8:41.940

Heather Darby

We actually did six planting dates, but there was a lot of issues with the six planting date.

1:8:41.950 --> 1:8:47.680

Heather Darby

So we actually had to abandon that one and the issues were really weather related.

1:8:48.260 --> 1:8:54.30

Heather Darby

We actually had gotten a bunch of rain at that time and it was really difficult to plant.

1:8:54.40 --> 1:9:1.650

Heather Darby

So the stands umm or a bit messed up, so we couldn't use this study or use that planning date.

1:9:1.760 --> 1:9:6.240

Heather Darby

We started as early as we could this year.

1:9:6.250 --> 1:9:19.840

Heather Darby

I hope that we can start early, but we started the first planning date on the 10th of May, which is approximately the time that most farmers would start planning corn silage in Vermont.

1:9:19.950 --> 1:9:32.720

Heather Darby

Now course that really depends on the weather, but that's when when I say we were ready, I meant that the the ground was conducive enough for planting.

1:9:32.910 --> 1:9:39.320

Heather Darby

It was still really cold, but it was dry enough for us to go out with the planter and actually plant corn.

1:9:39.330 --> 1:9:42.950

Heather Darby

So really, we weren't waiting for the soil temperature to warm up.

1:9:42.960 --> 1:9:53.690

Heather Darby

We were just waiting to be able to actually go out on the field with a tractor and a planter and not get stuck or, you know, basically be able to plant.

1:9:54.410 --> 1:9:56.610

Heather Darby

So that was the 10th of May.

1:9:56.670 --> 1:10:2.440

Heather Darby

And then we planted approximately weekly until the 9th of June.

1:10:2.450 --> 1:10:15.710

Heather Darby

And like I said, we tried to get one last planning date in, but we had some weather related

issues and I would say you know, generally in Vermont this is kind of the planning range for corn.

1:10:16.720 --> 1:10:34.800

Heather Darby

You know, there are years when people are still planting into mid June, but that's not advisable and you know there's certainly are times and years where we're planting really early May and you know even at the end of April if conditions are conducive.

1:10:34.990 --> 1:10:38.910

Heather Darby

But generally it's it's really that kind of second week of May.

1:10:38.920 --> 1:10:42.480

Heather Darby

So the you know, end of May very first part of June.

1:10:42.490 --> 1:10:54.620

Heather Darby

So I feel like we did capture the normal kind of planning planning time and this study again was focused on crops and also soil.

1:10:54.630 --> 1:11:1.940

Heather Darby

So we were evaluating neonics in the soil as well.

1:11:8.610 --> 1:11:8.880

Heather Darby

Yep.

1:11:10.620 --> 1:11:11.850

Heather Darby

Umm, alright.

1:11:11.860 --> 1:11:18.700

Heather Darby

So we looked at corn populations of treated and untreated seed.

1:11:19.850 --> 1:11:26.350

Heather Darby

Uh, roughly around the first second leaf stage of corn.

1:11:27.130 --> 1:11:31.200

Heather Darby

So we wanted to make sure we captured umm.

1:11:32.270 --> 1:11:44.180

Heather Darby

Stands or germination relatively early so that we could also dig up seed and still find it and be able to tell why it didn't germinate.

1:11:45.400 --> 1:11:48.470

Heather Darby

So essentially we were looking for any insect damage.

1:11:49.500 --> 1:12:7.920

Heather Darby

Umm, that, you know, might have occurred so you can see that there was no statistical difference between plant populations in treated between treated and untreated seed at any of the planning dates.

1:12:8.900 --> 1:12:17.710

Heather Darby

So we didn't, we didn't see any any statistical difference and you can see for the most part they were very similar.

1:12:18.140 --> 1:12:21.70

Heather Darby

There was actually a slight increase.

1:12:21.120 --> 1:12:32.430

Heather Darby

Again, not significant at the first planning date where we had slightly more seed or corn emergence per acre from untreated seed.

1:12:32.940 --> 1:12:38.470

Heather Darby

And then by the 5th planning day, we had slightly more from the treated seed.

1:12:38.620 --> 1:12:41.0

Heather Darby

But again, no statistical difference.

1:12:41.970 --> 1:12:46.820

Heather Darby

It was cold in May, very cold as people might remember.

1:12:46.830 --> 1:12:51.130

Heather Darby

Remember that frost, and they'll third week of May.

1:12:51.140 --> 1:13:0.970

Heather Darby

So the ground was cold when we planted and I would have expected, you know, the untreated seed to to not germ as well.

1:13:0.980 --> 1:13:3.190

Heather Darby

But it it did, everything came up.

1:13:3.240 --> 1:13:8.750

Heather Darby

It did take quite a long time for any of it to come out of the ground because the ground was so cold.

1:13:9.180 --> 1:13:16.230

Heather Darby

But overall, again, we didn't see any different differences in plant stands between treated and untreated scene.

1:13:17.310 --> 1:13:22.540

Heather Darby

Umm, we did try to find and dig up missing seed.

1:13:22.810 --> 1:13:32.920

Heather Darby

We knew how much seed we put on the ground cause we have a a cone planner where we actually count out every row of seed and put it in a packet.

1:13:33.270 --> 1:13:38.80

Heather Darby

So we know exactly how many seeds are put in the ground.

1:13:39.90 --> 1:13:48.460

Heather Darby

So when that total number had an emerged, we did go back and dig up some seed in the whole trial.

1:13:48.550 --> 1:13:52.700

Heather Darby

You know, I think we found maybe one wire worm.

1:13:54.220 --> 1:13:57.450

Heather Darby

I'm I'm chuckling because we wanted to find something.

1:13:57.460 --> 1:14:3.350

Heather Darby

We kept digging, trying to dig and find, and we'd find seed, but it definitely it hadn't died.

1:14:3.360 --> 1:14:12.380

Heather Darby

From wire worms or seed corn, a lot of it was, you know, looked to be fungal, fungal growth, rotted seed.

1:14:12.850 --> 1:14:17.610

Heather Darby

But there was no no insect damage that we found at this site.

1:14:22.800 --> 1:14:33.580

Heather Darby

OK, so we did put out, treated and untreated seed at different farm sites as well.

1:14:34.300 --> 1:14:34.900

Heather Darby

Umm.

1:14:35.140 --> 1:14:44.170

Heather Darby

Across different parts of Franklin and we did have one site in Addison County as well.

1:14:45.270 --> 1:14:55.920

Heather Darby

We had Rosa of treated 3 rows of treated and three rows of untreated seed on a 5 to 10 acre field.

1:14:55.930 --> 1:15:0.190

Heather Darby

So we went out and we counted plant stands there as well.

1:15:0.200 --> 1:15:4.470

Heather Darby

We had a target population for each location.

1:15:5.610 --> 1:15:7.280

Heather Darby

I'm a member of my team.

1:15:19.960 --> 1:15:20.530

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The.

1:15:7.290 --> 1:15:21.510

Heather Darby

Jeff Sanders actually planted all the trials with RU VM planner that's equipped with plant or seed monitoring technology, so we're able to know how many seeds are going on the ground.

1:15:22.160 --> 1:15:25.440

Heather Darby

You can see we did see some differences here.

1:15:26.780 --> 1:15:40.690

Heather Darby

Umm, but these differences were not related to insect pests, so you can see in Franklin the treated seed actually had a much lower population than the untreated seed.

1:15:41.540 --> 1:15:46.730

Heather Darby

Umm, there was in enosburg up at one of our sites there.

1:15:46.800 --> 1:15:57.760

Heather Darby

The untreated seed was a bit lower than the treated seed, but all the issues that we saw out on these fields were not at all insect pest related.

1:15:58.780 --> 1:16:9.460

Heather Darby

We saw more damage and lost seed and plants from birds actually praying on the seed and at the Franklin site.

1:16:10.560 --> 1:16:23.160

Heather Darby

It was so dry there because it actually was really dry in Vermont in May and June, but it was so dry at that site that the planter.

