1	COMMODITY FUTURES TRADING COMMISSION
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5	AGRICULTURAL ADVISORY COMMITTEE MEETING
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9	9:10 a.m. to 11:50 a.m. EST
LO	Thursday, December 14, 2023
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20	Three Lafayette Centre
21	1155 21st Street Northwest
22	Washington, D.C. 20581

1 PARTICIPANTS 3 ROSTIN BEHNAM, Chairman 4 CHRISTY GOLDSMITH ROMERO, Commissioner 5 SUMMER K. MERSINGER, Commissioner 6 SCOTT HERNDON 7 BUDDY ALLEN 8 JOE BARKER 9 CHRIS BETZ 10 LAYNE CARLSON 11 ROBERT CHESLER 12 GERALD CORCORAN 13 PATRICK COYLE 14 EDWARD ELFMANN 15 EDWARD GALLAGHER 16 H. THOMAS HAYDEN, JR. 17 JERED HOOKER 18 BRYAN HUMPHREYS 19 WILLIS KIDD

20 JEFF LLOYD

22 ERIN MORRIS

21 MICHELLE MAPES

1		PARTICIPANTS	(continued)
2			
3	CYNTHIA NICE	KERSON	
4	EDWARD PROSS	SER	
5	MICHAEL RICE	KS	
6	TROY SANDER		
7	LIAM SMITH		
8	STEPHEN STRO	DNG	
9	CURT STRUBHA	AR	
10	JUSTIN TUPPE	ER	
11	WES UHLMEYER	3	
12	HAYDEN WANDS		
13	RYAN WESTON		
14	JASON WHEELE	ER	
15	SWATI SHAH		
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- 1 PROCEEDINGS
- 2 MS. SHAH: Good morning, and welcome to
- 3 today's meeting of the CFTC's Agricultural Advisory
- 4 Committee. As the designated federal officer, I
- 5 hereby call this meeting to order.
- 6 I would like to extend a warm welcome to
- 7 Chairman Behnam, Commissioner Goldsmith Romero, and
- 8 Commissioner Mersinger and thank them for joining
- 9 today's meeting. Thank you to all the members of
- 10 the committee and the guest speakers for their time
- 11 today.
- To begin the meeting, we are pleased to first
- 13 recognize Chairman Behnam for his opening remarks,
- 14 followed by the Commissioners.
- 15 Chairman Behnam?
- 16 CHAIRMAN BEHNAM: Thanks, Swati.
- Good morning to everyone. Welcome to
- 18 Washington. Big week here. We were busy
- 19 yesterday, but I'm sure for everyone. We
- 20 appreciate you guys traveling to Washington. It
- 21 means a lot.
- 22 And I'll be very brief. We have a big

- 1 morning, and sort of reflecting on where we've been
- 2 for 2023, just talking to Scott and Swati, you
- 3 know, we had the meeting in April. I had another
- 4 meeting in July, and that was sort of my vision
- 5 probably about a year ago this time thinking about
- 6 what we would do for 2023, and I think we've
- 7 covered a lot of topics. We've tried to include as
- 8 much as possible in terms of what the committee has
- 9 wanted to address. I think we have a lot of work
- 10 to do, obviously today, but tomorrow as well.
- And just, you know, important issues about
- 12 what we're seeing in our markets and how it affects
- 13 and impacts all of you, ag end users, commercials,
- 14 and sort of market infrastructure participants.
- 15 Obviously a lot going on in the world
- 16 geopolitically that is directly impacting
- 17 agricultural markets, so I think we have a serious
- 18 and big responsibility, I think, as market
- 19 regulators and our participants to think about
- 20 these issues so that, ultimately, we could keep the
- 21 ag economy and the ag value chain healthy, costs
- 22 low, and, you know, continuing to feed the world.

- 1 So a lot to do, I think a lot of uncertainty still
- 2 in the marketplace, but I really do appreciate all
- 3 of your engagement and working with us at the
- 4 Commission.
- I was in Dallas a few weeks ago, gave a brief
- 6 speech about livestock and cattle markets, but also
- 7 we announced the K-State event which we're going to
- 8 have in April of next year, so that'll probably be
- 9 the next time we get together, I think, both as an
- 10 advisory committee meeting, but it'll be a broader
- 11 agricultural conference, which many of you know and
- 12 have attended in the past. This will be the third
- one but the first since COVID, so very excited to
- 14 bring that back. We found that conference to be
- 15 really an exceptional opportunity for the
- 16 Commission to sort of go out into the field to get
- 17 to Kansas City, which, you know, we have an office
- 18 there, which means a lot for us and our staff in
- 19 that office as well, but really bringing people
- 20 together from all parts of the country, working
- 21 with K-State, which is a great partner to think
- 22 about ag markets and risk management. And we're

- 1 really thinking about a great day and a half or so
- 2 of discussions and panels and just being together
- 3 and catching up.
- 4 So we will get through the holidays, take a
- 5 little bit of a rest, but as we get into the new
- 6 year, certainly want any feedback from all of you
- 7 as we shape and curate that agenda over the next
- 8 couple of months because I think it's another good
- 9 opportunity for us to invite other policymakers,
- 10 obviously stakeholders like yourselves, but anyone
- 11 who's involved in the value chain so that we can
- 12 think about these issues and start to resolve some
- 13 of the issues.
- So with that, looking forward to today. I do
- 15 want to thank Scott Herndon and Swati again. As
- 16 you guys all know, this is how the committee works
- 17 is these two individuals. Everyone at the
- 18 Commission who's helped us get to today, like I
- 19 said, we had a busy day yesterday, but constantly
- 20 turning over and looking forward to the discussion
- 21 this morning.
- 22 So, Swati, I'll turn it back to you. Thanks.

- 1 MS. SHAH: Thank you, Chairman Behnam.
- 2 Commissioner Goldsmith Romero?
- 3 COMMISSIONER GOLDSMITH ROMERO: Good morning.
- 4 I want to just echo the thanks for you coming here.
- 5 I really appreciate it, and thank you for your
- 6 service. Thank you, Chairman. Thank you, Swati
- 7 and Scott, for your service.
- 8 It has been a big week for the Commission. I
- 9 think we saved the best for last, which is pretty
- 10 nice.
- I want to echo something the Chairman said.
- 12 So I really benefited from hearing directly from
- 13 you, directly from our ag sector, not just the
- 14 challenges that you face, but the pride you have in
- 15 what you make, what you deliver, and all of your
- 16 on-the-ground experiences has really helped. It's
- 17 one thing to hear about transportation or labor
- 18 issues, and it's another to like be there watching
- 19 that all of a sudden the train showed up super
- 20 late, and, you know, they're trying to pull people
- 21 in to fill it, and I was able to see that.
- It's also, you know, a situation where when we

- 1 talked about input costs and labor costs, being on
- 2 the ground and being able to see it is really
- 3 helpful, but I also really appreciate that people
- 4 reach out, and we have these meetings in
- 5 Washington, too, and then also on Zoom because I do
- 6 listen. I do input that. I encourage you to reach
- 7 out to me. I don't want to start 2024 hearing from
- 8 everyone, particularly in the ag sector, about what
- 9 the issues are so we can plan for the next year,
- 10 and also not just the challenges, but the
- 11 excitement about what you're doing.
- 12 It's fascinating to me to go in there and
- 13 actually, you know, learn about sorting soybeans
- 14 for Japanese customers that want like uniform color
- 15 and actually sit there with them in my hand and
- 16 sort of understanding that. And I never knew there
- 17 was so much to learn about oils. I know a lot
- 18 more.
- 19 Importantly, you really drive the economy.
- 20 And I was at Treasury for 12 years, so I tend to
- 21 look at things through the lens of how it relates
- 22 to our economy. And so my highest priority has

- 1 always been that these derivatives markets are
- 2 working well, particularly for you. I think the
- 3 derivatives markets can play a critical role in the
- 4 economy, too. We need to stabilize prices. We've
- 5 got to deal with volatility, particularly as these
- 6 geopolitical issues come up.
- 7 So I think 2023, the derivatives markets have
- 8 worked really well under some significant stresses,
- 9 and so I really look forward to these presentations
- 10 about Ukraine and Russia and Ukraine and the other
- 11 geopolitical events.
- 12 We've been tracking -- and I look every day at
- 13 those wheat prices, and I really rely on our
- 14 economists who do a good job of bringing other data
- 15 in, whether it's from USDA or wherever, and we're
- 16 making analysis. That is something we do every
- 17 single day. I do not have a day where I do not do
- 18 that. That is the start of my day. It's usually
- 19 also in the afternoon, so it's twice a day for me,
- 20 every day that I've been in this job. I never lose
- 21 sight of that, and even when we have emerging
- 22 issues or technology, you might hear speeches, my

- 1 day-to-day work is monitoring those markets, and so
- 2 I'd love to hear from you.
- 3 Thank you for all of your service. I look
- 4 forward to the presentations today.
- 5 MS. SHAH: Thank you, Commissioner Goldsmith
- 6 Romero.
- 7 Commissioner Mersinger?
- 8 COMMISSIONER MERSINGER: Good morning. I'm
- 9 going to keep my remarks brief this morning because
- 10 we do have a pretty packed agenda but a really good
- 11 agenda, and I think a lot of presentations that are
- 12 going to be very helpful to the work we do here.
- 13 I'll just mention I was actually home in South
- 14 Dakota at the beginning of November and catching
- 15 the tail end of corn and sunflower harvest, and it
- 16 struck me, you know, when you're not home for a
- 17 while and you go back, the cost that goes into
- 18 production agriculture. When you see the number of
- 19 -- you know, a line of columbines trying to get
- 20 through these fields, I mean, I think my dad, he
- 21 cut down the last row of corn at 3:00 a.m. because
- 22 they've got to get it out of the ground, you know,

- 1 if there's weather coming, or whatever. I mean,
- 2 they will work through the night.
- And, you know, it's the combines, it's the
- 4 semis moving the grain. There is so much cost
- 5 involved in production agriculture, and it's just a
- 6 good reminder that our agricultural markets truly
- 7 are used for hedging those costs and risks that are
- 8 involved in production agriculture, so they have to
- 9 work.
- 10 The other thing I will say is, you know,
- 11 people may worry that, you know, we spend more time
- 12 thinking about, you know, whether it's some of the
- 13 financial markets or crypto or whatever, but if you
- 14 need a reminder of what's truly important to this
- 15 agency, I was recently before the Senate
- 16 Agriculture Committee, and I would say 90 percent
- 17 of the questions I was asked had to do with
- 18 agriculture. So it is the most important thing
- 19 that we do here, and that's why meetings like this
- 20 are so important.
- 21 So I'm going to turn it back to Swati, and
- 22 thank you all for being here, and I'm looking

- 1 forward to the presentations.
- MS. SHAH: Thank you, Commissioner Mersinger.
- Before we begin today's presentations, I want
- 4 to remind all participants in today's meeting to be
- 5 mindful of when your microphone is muted and
- 6 unmuted. Please make sure to mute your microphone
- 7 when you are not speaking.
- 8 After each presentation today, there will be a
- 9 dialogue segment where members of the committee,
- 10 the Chairman, and Commissioners will have the
- 11 opportunity to provide comments or to ask
- 12 questions. If you would like to speak, please turn
- 13 your name hat to the right. If you're joining
- 14 virtually, please use the "raise hand" function in
- 15 Zoom. When called upon, please identify yourself
- 16 and the organization that you represent on the
- 17 committee.
- 18 Scott, I'm going to now turn it over to you.
- MR. HERNDON: Thank you, Swati, and thank you,
- 20 Chairman Behnam, Commissioner Goldsmith Romero, and
- 21 Commissioner Mersinger. I look forward to
- 22 facilitating the discussion of members'

- 1 perspectives to the AAC and working with AAC
- 2 members to provide the Commission with feedback and
- 3 recommendations that assist the agency and its
- 4 oversight of our markets.
- 5 To ensure that today's discussion is
- 6 consistent with the AAC charter, no determination
- 7 of facts or policy shall be made by the AAC on
- 8 behalf of the Commission. Determinations of action
- 9 to be taken and policy to be expressed with respect
- 10 to the reports and/or recommendations of the AAC
- 11 shall be made solely by the Commission.
- 12 Before we begin our first panel, we would like
- 13 to do a roll call of the members and guest
- 14 panelists so we have your attendance on the record.
- 15 Swati will lead the roll call.
- 16 MS. SHAH: Thank you, Scott.
- 17 AAC members, after I say your name and
- 18 organization, please indicate that you are present.
- 19 If you are joining virtually, please make sure your
- 20 phone is not muted.
- 21 Buddy Allen, American Cotton Shippers
- 22 Association?

- 1 MR. ALLEN: Present.
- MS. SHAH: Joe Barker, National Council of
- 3 Farmer Cooperatives?
- 4 MR. BARKER: Present.
- 5 MS. SHAH: Chris Betz, Michigan Agri-Business
- 6 Association?
- 7 MR. BETZ: Present.
- 8 MS. SHAH: Robbie Boone, Farm Credit Council?
- 9 [No response.]
- 10 MS. SHAH: Layne Carlson, Minneapolis Grain
- 11 Exchange?
- 12 MR. CARLSON: Present.
- 13 MS. SHAH: Robert Chesler, United Dairymen of
- 14 Arizona?
- MR. CHESLER: Present.
- MS. SHAH: Gerry Corcoran, Futures Industry
- 17 Association?
- 18 MR. CORCORAN: Present.
- 19 MS. SHAH: Patrick Coyle, National Grain and
- 20 Feed Association?
- MR. COYLE: Present.
- MS. SHAH: Edward Elfmann, American Bankers

- 1 Association?
- 2 MR. ELFMANN: Present.
- 3 MS. SHAH: Edward Gallagher, National Milk
- 4 Producers Federation?
- 5 MR. GALLAGHER: Present.
- 6 MS. SHAH: Harold Wolle, National Corn Growers
- 7 Association?
- 8 [No response.]
- 9 MS. SHAH: Thomas Hayden, Jr., Commodity
- 10 Markets Council?
- 11 MR. HAYDEN: Present.
- MS. SHAH: Scott Herndon, Field to Market?
- MR. HERNDON: Present.
- 14 MS. SHAH: Thomas Hogan, Cocoa Merchants
- 15 Association of America?
- 16 [No response.]
- 17 MS. SHAH: Jered Hooker, American Soybean
- 18 Association?
- MR. HOOKER: Present.
- 20 MS. SHAH: Bryan Humphreys, National Pork
- 21 Producers Council?
- [No response.]

- 1 MS. SHAH: Willis Kidd, Citadel?
- 2 MR. KIDD: Present.
- 3 MS. SHAH: Jeff Lloyd, Archer Daniels Midland?
- 4 MR. LLOYD: Present.
- 5 MS. SHAH: Michelle Mapes, Green Plains Inc.?
- 6 MS. MAPES: Present.
- 7 MS. SHAH: Mark McHargue, American Farm Bureau
- 8 Federation?
- 9 [No response.]
- 10 MS. SHAH: Erin Morris, USDA?
- 11 [No response.]
- 12 MS. SHAH: Dr. Cynthia Nickerson, USDA?
- DR. NICKERSON: Present.
- 14 MS. SHAH: Edward Prosser, The Scoular
- 15 Company?
- 16 MR. PROSSER: Present.
- 17 MS. SHAH: Michael Ricks, Cargill?
- 18 MR. RICKS: Present.
- MS. SHAH: Ella Rosenberg, International Swaps
- 20 and Derivatives Association?
- [No response.]
- MS. SHAH: Derek Sammann, CME Group?