1:16:25.520 --> 1:16:41.160

Heather Darby

Didn't get the seed placed deep enough and the ground was so hard from it being so dry that there was a lot of uneven germination because of seed depth and poor seed to soil contact.

1:16:46.70 --> 1:16:46.350

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah.

1:16:41.650 --> 1:16:48.950

Heather Darby

But there was no evidence that any of the sites of any insect related seed damage.

1:16:51.410 --> 1:16:51.620

Heather Darby

OK.

1:16:57.140 --> 1:17:3.240

Heather Darby

So we only collected yields corn silage yields at the Alberg site.

1:17:3.330 --> 1:17:14.60

Heather Darby

I we had planned to collect some yields at farm sites depending on the location and the type of harvesting equipment that the farmers had.

1:17:15.420 --> 1:17:31.280

Heather Darby

Umm, but it was probably one of the worst years that most any farm had ever experienced, and the fields that we had planned to harvest were almost a complete loss for some of the farmers because of the weather conditions.

1:17:31.640 --> 1:17:45.70

Heather Darby

So we didn't, we didn't take any harvest from harvest data from those farm fields, but we had really great yields up in alburg despite all the weather.

1:17:46.60 --> 1:18:6.440

Heather Darby

We didn't have any flooding and we have really well drained soils there, so we did umm collect yields and again you can see there was no statistical difference at any of the planning dates between the treated and the untreated seed.

1:18:6.970 --> 1:18:14.480

Heather Darby

So you know, we did see differences in yields by planning date, which we would have expected anyway.

1:18:15.380 --> 1:18:15.980

Heather Darby

Umm.

1:18:16.300 --> 1:18:22.10

Heather Darby

But nothing related to whether the seed was treated or three did.

1:18:22.500 --> 1:18:28.670

Heather Darby

You can see that we're almost identical at most planning dates now.

1:18:28.680 --> 1:18:34.600

Heather Darby

Interestingly, you can see the last planning date which was that June 9th planning date.

1:18:34.850 --> 1:18:37.520

Heather Darby

Umm, we actually got the highest yields.

1:18:38.320 --> 1:18:41.10

Heather Darby

Which is a little bit surprising to me.

1:18:41.60 --> 1:18:50.190

Heather Darby

Normally we would see our highest yields around mid May, but umm, you know the weather weather was cold at that time.

1:18:50.570 --> 1:19:1.890

Heather Darby

So I think you know everything got a bit behind but umm for that fifth planning day you can see that the untreated seed did lag behind a little bit there.

1:19:1.900 --> 1:19:7.140

Heather Darby

There was no statistical significance, but that was kind of the biggest.

1:19:9.800 --> 1:19:37.140

Heather Darby

You know difference that we did see in yields, we went back and analyzed that planning date separately and we still we didn't we pick up a significant difference but you can see it was like 37 tons versus like 33 and you would think you know with that much yield difference that you would pick up some significant but we didn't.

1:19:37.200 --> 1:19:39.960

Heather Darby

So there was, you know, too much variation there.

1:19:48.120 --> 1:19:49.110

Heather Darby

OK, let me get.

1:19:52.570 --> 1:19:57.510

Heather Darby

So we did put out sticky cards and.

1:19:58.840 --> 1:20:3.740

Heather Darby

Trapped corn seed maggot adults.

1:20:3.900 --> 1:20:16.230

Heather Darby

So we trapped the flies on these sticky traps and went out weekly at the Albert site and a few other on farm sites to look at populations.

1:20:18.110 --> 1:20:48.330

Heather Darby

And based on what I've learned in the last several months, we need to put our sticky cards out earlier because the first flight, umm, likely occurred, you know, before early May and that his what folks have seen in Cornell that that first flight can actually be for them.

1:20:50.470 --> 1:20:56.360

Heather Darby

At the end of March very early May, which means for us, it could definitely be.

1:20:58.160 --> 1:20:59.90

Heather Darby

In April?

1:20:59.600 --> 1:21:5.260

Heather Darby

Probably not early April, but I may have missed.

1:21:5.730 --> 1:21:7.140

Heather Darby

Not at the Alberg site.

1:21:10.910 --> 1:21:11.80

Steve Schubart

Yeah.

1:21:7.150 --> 1:21:21.230

Heather Darby

I think I caught the first flight there at in early May, but I think at some of the other sites we may have missed it because we didn't even get our cards out at the other farm sites until mid May.

1:21:22.680 --> 1:21:37.750

Heather Darby

But you can see that in early May the 5th of May, which is right around our first planning date right before our first planning date, we started putting the cards out and we did pick up a high population of seed corn.

1:21:37.760 --> 1:21:47.960

Heather Darby

Maggot flies around that time and these cards were set basically along the field edge where this trial was hosted.

1:21:49.730 --> 1:21:58.250

Heather Darby

Umm, so we did sort of catch that early flight and then you can see that we had a second flight.

1:22:0.640 --> 1:22:9.660

Heather Darby

About a month later, and that corresponded really closely with that fifth planning date.

1:22:10.890 --> 1:22:12.640

Heather Darby

So I know you can't see that.

1:22:12.650 --> 1:22:13.20

Heather Darby

Very good.

1:22:13.30 --> 1:22:15.330

Heather Darby

I see Roy lifting his glasses up.

1:22:16.530 --> 1:22:46.800

Heather Darby

Sorry, that note to self make this the writing bigger, but you know it says 8th of June Roy there or Roy that Red Peak you know down the line and that again was right around the time of that fifth planning date with was the 9th of June and that's when I started wondering if that yield depression was actually related to seed warn maggot.

1:22:48.520 --> 1:22:49.130

Heather Darby

Peak flight.

1:22:49.740 --> 1:23:0.140

Heather Darby

But again, when we went out to to dig up any seed that was missing, we didn't see any presence of seedcorn maggot.

1:23:1.810 --> 1:23:2.50

Steve Schubart

Umm.

1:23:1.790 --> 1:23:15.360

Heather Darby

But, but we didn't dig up any of the plants that lived, which could actually have had, umm, seed corn maggots pressure as well.

1:23:15.370 --> 1:23:18.320

Heather Darby

But we we didn't dig any living plants up.

1:23:18.330 --> 1:23:22.920

Heather Darby

We only searched for those that didn't germinate.

1:23:24.280 --> 1:23:37.900

Heather Darby

So you can see that we did see, you know, we did catch peak a second peak flight likely in Franklin at the Franklin location and it was quite high there and sort of mid June.

1:23:38.480 --> 1:23:39.50

Heather Darby

Umm.

1:23:39.460 --> 1:23:51.430

Heather Darby

Into the third week of June, now, in most cases, people's corn would be planted and up and actively growing.

1:23:51.440 --> 1:23:57.560

Heather Darby

By that time, you know it would be fairly rare.

1:23:57.570 --> 1:24:4.530

Heather Darby

I would say for corn to just be being planted, you know at that at that time.

1:24:6.110 --> 1:24:11.740

Heather Darby

So, you know, this year we're gonna do a better job at getting the cards out.

1:24:11.750 --> 1:24:16.520

Heather Darby

Now that we kind of know the time frame, we also know how to identify the flies.

1:24:16.790 --> 1:24:20.160

Heather Darby

They just, they look like a lot of other flies out there.

1:24:20.170 --> 1:24:21.820

Heather Darby

You know, there's a lot of flies out there.

1:24:22.190 --> 1:24:26.240

Heather Darby

Want everybody to know that they all look like flies.

1:24:27.170 --> 1:24:28.80

Heather Darby

There's big ones.

1:24:28.90 --> 1:24:31.100

Heather Darby

There's little ones, fat ones, skinny ones.

1:24:31.390 --> 1:24:41.530

Heather Darby

But you know when you got thousand of them on a blue card, it takes some time to to learn how to identify them and count them all.

1:24:42.570 --> 1:24:57.320

Heather Darby

So now that I feel like we're trained and you know, ready to to really do a a better job looking for flights, you know, we're gonna do that this year at more locations.

1:24:59.940 --> 1:25:5.710

Heather Darby

But again, I think most of the peak flights that that we would have captured that we didn't.

1:25:5.720 --> 1:25:17.760

Heather Darby

So you can see the one in Albert was early May seem like they would be before and well after when we would normally be planting corn.

1:25:17.770 --> 1:25:24.290

Heather Darby

But again, thyme more time and more information will help us really understand understand that.

1:25:26.810 --> 1:25:27.50

Heather Darby

OK.

1:25:28.460 --> 1:25:28.770

86120c6c-8638-4e7c-b634-2557cc4933ed

The.

1:25:28.90 --> 1:25:37.680

Heather Darby

So I should have fixed this after last time, but I didn't we we did go out and collect some soil.

1:25:38.900 --> 1:25:49.330

Heather Darby

Umm to to look at if the neonics you know are in the soil and if they're staying in the soil now at this location.

1:25:49.340 --> 1:25:59.450

Heather Darby

And Alberg, we chose the location because we haven't had corn really grown there for about a decade.

1:25:59.460 --> 1:26:0.130

Heather Darby

If not more.

1:26:0.650 --> 1:26:0.780

Heather Darby

Yep.

1:26:1.230 --> 1:26:12.880

Heather Darby

And we haven't knowingly planted neonics treated seed in this part of the farm for over a decade.

1:26:14.230 --> 1:26:18.600

Heather Darby

So we thought that it would be kind of clean like a clean site.

1:26:18.950 --> 1:26:24.220

Heather Darby

Now, no, we are conducting research all around this site.

1:26:24.670 --> 1:26:28.290

Heather Darby

We're using all the same planters regardless.

1:26:30.400 --> 1:26:34.440

Heather Darby

And so there, there definitely is potential for contamination.

1:26:35.510 --> 1:26:40.60

Heather Darby

But we went out and we sampled the soil zero to 2 1/2 inches.

1:26:40.70 --> 1:26:53.380

Heather Darby

Or we sampled the soil to 6 inches and then separated it into two fractions that we looked for neonics and one was zero to 2 1/2 inches, and the second was 2 1/2 to 6.

1:26:53.390 --> 1:26:59.420

Heather Darby

And so if you look at the first line, which was just prior to planting.

1:27:1.390 --> 1:27:2.510

Heather Darby

We didn't find any.

1:27:3.560 --> 1:27:17.920

Heather Darby

Neonicotinoids in any of the samples we took in the top 2 1/2 inches of the soil, but we did find neonics in 75% of the samples that we took.

1:27:19.390 --> 1:27:24.310

Heather Darby

In the 2 1/2 to 6 inch depth at 6 parts per billion.

1:27:25.0 --> 1:27:37.660

Heather Darby

So there were neonics present in the field, even though we hadn't planted directly neonet treated seed there for, like I said, definitely over a decade.

1:27:38.570 --> 1:27:46.140

Heather Darby

But after really thinking about this again, we are using all the same planters.

1:27:47.460 --> 1:27:47.920

Heather Darby

Umm.

1:27:48.850 --> 1:27:56.370

Heather Darby

And has anybody ever looked inside a corn planter in The Hoppers or bright pink?

1:27:56.600 --> 1:28:1.140

Heather Darby

You know, so there's certainly fans for.

1:28:2.460 --> 1:28:3.490

Heather Darby

Contamination.

1:28:3.860 --> 1:28:8.520

Heather Darby

We did go back out after planting roughly over a month.

1:28:9.370 --> 1:28:9.860

Heather Darby

Umm.

1:28:9.930 --> 1:28:13.860

Heather Darby

And sampled the soil again at the time of top dress.

1:28:13.870 --> 1:28:18.0

Heather Darby

So that's the time that we would go out and fertilize the corn.

1:28:18.360 --> 1:28:19.360

Heather Darby

So again, we planted.

1:28:22.30 --> 1:28:27.600

Heather Darby

And then went back out and sampled again right before top dress.

1:28:27.830 --> 1:28:39.770

Heather Darby

And you can see that 100% of the samples had neonics in them in the neonet treated plots, so it was higher in the soil.

1:28:41.160 --> 1:28:46.120

Heather Darby

We did take one post like end of the season sample, but I don't.

1:28:46.130 --> 1:28:58.160

Heather Darby

I don't have that data yet, so you know we'll be able to see if the levels decline over time, which I'm assuming they did, especially after all the rain we received.

1:28:58.590 --> 1:29:6.120

Heather Darby

But you know, after over a month post planting, the levels are are still high.

1:29:8.220 --> 1:29:9.60

Heather Darby

In those fields.

1:29:10.510 --> 1:29:10.750

Heather Darby

OK.

1:29:12.290 --> 1:29:16.0

Heather Darby

So we do plan to repeat that study this year.

1:29:16.10 --> 1:29:19.860

Heather Darby

We have a few things and we need to tweak and do better.

1:29:22.300 --> 1:29:28.340

Heather Darby

And you know, we're going to work on that, especially in the monitoring of the flights of the maggots.

1:29:29.120 --> 1:29:29.720

Heather Darby

Umm.

1:29:30.20 --> 1:29:34.210

Heather Darby

And we're also gonna repeat the on farm trials this year.

1:29:34.220 --> 1:29:35.960

Heather Darby

The farmers were very interested.

1:29:38.190 --> 1:29:44.220

Heather Darby

Interested in the data themselves, but with the year that we had it just it didn't work out.

1:29:44.430 --> 1:29:49.910

Heather Darby

I've already secured the seed that we need, so that's great.

1:29:51.650 --> 1:29:52.20

Heather Darby

All right.

1:29:52.30 --> 1:30:1.400

Heather Darby

So the second site is at Discovery Acres, which is an on an on farm site.

1:30:1.610 --> 1:30:26.920

Heather Darby

It's a commercial farm down in Saint Albans Bay where we have some edge of field monitoring and a big water quality project where we're looking at the impact of conservation on nutrient run off and there's four.

1:30:29.40 --> 1:30:43.650

Heather Darby

I guess kind of subwatersheds here that you can see in this photo there's two watersheds or plots that have tile, so they have subsurface drainage.

1:30:44.810 --> 1:30:54.830

Heather Darby

And then we have two that do not have tile and each one of these blocks or plots or, you know, many watersheds.

1:30:55.780 --> 1:31:3.100

Heather Darby

Umm are you know anywhere from 4 to 7 acres in size?

1:31:3.450 --> 1:31:5.620

Heather Darby

So they're not little plots.

1:31:5.630 --> 1:31:13.330

Heather Darby

They're, you know, larger acreages with and without subsurface tile or drainage.

1:31:14.250 --> 1:31:18.850

Heather Darby

And the tile was installed roughly three years ago.

1:31:19.880 --> 1:31:22.650

Heather Darby

It's UM says system tile.

1:31:22.660 --> 1:31:24.530

Heather Darby

There, 25 feet apart.

1:31:24.660 --> 1:31:48.470

Heather Darby

Again, this is heavy clay soil down in the Saint Albans Bay, and each one of these sub watersheds basically has edge of field water collecting system that's helping us look at leaching of nutrients and now also pesticides.

1:31:50.630 --> 1:31:57.110

Heather Darby

You know, leaving the field through the tile or possibly leaving the field through surface runoff.

1:31:57.440 --> 1:32:13.50

Heather Darby

So we're able to collect water, and each one of these sub or many watersheds so that we can evaluate again the impact of conservation on nutrient losses and now sort of pesticide losses.

1:32:14.880 --> 1:32:16.670

Heather Darby

From these different scenarios.

1:32:18.460 --> 1:32:30.760

Heather Darby

So we have started to collect umm, neonicotinoid data, both from the soil here but also from the water that we're collecting.

1:32:31.950 --> 1:32:37.130

Heather Darby

Again, that's coming out of the tile and also coming off from the surface.

1:32:43.580 --> 1:32:44.210

Heather Darby

OK.

1:32:44.800 --> 1:32:45.310

Heather Darby

Did it do?

1:32:50.420 --> 1:32:54.560

Heather Darby

So again, we went out to the site.