- 1 [No response.]
- MS. SHAH: Troy Sander, National Cattleman's
- 3 Beef Association?
- 4 MR. SANDER: Present.
- 5 MS. SHAH: Liam Smith, Futures Industry
- 6 Association, Principal Traders Group?
- 7 MR. SMITH: Present.
- 8 MS. SHAH: Stephen Strong, North American
- 9 Export Grain Association?
- 10 MR. STRONG: Present.
- 11 MS. SHAH: Curt Strubhar, Grain and Feed
- 12 Association of Illinois?
- MR. STRUBHAR: Present.
- MS. SHAH: Justin Tupper, U.S. Cattlemen's
- 15 Association?
- 16 MR. TUPPER: Present.
- MS. SHAH: Wes Uhlmeyer, Greenfield Holdings?
- 18 MR. UHLMEYER: Present.
- 19 MS. SHAH: Hayden Wands, American Bakers
- 20 Association?
- 21 [No response.]
- 22 MS. SHAH: Ryan Weston, American Sugar

- 1 Alliance?
- 2 MR. WESTON: Present.
- 3 MS. SHAH: Jason Wheeler, USA Rice Federation?
- 4 MR. WHEELER: Present.
- 5 MS. SHAH: And last but not least, our guest
- 6 speakers, Suzanne Sprague, CME?
- 7 MS. SPRAGUE: Present.
- 8 MS. SHAH: Jeff Reardon, White Commercial
- 9 Corporation?
- 10 MR. REARDON: Present.
- 11 MS. SHAH: Calum Turvey, Cornell University?
- 12 [No response.]
- MS. SHAH: Seth Meyer, USDA?
- [No response.]
- MS. SHAH: Thank you. I will now turn it over
- 16 to Scott.
- 17 MR. HERNDON: All right. Our first panel
- 18 today will provide a discussion on futures
- 19 margining and the impact it has on the agricultural
- 20 markets. We will hear from Suzanne Sprague with
- 21 CME, Jeff Reardon with White Commercial
- 22 Corporation, Joe Barker with the National Council

- 1 of Farmer Cooperatives.
- 2 Suzanne, please begin.
- 3 MS. SPRAGUE: Thank you very much. I'd like
- 4 to thank Chairman Behnam and the Commissioners for
- 5 having me here, so I'll try to keep it brief
- 6 knowing that you're probably tired from yesterday.
- 7 I thought I'd talk a little bit about our
- 8 approach to margin settings, as well as how we've
- 9 managed through periods of increased volatility
- 10 over the past few years for these markets. And
- 11 I'll also echo the comments made previously about
- 12 the importance of these markets to us and globally
- 13 as well. We take our role as a systemically
- 14 important clearinghouse very seriously, and we find
- 15 it very helpful to have discussions with market
- 16 participants and experts in different fields to be
- 17 able to ensure that we're taking all factors into
- 18 account when we set margins. So thank you for the
- 19 open discussion today and welcome any questions and
- 20 dialogue associated with the presentation.
- Just to kick it off, I wanted to remind
- 22 everyone about the importance of a couple of

- 1 fundamental factors that we use to manage risk. So
- 2 on slide 2 -- or slide 6 here for the presentation
- 3 -- I just wanted to give a reminder of especially
- 4 two fundamental tools that we use to manage risk
- 5 everyday as a clearinghouse. That's daily mark-to-
- 6 market. So at least once a day, but for most
- 7 markets and futures and options especially, we do
- 8 mark-to-market twice a day, and that really allows
- 9 us to remove the obligations from the marketplace
- 10 on a twice-a-day basis and ensure that those
- 11 exposures are paid and collected between our
- 12 clearing members and then downstream their clients
- 13 every day to ensure there aren't losses building up
- in the marketplace that could cause bigger issues
- 15 down the line.
- 16 Another fundamental risk management tool that
- 17 we use every day that's very important is what we
- 18 call performance bond or margins, and that is to
- 19 protect against losses that are not paid through
- 20 the mark-to-market process. And that's what I'll
- 21 focus most of the discussion on today is how we go
- 22 about setting margins.

- 1 So moving to the next slide, CME's margin
- 2 methodologies are data-driven and based on largely
- 3 historical information for the markets that we
- 4 clear and what's happened through different periods
- 5 of volatility in the past, as well as forward-
- 6 looking in a sense of taking into account
- 7 fundamentals or qualitative information that may
- 8 not be present in historical data.
- 9 We currently have two margin models that we
- 10 use for futures and options. We're in the process
- 11 of managing or migrating a new margin model. The
- 12 margin model that's been in place to date is called
- 13 SPAN, standard portfolio analysis of risk, and
- 14 we're in the process of migrating to an enhanced
- 15 version of that margin methodology. We call it
- 16 SPAN 2. So I will talk a little bit about the
- 17 benefits of the new margin model in subsequent
- 18 slides, but just wanted to highlight that that
- 19 transition is underway for us, and we have
- 20 currently migrated the energy asset class to SPAN
- 21 2. We are planning to migrate on an asset class
- 22 basis over the next couple of years.

- 1 So regardless of margin methodologies, for us,
- 2 those methodologies are designed to achieve at
- 3 least a 99 percent coverage standard at the
- 4 portfolio levels, ensuring that we have enough
- 5 funds collected in margin to cover our competence
- 6 intervals of 99 percent. And we do measure that
- 7 every day. We call that backtesting. So every
- 8 day, we look at market moves at both the product
- 9 level and the portfolio levels for the clearing
- 10 members that face us directly, and we evaluate what
- 11 the mark-to-market was on that product and that
- 12 portfolio compared to the margin that we had coming
- 13 into the day. And that's how we ensure every day
- 14 that we meet our coverage standard. So that
- 15 process, for example, over the 12 months ending
- 16 third quarter of this year showed that we actually
- 17 achieved a coverage standard of 99.97 percent for
- 18 those futures and options products.
- 19 We also employ tools to mitigate large changes
- 20 in margin, knowing that that can cause a liquidity
- 21 drain on market participants, so we ensure that we
- 22 have adequate coverage at the product and portfolio

- 1 level, but we also use a few mitigating factors to
- 2 make sure that when volatility is low, margins
- 3 don't drop artificially low such that in times of
- 4 volatility spikes, we would then cause a sudden
- 5 spike in margins.
- And slide 7 outlines a few of the factors that
- 7 we use to smooth out that margin-setting process,
- 8 especially for agricultural products. There are
- 9 seasonality factors that we take into account. So
- 10 what has price volatility looked like in a previous
- 11 winter or a previous spring depending on the
- 12 product that we're talking about? We use
- 13 volatility floors to make sure we're looking over a
- 14 longer time frame how low volatility has dropped
- 15 and making sure that we don't go artificially low
- 16 in the margin-setting process, such that a spike in
- 17 volatility could then cause a sudden requirement
- 18 for increased liquidity or collateral to support
- 19 increased margins.
- So I won't go into very much detail about all
- 21 of those specifics, but just keeping in mind that
- 22 the procyclical effect that we can have on the

- 1 marketplace is critical for us to consider. We
- 2 know that the actions that we take can impact the
- 3 broader marketplace, and so we are very cognizant
- 4 of making sure that we don't cause those sudden
- 5 liquidity drains on the market in times of
- 6 increased volatility.
- 7 I'll also just mention event risk is something
- 8 we take into account, so whether it's impending
- 9 weather events or impending geopolitical events,
- 10 that is information that we take into account in
- 11 the margin-setting process that, again, may not be
- 12 present in historical data. We're also looking at
- 13 implied volatility for those markets that have
- 14 active options traded to, to get a sense for where
- 15 the option market might be indicating volatility is
- 16 going.
- 17 So moving on to the next slide then, we are
- 18 focused for all of our margin methodologies and
- 19 being specific about those fundamentals and market-
- 20 unique conditions that need to be taken into
- 21 account when setting margins for various asset
- 22 classes. So this slide really is just meant to

- 1 further detail the way that the margin models
- 2 behave.
- 3 When we look at historical data for a given
- 4 asset class, we are looking at varying weighted
- 5 lookback periods, taking into account things like
- 6 seasonality, longer lookback periods, making sure
- 7 that we're aware of volatility events that may have
- 8 happened in the past that could happen again -- or
- 9 not forgetting the past is another way to think
- 10 about that -- while also keeping in mind that
- 11 volatility changes quite significantly and quickly
- 12 when different events pose risk to the systems. So
- 13 regardless of margin methodology for us, we are
- 14 considering those factors in both the SPAN and the
- 15 SPAN 2 model.
- I'll also just mention, it's important to note
- 17 that the margins that we set are the clearinghouse-
- 18 level margins, and so those are the minimum
- 19 requirements that we charge of clearing members,
- 20 and those are the minimum requirements that
- 21 clearing members need to charge from their clients.
- 22 But they do have the ability to charge additional

- 1 margin, so that's something to keep in mind here,
- 2 too, is clearing members can choose to set margin
- 3 levels higher on different products or portfolios
- 4 as they see fit.
- 5 So I have a few examples of recent volatility
- 6 over the past few years and how that has played out
- 7 in terms of margin coverage for us. So this chart,
- 8 I know, is very busy. It's meant to really depict
- 9 a few different factors. So the light blue lines
- 10 that you see going up and down are the profit and
- 11 loss every day for that corn futures contract in
- 12 the front month, and then the darker blue line that
- 13 you see sort of in the middle of the slide is the
- 14 margin that we've set for that product. And so you
- 15 can get a sense for our backtesting view of how our
- 16 margin model performed for this particular contract
- 17 through periods of increased volatility or
- 18 increased profit and loss.
- The green line is also important, so that's
- 20 the absolute price of the futures contract for corn
- 21 because we do see that as prices change
- 22 significantly, margins need to change to

- 1 accommodate that as well. And so especially when
- 2 you think about the volatility changes and the
- 3 price changes that have happened through Russia's
- 4 invasion of Ukraine, we have seen for a lot of
- 5 commodity markets absolute prices go up in these
- 6 markets, and that also causes margins to increase.
- 7 So here are a couple periods for corn
- 8 standouts. Obviously, the periods around May and
- 9 July of 2021, you can see spikes that were
- 10 occurring on the price side and how we were
- 11 adjusting margins to account for that increased
- 12 volatility. There were not any breaches in that
- 13 period of time, but we did come close to the price
- 14 levels actually starting to increase above margin
- 15 coverage, and so you'll see that in that period of
- 16 time, margins remain high until the volatility
- 17 starts to come down, which is more around the
- 18 September of 2021 time frame. So that's really the
- 19 pattern that we're tracking in addition to margin
- 20 levels with respect to absolute price levels.
- 21 So it's a busy slide, but this is meant to
- 22 give you a picture of what we look at every day,

- 1 and it is common for market participants to look at
- 2 these factors as well. So many of our market
- 3 participants also track the price changes of these
- 4 markets every day and the absolute prices of these
- 5 commodities against margin coverage, and that's a
- 6 dialogue that we engage in on a regular basis with
- 7 the market.
- 8 I have just a few more examples I thought that
- 9 were worth showing in a similar manner, so futures
- 10 is another example of where we've seen significant
- 11 price swings over the last few years. The period
- 12 here of interest mainly is in March of 2022. So
- 13 you can see a breach actually happening where the
- 14 price move did move above the margin level for a
- 15 particular day, and so that causes us to evaluate
- 16 potential margin increases, in which case we did
- 17 make increases around that time period for this
- 18 contract.
- 19 I will note that a breach on its own doesn't
- 20 necessarily mean margins need to increase. The
- 21 coverage standard of 99 percent generally means you
- 22 should expect two or three breaches in a year based

- 1 on the number of trading days. So a breach is not
- 2 unexpected or a bad thing, but it does cause us to
- 3 evaluate if volatility will persist and if market
- 4 conditions have changed for that contract such that
- 5 we need to increase margins to ensure that we
- 6 continue achieving that coverage level of 99
- 7 percent.
- 8 And then the next example that we provide here
- 9 is rough rice. So again, the time periods are
- 10 somewhat different in terms of the volatility
- 11 spikes that we've seen in that contract, but this
- 12 is another example, especially in early to mid-2020
- 13 where we did see a significant change in profit and
- 14 loss on a daily basis or daily price changes for
- 15 the contract that caused us to increase
- 16 requirements around that time frame. And this is
- 17 an example of where hindsight is 20/20, so you will
- 18 see that those increased margin levels did persist
- 19 for a longer period of time due to the implied
- 20 volatility that we were seeing in the marketplace
- 21 and the number of significant price changes that we
- 22 saw day over day.

- 1 So hindsight is 20/20, and that looking at the
- 2 period of volatility that really starts from, let's
- 3 say, September of 2020, and then goes through 2021,
- 4 the levels were coming down slowly, and that's a
- 5 common theme for us as well. We tend to increase
- 6 margins quickly to make sure we achieve that
- 7 coverage standard. Again, we try not to make
- 8 increases in large amounts day over day. We
- 9 generally step those in over multiple days to make
- 10 sure we're not causing liquidity pressures or
- 11 funding pressures on the marketplace. But when we
- 12 bring them down, it does tend to happen somewhat
- 13 more slowly as volatility is persisting and
- 14 potentially decreasing on its lower level, too.
- So this is just an example of where those
- 16 margin levels did remain higher than price changes
- 17 for a period of time due to the amount of
- 18 volatility that we saw in a short period and the
- 19 implied volatility of the options market.
- 20 So then the next slide is just -- the next few
- 21 slides actually are just meant to dive a little bit
- 22 deeper into the new margin methodology that we're

- 1 migrating to. SPAN 2 again is what we call it.
- 2 The process that we use today to set margins in
- 3 SPAN is data-driven, and we use a variety of value-
- 4 at-risk models to inform the levels that we set for
- 5 different products. It's a somewhat more manual
- 6 process for that reason where the data analysis
- 7 happens outside of the model, and we feed those
- 8 inputs into the model to be able to achieve the
- 9 portfolio effects in the margin methodology.
- 10 The benefit of SPAN 2, really one of the
- 11 primary benefits, is it's a more automated model so
- 12 the data is fed on an automated basis, taking that
- 13 manual nature out of the margin methodology-setting
- 14 process itself and allowing us to have fewer
- 15 components that we need to adjust manually if
- 16 factors are indicating that historical data is not
- 17 necessarily the only information that we need to be
- 18 accounting for in setting margins on a forward-
- 19 looking basis.
- 20 So the SPAN 2 margin methodology is more
- 21 automated, and for that reason, margins at the
- 22 product level change on a daily basis. It's not

- 1 necessarily unique to the overall portfolio effect,
- 2 though, because positions likely change on a daily
- 3 basis, too. So whether you're talking about SPAN
- 4 or SPAN 2, it is common to have daily changes at
- 5 the portfolio level to reflect either changes in
- 6 positions or changes in option value.
- 7 The SPAN 2 methodology, similar to SPAN, takes
- 8 into account historical scenarios, as well as what
- 9 we call stress risk or periods of scenarios where
- 10 there might be increased volatility, again, used to
- 11 smooth out the margin-setting process and be able
- 12 to have an anti-procyclical effect on daily
- 13 changes. So we are still very focused on making
- 14 sure there aren't sudden changes day over day even
- 15 with a more automated model.
- 16 And then, in addition to historical and stress
- 17 factors, we also take into account the liquidity
- 18 challenges or concentration factors that might be
- 19 present in a given product or portfolio to make
- 20 sure if we had to liquidate that clearing member's
- 21 portfolio, we would have enough funds to do so even
- 22 beyond any historical or stress price changes that

- 1 we've seen in the marketplace.
- 2 So this is more common where you see, let's
- 3 say, lower open interest in products. We need to
- 4 account for the fact that we may incur additional
- 5 costs if we have liquidation happening in a product
- 6 with lower open interest or a more concentrated
- 7 market participant base.
- 8 And then lastly, I'll just cover on this slide
- 9 the overall migration schedule. So as I mentioned,
- 10 we have already migrated most of our energy
- 11 products to SPAN 2 that completed over a few dates
- 12 in the August and September time frame of this
- 13 year. Our next asset class that we're migrating is
- 14 equities in the first half of next year. We'll
- 15 then cover interest rate and FX products next year,
- 16 and our last asset class will be the agricultural
- 17 products and any remaining products from the other
- 18 asset classes that did not migrate under the
- 19 previous timeline. So our goal is to be fully
- 20 migrated to this new margin model by the end of
- 21 2025.
- It is important to note that we have active

- 1 discussions with market participants about the
- 2 migration process, and so we definitely welcome any
- 3 questions or feedback from this group. Every set
- 4 of market participants is important to that
- 5 migration schedule, and so for us, communication is
- 6 key. And making sure we're accounting for any
- 7 additional factors specific to those asset classes
- 8 is very important.
- 9 So, again, we take that migration process very
- 10 seriously and welcome engagement from you folks as
- 11 well as we think through migrating for that
- 12 process. It is very early days for the
- 13 agricultural markets, but it's never too early to
- 14 start thinking about what factors might need to be
- 15 considered, so we are starting to have those
- 16 discussions about our migration for the
- 17 agricultural products even though we're a few years
- 18 away from that.
- The last slide I thought I'd talk through just
- 20 gives you a picture for one of our energy products
- 21 and how you can think about the difference between
- 22 SPAN and SPAN 2 margins. They're largely in line.