1:32:54.570 --> 1:33:0.390

Heather Darby

This is a commercial dairy farm heavy clay.

1:33:0.900 --> 1:33:6.450

Heather Darby

This field has now been in corn silage for its third year.

1:33:6.940 --> 1:33:10.760

Heather Darby

When we tiled it, it was coming out of alfalfa.

1:33:12.50 --> 1:33:29.760

Heather Darby

It was tiled and then we planted corn the year after it was tiled and it's been corn ever since with a cover crop on the corn seed has been treated with neonicotinoids and fungicides during that time period.

1:33:29.770 --> 1:33:45.100

Heather Darby

So we would expect that there would be NEO next in the soil and we went out and sampled the soil again before planting.

1:33:45.550 --> 1:33:59.360

Heather Darby

We took those samples and separated them into two fractions, one that was zero to 2 1/2 inches and then another that was 2 1/2 to 6 inches.

1:33:59.630 --> 1:34:13.150

Heather Darby

So again, this was before planting and you can see that in 87% of those samples we detected neonics at 3.95 parts per billion.

1:34:13.850 --> 1:34:24.140

Heather Darby

And then in that next fraction of soil, 2 1/2 to 6 inches, we also found neonics, but in less than half of the samples.

1:34:24.670 --> 1:34:34.720

Heather Darby

So in this case, we found neonics present in both, you know, the very top portion of the soil and slightly deeper.

1:34:34.950 --> 1:34:40.400

Heather Darby

But the number of samples that we found neonics in had got had gone down.

1:34:40.410 --> 1:34:54.0

Heather Darby

It was below 50% of the we went back out again about a month after planting and sampled the soil again and this time in 94%.

1:34:54.10 --> 1:34:58.570

Heather Darby

So nearly, you know, nearly 100% of the samples we detected neonics.

1:34:59.200 --> 1:34:59.780

Heather Darby

Umm.

1:35:0.100 --> 1:35:3.890

Heather Darby

At 3.72 parts per per billion.

1:35:3.900 --> 1:35:6.270

Heather Darby

So it was actually less, umm.

1:35:6.900 --> 1:35:13.60

Heather Darby

But again, this is a bit deluded because it's umm, the whole fraction, not just part.

1:35:13.450 --> 1:35:16.440

Heather Darby

But anyway, there were neonics present in the soil.

1:35:16.450 --> 1:35:25.90

Heather Darby

A month after planting again we did a final sample at the end of the season, but we don't have that data yet.

1:35:28.130 --> 1:35:28.520

Heather Darby

OK.

1:35:28.530 --> 1:35:32.240

Heather Darby

So we're also looking at what's coming.

1:35:32.250 --> 1:35:34.370

Heather Darby

This is even smaller Roy, and I'm sorry.

1:35:36.0 --> 1:35:40.450

Heather Darby

Because I tried to increase the date size and I just couldn't do it.

1:35:40.910 --> 1:35:42.320

Heather Darby

So I just got on the call.

1:35:42.330 --> 1:35:42.980

Heather Darby

I just couldn't.

1:35:43.20 --> 1:35:47.560

Heather Darby

I don't know what I did, but I tried to make it bigger and they got smaller instead of bigger.

1:35:52.480 --> 1:36:0.100

Heather Darby

We looked at neonics coming out of the tile and off the surface from water.

1:36:0.110 --> 1:36:6.780

Heather Darby

That was again draining out of the tiles and then or coming right off the as surface runoff.

1:36:7.170 --> 1:36:13.520

Heather Darby

And we started, yeah, we we've been collecting water for three years.

1:36:13.870 --> 1:36:19.460

Heather Darby

So you can only collect water coming out of tiles or off the surface when there's water.

1:36:20.900 --> 1:36:21.330

Heather Darby

Right.

1:36:21.540 --> 1:36:22.510

Heather Darby

So you can't you?

1:36:22.520 --> 1:36:36.700

Heather Darby

We don't always get umm, like every time we have a rain event we don't always get water coming out of tiles and we don't always get water.

1:36:37.240 --> 1:36:42.240

Heather Darby

Hopefully coming off the surface of the field, ideally correct.

1:36:42.350 --> 1:36:53.420

Heather Darby

So we're hoping that in most cases when we get rain events, you know the water percolates down through the soil and is able to be used by the plants.

1:36:53.810 --> 1:36:58.10

Heather Darby

And when we have a lot of water, hopefully you know it's draining out of the tiles.

1:36:58.710 --> 1:36:59.350

Heather Darby

Umm.

1:36:59.570 --> 1:37:2.80

Heather Darby

And not kind of running off the surface.

1:37:2.650 --> 1:37:13.690

Heather Darby

So we have had we had a lot of rain this season, but we did not have much rain at all until June.

1:37:15.30 --> 1:37:25.220

Heather Darby

So we don't have any water, we don't have any water samples from tile or surface runoff until until June.

1:37:25.280 --> 1:37:32.100

Heather Darby

And because you can't see that date, that's the 16th of June, the very first blue bar.

1:37:32.480 --> 1:37:41.150

Heather Darby

So that was the first time that we were actually able to get water, collect water coming out of tiles or off of the surface.

1:37:41.160 --> 1:37:44.560

Heather Darby

That was a rain event where we had both, OK.

1:37:45.280 --> 1:37:45.830

Heather Darby

Umm.

1:37:46.440 --> 1:37:56.980

Heather Darby

And you can see that neonics and again this was roughly a month after planting the 16th of June.

1:37:57.930 --> 1:38:16.600

Heather Darby

So you can see that in the tile there were in the tile water there were detectable levels of neonics and also in the surface runoff there were also detectable levels of neonics a month after planting.

1:38:17.750 --> 1:38:44.290

Heather Darby

So the next sample day was the 31st of July and I think you know as everybody knows, we clearly we're getting more rain by that point and we were able to collect water again from the tile in the surface and you can see that the levels of neonics at that point were the highest that we saw all season long.

1:38:44.910 --> 1:38:50.180

Heather Darby

And again, we we didn't have much rain at wall Umm.

1:38:50.510 --> 1:39:1.810

Heather Darby

And so, you know, things I'm sure kind of built up and then there you know, for better or worse with all of that rain moving out of the soil.

1:39:3.450 --> 1:39:9.990

Heather Darby

Now you can see the levels drop off at the end of very.

1:39:10.60 --> 1:39:10.530

Heather Darby

I'm sorry.

1:39:10.540 --> 1:39:10.950

Heather Darby

That's.

1:39:11.500 --> 1:39:12.560

Heather Darby

I can't even see it.

1:39:12.570 --> 1:39:15.690

Heather Darby

That is the 3rd of July, not the 31st.

1:39:16.200 --> 1:39:22.670

Heather Darby

So the 3rd of July they peaked and then declined considerably by the end of July.

1:39:22.680 --> 1:39:33.50

Heather Darby

So the Gray bars the 25th of July, and the next time that we were able to collect really detectable levels, wasn't until October.

1:39:33.600 --> 1:39:40.480

Heather Darby

And again, remember, we have to be able to collect tile, water and surface water.

1:39:40.490 --> 1:39:43.900

Heather Darby

So if we're not getting enough rain, umm.

1:39:46.230 --> 1:39:46.840

Heather Darby

We're not.

1:39:46.850 --> 1:40:7.390

Heather Darby

We can't collect samples, so we did have some collection points to in between those two dates, but we didn't have any detectable levels of neonics and we have collected water and have the samples back through the end of December.

1:40:7.400 --> 1:40:14.480

Heather Darby

And again, at this point, we're not seeing anything coming in above the detectable levels.

1:40:15.380 --> 1:40:26.910

Heather Darby

So, you know, essentially the peak that we saw hit in the beginning of July, the levels declined considerably after that.

1:40:26.920 --> 1:40:32.100

Heather Darby

And now from this point on, we we are seeing anything, Detective.

1:40:34.120 --> 1:40:45.40

Heather Darby

Now, would we have seen higher quantities, you know earlier following planting, if we had more rainfall, if we had more steady?