- 1 We do see small increases and decreases at
- 2 portfolio and overall clearing level for those
- 3 changes depending on the directionality of the
- 4 portfolio. But overall, the margins are meant to
- 5 be similar.
- 6 So this is an example that we show for the
- 7 crude contract. The light blue line towards the
- 8 top in the very bottom represents the SPAN 2 margin
- 9 model. The darker blue line represents the SPAN
- 10 margin model, and then the light blue line in the
- 11 middle is the daily price change for that product.
- 12 So here you can see that SPAN and SPAN 2 largely
- 13 track each other in terms of the coverage that's
- 14 provided by those margin models.
- The last thing I'll mention is just the
- 16 importance of transparency, and so many of you may
- 17 be familiar that we post margin levels on our
- 18 website for the major products in the major asset
- 19 classes. We'll continue to do that for SPAN 2. We
- 20 are doing that currently for the energy products.
- 21 And then we do provide a variety of tools that
- 22 customers can use to be able to do margin analysis

- 1 themselves to ensure that for existing portfolios
- 2 or hypothetical portfolios, there's an
- 3 understanding of what the margin levels look like
- 4 for a given product or portfolio.
- 5 So happy to take any questions about margin-
- 6 setting generally or the migration process, and
- 7 I'll otherwise turn it over to my colleague. I
- 8 think you might be up next, right?
- 9 MR. REARDON: Yes, I am.
- 10 MS. SPRAGUE: Yes.
- MR. REARDON: Thank you. Thank you very much.
- 12 Thank you, Commissioner Behnam, and the entire
- 13 Commission. Swati, you did a great job helping us,
- 14 and Scott as well. Thank you so much.
- I work with a company called White Commercial,
- 16 and our role in the market is to work with
- 17 commercial hedgers. So that's all we work with is
- 18 the commercial hedgers, so when the farmers go and
- 19 deliver their grain, they're going to deliver it to
- 20 the commercial hedgers that we work with.
- 21 And specifically, our customer base is on the
- 22 smaller side of the agricultural industry, so what

- 1 you're going to find is our larger companies are
- 2 cooperatives, and so those are farmer-owned
- 3 organizations, and so their main concern in times
- 4 of stress -- and we're talking about initial margin
- 5 today -- is access to capital because they have to,
- 6 they must stay in their hedge positions. And every
- 7 bank that they work with and throughout the entire
- 8 industry, the most important thing to those bankers
- 9 is that we stay hedged.
- 10 So that's my role at White Commercial. I came
- on board about 15 years ago when, if you remember
- 12 in 2008, the commodities markets were a little bit
- 13 volatile as well. And that that's when I came. I
- 14 transitioned from the banking industry into White
- 15 Commercial to help our customers with their banking
- 16 relationships. And I'm a CPA, so naturally, I was
- 17 helping with the mark-to-market that Suzanne was
- 18 talking with as well.
- 19 So that's my role is basically to train the
- 20 lenders, basically our customers, their lenders,
- 21 and their accounting partners on this mark-to-
- 22 market process and help them to access the capital

- 1 that they need.
- 2 So if you're talking about a large co-op, to
- 3 us, it's a small co-op in the marketplace, but the
- 4 initial margins -- if you'll put up the slide, the
- 5 initial margins -- and I'll talk to this -- and our
- 6 slides are exactly opposite from what you just saw,
- 7 so you're going to see the futures price on the
- 8 left side and the initial margin on the right.
- 9 But what our largest customers are, if you go
- 10 through a town and you see a farmer-owned
- 11 cooperative, most likely, the cooperative is going
- 12 to have the town name, okay? So, you know, that's
- 13 a sign that they may be working with White
- 14 Commercial. And the banks that they work with,
- 15 believe it or not, this is going to be a banking
- 16 syndication, so you're going to have Farm Credit is
- 17 most likely going to be one of the leaders there,
- 18 and there'll be multiple banks that work with them.
- 19 Now, those folks are going to understand,
- 20 deeply understand the need for the capital, so part
- 21 of that stress test is going to be this initial
- 22 margin requirement, which I'll talk to in a second.

- 1 Now, the second tranche of our customer base,
- 2 well, they're not going to have the town name most
- 3 likely on their elevator. What they're going to
- 4 have is their name, right, because it's an
- 5 independent, maybe multigenerational company that
- 6 it's, you know, Smith, or whoever their name is, is
- 7 going to be part of that organization.
- 8 Now with them, their banking relationship is
- 9 going to be a little bit different in that it's
- 10 probably going to be a regional bank. It may be
- 11 Farm Credit, but it may be a regional bank that
- 12 they work with. And, you know, for a situation
- 13 like we're looking at -- and I'll talk to -- is,
- 14 you know, by changing the initial margin
- 15 requirement -- and we're talking about rice now,
- 16 not corn, beans, and wheat -- but for rice, if
- 17 you're a rice farmer and you're in Arkansas, we
- 18 changed our initial margin from \$750 basically on
- 19 the right side, all the way up to basically \$3,700,
- 20 so it's a \$3,000 change per contract.
- 21 So for them, you know, like I said, they've
- 22 got their name on the door, you know, they're

- 1 probably looking at about \$1.5-2 million in initial
- 2 margin, you know, so this isn't a small amount, you
- 3 know, to them. And believe me, we need this
- 4 protection in the market. But you can see how
- 5 quickly that the protection was needed. So there's
- 6 a lot of money to anybody, but definitely to our
- 7 customer base.
- 8 And finally, the last tranche of our customer
- 9 is that smaller farmer, and all of them are trying
- 10 to protect against price risk. And when the market
- 11 gets volatile, you know, it could be \$50,000 to
- 12 them or \$100,000, which, once again, it's all
- 13 related to the balance sheet that you have. And in
- 14 that case, that may keep them out of the market,
- 15 right? They may have to go somewhere else other
- 16 than the futures market if it's going to be, you
- 17 know, \$50-100,000 to get in.
- 18 But for our customer base, you know, this is a
- 19 big move, and like you said earlier, it was almost
- 20 unprecedented to see a move this big, but the
- 21 initial margins do affect us. It's money that we
- 22 have to put in. That's our skin in the game. And

- 1 so with our customer base as it is -- and one of my
- 2 associates, Jason Wheeler with the Rice Federation,
- 3 he asked me to come and talk to that because I'm
- 4 intimately involved in the financial structure, you
- 5 know, for that part of the agricultural community.
- 6 But that's why we're here is just to talk
- 7 about that. And, honestly, we had a great
- 8 conversation with the CME, and they're very open
- 9 with, you know, their process. And that's
- 10 something that I'd like to, you know, talk about
- 11 today in the Q&A, so I'm going to go ahead and pass
- 12 my time on to Mr. Barker at CHS.
- MR. BARKER: Hello, can you hear me? Can you
- 14 hear me?
- 15 CHAIRMAN BEHNAM: We got you, Joe.
- MS. SHAH: Yep.
- 17 MR. BARKER: All right. Great. Thank you for
- 18 having a panel on this important topic. I do have
- 19 a couple comments, and then we'll open up for
- 20 questions.
- 21 As many of you know, I'm on this committee as
- 22 a representative of the National Council of Farmer

- 1 Cooperatives. NCFC members are local, regional,
- 2 and national farmer cooperatives consisting of
- 3 nearly 2,000 farmer-owned cooperatives across the
- 4 country that represent the majority of America's
- 5 two million farmers and ranchers around the
- 6 country.
- 7 However, I feel it's important I should point
- 8 out that my main role in the industry is as the
- 9 director and principal of CHS Hedging, a
- 10 cooperative-owned FCM that is a clearing member of
- 11 CME Group and Minneapolis Grain Exchange, and we
- 12 utilize a partner FCM to access most exchanges
- 13 around the world to clear trades. I'll be wearing
- 14 both of these hats as I participate in this
- 15 discussion today.
- Most agricultural firms, whether those are
- 17 producers, private businesses, or cooperatives, use
- 18 futures and options to hedge commodity price risk.
- 19 This requires them to post margin requirements to
- 20 their futures commission merchant. This margin
- 21 requirement is a performance bond on their
- 22 commitment to perform on their positions. For most

- 1 hedgers, this is simply considered a cost of doing
- 2 business, and it's very natural for all
- 3 participants to want to keep these costs as low as
- 4 possible. We should remember, however, the
- 5 important function that marking positions to market
- 6 and keeping an account properly funded plays in
- 7 maintaining the market integrity for all
- 8 participants.
- 9 In futures markets, margin is the amount of
- 10 money that you must deposit to keep on hand with
- 11 your broker or FCM when you open a futures
- 12 position. After the positions are established,
- 13 your positions are mark-to-market daily, and the
- 14 account must be kept above the minimum margin
- 15 requirement. So if the futures positions lose
- 16 money and the mark-to-market balance in the account
- 17 drops below the margin requirement, customers are
- 18 required to send more money back into their account
- 19 to bring back above this requirement. This is true
- 20 for both hedgers and speculators and ensures
- 21 integrity in our exchange-traded markets.
- 22 FCMs have an obligation to know their

- 1 customers and to collect this margin and post this
- 2 margin at the exchange on the customer's behalf.
- 3 The daily mark-to-market process, combined with
- 4 active risk management of having customers meet
- 5 these requirements on our exchange-traded markets
- 6 for both futures and options.
- 7 FCM risk departments deal with this day-to-day
- 8 risk, and they deal with customers who can't meet
- 9 this. We view this liquidity risk of whether
- 10 customers can meet their margins as our true
- 11 "canary in the coal mine." Most accounts are
- 12 opened based on financial statements that can be
- 13 months old, and so the easy way to know whether a
- 14 customer has liquidity to finance their positions
- 15 is whether or not they can perform on their margin
- 16 requirements.
- 17 It's important to note that if an FCM has an
- 18 issue collecting margin from a customer, we still
- 19 have an obligation at the exchange to maintain
- 20 these balances. In this way, FCM serves as a bit
- 21 of a shock absorber to the system.
- It's also important to remember that FCMs have

- 1 capital requirements that ebb and flow with the
- 2 amount of customer funds we have on deposit. So
- 3 when margins go up, this causes the amount of
- 4 customer funds to increase. It also increases our
- 5 capital requirements.
- 6 For industry participants, there are
- 7 alternatives to using futures and options. They
- 8 come with their own set of risks and rewards.
- 9 There are plenty of reasons why market participants
- 10 may choose a tool other than using futures and
- 11 options directly. One of the most common, very
- 12 common is cash contracts. For agricultural
- 13 producers, it's very common for them to use cash
- 14 contracts as their main margining tool, and then
- 15 wherever they're going to deliver their products
- 16 has a futures and options account to manage that
- 17 price risk. This works out great for the grower
- 18 because they can lock in prices, but they are
- 19 setting a delivery location and time. The downside
- 20 of a cash contract is that you have less
- 21 flexibility than when you do your own hedging
- 22 yourself.

- 1 There are also lots of over-the-counter
- 2 products, everything from vanilla, futures
- 3 lookalike swap, to a structured product that can
- 4 blend the advantages of futures and options into
- 5 one product. Some of these OTC products can even
- 6 be embedded in cash contracts so that the
- 7 individual grower or whoever the participant is may
- 8 or may not have to post daily margin because of the
- 9 requirement of the cash contract for them to
- 10 actually physically deliver their products.
- Of course, when you trade an over-the-counter
- 12 product, you are open to the risk of default of the
- 13 counterparty on the other side. Of course, the
- 14 CFTC has taken great steps since Dodd-Frank
- 15 especially to reduce that risk and utilize things
- 16 such as swap data reporting. But unfortunately,
- 17 there are examples from time to time.
- 18 What I want to point out is in the 175 years
- 19 since the Chicago Board of Trade was formed in
- 20 1848, the process of marking positions to market
- 21 and keeping all market participants' accounts
- 22 properly margined has been refined into the smooth

- 1 process that we have today. It is important for
- 2 both market participants, their FCMs, and the
- 3 clearinghouse to continue to refine this process so
- 4 that the system works for everyone in the future.
- 5 Thank you.
- 6 MR. HERNDON: Thank you to the panel members
- 7 for your presentations and remarks. We will now
- 8 open the floor to questions and comments from
- 9 members of the committee regarding your
- 10 presentation.
- 11 For members virtually in attendance as a
- 12 reminder, please use the "raise hand" feature to
- 13 ask a question or use the chat. Jason, sorry?
- MR. WHEELER: Yeah, I wanted to thank the
- 15 Commission and everyone for hearing this. You kind
- 16 of told the rice story. I'm Jason Wheeler with the
- 17 USA Rice Federation, and we consists of farmers,
- 18 merchants, the commercial merchants, and also the
- 19 millers, the end users of rice. And our contract
- 20 is pretty thinly traded. We're constantly trying
- 21 to get better. The risk management that comes
- 22 along with the futures market is a huge benefit to

- 1 agriculture, and so we're always trying to get more
- 2 folks involved in it to manage risk.
- 3 And, like Joe was saying, a lot of small
- 4 farmers, the way they access the futures market is
- 5 not through having a futures account. It's selling
- 6 cash contracts to their local co-op like Jeff
- 7 talked about, and then that co-op uses the futures
- 8 markets.
- 9 And so what we saw in the rice -- which Jeff
- 10 kind of told that story and Suzanne -- is the
- 11 initial margins went way up. And so this was kind
- 12 of the genesis of the Rice Federation wanted to
- 13 discuss this. And so we really appreciate it.
- But what happened is initial margin went way
- 15 up, which it has to. When nobody knew the market
- 16 was going to be going up, limit up several days,
- 17 you know, it was a summer shortage, and price went
- 18 up almost double, and the initial margin went up
- 19 five times. And, you know, it's not just a matter
- 20 of the price; it's a matter of how much limit
- 21 moves. And we have to protect all the
- 22 participants. It's a very good system that

- 1 protects everyone.
- 2 What we saw was -- the real issue that came
- 3 was later, as you can see in some of those charts.
- 4 The initial margins, very responsive on the upside,
- 5 which it has to be to protect the integrity of
- 6 everything, but on the downside, it became -- you
- 7 know, Jeff was talking about the amount of money
- 8 required for these commercials to continue to have
- 9 hedges, right? And so what happened was we got
- 10 through that summer. We grew a very big crop, and
- 11 the volatility was gone. You can see it for
- 12 several months because we grew a big crop, and now
- 13 the supply and demand situation was, you know,
- 14 somewhat solved.
- 15 And what happened was the initial margins took
- 16 a very long time to come back down, and it became a
- 17 problem for these commercials, which is the
- 18 farmers' access to the market, the commercials'
- 19 access to the market, and with a thin market like
- 20 we have, they exited. And farmers did not have
- 21 access. They couldn't sell their new crop because
- 22 the commercials were tapped out of how much money

- 1 they have on the credit lines and all that stuff.
- 2 So it became a problem.
- 3 And I will say the Rice Federation, we ended
- 4 up having a call with the CME Group later. I wish
- 5 we had done it sooner, right? They were glad to
- 6 talk with us, and we really appreciated that. And
- 7 we did have a good conversation of, you know, a lot
- 8 of stuff Suzanne said about how they calculate it
- 9 and why it was still high and everything. But it
- 10 is a bit of a sliding scale, and they consider
- 11 different things. They weight different things
- 12 differently at times of the year for good reasons.
- 13 So we brought some data to him, and maybe we
- 14 should weight it differently, and it ended up
- 15 coming down. But there was a several-month period
- 16 where folks in the rice business didn't have as
- 17 great an opportunity to manage their risk.
- And so, like I said, the CME was extremely
- 19 responsive with us once we talked to them and
- 20 continued to bring it down. So anyway, so we're
- 21 appreciative of that and everything that has
- 22 happened. But we just wanted to tell kind of that

- 1 story. That's what the Rice Federation asked me to
- 2 do is tell that story to you guys of how it works
- 3 and everybody here -- and have the CME talk -- we
- 4 just want -- the Rice Federation wants the CME to
- 5 know how appreciative we are of how they managed
- 6 that and got us through it, but it took some time.
- 7 And so what we want to do is -- we know that
- 8 stuff is going to happen again one day. I mean,
- 9 that's -- you know, one day, the market is going to
- 10 go way up again. And we hope to have learned from
- 11 this. And I know we'll be making that call a lot
- 12 sooner, right? And they're glad to have it.
- Sorry for grandstanding here. I hope it's not
- 14 too long. So it's question time, right? So my
- 15 question is the SPAN 2 that will come, in your
- 16 view, would that be a probably more responsive
- 17 algorithm for -- if a situation like that happened
- 18 again, would it have gone differently or do you
- 19 know? And that's the question.
- 20 MS. SPRAGUE: Yeah, good question. Thank you
- 21 for the dialogue. We, as I mentioned before, learn
- 22 a lot from talking to customers. It's a very

- 1 important part of our job every day. It's
- 2 something that you don't get on an automated basis,
- 3 and so I like to think about that's why we're all
- 4 here and not robots. It's very important to stay
- 5 in touch with different market participants and
- 6 make sure we're having open communication about
- 7 what we don't see as well. So we appreciate you
- 8 reaching out to do that and encourage everyone to
- 9 do that in the future as well.
- 10 SPAN 2 is meant to be a more automated model
- 11 that would be more sensitive to changes on a
- 12 quicker basis. We do use smoothing effects in that
- 13 model, too, so we, again, don't want to have sudden
- 14 spikes really in either direction that would be
- 15 premature to miss volatility that's still present
- 16 in the marketplace. But it is a more reactive
- 17 model based on the automated nature. So we would
- 18 anticipate in a circumstance such as this that it
- 19 would have been declining more steadily and perhaps
- 20 more quickly than the manual nature of how we
- 21 manage the SPAN model today.
- MR. HERNDON: Great. And we had Troy Sander