1:40:46.560 --> 1:40:49.730

Heather Darby

Rainfall and less kind of deluges.

1:40:50.140 --> 1:40:52.610

Heather Darby

Would we not see these same peaks?

1:40:53.60 --> 1:40:54.970

Heather Darby

You know, that's time.

1:40:55.60 --> 1:40:56.50

Heather Darby

Time will tell.

1:40:56.120 --> 1:41:5.580

Heather Darby

I mean when we get surface runoff and we get water coming out of tile, there's been a substantial rain of it.

1:41:6.570 --> 1:41:17.930

Heather Darby

That just doesn't happen when you get nice rainfall, that is, you know, 1/10 of an inch, 1/4 of an inch.

1:41:19.30 --> 1:41:30.180

Heather Darby

We are getting these measurements, you know, either when the ground is very saturated and we get maybe a minimal rainfall or we're getting a significant rain event.

1:41:30.470 --> 1:41:33.810

Heather Darby

So please, you know, you gotta keep that in mind as well.

1:41:34.920 --> 1:41:38.210

Heather Darby

Umm and again, time time will tell.

1:41:38.310 --> 1:41:42.990

Heather Darby

You know, we are, the study is continuing for a number of years.

1:41:43.440 --> 1:41:53.170

Heather Darby

So it's not to say that this level of neonics coming out of tile or surface water is something that we're going to see every single year.

1:41:54.300 --> 1:42:16.720

Heather Darby

Umm for the time frame or any of it, you know, we really have to have more, more years of data and again we have to kind of put all the rain events together with the peaks and, you know and the flows that we're seeing which is you know, takes some time to get all that information together.

1:42:16.920 --> 1:42:17.530

Heather Darby

Yeah.

1:42:17.780 --> 1:42:18.870

Heather Darby

So go ahead, Steve.

1:42:20.100 --> 1:42:20.410

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah.

1:42:20.780 --> 1:42:21.120

Heather Darby

Yeah.

1:42:20.420 --> 1:42:25.160

86120c6c-8638-4e7c-b634-2557cc4933ed

So just how long after planting was that?

1:42:26.640 --> 1:42:28.160

86120c6c-8638-4e7c-b634-2557cc4933ed

So a high detections.

1:42:29.40 --> 1:42:35.210

Heather Darby

Umm, we planted in the middle of May, so about a month and 1/2.

1:42:36.870 --> 1:42:38.40

86120c6c-8638-4e7c-b634-2557cc4933ed

OK, OK.

1:42:38.640 --> 1:42:45.470

Heather Darby

Again, to me it what I see is it's coarse, it's corresponding with actual rainfall.

1:42:47.930 --> 1:42:58.190

Heather Darby

Because we were, it's hard to remember that it was dry, but it was exceptionally dry in May and most of June.

1:42:59.990 --> 1:43:4.100

Heather Darby

To the point where you know fields were burning up.

1:43:4.190 --> 1:43:6.340

Heather Darby

I mean, it was wasn't pretty.

1:43:6.350 --> 1:43:13.320

Heather Darby

I mean, we all thought we were going into a drought and then really we started to get some rainfall at the at the end of June.

1:43:13.930 --> 1:43:21.30

Heather Darby

Umm, which is what we're seeing in this, you know, slide and then we had more substantial rainfall in July.

1:43:22.160 --> 1:43:24.500

Heather Darby

Which I think is what caused that movement.

1:43:25.750 --> 1:43:36.10

Heather Darby

Topeka like that these levels, these peak levels are similar to what others have shown in the literature.

1:43:36.320 --> 1:43:41.870

Heather Darby

You know, in the Midwest, Ohio, places like that after planting.

1:43:42.180 --> 1:43:50.840

Heather Darby

So it's not, it's not out of the range of what people have observed after planting.

1:43:51.90 --> 1:44:0.930

Heather Darby

But again, umm, you know when we're collecting this water, we're not in the field like collecting water off the field.

1:44:0.940 --> 1:44:7.740

Heather Darby

You have to have a runoff event for this to happen, which means it's wet.

1:44:8.270 --> 1:44:8.810

Heather Darby

Very wet.

1:44:10.60 --> 1:44:12.780

Heather Darby

We don't generally get as many as we got this year.

1:44:13.700 --> 1:44:17.560

Heather Darby

So so anyway, but it is what it is, yeah?

1:44:14.100 --> 1:44:17.990

86120c6c-8638-4e7c-b634-2557cc4933ed

So Heather, yeah.

1:44:18.0 --> 1:44:18.210

86120c6c-8638-4e7c-b634-2557cc4933ed

What?

1:44:18.220 --> 1:44:19.150

86120c6c-8638-4e7c-b634-2557cc4933ed

What one more question.

1:44:27.80 --> 1:44:27.220

Heather Darby

Yes.

1:44:19.160 --> 1:44:28.560

86120c6c-8638-4e7c-b634-2557cc4933ed

So the the last collection event there was that I mean was that still a substantial rainfall event or is that, I mean it hasn't compared to the one in June.

1:44:28.570 --> 1:44:30.800

86120c6c-8638-4e7c-b634-2557cc4933ed

I'm trying to figure out the concentration.

1:44:30.810 --> 1:44:35.50

86120c6c-8638-4e7c-b634-2557cc4933ed

That, you know, like there was a big flush and then concentration went down or is it just slow data with it?

1:44:35.210 --> 1:44:35.740

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah.

1:44:35.750 --> 1:44:40.460

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah, it's strictly just, you get, you get water, you're going to get the material.

1:44:40.560 --> 1:44:41.580

Heather Darby

Yep, Yep.

1:44:43.20 --> 1:44:54.250

Heather Darby

So now I mean, we're still collecting and we have all the data through the end of the year and now we're not, we're not getting any detectable levels.

1:44:54.260 --> 1:44:56.30

Heather Darby

We haven't since October.

1:44:57.390 --> 1:44:57.900

86120c6c-8638-4e7c-b634-2557cc4933ed

OK.

1:44:58.250 --> 1:45:2.150

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah, it'd be good to correlate the flow with the concentration somehow.

1:45:2.160 --> 1:45:3.930

86120c6c-8638-4e7c-b634-2557cc4933ed

There's anyway that do that.

1:45:3.90 --> 1:45:5.760

Heather Darby

Yeah, that that's gonna take us a bit.

1:45:7.310 --> 1:45:7.510

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah.

1:45:5.890 --> 1:45:13.500

Heather Darby

That's a whole different data set, but yeah, there's a lot to unpack here.

1:45:13.510 --> 1:45:26.650

Heather Darby

But that's umm, but it, you know, it's or finding it in the tile water and in the surface runoff seems to peak and then go down as I guess we would expect it to.

1:45:27.180 --> 1:45:29.270

Heather Darby

And we don't know how this would be different.

1:45:37.490 --> 1:45:37.770

86120c6c-8638-4e7c-b634-2557cc4933ed

Right.

1:45:29.280 --> 1:45:39.410

Heather Darby

Obviously, if you know we didn't have constant rain or we had more our normal rain events, but it is what we found next year.

1:45:40.300 --> 1:45:40.650

86120c6c-8638-4e7c-b634-2557cc4933ed

OK.

1:45:40.660 --> 1:45:43.510

86120c6c-8638-4e7c-b634-2557cc4933ed

And I'm sorry, one last question, where does the tile drain to?

1:45:43.560 --> 1:45:44.10

86120c6c-8638-4e7c-b634-2557cc4933ed

Is it?

1:45:44.60 --> 1:45:44.560

86120c6c-8638-4e7c-b634-2557cc4933ed

Where does it go?

1:45:48.690 --> 1:45:55.290

Heather Darby

Umm well, this farm has a ditch system, but the this is the Jewett Brook watershed.

1:45:56.390 --> 1:45:56.630

86120c6c-8638-4e7c-b634-2557cc4933ed

OK.