- 1 raised his hand virtually. So Troy, are you ready
- 2 to ask your question?
- 3 MR. SANDER: Yes, Troy Sander with National
- 4 Cattlemen's Beef Association. My question is
- 5 probably for Ms. Sprague and also for the CFTC
- 6 folks as well. There's been much talk and
- 7 speculation about LRPs, livestock risk protection
- 8 policies, as a cause for increased volatility in
- 9 the feeder cattle and live cattle futures market.
- 10 Can you speak to the oversight by CME concerning
- 11 these products?
- 12 MS. SPRAGUE: So in terms of those cattle
- 13 products generally, the process would be similar in
- 14 terms of the information that we take into account
- 15 for margin setting. There were references to price
- 16 limits, and many of these products do have limits
- 17 in place that we are monitoring on a daily basis in
- 18 terms of how volatility might be reacting to
- 19 certain policy changes. We generally also take
- 20 into account for those markets where options are
- 21 active, that the options can indicate prices moving
- 22 beyond the limits, and so those can come into play

- 1 in having margins be higher than the absolute daily
- 2 limit.
- But I must admit, I'm not intimately familiar
- 4 with the specific change that you referenced. I
- 5 don't know if anybody from the CFTC wanted to cover
- 6 that as well.
- 7 CHAIRMAN BEHNAM: I mean, no, not
- 8 specifically, but like we certainly are following
- 9 the policy changes certainly at USDA and otherwise,
- 10 to see what we would need to do. But really, this
- 11 is more of a commercial decision in changes that
- 12 would need to be made.
- MS. SPRAGUE: Does that help or did you want
- 14 to have a further dialogue just with more
- 15 background information that I could help with?
- 16 MR. SANDER: No, thank you. I think that
- 17 helps. Thank you.
- 18 MS. SPRAGUE: Okay.
- MR. HERNDON: All right. We had another
- 20 question from Ed Gallagher.
- MR. GALLAGHER: Good morning. Ed Gallagher
- 22 with the National Milk Producers Federation and

- 1 Dairy Farmers of America.
- 2 Jeff, question for you, relative to your work
- 3 in helping the smaller cooperatives fund their
- 4 margin accounts and working with farmers, do you
- 5 see that as the CME migrates to SPAN 2 an easier
- 6 ability to fund more challenging or about the same?
- 7 MR. REARDON: It's hard for me to say. As you
- 8 move in that direction, from what I'm hearing, I
- 9 believe that it's going to be easier because what
- 10 we're looking for -- we need access to capital, as
- 11 you said, and it's talking to the banks. And if we
- 12 have a little more time to get the money to -- what
- 13 needs to be clear, I think, to everybody is that if
- 14 the money doesn't hit the account the day that this
- 15 changes, they're forced out of the position. So in
- 16 order -- and we must keep positions as hedgers. So
- 17 I do believe it's going to work better, but I
- 18 haven't seen it, so I don't know.
- 19 My job is to communicate and help educate the
- 20 bankers and CPAs on what we're actually doing to
- 21 access that capital. So it sounds like we're going
- 22 to have more transparency, so that will make my job

- 1 easier.
- 2 MR. GALLAGHER: Thank you.
- 3 MR. HERNDON: Gerry?
- 4 MR. CORCORAN: Hey, good morning, and thanks
- 5 to everybody. I really have more of just some
- 6 general comments than any questions to anyone, and
- 7 thanks for the presentations.
- 8 So I represent the Futures Industry
- 9 Association, but as most of you know, I'm also the
- 10 CEO of R.J. O'Brien & Associates, been around a lot
- 11 longer than I like to think, but it's the case that
- 12 I've been through incredible market swings over the
- 13 years and have experienced all of the things that
- 14 folks I've spoken about have been worried about
- 15 over the years.
- I do endorse the FIA best practice paper that
- 17 related to exchange volatility and the control
- 18 mechanism, which is some part asks the exchanges to
- 19 keep a higher minimum exchange margin requirement
- 20 for customers to help offset potential spikes to
- 21 the upside.
- Now, when it comes to agriculture, you know,

- 1 higher margins means higher cost to the farmer and
- 2 the producer because, in some part, their
- 3 operations are, you know, funded by debt, and of
- 4 course, higher margins means more debt and more
- 5 cost. So it increases the underlying cost of the
- 6 agricultural product in some ways.
- 7 However, it's hard to thread the needle on the
- 8 risk related to the stress events that occur. As
- 9 an FCM -- and Joe has already spoken to this -- you
- 10 know, we become the shock absorber between the
- 11 customer and the exchange. We meet that margin
- 12 when the exchange debits our account, and, you
- 13 know, it's up to us to make sure the customers meet
- 14 their margins. And overwhelmingly, the customers
- 15 do.
- 16 It's the difficult times for agricultural
- 17 producers, probably medium and smaller, smaller-
- 18 size ag producers, who I think in aggregate are
- 19 very important to the U.S. economy that gets
- 20 squeezed, that their bankers aren't prepared for
- 21 these types of up moves, and it takes them time to
- 22 get their lines extended and opened. And this is

- 1 when, you know, experienced FCMs like CHS, RJO,
- 2 others in the ag space understand this and can work
- 3 with bankers and provide some time.
- 4 So, you know, it's a very delicate balance in
- 5 this industry between, you know, having the higher
- 6 margins that protect the exchange, the system,
- 7 reduce liquidity crunch during high periods of
- 8 volatility, but don't hurt the U.S. farmer that has
- 9 to provide the food for the nation, and in some
- 10 cases, the world.
- 11 So those are just comments to absorb. I'm
- 12 happy to talk to anybody on the side. You know,
- 13 Jeff and White Commercial is one of the top firms
- 14 in the industry. They know their business, and
- 15 they do it well. And what I reinforce and what
- 16 Jeff has been saying is those hedges can't be blown
- 17 out. FCMs have a very responsible obligation to
- 18 work with their customers to protect those
- 19 positions in times when the bankers are making
- 20 decisions to extend the lines and provide more
- 21 liquidity to the farmers.
- 22 As far as SPAN 2 goes, I also have a lot of

- 1 experience with that. RJO as a clearing firm has
- 2 now implemented SPAN 2 in the energy segment. We
- 3 think it's a better product. I think, you know,
- 4 how it's going to perform in volatile periods of
- 5 time is -- you know, there's plenty of models that
- 6 say it's going to be fine, but we'd like to see
- 7 what happens with it.
- 8 One of the comments we're getting back on SPAN
- 9 2 is since it does have daily changes in margins,
- 10 customers are perplexed by this. I didn't change
- 11 my position overnight, but now I'm on a margin
- 12 call. And that is taking some adjustment for
- 13 customers to come to grips with that.
- Now, Suzanne, you mentioned that it's not -- I
- 15 don't know -- I don't want to put words in your
- 16 mouth, but you referred to, you know, positions
- 17 change daily and things like that, and so customers
- 18 are used to daily changes in margins. Not always.
- 19 You know, a hedger has a position on -- might have
- 20 a position on for three months, but the margin
- 21 requirement is changing every day. So it's a
- 22 change of behavior for the customer and their bank

- 1 to become familiar with that.
- Overall, and in time when everyone becomes
- 3 accustomed to it, I think it will make the market
- 4 safer. So it's not meant to be critical of SPAN 2,
- 5 but there's going to be adjustments that the farmer
- 6 and their bankers are going to have to become
- 7 accustomed to.
- 8 And those are my comments. I hope you find
- 9 them productive, and I'm happy to take any
- 10 questions as well.
- MR. HERNDON: Are there any further questions
- 12 from committee members?
- 13 MR. WESTON: Thanks, Scott. Ryan Westen,
- 14 American Sugar Alliance. And I just want to note,
- 15 I really appreciate it. It's so important, the
- 16 integrity of the system. Our particular industry,
- 17 we do not have a lot of margin products on crop
- 18 insurance revenue side, so the raw sugar market is
- 19 very important to us.
- 20 And I just would say a lot of the prices, the
- 21 input prices we're dealing with have been much
- 22 stickier, I think, than most of us thought. The

- 1 fertilizers, the fuels, labor, these things are
- 2 staying really high. And so these future prices
- 3 that we're falling back on, if it's the cash price,
- 4 it's the cooperatives, they're about as important
- 5 as they've ever been.
- And, you know, there has to be tweaks all
- 7 along the way, and, you know, our individual
- 8 farmers, they do have to work because we have to
- 9 turn the cane or the beets into sugar to have a
- 10 product. So the ability to hedge and for it to be
- 11 efficient is really important.
- We're running into the problems, you know,
- 13 weather. There's a huge drought in Texas, and even
- 14 Louisiana was impacted. All of these things, as
- 15 you're looking at these markets, they're not huge
- in the grand scheme of things, but they're very
- 17 huge to us. Mexico owes the United States 700,000
- 18 acre-feet of water in Texas. You know, that's a
- 19 State Department issue. It's nothing that the
- 20 Commission can deal with, but these are huge issues
- 21 for us, and these things need to be done because it
- 22 affects sugar, it affects cotton down there, a

- 1 little bit of rice, citrus, all these other things.
- 2 So I just want to say we appreciate -- we know
- 3 how hard the Commission works with all the
- 4 regulated entities, and we know how hard the
- 5 exchanges work. These things are vitally
- 6 important, that they're cost-efficient, you can
- 7 count on them. It's one of the only things we have
- 8 in our industry, and we have to use derivative of
- 9 the raw to figure out what to actually pay for our
- 10 refined because we don't have a refined market
- 11 contract in the United States.
- So I just wanted to thank you all. I know
- 13 these conversations, they usually only happen when
- 14 things are going really badly and everybody's mad,
- 15 so I like that the conversation is happening right
- 16 now as we're looking at it. I appreciate it.
- MR. HERNDON: Mr. Strubhar?
- 18 MR. STRUBHAR: Thank you. Thanks to the
- 19 Commission and the panelists. That's a valuable
- 20 topic.
- 21 A question I had is more oriented on timing of
- 22 margin. And, you know, our standard practice in

- 1 the commercial hedging industry is T plus one,
- 2 right, that this morning we were making margin
- 3 calls for yesterday's activity or sending excess
- 4 based on yesterday's. In volatile times, like the
- 5 March of 2022 instance that you brought up, you
- 6 know, the FCMs that we work with tend to have a
- 7 policy of an intraday margin call if a certain
- 8 level of margin is breached, be that \$1 million, \$5
- 9 million at the commercial hedging level. And that
- 10 intraday margin call could be the opposite
- 11 direction to a margin move that had already been
- 12 made T plus one for yesterday's activity, and it
- 13 can get a bit onerous.
- And I guess my question, whether it's SPAN 2
- 15 or any other initiatives, it seems the ideal
- 16 scenario would be to get to a T-zero margining
- 17 policy as a general practice anyway, but there's a
- 18 challenge with a 1:15 market closed and a 3:00 p.m.
- 19 banking cut off for the same day. And I quess kind
- 20 of open-ended, can you speak at all towards any
- 21 initiative to get to a T-zero margining policy as a
- 22 regular practice?

- 1 MS. SPRAGUE: Yeah, it's a good question, and
- 2 there's a lot of talk in the industry about
- 3 enhancements to technology that provide real-time
- 4 capabilities, and we do look at those technologies
- 5 from a few different applications.
- I think the thing to keep in mind, though, is
- 7 we like to think about on-demand capabilities more
- 8 than real-time capabilities because markets move,
- 9 you know, constantly. And so I don't think we need
- 10 to get to a place where wires are going back and
- 11 forth on a real-time basis. We all have our own
- 12 investment accounts. I can't imagine your 401(k)
- 13 account getting hit several hundred times a day
- 14 with wires because markets were moving throughout
- 15 the day.
- So we are very thoughtful when we consider
- 17 enhancements that might benefit the industry, and
- 18 we want to take into account the chain reaction
- 19 that our actions or migration might have, and so I
- 20 think we've heard a lot of discussion here about
- 21 the complexities of the actual end users and
- 22 multiple players and their chains that provide very

- 1 important roles and functions, and in many ways,
- 2 those are funding functions. But that places
- 3 stress and then the drain on a different set of
- 4 market participants.
- 5 So it gets tricky to think about. We
- 6 certainly as a clearinghouse manage T-zero process
- 7 for the intraday cycle, and it's quite a tight
- 8 timeline, so the clearing members have about an
- 9 hour to meet the intraday cycle for us for both
- 10 mark-to-market and margin. And banks play a very
- 11 important role in that process, too. But we are
- 12 cognizant that the way that money moves throughout
- 13 the chain isn't necessarily set up to be a T-zero
- 14 process today.
- 15 And we do hear from different market
- 16 participants -- farmers, for example -- who are
- 17 harvesting during the day and not capable of
- 18 meeting real-time or more T-zero requirements. So
- 19 what that really would mean is more money put up in
- 20 advance, which can place a different level of
- 21 stress on the marketplace. If you have more
- 22 prefunding, somebody else just pays for it at some

- 1 point in time is the struggle.
- 2 So we are hopeful that technology advancements
- 3 can help the entire chain at some point in time,
- 4 but it gets tricky to think about the right
- 5 solution and all of the changes that would happen
- 6 as a result of that to who the funding requirement
- 7 shifts to and their ability to manage that.
- 8 So it's a great question and important to
- 9 think about. Having the dialogue with a group of
- 10 folks like this is part of the process and very
- 11 important to us, so we're always open to doing
- 12 things differently and better if you see an
- 13 opportunity.
- And I'm aware that there are different types
- 15 of technology that different institutions are
- 16 considering using that may facilitate better
- 17 movement of value and faster movement of value, but
- 18 that money comes from somewhere, and so that
- 19 funding risk shifts accordingly. And, you know,
- 20 we're not agnostic to that because we understand
- 21 that that can place additional pressures on a
- 22 different part of the system.

- 1 MR. HERNDON: Mr. Barker, did you still want
- 2 to ask a question?
- 3 MR. BARKER: I was just going to comment on
- 4 that as far as market access goes. The larger
- 5 entities that we work with, whether those are
- 6 cooperatives or private businesses, can easily meet
- 7 an intraday margin call in almost every case.
- 8 But as we think about the individual grower
- 9 or, you know, individual market participants as a
- 10 whole, we need to be thoughtful if we were to
- 11 change to a T-plus-zero. Of course, they're
- 12 expected to but, like we said, the FCM serves as a
- 13 bit of a shock absorber, and so at times, we have
- 14 to meet margin calls by 11:00 a.m., for example.
- 15 Those wires may not come in till 3:00, and that's
- 16 what residual interest is used for on an FCM level.
- 17 And so I just think we should be thoughtful before
- 18 we would make some sort of change like that.
- 19 MR. HERNDON: Thank you.
- 20 Do we have any questions or comments from any
- 21 of the Commissioners?
- 22 COMMISSIONER MERSINGER: I had a quick

- 1 question, and this might be pretty basic, but going
- 2 back to the slide that Mr. Reardon had up, if you
- 3 were to overlay the slide that CME's margin calls,
- 4 I mean, does that exactly match up? And I guess my
- 5 question is, the initial margin that you showed in
- 6 that slide, is that all the margin model from the
- 7 clearinghouse, or is that also another layer of
- 8 initial margin that might be coming directly --
- 9 that might be part of what the FCM is requesting?
- This is just a question I struggle with a lot
- 11 is, you know, when an end user is putting up
- 12 initial margin, who's setting that price? Because
- 13 I think there might be --sometimes there's maybe a
- 14 disconnect that it's not always what the
- 15 clearinghouse is charging. It might be a different
- 16 calculation based on, you know, the FCM, as Joe
- 17 explained, you know, being the shock absorber here.
- So I'm just curious, when you look at that
- 19 slide, if that initial margin is based on CME's
- 20 initial margin in that contract or if it's adding
- 21 in additional calculations from the FCM.
- MR. REARDON: Yeah, it's exactly what the CME

- 1 margin is, and it's just set up, you know --
- 2 COMMISSIONER MERSINGER: Yeah.
- 3 MR. REARDON: -- on a different side.
- 4 COMMISSIONER MERSINGER: Thank you. That's
- 5 helpful.
- 6 MR. REARDON: You're welcome. Thank you.
- 7 MR. HERNDON: All right. For our second
- 8 presentation today, we will now hear from Professor
- 9 Calum Turvey with Cornell University. And I'd like
- 10 to give a special thanks to Alan Martinez with
- 11 Cornell who is not on the agenda but was
- 12 instrumental in setting this up.
- 13 Professor Turvey, please begin.
- DR. TURVEY: Thank you very much. Is my
- 15 slideshow going to be through your screen, or am I
- 16 going to just use my own sharing?
- MR. HERNDON: We can advance for you.
- DR. TURVEY: Okay, good. Good.
- 19 So this work, as you can see by the title,
- 20 from the academic side, I was teaching futures and
- 21 options. I teach the undergraduate futures and
- 22 options class at Cornell University. And the war

- 1 broke out in February of 2022, and I had to explain
- 2 to my students what was going on with wheat
- 3 markets. We then followed that through, and I put
- 4 a master's student on it, to really try to find out
- 5 what was going on in this due to war. There was no
- 6 literature on what the impact of war and conflict
- 7 is on futures prices.
- 8 And here we had a very unique situation where
- 9 we saw an immediate reaction with wheat futures
- 10 prices, but there are also two other contracts.
- 11 There's the Black Sea futures contract, which is
- 12 generally Russia-imported wheat, cash-settled, and
- 13 then there's a Ukrainian futures contract, which is
- 14 Ukrainian ports, cash-settled.
- 15 At the time of the war outbreak, I tried to
- 16 explain these markets. You know, is it going to be
- 17 a long war or a short war? Why has the market gone
- 18 up by, you know, 33 percent from \$8 to around \$11
- 19 prices of wheat and explaining that in such times
- 20 people have to guess. You know, were they going to
- 21 take Kyiv in three days or four days, or was it
- 22 going to be a prolonged war? The political risk,

- 1 the market risk, trade risk, financial risk,
- 2 currency risks, all of these things have forces
- 3 which are going to affect these futures contracts,
- 4 even though they are all in U.S. dollar
- 5 denominations.
- 6 Next slide, please.
- 7 So we started looking at this complex between
- 8 the CME futures prices, Ukrainian wheat futures
- 9 prices, and Black Sea wheat futures prices. We
- 10 have to recognize in order to understand what's
- 11 going on here that we just couldn't think about
- 12 this as an exogenous shock that's going to be
- 13 short-run and students, hedgers can trade on it on
- 14 a very simple basis.
- The wheat markets are globally linked through
- 16 special trade relationships, as well as local
- 17 supply-and-demand conditions and shipping costs.
- 18 What was the relationships and the information flow
- 19 between the futures prices before the war? How are
- 20 these three markets cointegrated with each other?
- 21 How did they move together? What are the patterns
- 22 or the direction flows of influence between these

- 1 markets?
- 2 And what do I mean by that? Does the supply
- 3 conditions and demand conditions in Ukraine affect
- 4 the wheat prices in Chicago? Or are the wheat
- 5 prices in Chicago determining what the local prices
- 6 are at Ukrainian ports, and so on? And so we had
- 7 this sort of very complex structure where, as the
- 8 war broke out, there had to be readjustments in the
- 9 global wheat supply and the trading economy.
- 10 And the big question is how did these
- 11 relationships change as the result of the war? And
- 12 this question had come up with the trade war on
- 13 soybean prices with the Chinese blockade on that
- 14 period, and what we found then was, as the blockade
- 15 increased, there is a complete disconnect between
- 16 the Chicago price and the Dalian price of soybeans.
- 17 And we wanted to see whether or not we can make
- 18 some determination here also as to what this
- 19 particular conflict would have on these prices.
- Next slide, please.
- 21 The only paper we really found on this was one
- 22 by Holbrook Working. And you might know Holbrook

- 1 Working, sort of the father of storage economics
- 2 when it comes to futures prices on that. And he
- 3 wrote in 1941 warning individuals and scholars who
- 4 might be looking at the impact of the war on prices
- 5 to sit back and you can't just look at what's
- 6 happening to the prices instantaneous and
- 7 contemporaneously with the news events of the day,
- 8 that you have to look at it in the context of what
- 9 was going on in global markets before the war and
- 10 then during the war.
- 11 For example, we're just coming out of COVID.
- 12 There were still supply chain problems, bringing
- 13 supplies into the United States. There was still
- 14 marketing problems and so on to do that. And so
- 15 there were changes in terms of the patterns of
- 16 demand and supply in importing countries. With the
- 17 high prices of wheat, countries that normally would
- 18 import would then use their own stocks and draw
- 19 down their own stocks rather than pay the higher
- 20 price, which was shifting the demand nature of
- 21 wheat from these countries as well.
- There are also countries that have different

- 1 inelasticities. If you're looking at North Africa,
- 2 African countries that have no domestic supply of
- 3 wheat or very limited supplies of wheat, the
- 4 necessity of wheat would suggest that their demand
- 5 is going to be much more highly inelastic. So the
- 6 price shock in those countries would be much more
- 7 significant. So all of these things we thought
- 8 we'd better sort of take a look at in this very
- 9 rare circumstance of conflict.
- 10 Next slide, please.
- 11 So Ukrainian agriculture, it is a very large
- 12 wheat-growing area in in Europe, the breadbasket of
- 13 Europe some have called it before. Most of
- 14 Ukrainian land is arable, and agriculture provides
- 15 about 14 percent of Ukraine's population. And it's
- 16 also a very important exporter. Now, the global
- 17 exporters are not huge relative to, say, the United
- 18 States and Canada, but in the markets that it does
- 19 export to, it's a very significant player in the
- 20 world market.
- Next, please.
- 22 Here is the study period. So this is from a

- 1 bar chart, and you can see the three prices. The
- 2 black is the Chicago, the orange is the Black Sea
- 3 wheat price, and the blue is the Ukrainian wheat
- 4 prices. And we're interested in these movements
- 5 before the war and then during the active war
- 6 period. And you can see there's two lines, the
- 7 study period and the prewar period. We ended at
- 8 the two-year anniversary of the war -- the one-year
- 9 anniversary in 2023.
- 10 But then there's an epilogue in the paper if
- 11 you want to take a look at that where, again,
- 12 things changed again with a different sort of
- 13 dynamic between these three futures prices from
- 14 that. So our study where we're looking at these
- 15 causalities and these relationships is really to
- 16 where the second vertical line is at. We did not
- 17 study beyond that, and beyond that, of course,
- 18 there were differences and changes in the field as
- 19 well.
- Next slide, please.
- 21 These next few slides are just illustrating
- 22 sort of what the markets were thinking. Here's the

- 1 March 7 title, "wheat prices soar to trigger
- 2 trading halt for fifth straight day, surging nearly
- 3 50 percent" since that. From a teaching point of
- 4 view, of course, I was able to then illustrate what
- 5 a trading halt was. It's a rare thing. We don't
- 6 see that very often and don't often quote it.
- 7 Next slide, please.
- 8 Here is what the outlook is, so, again, this
- 9 is 2022. Everybody's trying to second-guess what's
- 10 going to happen on the ground. The beginning of
- 11 the war saw troop movements from Belarus and from
- 12 the Kharkiv area towards Kyiv, right? And then
- 13 that shifted to the south and the east, which
- 14 changed the dynamics of the war, heading right into
- 15 the higher wheat growing areas.
- 16 Next slide, please.
- 17 Also, throughout this time, we cannot forget
- 18 about what's happening in the Black Sea and the
- 19 blockade of the Black Sea. So these are two things
- 20 that become very, very important in terms of trying
- 21 to understand the prices. And now all we can
- 22 really look at in terms of causality is the event

- 1 analysis when these events took place and tried to
- 2 break it down into sort of discrete moments in time
- 3 where there were major events, not just small
- 4 battlefield events, but major trade events that
- 5 would do that.
- 6 But there's two things. One is the blockade
- 7 in the Black Sea and the flow of wheat from
- 8 Ukrainian ports to destinations, but the other one
- 9 came when insurers decided that they're not going
- 10 to insure any freight going through the Black Sea,
- 11 which is going to have a huge impact on the
- 12 transportation costs, particularly when the futures
- 13 contracts, the Ukrainian and Black Sea futures
- 14 contracts are cash-settled and shipments are free
- 15 on board. Then what happens to those costs and who
- 16 pays those costs starts affecting what that freight
- 17 market looks like and so on.
- 18 Next slide, please.
- 19 And here is the food security. Swati asked me
- 20 to sort of mention this a little bit, although it's
- 21 not too much, but there were some serious concerns
- 22 about importing countries, particularly North

- 1 Africa and Africa, which had strong dependency on
- 2 Ukrainian wheat, and also, as I said, perhaps a
- 3 higher or more inelastic demand so that the prices
- 4 were really quite severely affected there. But
- 5 even within the combat zone within Ukraine, the
- 6 seeded acres would be reduced, port elevators were
- 7 destroyed, rising costs of inputs such as nitrogen,
- 8 migration as people fled the battle zones, the
- 9 theft of agricultural equipment, destroyed source
- 10 facilities, and of course the blockade itself, all
- 11 of these things affecting agricultural productivity
- 12 into 2022, 2023, and perhaps 2024.
- 13 Next slide, please. Right.
- So trying to understand the economics of war
- 15 is not just a very simple a war broke out, and the
- 16 prices of wheat went up and then the prices of
- 17 wheat went down. Commodities are global, and
- 18 markets tend to adjust to conflicts. And we saw
- 19 quite a bit of that. We saw Canada and the United
- 20 States beef up and start releasing supply.
- 21 President Biden said you can replace land in
- 22 conservation if you were to plant it to wheat,

- 1 right? The global markets moved in order to
- 2 increase the supply to Ukrainian export markets
- 3 that would be in short supply to try to stave off
- 4 some of the food security concerns that can do
- 5 that.
- 6 There's also multiple commodity effects, and
- 7 we only looked at the wheat complex, but of course,
- 8 naturally, natural gas, oil, and things like that
- 9 also were impacted, as well as other export crops
- 10 from Ukraine and Russia. And so we did have these
- 11 changes in global supply because of the blockades,
- 12 because of supply in the conflict zones, and of
- 13 course the trade effects of supply-and-demand
- 14 response.
- 15 Next slide, please.
- So here's sort of a quick chronology of some
- 17 major events that we looked at or we were
- 18 considering as we were looking through these. So
- 19 the first period you can see -- and these are the
- 20 bases, so this the difference between the Chicago
- 21 price and the Ukrainian landed price all in common
- 22 units. From that, you can see that the prices

- 1 before the war, they were sort of moving together
- 2 from that. Then, as the war broke out, then we saw
- 3 huge basis changes between the three different
- 4 contracts or the two Black Sea contracts and
- 5 Commonwealth Exhibit, okay? We then had the
- 6 blockade, the period at which Turkey started
- 7 negotiating the Black Sea agreement. Then, we see
- 8 the Black Sea agreement at line C, and then the
- 9 renewal in November of 2022, the renewal in 2023,
- 10 and then July 17, which was after our study period,
- 11 you can see again the impacts when the Black Sea
- 12 agreement was canceled, which then again put risk
- 13 into the shipment of freight through the Black Sea
- 14 and Turkey.
- 15 Next slide, please.
- 16 Here is the Ukrainian wheat production. If
- 17 you look at the map -- I can't point it out because
- 18 I don't have control -- but the main battle zone
- 19 right now in Lugansk, Donetsk, down through Kherson
- 20 and Kharkiv area. So the battle moves from the
- 21 Kyiv area down to this heavily grown wheat area,
- 22 and that's where the battlelines are drawn just

- 1 along the border lines really up Donetsk, Kharkiv,
- 2 and so on.
- 3 Next slide, please.
- 4 Here are four slides, and I do apologize for
- 5 them being dark. This is provided by OneSoil,
- 6 which looks at satellite imagery on a field basis,
- 7 and they were kind enough to provide me these
- 8 graphs because I wanted to get an idea of what was
- 9 happening on the ground between 2020, 2021, 2022,
- 10 and 2023. And you can see the top two are 2020.
- 11 You're looking at the lighted areas there. Those
- 12 are the areas which are planted to wheat at the
- 13 field level.
- In 2022 you don't see a lot of difference only
- 15 because it was mostly winter wheat, and so it was
- 16 still in the ground even as the battle goes.
- 17 And then in the bottom right you can see where
- 18 the effect is. You can see that that brightness
- 19 has now disappeared, and you can almost see on that
- 20 from the lower right through the Kherson area you
- 21 can see almost blacking out as farmers abandon
- 22 those fields or the fields were mined or the fields

- 1 were bombed and no longer arable for the wheat
- 2 production.
- 3 And you can just sort of see that black line
- 4 which goes along the border from Donetsk through
- 5 Kherson in the east and the south, which is where
- 6 the battlelines are drawn and where the battlelines
- 7 are to this date affecting and splitting the two
- 8 wheat markets. But even to the north of the
- 9 battlelines, you can see that quite a few of the
- 10 lands have been apparently abandoned to wheat. So
- 11 again, here's the impact of war on domestic supply.
- 12 Next slide, please.
- 13 So the effects of supply restrictions
- 14 increases price in trading countries, increases
- 15 domestic demand prices and decreased domestic
- 16 supply trade. All of these things have feedback
- 17 loops into the three futures contracts from that.
- 18 The effect of the Black Sea blockade from an
- 19 economic, it increases the prices of importing
- 20 countries reducing export demand, increases the
- 21 supply in Ukraine reducing Ukrainian prices, and
- 22 increases the domestic demand in Ukraine with lower

- 1 prices. So there are domestic and external
- 2 dampening effects.
- 3 Transportation costs, which I think are
- 4 probably the most important in terms of these
- 5 prices, that the transportation costs rise with the
- 6 risk and insurability, and once they remove the
- 7 insurance, then of course the risks have to be
- 8 borne by the shippers, and then that's going to
- 9 increase the cost. And seeing as there's no way to
- 10 transfer that into world markets and world prices,
- 11 then those prices and risks have to be borne by the
- 12 Ukrainian warehouses and shippers, putting lower
- 13 pressure on the FOB price in Ukraine. So all of
- 14 these things are affecting what the prices are
- 15 going to be.
- 16 Next slide, please.
- 17 What we did -- and I certainly can't go
- 18 through all of the regressions that we ran, but we
- 19 ran what we called vector autoregression or
- 20 cointegration analysis for multiple periods
- 21 throughout the war. We looked at it from a base
- 22 starting six weeks or March 2021, and then just

- 1 extended our analysis to see, as we added on six-
- 2 month periods, how did the price change as the war
- 3 hit in February 2022 and then throughout February
- 4 2023? So just elongating beginning that period and
- 5 seeing, on average, how did it change.
- 6 Then we also looked at how these price
- 7 relationships were in six-month increments,
- 8 starting in March to November of 2022, April to
- 9 December, and so on as we lead up to the war so we
- 10 can see what the more impactful or the more closer
- 11 to the war, how were prices affected. And what we
- 12 were looking for were the changes in the causal
- 13 relationships and the statistical relationships
- 14 between the three futures contracts.
- 15 Again, the paper has many, many regressions,
- 16 so I'm just going to provide a quick overview
- 17 because I just don't -- I'm probably running out of
- 18 time as it is.
- 19 Next slide, please.
- 20 So here's a picture of the correlations
- 21 between the prices. On the left are the level
- 22 prices, and you can see the correlation is about

- 1 84, 82, 95 between the three contracts when looked
- 2 at the levels prices, that is U.S. dollars per
- 3 bushel. You can see that in the war period,
- 4 February 24 to February 28, 2023, those prices sort
- 5 of move together.
- 6 The period -- the post-war study, which also
- 7 included the abandonment of the Black Sea
- 8 agreement, you can see then a huge breakdown in the
- 9 correlation in prices almost as if the Black Sea
- 10 and the Ukrainian futures prices were moving
- 11 independently of the CME prices.
- 12 The right-hand side are looking at the
- 13 percentage changes, so these are capturing these
- 14 local effects on that. And again, you can see what
- 15 the effect is, that there are things -- even though
- 16 the general price movements are there, there are
- 17 things that affect -- the prices change. So if
- 18 there's a price change in Ukraine and a price
- 19 change in Chicago or a price change in Russia, it
- 20 doesn't mean they're the same effect, right? The
- 21 general movements are there, but there's also other
- 22 things affecting those markets.