1:45:56.340 --> 1:46:1.580

Heather Darby

Those down in Saint Albans Bay, so ultimately all the water would go into the Jewett Brook.

1:46:3.150 --> 1:46:3.450

86120c6c-8638-4e7c-b634-2557cc4933ed

OK.

1:46:3.460 --> 1:46:3.810

86120c6c-8638-4e7c-b634-2557cc4933ed

Thank you.

1:46:3.490 --> 1:46:10.370

Heather Darby

The reason the projects there it's because that's one of the most impaired watersheds in the state of Vermont, so.

1:46:14.910 --> 1:46:15.70

Heather Darby

Yeah.

1:46:15.80 --> 1:46:17.30

Heather Darby

I'm sorry about my dates.

1:46:19.470 --> 1:46:24.890

Heather Darby

Apparently I needed that extra 10 minutes that you gave me to get on the call at 2:50.

1:46:26.360 --> 1:46:30.490

Heather Darby

I know I'm like Ohh, just make this bigger and all of a sudden it got smaller.

1:46:31.820 --> 1:46:32.270

Heather Darby

OK.

1:46:33.180 --> 1:46:34.540

Heather Darby

But anyway so.

1:46:36.320 --> 1:46:47.170

Heather Darby

We're continuing to, like I said, collect the tile and the surface run off and A and again, these are paired watersheds.

1:46:47.450 --> 1:46:58.620

Heather Darby

So there's, you know, one collection point or two collection points for surface and two collection points for subsurface.

1:46:59.480 --> 1:47:4.960

Heather Darby

So I think before Steve, you asked me like what's the percentage of samples that were detecting?

1:47:5.950 --> 1:47:9.190

Heather Darby

Umm, we only have two, right?

1:47:9.200 --> 1:47:15.180

Heather Darby

There's only two reps, so it it's a little bit different than the soil where we're taking multiple.

1:47:29.860 --> 1:47:30.60

86120c6c-8638-4e7c-b634-2557cc4933ed

OK.

1:47:30.250 --> 1:47:32.740

Heather Darby

Which is only two, you know.

1:47:32.750 --> 1:47:37.480

Heather Darby

It's not like we took 100 samples and 100 of them came back with detectable levels.

1:47:37.490 --> 1:47:39.20

Heather Darby

We're taking two samples.

1:47:43.530 --> 1:47:47.370

Heather Darby

All right, that is what I have.

1:47:47.600 --> 1:47:48.310

Heather Darby

Umm.

1:47:49.630 --> 1:47:57.250

Heather Darby

And like I said, we're gonna be, you know, repeating the studies that border view.

1:47:58.410 --> 1:48:4.450

Heather Darby

Umm, and continuing to collect water and soil samples at Discovery Acres.

1:48:6.440 --> 1:48:18.370

Heather Darby

Going back out onto farms, we're hoping to expand our research this year and look at some some other treatments as well.

1:48:18.860 --> 1:48:29.460

Heather Darby

But I we don't have a fully formulated plan yet, so I don't wanna really talk about that at the moment.

1:48:29.520 --> 1:48:37.910

Heather Darby

I know Morgan and Steve and I and others were gonna meet up last week, but once again, our family was sick.

1:48:39.870 --> 1:48:45.500

Heather Darby

And hoping to move forward on a 2024 plan very quickly.

1:48:50.190 --> 1:48:50.500

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah.

1:48:50.510 --> 1:48:53.660

86120c6c-8638-4e7c-b634-2557cc4933ed

And we we just mentioned that while we were umm.

1:48:55.960 --> 1:49:8.50

86120c6c-8638-4e7c-b634-2557cc4933ed

Talking here beforehand of just, yeah, that we had that meeting that we're planning on with you to just talk about what what could we do in 2024 and to hear about your idea.

1:49:9.450 --> 1:49:9.660

Heather Darby

Yeah.

1:49:8.120 --> 1:49:10.300

86120c6c-8638-4e7c-b634-2557cc4933ed

So yeah, we'll get it.

1:49:10.300 --> 1:49:10.780

86120c6c-8638-4e7c-b634-2557cc4933ed

Said board.

1:49:10.790 --> 1:49:11.410

86120c6c-8638-4e7c-b634-2557cc4933ed

We'll figure it out.

1:49:12.270 --> 1:49:13.860

Heather Darby

Yeah, I was gonna say, you know, we've.

1:49:14.870 --> 1:49:17.620

Heather Darby

Started some collaborations with Cornell.

1:49:17.630 --> 1:49:30.310

Heather Darby

So, umm, they're really interested in dynamites, which are another class of insecticide and viewed as an alternative.

1:49:30.360 --> 1:49:37.870

Heather Darby

So we may be interested in evaluating some of those options.

1:49:39.10 --> 1:49:45.50

Heather Darby

Umm, there was also some interesting comments that were made during the webinar series.

1:49:46.240 --> 1:49:51.930

Heather Darby

Umm by read Johnson from the Ohio State University?

1:49:52.600 --> 1:50:15.260

Heather Darby

Who did a lot of work evaluating dust movement, and he actually was very curious to better understand if the seed coatings have become more resilient to flaking and chipping and dusting off.

1:50:16.140 --> 1:50:23.370

Heather Darby

And, umm, he was interested in a, you know, possible collaboration to evaluate that.

1:50:23.380 --> 1:50:44.140

Heather Darby

He seems to think that they have not received hardly any reports in Ohio related to a hive death from neonics, since I can't remember the year, but not in in the last few years.

1:50:44.150 --> 1:50:52.660

Heather Darby

And so he feels like the seed treatments may have become more stable, but he hasn't looked at that at all.

1:50:53.40 --> 1:50:53.590

Heather Darby

Umm.

1:50:53.920 --> 1:50:57.780

Heather Darby

And would really like to evaluate that.

1:50:57.790 --> 1:51:0.280

Heather Darby

I know we would be interested in that as well.

1:51:0.850 --> 1:51:6.50

Heather Darby

We've talked a lot about fluency agents and testing different ones out on farms.

1:51:7.670 --> 1:51:10.590

Heather Darby

He seemed to think it didn't matter, but.

1:51:12.190 --> 1:51:20.670

Heather Darby

You know, if there's different opinions out there, so that's something else we're considering looking at as well, so.

1:51:24.580 --> 1:51:24.950

Heather Darby

Need.

1:51:24.160 --> 1:51:25.670

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah, actually we have.

1:51:26.120 --> 1:51:31.230

86120c6c-8638-4e7c-b634-2557cc4933ed

Redis is going to join us in our February 26th meeting.

1:51:30.870 --> 1:51:32.390

Heather Darby

Uh, good. Perfect.

1:51:31.360 --> 1:51:35.130

86120c6c-8638-4e7c-b634-2557cc4933ed

So yeah, we listened to the webinar and then we said, hey, that's great.

1:51:35.140 --> 1:51:37.870

86120c6c-8638-4e7c-b634-2557cc4933ed

Can you say the same stuff too?

1:51:36.530 --> 1:51:39.470

Heather Darby

Yeah. Yep.

1:51:38.120 --> 1:51:40.680

86120c6c-8638-4e7c-b634-2557cc4933ed

So he's booked for February 26th.

1:51:41.740 --> 1:52:2.480

Heather Darby

One thing that peaked the interest of the farmers, which they heard loud and clear, was that the insecticides are causing damage to other biology and it's also a potentially impacting the overall health of the soil.

1:52:3.630 --> 1:52:9.890

Heather Darby

And that was really of concern to many of the farmers.

1:52:10.730 --> 1:52:17.820

Heather Darby

So we I think we're all we may try to dig into that more where essentially this was John Tucker.

1:52:18.330 --> 1:52:39.670

Heather Darby

They have some preliminary evidence that shows the neonics kill springtails and collembola, which are fungi farmers, and because of this disruption in the soil ecology, the overall aggregate stability and structure of the soil is declining, with neonics.

1:52:39.680 --> 1:52:54.700

Heather Darby

Use umm so that would be interesting to evaluate because there's such focus on soil health and Vermont and such an interest with Vermont farmers too.