- 1 But look at the third one down in that post-
- 2 study area where the correlations in the price
- 3 relationships absolutely completely collapsed. So
- 4 in this period we just saw no relationship between
- 5 the three prices. And then it sort of returned
- 6 once there was stability brought back into the
- 7 Black Sea era.
- 8 Next slide, please.
- 9 So here's sort of what we found. We found
- 10 that, prewar, we saw that Black Sea wheat -- that
- 11 is wheat originating from Russian ports -- really
- 12 had a strong influence on Ukrainian wheat prices,
- 13 right? So Ukrainian wheat prices mostly followed
- 14 Black Sea wheat prices. Ukrainian wheat prices
- 15 also followed the Chicago wheat prices. But we
- 16 also saw that the Chicago wheat markets also
- 17 followed the Black Sea wheat prices, right? So in
- 18 terms of those markets and the global price in
- 19 Chicago, the Black Sea ports were more influential
- 20 than the Ukrainian ports.
- 21 At war, January 2022 leading up to the war,
- 22 Ukrainian wheat causally influenced. Now you can

- 1 see the direction of flow. Chicago traders got
- 2 really worried about what was happening in Ukraine.
- 3 And as Ukraine prices changed, these were strongly
- 4 influencing in that direction the Chicago markets.
- 5 Chicago wheat still influenced the Black Sea wheat
- 6 price.
- 7 Causality by July 2022 -- so we know that the
- 8 war is going to last a longer time. The causality
- 9 between the Black Sea wheat and Ukrainian wheat
- 10 fractured altogether. They were really two
- 11 different markets. Russian ports were obviously
- 12 not blockaded, but Ukrainian ports were blockaded.
- 13 So that signaling between those two markets
- 14 collapsed.
- 15 Then the Black Sea Green Deal Initiative in
- 16 July 2022, again, what was happening in wheat was
- 17 driving what was happening with the Russian wheat
- 18 at Russian ports. So people were focusing more on
- 19 supply effects and what was happening in Ukraine
- 20 than Russia. Chicago wheat also influenced the
- 21 Ukrainian wheat, and that's because of the global
- 22 markets as they adjusted expansion of supply, a

- 1 good bumper harvest in the Americas, and so on.
- 2 And the Ukrainian wheat causally influenced Chicago
- 3 wheat, so again, the Chicago markets really paying
- 4 attention to what was happening domestically and
- 5 with trade in Ukraine.
- 6 Now, our tables in the paper, of course, have
- 7 many more of these. I'm being very, very general
- 8 just to illustrate how these global effects affects
- 9 futures prices from a trading and a hedging
- 10 position.
- 11 Next slide, please.
- 12 So just some concluding thoughts on this.
- 13 Obviously, the Russians' invasion of Ukraine was a
- 14 major disruption on the world wheat futures market,
- 15 a very rare event, you know, the largest war in
- 16 Europe since the Second World War, to study it.
- 17 The presence of the CME Ukrainian wheat futures
- 18 price provide a rare opportunity to look at the
- 19 relationship between war and commodities.
- The prewar causality pattern we just discussed
- 21 was Black Sea wheat. That was a strong influence
- 22 on the market. Ukrainian wheat was more of a

- 1 follower rather than a leader. But that reversed
- 2 as time went on.
- And, of course, there are shifting dynamics
- 4 continually. The war today is not the same war it
- 5 was a month ago. It's not the same war it was a
- 6 year ago. And all of these things are going to
- 7 affect the prices depending on what's going on on
- 8 the ground. What our results show is that the
- 9 markets are paying attention to those things as
- 10 well. And yes, of course, exogenous shocks such as
- 11 these are going to have profound and global
- 12 effects.
- 13 And last slide, please.
- So I hope you can be a little bit forgiving in
- 15 terms of the story I'm telling. We were not able
- 16 to find any papers that perhaps could guide us
- 17 perhaps better on our approach to doing this. Our
- 18 thought process was to look at it from the trade
- 19 models from importing countries. We set up a trade
- 20 model which had Ukraine being invaded by Ukraine
- 21 and then a third-party country, which was exporting
- 22 from Ukraine, and we used that to sort of guide our

- 1 thinking and then see how events happened according
- 2 to what the trade model predicted.
- We have not put this paper through peer
- 4 review, and I don't think we will only because it
- 5 is so dynamically changing that by the time it gets
- 6 published, the story will be completely changed on
- 7 that. But it is available. I have sent it to
- 8 Swati, and it is available on SSRN if you are
- 9 interested in more details of what we've done.
- 10 If I've gone over my time, I apologize, but
- 11 I'll be happy to take any questions.
- MR. HERNDON: Thank you, Professor Turvey, for
- 13 your presentation.
- 14 I'd now like to open the floor for questions
- 15 and discussion regarding your presentation. We
- 16 will begin with questions and comments from the
- 17 members of the committee.
- Okay, so seeing none -- oh, sorry.
- 19 MR. ALLEN: Thank you, Scott. If I may just
- 20 take one moment and go off topic, I'm going to have
- 21 to pivot to virtual after the break, so I wanted to
- 22 thank you, Chairman, for your personal leadership

- 1 of this committee. There's a great network
- 2 occurring here of stakeholders, and to be back in
- 3 person here sharing our experiences in these
- 4 markets is really important, so thank you for that.
- 5 And I would be remiss not -- and by the way,
- 6 I'm Buddy Allen with American Cotton Shippers
- 7 Association. But I would be remiss not to flag
- 8 your recent guidance on voluntary carbon markets
- 9 and just applaud the Commission for the leadership
- 10 in that space. Many of the companies that I
- 11 represent are investing in products to add value to
- 12 agriculture and stakeholders through region
- 13 sustainability and all practices of the like. We
- 14 need definition and certainty in those markets and
- 15 those products so they can be authenticated and
- 16 that value can increase for agriculture
- 17 stakeholders.
- 18 You are at the tip of the spear, and I applaud
- 19 you for that. I hope the broader administration
- 20 and Congress will continue to focus on this
- 21 emerging market because it's critically important.
- 22 So I know that's off topic from Ukraine, but I

- 1 wanted to say it while I was here, and thank you
- 2 all.
- 3 MR. HERNDON: Okay. Seeing no more virtual
- 4 hands or tent cards, do we have any questions or
- 5 comments from the Chairman or any of the
- 6 Commissioners?
- 7 [No response.]
- 8 MR. HERNDON: Okay. So I turn back to you or
- 9 -- okay. Now turning back to Swati.
- 10 MS. SHAH: Thank you, Scott. At this time,
- 11 the AAC will take a 15-minute break. For
- 12 participants joining us virtually, please make sure
- 13 your Zoom is on mute and turn off your video during
- 14 the breaks to expedite our return. We will return
- 15 at 11:00 a.m. to begin our third panel. Thank you.
- 16 [Recess.]
- 17 MS. SHAH: I'd like to now call the AAC
- 18 meeting back to order and return the agenda to
- 19 Scott.
- 20 MR. HERNDON: All right, for our third
- 21 presentation today, we will now hear from Seth
- 22 Meyer with the USDA. Seth, if you're ready, please

- 1 go ahead.
- 2 MR. MEYER: All right. Thank you very much.
- 3 I am mentally shifting gears. I appreciate the
- 4 staff of CFTC giving me a room across the hall
- 5 where I was just running a seminar on global
- 6 oilseed markets.
- 7 So we'll try to cover a lot of ground here in
- 8 this because I think you have broad interest here
- 9 amongst different agricultural commodities, crops
- 10 and livestock, overall farm economy, so we'll try
- 11 and cover quite a bit of ground in the short amount
- 12 of time, but any questions, all questions welcome.
- 13 First slide.
- I want to throw this up here. I don't expect
- 15 you to read the entire list, but the Office of the
- 16 Chief Economist does include the World Agricultural
- 17 Outlook Board that does global supply and demand
- 18 balances for crops, but we do a lot of other
- 19 things, some of which I have understood came up
- 20 earlier in the discussion today. I'm also the head
- 21 of the Federal Crop Insurance Corporation board of
- 22 directors, things like that. And all of these

- 1 things are of importance to us and things we deal
- 2 with in the Office of the Chief Economist, most of
- 3 which I'm not going to talk about today because I'm
- 4 going to talk about outlook.
- 5 All right. So let's go into the next slide.
- I use this a lot if you have heard me talk
- 7 before because I remind folks that prices started
- 8 to increase all the way back in late 2000, a lot of
- 9 that being driven by improved trade in agriculture,
- 10 being also driven by corn and soybeans initially,
- 11 with wheat being dragged along until we have war in
- 12 the Black Sea, obviously wheat showing its strength
- 13 as a result, and we've seen prices moderate and
- 14 continue to moderate since the spike of the war.
- 15 So we still have prices elevated, but they've
- 16 certainly come down significantly from the highs we
- 17 experienced back in 2002.
- 18 Next slide.
- 19 But this is where I start to draw -- some of
- 20 your experts in the room may draw different
- 21 conclusions. You know, we saw a lot of -- this is
- 22 implied volatility. 2022 is implied -- and the

- 1 gray area is implied volatility ranges for the
- 2 previous 10 years, and then you have 2022 and 2023.
- 3 So what you can see across corn, wheat, and
- 4 soybeans, a tremendous amount of market volatility
- 5 in 2022 during the onset of the war. And there is
- 6 seasonality to these, and so the war was also a
- 7 very counter-seasonal increase in volatility a
- 8 shock, which is not a normal shock we see in
- 9 increases in volatility.
- 10 But when you turn forward into 2023, what you
- 11 notice is those volatility measures coming down
- 12 quite a bit. And I think one thing I would
- 13 contrast is when we start to separate out corn and
- 14 soybeans and maybe think about those as being
- 15 primarily feed from wheat and even rice, you get a
- 16 little bit of a different picture where soybeans
- 17 and corn volatility has declined. The market feels
- 18 more comfortable with those. It feels less
- 19 comfortable in markets like wheat and rice
- 20 globally.
- Next slide.
- 22 And part of that reason here is where we think

- 1 about -- this is updated. Again, the folks at USDA
- 2 put out the WASDE report each month, and this is
- 3 the one produced last Friday, which starts to talk
- 4 about what do global carryout stocks -- what do we
- 5 have left over at the end of the next marketing
- 6 year? And it's that same kind of split where do
- 7 you see corn and soybeans, things more closely
- 8 associated with feed showing growing stocks where
- 9 we have rice and wheat showing perhaps tighter
- 10 global stocks. And I think it's just important for
- 11 us to talk about this from a global food security
- 12 standpoint, given what we've gone through in the
- 13 last three years, even as we dig into more market
- 14 specifics.
- 15 Next slide.
- So I think when I describe this last crop
- 17 season, I think one of the things I do admit when
- 18 somebody asked me what surprised you about the last
- 19 crop year, I think part of what surprised me is
- 20 farmers' flexibility in deciding what they were
- 21 going to change acres into this past year. They
- 22 got a signal that says produce more corn, produce

- 1 more wheat, both crops that the Ukraine was
- 2 producing as well. They came in, they produced
- 3 those crops, forage conditions had been poor, they
- 4 produced more hay acreage. And, as a consequence,
- 5 they planted less soybean and cotton area as a
- 6 result.
- 7 So I show this because the farmer showed a
- 8 pretty good amount of flexibility this year in
- 9 terms of crop mix. You know, the signals were
- 10 there. The USDA asked them, what are you going to
- 11 plant? The market gets to respond, and then the
- 12 farmers get to change their minds a little bit
- 13 based upon what the market tells them. So there's
- 14 a signal early on that -- this is a process perhaps
- 15 unique in the United States. What are you going to
- 16 plant? USDA reports on what those farmers say. It
- 17 allows the opportunity for the market to signal
- 18 back and say, can't I convince you to plant a
- 19 little bit more of this crop so you can have market
- 20 reaction?
- Next slide.
- 22 So another thing that you've probably heard a

- 1 lot about here and that I think does continue to
- 2 have some influence on our global market is that
- 3 we've gone from a three-year La Nina -- and here's
- 4 kind of typical patterns of La Nina -- and let's
- 5 move forward to the next one -- to an El Nino, to a
- 6 strong El Nino. And what you'll notice about this
- 7 is it is -- when I think about an El Nino, it isn't
- 8 so much that it has large effects on total crop
- 9 production that are certain. It changes where
- 10 those crops are good or bad for the most part, rice
- 11 being one of the ones that is a bit unique. And I
- 12 know we're not talking about things which are
- 13 heavily traded on our markets yet, we'll get there,
- 14 but one of the things is rice tends to be
- 15 concentrated more geographically, and so El Nino
- 16 can have an effect. But again, I think one can
- 17 identify El Nino effects going on in several
- 18 markets around the world.
- 19 Next slide.
- 20 And again, one of the other challenging
- 21 features as now we're going to jump in and start
- 22 talking about individual crops is it was a less-

- 1 than-ideal year across the United States when it
- 2 comes to growing conditions, okay? So it was very
- 3 hot at certain periods. Some folks got timely
- 4 rain, others didn't, but less-than-ideal conditions
- 5 in much of the corn and soybean and even wheat-
- 6 growing areas across the United States, and
- 7 including pasture and forage areas important to
- 8 livestock production.
- 9 Next slide.
- 10 And we had some really extreme temperatures
- 11 during critical development phases for the U.S.
- 12 crop this year. You know, when one thinks about
- 13 104 to 112 Fahrenheit, anything above 35 Celsius
- 14 while the corn is in pollination stage is not a
- 15 good thing if it's an extended period of time. So
- 16 when you look at this, you say, with those dry
- 17 conditions and with this heat, what kind of crop do
- 18 you expect?
- 19 Next slide.
- 20 And yet we had pretty darn good yields, not
- 21 again, below trend, but the other thing I find
- 22 surprising about the crop year -- we'll look at

- 1 soybeans and some other yields as well, too -- is
- 2 that the crops seemed to fare well, despite what is
- 3 maybe less-than-ideal weather conditions. Crops
- 4 seemed to fare fairly well. So you have here a
- 5 yield, which is slightly below trend, but because
- 6 of farmers' response in saying the market wants
- 7 corn, we're going to produce corn, you had large
- 8 corn area, even with that yield, we have record-
- 9 large U.S. corn production in the United States
- 10 this year, record-large.
- 11 Next slide.
- 12 As a result, we will be stocking it here in
- 13 the United States, and that softening prices -- you
- 14 know, we got corn stocks in exporting countries.
- 15 You see us as the red bar, low prices expect to
- 16 spur global demand. We hope we are the ones that
- 17 are carrying additional stocks into the end of the
- 18 year on our increases, so that's about a 50 percent
- 19 increase in our year-over-year carry out stocks.
- Next slide.
- 21 Let's talk real quick about Brazilian soybean
- 22 production just because I came over from this

- 1 meeting just moments ago. Again, here, we made
- 2 some adjustments just this last month on the size
- 3 of our soybean crop in Brazil, pretty early for us
- 4 to do that normally, but it's been rather dry.
- 5 There are basically two zones, and I'm going to
- 6 talk a lot about Brazil because Brazil is
- 7 incredibly important now for how we think about --
- 8 and has been for how we think about global soybean
- 9 markets.
- 10 Next slide.
- 11 When you compare those two zones, you have an
- 12 area in the south which basically gets an even
- 13 amount of rain all year long, and you've got the
- 14 area up by Mato Grosso, which has a more seasonal
- 15 pattern of rain. You expect that rainfall to come
- 16 on. It's been less than average and hasn't really
- 17 come on strong within that region of Mato Grosso,
- 18 and, as a result -- go forward one slide -- we've
- 19 got areas of significant soybean production where
- 20 you talk about there up in Mato Grosso that are
- 21 having less favorable conditions for soybean
- 22 production. So we've already gone in at this point

- 1 and said that will temper our expectations about
- 2 soybean production in Mato Grosso, whereas in the
- 3 south rainfall is very good, and it looks like the
- 4 crop there, you know, you've got maybe too much
- 5 rain, but you got a lot of rain in the south and
- 6 where production looks good.
- 7 Now, normally here in an El Nino situation it
- 8 would be the northern edge of Mato Grosso and
- 9 north, which might be dry with an El Nino
- 10 condition. So it's not inconsistent with that, but
- 11 I'm not sure I'd lay it all on an El Nino condition
- 12 and the precipitation we're seeing now.
- 13 Next slide.
- But it also has -- it isn't just that it has
- 15 been dry there, it has been exceptionally warm in
- 16 Mato Grosso as well, too. We didn't see great rain
- 17 last year in some of these regions either, but we
- 18 had much cooler temperatures. The combination is
- 19 we've got hot temperatures this year with that
- 20 less-than-ideal rainfall, which is at least at the
- 21 moment causing that crop to suffer.
- 22 Next slide.

- 1 But it's still going to be a big crop under
- 2 normal weather assumptions going forward, and so
- 3 you got Brazil area yield and production numbers.
- 4 That is still a lot of soybean production year over
- 5 year as the world looks forward as what are you
- 6 going to do with all those soybeans. You know, and
- 7 think about also a rebound in Argentina, a rebound
- 8 in Paraguay.
- 9 Again, will we see that rebound in Argentina,
- 10 et cetera? They suffered last year from one of
- 11 their worst conditions. They imported about --
- 12 they usually import some soybeans for their crush
- 13 system, but they imported about 10 million metric
- 14 tons last year. They just simply didn't have a
- 15 crop.
- 16 Next slide.
- 17 So again, we'll continue to watch that Mato
- 18 Grosso soybean production and the subsequent corn.
- 19 So as those beans are being harvested, right after
- 20 that comes the corn production on its tail, so that
- 21 will tell us what we will watch next. And again,
- 22 soybean production in Brazil fundamentally changed

- 1 how we view "carry" in the futures market in the
- 2 United States, and I think corn will increasingly
- 3 see that change in carry. The dynamic and timing
- 4 is a bit different, but, again, it's going to grow
- 5 that same way and change our market. It comes off
- 6 a few months before our own harvest.
- 7 Next slide.
- 8 So that's the kind of punchline when it comes
- 9 to overall soybean production at a global level.
- 10 This is what we expect in terms of South American
- 11 production, increases in South American production,
- 12 a falling U.S. share. So, you know, one of our
- 13 challenges is we're facing a lot of export
- 14 competition for our soybeans into the rest of the
- 15 market. China obviously being 60 percent of global
- 16 trade in soybean, a 60 percent share of global
- 17 soybean trade, you know, we will naturally see our
- 18 U.S. trade share fall. That's a natural, but we'll
- 19 have to look for what are some alternatives to
- 20 export demand.
- Next slide.
- 22 So let's think about it again. I wanted to

- 1 show this one and say beans are much more flexible
- 2 than corn in terms of, you know, whether at
- 3 specific times of the growing period can have
- 4 negative effects on corn that corn can't rebound
- 5 from. Beans, a little bit more flexible, and yet
- 6 I'd say less-than-ideal growing conditions
- 7 throughout the entire year, but still, again,
- 8 yields not that much below trend despite
- 9 challenging production conditions.
- 10 Next slide.
- 11 But the difference -- you know, we talk about
- 12 what is going on in the U.S. market for soybeans
- when you've got that big overhand in South America?
- 14 One of the things that has helped offset that has
- 15 been U.S. crush demand, U.S. crush demand being
- 16 driven by domestic and state-level policies on
- 17 biofuel production, specifically renewable diesel
- 18 in California.
- 19 And the RFS has significantly changed the oil
- 20 value of a bean. So you think about oil share of
- 21 the bean, the bean crushed makes two products.
- 22 Most of the weight is in meal, but now 40 percent

- 1 of the value is in the oil. And it's only less
- 2 than 20 percent of the overall physical volume, but
- 3 yet now it's 40 percent of the value, and it has
- 4 been elevated relative to history. Crush demand
- 5 has been strong. Oil demand has been strong. We
- 6 are importing things like used cooking oil. We are
- 7 importing things like canola oil from Canada, and
- 8 it's being driven by this demand for products. So
- 9 when you hear some biofuel policies about expanding
- 10 feedstocks, et cetera, this is part of what is
- 11 driving this. This market is being driven by
- 12 domestic policy for renewable diesel.
- 13 And again, I'm kind of throwing some teasers
- 14 out there. You all can ask any questions you want
- 15 either now or when we get to that point. But
- 16 again, it is nice to have domestic demand when
- 17 you're facing such large foreign competition in
- 18 this regard.
- 19 Okay. Next slide.
- 20 And this is that futures crush margin where
- 21 even though it's come down quite a bit, that crush
- 22 margin is basically what can I make by taking that

- 1 bean and crushing it and selling the oil in the
- 2 meal. And the crush margin is coming down. We
- 3 have been fortunate -- again, I remind you, we have
- 4 two products. We have meal, and we have oil. And
- 5 for meal, we were fortunate that the Argentines had
- 6 a bad crop and we could put our meal into the
- 7 global market. How long does that last if
- 8 Argentina rebounds, has a good campaign? They're
- 9 the world's largest meal exporters. If they want
- 10 to come into the market and export more meal, what
- 11 are we going to do with our meal, and how's that
- 12 going to affect our domestic crush margin when we
- 13 want the oil?
- So again, I think there's a lot here at play.
- 15 Maybe I'm just trying to push my thesis of feed
- 16 volatility falling and food volatility rising.
- 17 Maybe I'm just trying to push my thesis, but I
- 18 think even within the bean maybe we see a little
- 19 bit of this split.
- Next slide.
- 21 So I'm just going to reinforce my thesis again
- 22 here saying we've got, you know, global carry-out

- 1 stocks of corn and bean rising and rice and wheat
- 2 stocks contracting a little bit.
- 3 Next slide.
- 4 So let's talk a little bit about those
- 5 commodities as well, too, wheat. Again, this is
- 6 perhaps a different kind of outlook than I usually
- 7 give because I'm going all over the world talking
- 8 about specific things, happy to talk about U.S.
- 9 balance sheets at any point, but I think it's
- 10 important for us to talk about some of these global
- 11 drivers as well, too.
- 12 Ukraine, you know, we talk about the end of
- 13 the Black Sea Grain Initiative, but there we're
- 14 talking about and now an expectation of nearly 39
- 15 million metric tons of exports of primary
- 16 commodities out of Ukraine. This does not include
- 17 things like sunflower oil, which perhaps we've seen
- 18 some improvement in the exchange of sunflower oil
- 19 relative to seed itself, but that's about three and
- 20 a half million metric tons a month. That's not
- 21 bad, and I would have to admit that the solidarity
- 22 lanes overland have performed better than I would

- 1 have expected early on, okay? And yes, we do not
- 2 have a Black Sea Grain Initiative, and I think that
- 3 that, again, maybe I'm just pushing my hypothesis
- 4 again about food grains versus feed grains.
- Well, let's go to the next slide.
- 6 When one thinks about this, I think part of
- 7 the reason we maintain volatility within the wheat
- 8 market around the world, despite the fact that
- 9 we've got big crops is where those big crops are
- 10 growing as well, too, or at least one of the places
- 11 where those big crops are growing, which is Russia
- 12 has had two very big crops in a row. And if you
- 13 listen to the chatter, has a third big crop on its
- 14 way. And when you look at this, I think the market
- 15 takes both concern and we see volatility when ports
- 16 in Ukraine get hit, but we also saw volatility when
- 17 a Russian oil ship got hit.
- 18 So I think this is a reminder that, you know,
- 19 the U.S. pushed very clearly that sanctions on
- 20 food, we don't have sanctions on food. Food is
- 21 different, and that's been, I think, a clear
- 22 message. And I think this reinforces it. We do in

- 1 fact need the Russian wheat in the global wheat
- 2 market, and that volatility remains at least in
- 3 part because of folks' concern about this. So the
- 4 Black Sea Grain Initiative served and would serve
- 5 the purpose of saying food is different.
- 6 Next slide.
- 7 And it just gives me an opportunity to talk
- 8 about rice as well, too, and some of the volatility
- 9 that we've seen in rice prices as well, too. This
- 10 is the only table I think in my whole presentation,
- 11 and I just show it because we cut Indian exports of
- 12 rice 6.5 million metric tons. Why does that
- 13 matter? This is a pretty thinly traded market.
- 14 And secondly, India supports its domestic
- 15 production of rice. And we can talk about, hey, in
- 16 a food-insecure country, do you want to support a
- 17 staple crop, right? We can talk about that, but
- 18 the other side of that is when they feel nervous,
- 19 they put export controls on, so you are both
- 20 pushing your excess supplies into the global market
- 21 on a regular basis, but then when the world might
- 22 be able to use those extra supplies, you put export

- 1 controls on.
- 2 So you're introducing -- this is a message
- 3 about being a reliable supplier, right? So you
- 4 can't push your surplus onto the global market, and
- 5 then when you feel a little nervous, cut the world
- 6 market off from your supplies because all you're
- 7 doing is pushing all that volatility on to the most
- 8 vulnerable consumers around the world.
- 9 So this has been a contributing factor. So
- 10 from why we saw rice prices start to rise, and you
- 11 have other countries which tend to react and have
- 12 reacted in the past. When we've seen really big
- 13 runs on global rice prices, it has been as a result
- 14 of other countries following suit in export
- 15 controls, and it just pushes all that volatility
- 16 into the global market. Again, noting who's
- 17 importing India's rice -- African countries. Some
- 18 of them have been able to continue to get it. It
- 19 hasn't been a complete ban, but again, this is a
- 20 bit of a story about where some of the volatility
- 21 coming from and being a reliable supplier.
- 22 Next slide.

- 1 Let's talk quickly about cattle markets. I
- 2 can talk about cattle markets a lot. I like to
- 3 talk about cattle markets. We're in a contraction
- 4 phase of the cattle market right now. This is part
- 5 of the reason, as we talk about this, why you've
- 6 seen beef prices rising, okay? We're in a
- 7 contraction phase. The herd is getting smaller.
- 8 We go through the cyclical periods, and part of
- 9 this is the biological lags, the price signals, and
- 10 the amount of time it takes to turn this market.
- 11 So we're in a contraction phase, and I know
- 12 you all know that we have seen recently record high
- 13 feeder and fed cattle prices. We've seen record
- 14 highs for both. We've come off of them pretty
- 15 significantly, but they're still elevated. And I
- 16 will tell you, I think there are fundamental
- 17 reasons for that. Even though we're in a
- 18 contraction phase, you say we're in a contraction
- 19 phase. Why are feeder cattle and fed cattle prices
- 20 falling?
- 21 And I would say we have a January cattle
- 22 report coming up from USDA, and the question will

- 1 be, do we have a few more calves than we thought,
- 2 or are we just taking this coasting plane on a
- 3 declining cattle herd and turning it sharply into
- 4 the ground? What do I mean by that? I mean, we've
- 5 got feeder cattle. Folks are trying to decide
- 6 whether they want to hold those calves, you know,
- 7 raise those heifers, breed them, and produce new
- 8 calves, or cash in now. Because of forage
- 9 conditions, because of other signals, because of
- 10 high prices, folks have decided they want to take
- 11 the money now.
- 12 And so what we've seen is placements, animals
- 13 on feed, kind of build up the supply of animals on
- 14 feed, and so that's the fundamental that is in the
- 15 short run pushing down those animal prices. But
- 16 what you're doing is you're taking away your
- 17 potential, and you're putting it into the
- 18 processing market, so you're forcing yourself at a
- 19 sharper downward trajectory in cattle prices.
- 20 So as we think about food price inflation, as
- 21 we think about beef prices, even if you made a
- 22 decision, which I don't necessarily expect, we see

- 1 a cattle turn in the spring, you still got a couple
- 2 years before those things become -- before that
- 3 makes a new steak. So you got a couple years left
- 4 of contracting beef supplies in the United States.
- 5 Okay. Next slide.
- 6 And again, a driver of this for the last
- 7 couple years has been poor forage conditions, and
- 8 here's like where the cattle are at and where the
- 9 drought conditions are at overlaid against each
- 10 other. We have seen the drought moving from the
- 11 High Plains, perhaps more towards Nebraska, but
- 12 it's still -- and hay production improved this year
- 13 over last year, but that's not saying a lot.
- So folks with cow-calf operations west of the
- 15 Mississippi saying can I maintain those cow-calf
- 16 pairs with the forage conditions I got? Or should
- 17 I just cash in the money now and send that feeder
- 18 to the feedlot? And right now, they're saying send
- 19 it to the feedlot.
- Next slide.
- 21 Alternatively, in swine here, when we think
- 22 about the health of the overall swine industry, I'm

- 1 going to talk to you a little bit about some
- 2 obscure details here that matter. Profitability in
- 3 the swine industry has been poor, and so the
- 4 natural reaction by producers is to say we will
- 5 pull back a little bit on supply. And that's a
- 6 reaction, right? We're not making money. Let's
- 7 pull back a little bit on the number of animals we
- 8 are breeding. And they have. The offset, perhaps
- 9 unexpected, at least by me, offset has been a sharp
- 10 increase in the number of pigs per litter, as a
- 11 matter of fact, such a sharp increase that it
- 12 completely offset the declines in farrowing. So
- 13 while they might have wanted to get less animals by
- 14 breeding less, the number of pigs per litter
- 15 increased sharply and completely offset any ideas
- 16 that they would like to contract the size of that
- 17 herd.
- 18 Next slide.
- 19 At least part of that has been lower pig
- 20 disease pressures seasonally than we observed in
- 21 the past. If I added the most recent data from
- 22 today on to that, we might see it coming back up a

- 1 little bit as it does in the wintertime, but we
- 2 have seen less than full disease pressure, and we
- 3 have also seen a mix of states improve their
- 4 overall pigs per litter that are maybe outside of
- 5 the I states, let's call them. So we've seen
- 6 improvements in pigs per litter. If that continues
- 7 and folks want to cut supply, they'll have to make
- 8 bigger farrowing changes year over a year than they
- 9 had previously.
- 10 So again, here we're looking at in terms of
- 11 pork production, we're talking about more than they
- 12 wanted to, perhaps less favorable overall
- 13 profitability conditions.
- 14 Next slide.
- 15 Let's talk just a little bit about trade. I'm
- 16 going to talk a little bit about trade and farm
- 17 income, and then we can discuss whatever you want
- 18 to talk about. This is the latest trade report
- 19 from USDA. I think there's about -- do you want to
- 20 be an optimist and read this slide? Do you want to
- 21 be a pessimist and read this slide? I think
- 22 there's numerous ways that you can look at this

- 1 slide. I can look at this slide and say, the last
- 2 four years have been the best for exports and
- 3 imports for U.S. agriculture in history, right?
- 4 Some folks might say, hey, you're developing a
- 5 pretty big gap there between exports and imports,
- 6 and in fact, that's true. We've got a trade
- 7 deficit for agricultural trade. As a kid that grew
- 8 up in Iowa, in the wintertime, what I could get at
- 9 Hy-Vee at the grocery store was pretty limited in
- 10 the wintertime, right? Maybe some sad-looking
- 11 lettuce. Now you can walk into Hy-Vee in Iowa, and
- 12 you can get whatever you want. Part of that is a
- 13 function of improved trade, so part of that is a
- 14 function of us importing products that we're not
- 15 producing at that particular time of the year.
- 16 Some of it's high-value products for consumers,
- 17 things like tequila, things like that. And
- 18 alternatively, in this point, some of it's
- 19 importing calves from Mexico because we don't have
- 20 enough calves ourselves.
- So, again, trade does serve a useful purpose,
- 22 and when I look at this, I say, it doesn't have to

- 1 be -- you know, we don't always have to have a
- 2 surplus. I'd like a surplus, okay, but I don't
- 3 think it has to be that. I think we can look at
- 4 this and say, last four years have been good for
- 5 agricultural trade. And I will say on the export
- 6 side, those last four years are part of what's
- 7 contributed to what we'll talk about next, which is
- 8 farm income.
- 9 Next slide.
- 10 I'm not going to talk about farm income yet,
- 11 but I'll remind you, this is kind of more of that
- 12 story, which is China came into our market. That's
- 13 what boosted farm income early. China's demand
- 14 from us and the overall prices of the commodities
- 15 that China buys from us have been pushing their
- 16 share down, but we've had good, solid increases
- 17 that have maintained from Mexico and Canada to the
- 18 point where those three are awful close in trade,
- 19 Mexico, Canada, and China.
- Next slide.
- 21 And I'm going to be a little bit self-serving
- 22 here a little bit and talk about just as a reminder

- 1 about outstanding sales, and this is a bit of a
- 2 selfish thing because I have an interest in talking
- 3 to you all at CFTC about this issue. We report
- 4 outstanding sales. When a sale occurs in the
- 5 market, when an exporter sells a product into the
- 6 global market, they have to report that to USDA.
- 7 And so when I think about this, this is on
- 8 volume terms. So, again, I think part of our trade
- 9 challenge this year is both volume and value for
- 10 some of our bulk commodities, and that's just what
- 11 I wanted to talk about from that slide.
- 12 Next slide.
- 13 So this, again, is one of the final slides
- 14 from the briefing that we give to the secretary at
- 15 the end of every WASDE report. And I think the
- 16 thing to notice from this is that every major
- 17 agricultural commodity price is lower year over
- 18 year. And I think we need to start thinking about
- 19 -- and I think this kind of raises the question of
- 20 where do you see them going next year, right? And
- 21 from a producer standpoint, you know, what does
- 22 that look like, you know?