1:52:54.810 --> 1:52:58.830

Heather Darby

There's a lot of buy in there, something we want to look at further.

1:53:2.330 --> 1:53:4.830

Heather Darby

Anyway, all I got.

1:53:5.970 --> 1:53:6.320

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah.

1:53:6.330 --> 1:53:8.610

86120c6c-8638-4e7c-b634-2557cc4933ed

So comments, questions from board members?

1:53:12.390 --> 1:53:12.890

86120c6c-8638-4e7c-b634-2557cc4933ed

Interesting.

1:53:16.190 --> 1:53:16.870

86120c6c-8638-4e7c-b634-2557cc4933ed

Ohh go ahead Ryan.

1:53:18.410 --> 1:53:19.260

Ryan Rebozo

Yeah, quick question.

1:53:19.910 --> 1:53:25.640

Ryan Rebozo

Thanks for sharing that and the the slide, I guess maybe slide 10 with the soil concentrations.

1:53:25.650 --> 1:53:32.670

Ryan Rebozo

It was interesting to see that, umm, maybe about half you had to have about half as many the text and the same St.

1:53:34.120 --> 1:53:34.300

Heather Darby

Yeah.

1:53:36.350 --> 1:53:36.490

Heather Darby

Yes.

1:53:32.680 --> 1:53:44.690

Ryan Rebozo

Albans site when you got to the 2 1/2 to 6 inches were those kind of evenly distributed in the field or was there something about those sampling points that that you integrated the tax and anything that is kind of set up?

1:53:50.670 --> 1:53:51.20

Ryan Rebozo

Umm.

1:53:46.930 --> 1:53:53.700

Heather Darby

No, I mean we use a random sampling grid, so no, not really.

1:53:53.710 --> 1:53:58.440

Heather Darby

I mean the the field is actually very uniform.

1:53:58.530 --> 1:53:59.570

Heather Darby

You know it's flat.

1:54:0.260 --> 1:54:2.600

Heather Darby

Umm, the soil type is very consistent.

1:54:3.540 --> 1:54:7.140

Heather Darby

Treatments consistent, so there was nothing that that stood out.

1:54:8.130 --> 1:54:8.380

Ryan Rebozo

OK.

1:54:8.390 --> 1:54:8.710

Ryan Rebozo

Thank you.

1:54:9.460 --> 1:54:9.640

Heather Darby

Yeah.

1:54:16.180 --> 1:54:19.840

86120c6c-8638-4e7c-b634-2557cc4933ed

Heather, is there gonna be a this will be published at some point, I guess.

1:54:20.730 --> 1:54:21.480

Heather Darby

Yeah.

1:54:21.530 --> 1:54:31.720

Heather Darby

I mean, we have with the water data especially we have so much work that we have to do to you know really thanks for all of these pieces out.

1:54:32.410 --> 1:54:37.620

Heather Darby

Umm, so we're working on that over the winter.

1:54:40.130 --> 1:54:45.560

Heather Darby

Because we have a lot of new trend data as well and flow data and all the pieces.

1:54:45.570 --> 1:54:46.840

Heather Darby

So yeah.

1:54:46.900 --> 1:54:47.120

86120c6c-8638-4e7c-b634-2557cc4933ed

OK.

1:54:49.160 --> 1:54:51.640

86120c6c-8638-4e7c-b634-2557cc4933ed

Sometime in 2028, maybe.

1:54:54.450 --> 1:54:57.900

Heather Darby

Yeah, I mean we've we're sharing as much.

1:54:58.150 --> 1:55:1.510

Heather Darby

You know, obviously we've been really open with everything that we're finding.

1:55:3.80 --> 1:55:10.670

Heather Darby

You know we're we are all, you know, really learning and trying to figure out what's the most meaningful data to collect.

1:55:10.680 --> 1:55:17.620

Heather Darby

I mean, we don't have a huge, you know, research program.

1:55:18.70 --> 1:55:26.720

Heather Darby

I mean, we do within our within our program, but just you know as a whole, we don't have all the capacity that you know other places have.

1:55:26.730 --> 1:55:47.500

Heather Darby

So it's really just trying to, you know, pick pick the best, most important components that we can look at both from all of your, from all the different parties perspectives and there's a lot of them, you know like what's most important to the farmer is what's most important to you, policymakers and regulators.

1:55:47.510 --> 1:55:54.280

Heather Darby

And you know, then we have other farmers here that are being impacted, be keepers and.

1:55:55.970 --> 1:56:7.660

Heather Darby

So you know, just trying to really be open with what we're doing, we're taking feedback and trying to do as much as we can, you know with, with what we have.

1:56:8.560 --> 1:56:19.800

Heather Darby

So we definitely want to understand that the best that we can because we can only do so much on our own and that's why we've really been trying to build this collaboration with Cornell.

1:56:20.310 --> 1:56:29.630

Heather Darby

So that you know we can feed off from what they're doing and help big build a regional data set, which is really important.

1:56:44.780 --> 1:56:44.990

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah.

1:56:29.640 --> 1:56:45.30

Heather Darby

It was nice to hear from them how important they felt our work was, because it's really complimenting and showing similar things to what what they're finding, so that also felt good to me too, yeah.

1:56:51.470 --> 1:56:52.170

86120c6c-8638-4e7c-b634-2557cc4933ed

Other board members.

1:56:54.300 --> 1:56:57.160

86120c6c-8638-4e7c-b634-2557cc4933ed

Anybody else on the call?

1:56:57.310 --> 1:56:59.710

86120c6c-8638-4e7c-b634-2557cc4933ed

Not a board member on any questions for Heather while she's on.

1:57:5.830 --> 1:57:6.280

Heather Darby

Hi, Wendy.

1:57:6.290 --> 1:57:7.660

Heather Darby

Sue, I've seen you in.

1:57:11.540 --> 1:57:12.230

wsh

Thank you, Heather.

1:57:11.720 --> 1:57:13.610

86120c6c-8638-4e7c-b634-2557cc4933ed

Well, yeah, yeah.

1:57:13.620 --> 1:57:14.290

86120c6c-8638-4e7c-b634-2557cc4933ed

Thanks a lot.

1:57:14.300 --> 1:57:29.630

86120c6c-8638-4e7c-b634-2557cc4933ed

We really appreciate all the work you're doing and looking forward to continue to work with you and you know, so the recommendations from the board really are focused for a lot of of the work you're going to be doing and are continuing to do continue to work with you on that.

1:57:30.200 --> 1:57:33.850

Heather Darby

Yeah, I I think that outreach has been really, really important.

1:57:33.930 --> 1:57:43.750

Heather Darby

And Steve, I know you have seen that I think a year ago we talked about the need to really be out talking with farmers.

1:57:45.30 --> 1:57:49.200

Heather Darby

I remember a meeting not that long ago where somebody was saying, why are you talking about?

1:57:49.210 --> 1:57:50.620

Heather Darby

I did I miss something?

1:57:50.630 --> 1:57:54.900

Heather Darby

Like so, people have been largely unaware.

1:57:55.230 --> 1:58:0.240

Heather Darby

And so I think this ever has been really good on many, you know, many fronts.

1:58:0.250 --> 1:58:1.770

Heather Darby

People are really paying attention.

1:58:2.780 --> 1:58:3.220

Heather Darby

Umm.

1:58:4.220 --> 1:58:7.750

Heather Darby

And just really trying to figure out where we're gonna go next.

1:58:7.760 --> 1:58:15.720

Heather Darby

So nice to know that we're making a lot of headway, even though it may not feel it for some, and I respect that and understand.

1:58:18.100 --> 1:58:18.270

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Yep.

1:58:19.540 --> 1:58:19.760

Heather Darby

OK.

1:58:20.940 --> 1:58:21.340

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OK.

1:58:21.350 --> 1:58:21.570

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Yeah.

1:58:21.580 --> 1:58:22.230

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Thanks so much.

1:58:22.590 --> 1:58:23.180

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Thank you.