- 1 Let's go to the next slide.
- 2 Because this is the other side of it, is not
- 3 just what I get for my receipts, it's what it cost
- 4 me to get there. So when one looks at the cost of
- 5 production, this is expended. This is one of our
- 6 measures. So this is expenditures on inputs. And
- 7 when you look through this, you can see some -- the
- 8 dashed line says things which were more expensive
- 9 this year, or things which were less expensive or
- 10 spending, aggregate spending above and below.
- And so when you look at this, your eyes come
- 12 and say well, things like pesticides, fuel and oil,
- 13 and fertilizer are low, but those are still not
- 14 back to levels of three years ago. They're still
- 15 elevated, particularly, I would say, things like
- 16 fertilizer, so producers are seeing some pullback
- 17 in those components. But when you look at the rest
- 18 of the components, things like interest expenses,
- 19 et cetera, you can see those expenses rising. So
- 20 when you look at overall aggregate spending on
- 21 these expenses, actually up slightly year over
- 22 year, okay? So you got falling receipts and

- 1 increasing costs.
- Next slide.
- 3 But overall farm income in the last three
- 4 years has been the highest three years in a row of
- 5 any time in my lifetime. And if one looks at the
- 6 net cash farm income line in here, it's the highest
- 7 three on record. So you got three really good
- 8 years of farm income that put the farm sector in a
- 9 very good position going forward. The question is,
- 10 is are costs sticky and are output prices coming
- 11 down? And does that cause some margin issues for
- 12 producers as we go forward?
- 13 Next slide.
- This is my last slide, and I'm happy to answer
- 15 any and all questions.
- We've got a lot of usual suspects here as
- 17 well, too, producers' concerns about the next crop.
- 18 You know, as soon as they go into the field,
- 19 they're thinking about the costs for the next crop.
- 20 Growing global competition, I was just on that
- 21 oilseed discussion. You got big crops of oilseeds
- 22 around the world, rebound in Argentina, China now

- 1 buying corn from Brazil, whereas they didn't
- 2 before, lots of those issues.
- 3 We've got other issues that seem to linger.
- 4 We got Mississippi River issues, Panama Canal,
- 5 which will only get worse in the short run. We've
- 6 got continued poor range land for cattle. Again,
- 7 are we going to see that turn, or are we not going
- 8 to see that turn? Currently reduced disease
- 9 pressure, some of the issues we saw in things like
- 10 egg prices, we didn't see HPAI the same year, which
- 11 gave us that pressure on eggs. At the moment,
- 12 we've seen reduced pressure on swine. Is that
- 13 something that stays around?
- We've got other things we are working on that
- 15 could have influence in the market. We've got Prop
- 16 12, which is the animal welfare rule in California.
- 17 That comes into force on January 1. And if you
- 18 think about how long it takes you to -- and the
- 19 restriction is on the sow. If you think about how
- 20 long it takes, if the restriction is on the sow, to
- 21 make the bacon that's available January 1, that
- 22 decision was way back in April. So the supplies

- 1 that will be available in California on January 1
- 2 were determined back in April of this year. So
- 3 whatever we got that's Prop 12-compliant is what we
- 4 got on January 1. So these are others kinds of
- 5 things which come into play. And obviously ongoing
- 6 issues with the RFS sustainable aviation fuel and
- 7 biofuel policies.
- 8 I know there was a lot there, and I didn't go
- 9 into any particular piece in great detail, but I'm
- 10 happy to answer any questions that you all might
- 11 have.
- MR. HERNDON: Thank you, Seth, for the
- 13 presentation.
- 14 I'd now like to open the floor for questions
- 15 and discussion regarding the presentation. We will
- 16 begin with questions and comments from the members
- 17 of the committee. I'm not seeing any in the room,
- 18 but are there any virtual hands raised or on the
- 19 telephone? Nope? Okay.
- 20 Do we have any questions from the Chairman or
- 21 Commissioner Mersinger?
- 22 CHAIRMAN BEHNAM: Seth, thanks for being here.

- 1 We value the partnership with USDA, and we know we
- 2 work a lot with you certainly on the econ side,
- 3 but, you know, whatever we can provide on the
- 4 market side, we hope it's valuable.
- 5 The farm income statistic was interesting in
- 6 like, how do you bridge the gap? And maybe I'm not
- 7 appreciating commodity prices as they relate to
- 8 sort of the farm income side of things, but given
- 9 the higher costs, how are we maintaining that level
- 10 of farm income despite sort of the externalities
- 11 that seem to suggest we would not necessarily be
- 12 hitting records?
- MR. MEYER: Yeah, so I think you're probably
- 14 pointing to 2022 where we had record farm income,
- 15 despite all of the chatter about input prices. And
- 16 there aren't farmers in the room, I don't think.
- 17 Maybe we've got some farmers in the room here, but
- 18 I usually tell this story, and the farmers usually
- 19 laugh because they know it's true, which is usually
- 20 if you talk about inputs and you ask a farmer about
- 21 inputs, they'll say I can't get fertilizer. The
- 22 part they usually leave off is I can't get

- 1 fertilizer. The part they leave off is "at a price
- 2 I want to pay, "right? That's the part they
- 3 usually are silent on, and they laugh about that.
- 4 In 2022, it was truly the case they were concerned
- 5 about ability to get it.
- 6 So I say that because I think 2022 turned out
- 7 to be a good year simply because commodity prices
- 8 were so strong, even relative to inputs, but it
- 9 wasn't without a lot of stress. So what I'm saying
- 10 is there was a lot of stress in it, a lot of
- 11 chatter. Yes, they paid more for inputs. Some of
- 12 it they had already secured before the war started
- 13 in 2022, right? They had already purchased some
- 14 ahead, and so they were able to smooth it out. But
- 15 on the end of commodity prices being so strong, it
- 16 did turn out to be a good farm income year. And
- 17 farm income at the national level does mask certain
- 18 things, right?
- 19 CHAIRMAN BEHNAM: And a second question if you
- 20 don't mind, on the Brazil front and sort of where
- 21 that market's going, what impact that has on our
- 22 producers and exports and sales to China. And then

- 1 maybe a little bit of a longer curve analysis on
- 2 where you see that going, and then maybe juxtaposed
- 3 against like biofuel consumption and where is that
- 4 heading, whether or not that's going to pick up the
- 5 slack and maybe lower sales of beans and corn to
- 6 China because of Brazil.
- 7 MR. MEYER: So I'll start. I'll answer the
- 8 easiest part of that question first is where do I
- 9 see Brazilian production going? Up, bigger,
- 10 larger, more. I think that one's pretty
- 11 straightforward. I think if one were to look back
- 12 and look at how the growth in Brazil affected U.S.
- 13 soybean production and the way we think about
- 14 carry.
- 15 I think there is a third pillar to that, which
- 16 is China. You got one destination in the world,
- 17 which is 60 percent of the market and buy is year-
- 18 round, okay? So I think that that fundamentally
- 19 changed the system of soybean supply where we've
- 20 got six months, it's just-in-time delivery, six
- 21 months for the United States, six months for
- 22 Brazil, six months in the United States, six months

- 1 in Brazil. Demand in China growing more than 4
- 2 percent a year annually, I'm not sure I see that
- 3 continuing going forward, right? But the
- 4 Brazilians don't have necessarily a reason to take
- 5 their foot off the gas at the same time.
- And so I think if we're focusing on soybeans
- 7 first, we've got domestic demand, which is
- 8 fortunate that we have that domestic demand given
- 9 the global competition on the bean side for crush
- 10 demand in the United States that's serving the
- 11 renewable diesel program, serving the RFS program.
- 12 I think if we continue to expand crush,
- 13 though, when you crush the soybean, you don't just
- 14 get the oil, you get the meal, so we're going to
- 15 have to think increasingly about where that's going
- 16 to go. So I think we'll continue to see a need to
- 17 find markets from that.
- 18 So I think from that point on, it gets very
- 19 complicated. Brazil exports beans. Argentina
- 20 exports products. So we're facing competition from
- 21 Brazil for the beans side so we crush them
- 22 domestically for our oilseed program, and now we're

- 1 competing with the Argentinians on the meal side.
- 2 So we're going to continue to face competition from
- 3 South America.
- 4 On the corn side, I think we have some more
- 5 natural advantages perhaps, but here, too, the
- 6 Brazilians got a lot of land that they can plant
- 7 second crop corn on. They can plant corn right
- 8 behind beans. They can grow that area. The
- 9 Chinese looking to diversify where they're getting
- 10 their supplies from, increasingly have looked to
- 11 Brazil. They used to have phytosanitary controls
- 12 on imports from Brazil. They removed them, and so
- 13 now you've got a big competitor from Brazil into
- 14 the Chinese market.
- 15 CHAIRMAN BEHNAM: Thanks, Seth.
- 16 COMMISSIONER MERSINGER: Thank you. That was
- 17 a great presentation.
- 18 Just a quick question going back to the slide
- 19 on the trade and where we're starting to see this
- 20 deficit, just I want to make sure I was reading
- 21 that correctly, but that was all of our
- 22 agricultural commodity that we're trading?

- 1 MR. MEYER: And it's in value terms --
- 2 COMMISSIONER MERSINGER: Value.
- 3 MR. MEYER: -- right, because we're exporting
- 4 different things.
- 5 COMMISSIONER MERSINGER: Right.
- 6 MR. MEYER: It's not fair to a ton of this and
- 7 a ton of that.
- 8 COMMISSIONER MERSINGER: Right.
- 9 MR. MEYER: Yeah.
- 10 COMMISSIONER MERSINGER: Right, exactly. And
- 11 do you -- I mean, as you mentioned, the lettuce in
- 12 Hy-Vee, we didn't have Hy-Vees in South Dakota, but
- 13 yes, there was no fresh fruit and vegetables in the
- 14 grocery store in the winters when I grew up. It
- 15 was a lot of canned goods, and so I totally
- 16 understand what you're saying.
- But to that point, is this just going to be
- 18 the trend going forward, that we're going to have a
- 19 growing trade deficit for agriculture commodities?
- 20 And how much of this is driven by, let's say, you
- 21 know, China deciding that they're going to, you
- 22 know, source a lot of soybeans out of Brazil and

- 1 kind of geopolitical factors that play into that as
- 2 well?
- 3 MR. MEYER: No, I think it's a great question
- 4 because, again, I think you look at that graph, and
- 5 it depends on how you want to view this. You can
- 6 view it many different ways. And I think if you
- 7 took a longer-term view, you would say, this cross
- 8 may have been coming, right? And so I think it is
- 9 a continuing challenge that we're going to have to
- 10 face in U.S. agriculture if we want to kind of get
- 11 back to something more -- or maintain something
- 12 more balanced.
- 13 I think having all -- the more you have your
- 14 trade concentrated in one destination, the more you
- 15 rely on continued demand from that destination.
- 16 The more you concentrate on specific products, you
- 17 know, the more you are sensitive to the demand of
- 18 those specific products. We always see much more
- 19 volatility in our export values than we do our
- 20 import values. Maybe that's the resiliency of the
- 21 U.S. consumer in terms of what they want to buy.
- 22 So I think as -- here's where I put my U.S. ag

- 1 enthusiast hat on. We need to convince other
- 2 countries of the value of our agricultural
- 3 commodities and that need to have that same
- 4 response to them, so I think we need to figure out
- 5 ways to gain access to markets and sell in the
- 6 commodities we're good at and figure out how to
- 7 expand that, because, otherwise, I think we do face
- 8 the real challenge that that becomes not only
- 9 permanent, but continues to widen if we don't
- 10 exploit that. What is that? Is it selling more
- 11 pork into Mexico, or is it new things?
- 12 I was just down in Mexico trying to -- and
- 13 somebody threw at -- what should we sell to
- 14 Mexicans? I don't know. Maybe we need to convince
- 15 them that they like apple pie as much as we like
- 16 guacamole at the Super Bowl, right? You got to
- 17 find some market high value to sell it to them, and
- 18 I think that there are -- we need to figure out how
- 19 we're going to do that. Otherwise, we'll be locked
- 20 in.
- 21 COMMISSIONER MERSINGER: Thank you. No,
- 22 that's a great explanation, and I really appreciate

- 1 that.
- 2 MR. HERNDON: All right. Before we move on,
- 3 I'd like to give members an opportunity to raise
- 4 any suggestions for discussion topics for the 2024
- 5 meetings.
- 6 Mr. Coyle?
- 7 MR. COYLE: Sure. I'm not sure if this is a
- 8 topic for our next meeting, but just a topic that
- 9 the National Grain and Feed is sensitive to and
- 10 wants to, you know, make the Commission aware of,
- 11 some of the banking proposals that have been
- 12 announced. You know, we talked about margining and
- 13 the cost and impact that is associated with that on
- 14 our hedgers and much of our industry and our
- 15 members are hedgers. You know, the FCM industry
- 16 has been one that's been consolidating. We're
- 17 seeing fewer and fewer options for those services.
- 18 You know, many of the major banks that are
- 19 still operating as FCMs, we see these proposals,
- 20 potentially significantly increasing their capital
- 21 requirements for activity related to futures
- 22 trading and these services they're providing as

- 1 FCMs. So there's some concern that this trend that
- 2 we've been seeing in terms of reduction in FCMs,
- 3 that we could see further reduction, which,
- 4 eventually, we could get to a point where there may
- 5 not be sufficient services or providers for those
- 6 and/or their costs may -- the cost for that
- 7 business, they may charge more and more, which, you
- 8 know, will affect all users, but may impact the
- 9 smaller users that are more sensitive to some of
- 10 those costs.
- 11 So, you know, hedging for farmers from their
- 12 production but also end users, the cost of their
- 13 inputs is important and a critical part of our
- 14 industry. So just something we want to share, make
- 15 sure, you know, that -- and I'm sure you are, but
- 16 it's a point to raise from the NGFA.
- But otherwise, you know, very much appreciate
- 18 you hosting and bringing us all together. The
- 19 presentations so far today have been quite
- 20 informative and really appreciate being here.
- MR. HERNDON: Thanks. Mr. Barker?
- MR. BARKER: So I had two ideas. One was

- 1 brought up today, and I thought it was a good idea.
- 2 We could possibly discuss the intersection of how
- 3 these insurance products like the livestock revenue
- 4 coverage and farm programs intersect with our
- 5 agriculture exchange-traded markets, and I think
- 6 you have an ability to bring in speakers that can
- 7 speak very good on this. So I think that could be
- 8 a really good topic. It was brought up earlier
- 9 today.
- 10 And then I guess the other one I thought that
- 11 could be a great service to the industry would be
- 12 kind of a high-level update on sustainability
- 13 programs that the CFTC is working on in conjunction
- 14 with other committees that are actually happening,
- 15 some sort of update for how that's going to impact
- 16 our agriculture markets or some sort of high-level
- 17 update to be quite a service to the market
- 18 participants as a whole.
- MR. HERNDON: All right. Any other thoughts?
- 20 Oh, sorry, Ed.
- MR. PROSSER: Thanks, Scott.
- I listened with great interest to Suzanne's

- 1 comments today around new technologies and
- 2 techniques, data manipulation that they're using
- 3 for market oversight. And I wondered, as I was
- 4 listening, if those technologies could also be used
- 5 for market transparency, the idea that, from an end
- 6 user's perspective, knowing who's buying, who's
- 7 selling, the quantities that those are happening at
- 8 and more real time than obviously the reports that
- 9 we get today. And having the exchange explain
- 10 maybe the opportunities to use those same tools
- 11 only not just for market req, but for market
- 12 transparency, I think might be very interesting.
- 13 MR. HERNDON: All right. I'll turn it back
- 14 over to Swati.
- 15 MS. SHAH: Thanks, Scott.
- 16 We will now hear from Chairman Behnam, the AAC
- 17 sponsor, for his closing remarks.
- 18 CHAIRMAN BEHNAM: Swati, thank you. Scott,
- 19 thank you. Seth, thank you for presenting, and to
- 20 all the members for being here. Again, it means a
- 21 lot to us. I know the holidays are around the
- 22 corner, but making the trip out.

- 1 It's been a great year. We've had a lot of
- 2 great meetings. Ed, you mentioned the first panel.
- 3 I was very intentional in having that panel. I've
- 4 talked a lot about our markets -- you know, my
- 5 colleagues have, too -- being accessible, being
- 6 priced appropriately so end users can put on a
- 7 hedge and keep a hedge.
- 8 Obviously, a lot of volatility in the markets.
- 9 I think there's a lot of questions, a lot we learn
- 10 from CME, but these are going to be, you know,
- 11 issues and discussions I think we need to continue
- 12 having into 2024.
- 13 Ag con, Kansas City, Ed apparently is going to
- 14 get everyone to come, but we would all love to see
- 15 you there. It's going to be a great event. And I
- 16 think let's just use, again, after the holidays an
- 17 opportunity to think about what discussions and
- 18 topics we want to talk about.
- 19 We will hopefully make the advisory committee
- 20 a part of that two-day event, but the ag conference
- 21 itself is going to be unique and separate, and
- 22 we're going to try to get folks from USDA to come

- 1 down and other federal agencies to speak about a
- 2 variety of topics that are important. But it'll be
- 3 good, like I said at the beginning, to be out of
- 4 D.C. and getting together in that environment.
- 5 So I want to thank Commissioner Mersinger for
- 6 being here and adding her expertise and experience
- 7 and being a part of the morning. And again, thanks
- 8 to Swati and Scott and everyone who participated.
- 9 Wishing you all a very happy, safe holiday, safe
- 10 travels, and we'll see you in 2024. Thanks.
- 11 MS. SHAH: Thank you, Chairman Behnam.
- 12 Thank you to all the AAC members and the guest
- 13 panelists for your participation in today's
- 14 meeting. The meeting is now adjourned.
- 15 [Whereupon, at 11:50 a.m. EST, the meeting was
- 16 adjourned.

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