1:58:23.280 --> 1:58:23.710

Heather Darby

Thanks.

1:58:26.840 --> 1:58:31.140

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Alright, well, what else we got on the agenda there?

1:58:31.200 --> 1:58:39.710

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I think if we don't have any other things to talk about for potential future topics.

1:58:42.90 --> 1:58:46.810

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OK, I think we addressed most of what we wanted to say before Heather came on.

1:58:46.880 --> 1:58:56.40

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Unless didn't do any Members wanna put anything out there for future topics to look into for me to look for speakers or anything like that?

1:58:56.50 --> 1:58:57.130

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Just put on agenda.

1:58:59.340 --> 1:58:59.540

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OK.

1:58:59.550 --> 1:59:0.180

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Go ahead, Wendy too.

1:59:3.110 --> 1:59:3.470

wsh

Umm.

1:59:6.250 --> 1:59:24.900

wsh

I don't know if this isn't our purview, but and I do know that PFAS is is, I think that is on the agenda, but I also think that that microplastics in agricultural and soils and plants and things like that is a it seems to be a a big issue.

1:59:24.910 --> 1:59:34.560

wsh

I know in Maine it's kind of come up as something that's a problem on some farms and I think we should kind of look into it too.

1:59:34.570 --> 1:59:36.310

wsh

So we're not blindsided by it.

1:59:38.360 --> 1:59:38.840

wsh

That's all.

1:59:39.760 --> 1:59:40.110

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Yeah.

1:59:40.120 --> 1:59:45.370

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Actually Pam, you have done a little thinking about microplastics, haven't you?

1:59:46.100 --> 2:0:3.540

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I just started down the path and I found an interesting paper on it was you could see in the soil horizon in a farm in England, microplastics in the soil dating too, like the original plastics 100 years ago.

2:0:3.590 --> 2:0:7.410

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Like they could see when plastic came on the market in the soils.

2:0:7.890 --> 2:0:29.620

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So it's definitely anywhere there's been a farm, there's microplastics now and micro, nano plastics and that several new world for me, it's some overwhelming to think about how much plastic is in soils from all the different uses that we have in us to.

2:0:31.580 --> 2:0:31.910

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Yeah.

2:0:31.920 --> 2:0:35.900

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So I mean, it seems like that's something we should put on the yeah, on the list.

2:0:37.60 --> 2:0:39.50

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You might want to wait a couple meetings.

2:0:40.570 --> 2:0:42.180

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We got a few things out of the way.

2:0:43.260 --> 2:0:47.190

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Ohh but yeah, let's put that on the list, Laura.

2:0:48.340 --> 2:0:49.370

DiPietro, Laura

Yeah, just comment.

2:0:49.380 --> 2:0:50.890

DiPietro, Laura

Just so folks are aware.

2:0:50.900 --> 2:1:4.990

DiPietro, Laura

Umm you could put it on the list, but we are having some challenges with the the microplastic because it's not like other chemicals that we're all aware of and there's laboratory techniques that are consistent across the country and so that you can work through a process to figure out what's going on.

2:1:5.420 --> 2:1:15.140

DiPietro, Laura

It's definitely a space of new innovation and you know those of you have worked in the lab with materials, you know, like a water is different than a manure is different than the soil.

2:1:15.980 --> 2:1:23.410

DiPietro, Laura

And so we're having some methodology challenges of just trying to even get through the path of doing some research with microplastics.

2:1:23.420 --> 2:1:37.630

DiPietro, Laura

And then, of course, there's different types of plastics, and I and Professor Roy Eric Roy has, you know, a lot of information out there on some of the work that they've done as well to learn about the different types of plastics.

2:1:37.640 --> 2:1:42.330

DiPietro, Laura

But we have an ongoing study right now and DC also has another one.

2:1:42.340 --> 2:1:57.110

DiPietro, Laura

So we're trying to pull samples and trying to learn more about essentially looking through Deepak, which is separating food products when they're already packaged and different farms that have either taken it or not taking it and then compost and the materials that are in compost.

2:1:57.120 --> 2:2:2.440

DiPietro, Laura

So we are working with DC and trying to do some of that, but it's so preliminary at this point.

2:2:2.450 --> 2:2:9.380

DiPietro, Laura

So happy that we could talk about it, but right now they're just really isn't too much data information that's ready for Vermont.

2:2:9.760 --> 2:2:10.720

DiPietro, Laura

And in what main?

2:2:10.730 --> 2:2:12.540

DiPietro, Laura

We've gone over to main and we've worked with them.

2:2:13.50 --> 2:2:15.880

DiPietro, Laura

A lot of their work they're doing is really focused on PPOS.

2:2:16.590 --> 2:2:20.870

DiPietro, Laura

So we've also we're looking at PFOS and microplastic and the work that we're doing.

2:2:26.240 --> 2:2:28.460

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No, it sounds like they'll be some information chair.

2:2:30.410 --> 2:2:31.210

DiPietro, Laura

It could be a year out.

2:2:34.500 --> 2:2:35.170

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We got a year.

2:2:35.220 --> 2:2:36.330

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We'll be we'll still be here a year.

2:2:37.810 --> 2:2:39.110

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And so all the micro left.

2:2:43.280 --> 2:2:43.930

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OK.

2:2:43.980 --> 2:2:44.350

86120c6c-8638-4e7c-b634-2557cc4933ed
Morgan.

2:2:44.360 --> 2:2:45.100

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Anything else on the?

2:2:46.470 --> 2:2:48.80

86120c6c-8638-4e7c-b634-2557cc4933ed
Uh, no.

2:2:48.90 --> 2:2:50.690

86120c6c-8638-4e7c-b634-2557cc4933ed
Just if we're ready for public comment, yeah.

2:2:52.540 --> 2:2:55.980

86120c6c-8638-4e7c-b634-2557cc4933ed
We're finished with our discussion, alright.

2:2:55.990 --> 2:3:0.150

86120c6c-8638-4e7c-b634-2557cc4933ed
So any members of the public participating, does it have a comment for today?

2:3:19.880 --> 2:3:20.330

86120c6c-8638-4e7c-b634-2557cc4933ed
Alright.

2:3:23.830 --> 2:3:24.930

86120c6c-8638-4e7c-b634-2557cc4933ed
Then I think.

2:3:26.620 --> 2:3:29.40

86120c6c-8638-4e7c-b634-2557cc4933ed
We've got some good things for feature.

2:3:30.470 --> 2:3:46.180

86120c6c-8638-4e7c-b634-2557cc4933ed
Then the topics and we do have a Rev Johnson, who Heather was talking about from Ohio State is going to join us for February to talk about his research and you need to receive.

2:3:46.730 --> 2:3:55.920

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And so we can, I think of some, I can't remember, did I send out the link to the recordings of the webinars series?

2:3:56.250 --> 2:3:57.830

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You guys remember you doing that?

2:3:57.840 --> 2:4:16.160

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OK, so if it's probably going to be a repeat of that and we saw reads presentations through that and then reached out to him, but if you have any questions that you can think of that you want me to send along to him before he comes, maybe he can address those.

2:4:16.170 --> 2:4:27.910

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In addition to that presentation, so if Members have something either based on what Heather said or anything that you want to ask, read beforehand to steer his presentation towards just let me know.

2:4:30.250 --> 2:4:30.750

86120c6c-8638-4e7c-b634-2557cc4933ed

Umm.

2:4:30.790 --> 2:4:44.270

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Otherwise, I think we have had a happy Monday and thank you all and I look forward to 2024 and our continued learning together.

2:4:44.330 --> 2:4:45.240

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So thank you.

2:4:45.320 --> 2:4:45.520

86120c6c-8638-4e7c-b634-2557cc4933ed

Yeah.

2:4:45.530 --> 2:4:46.60

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Thanks everybody.

2:4:47.230 --> 2:4:49.640

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So where are we on the P5 thinking?

2:4:49.650 --> 2:4:50.140

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Vermont.

2:4:50.190 --> 2:4:52.820

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Are we guys doing a lot of testing?