

Note: Subcommittee notes may include preliminary discussions regarding substances considered for addition to or removal from the National List. They do not represent official National Organic Program (NOP) policy/regulations or NOSB recommendations. Proposals must be voted on by the full Board, to become recommendations to the USDA. Please see the NOP website for official NOP policy, regulations, and status of substances used in organic production and handling.

Crops Subcommittee (CS) Notes **Tuesday, December 6, 2022 2:00 pm ET**

Present: Rick Greenwood (RG), Chair; Brian Caldwell (BC), Vice Chair; Jerry D'Amore (JD); Wood Turner (WT); Amy Bruch (ADB); Mindee Jeffery (MJ)

Absent: Logan Petrey (LP); Javier Zamora (JZ); Liz Graznak (LG)

Staff: Michelle Arsenault (MA); Jared Clark (JC)

Agenda

- November 15, 2022 notes
- Limited TR Aqueous Potassium Silicate (BC)
- 2025 Sunsets:
 - Elemental sulfur (ADB)
 - Liquid fish products (ADB)
 - Sulfurous acid (JD)
 - Microcrystalline cheesewax (JD)
- Additional Items
- Adjourn

Discussion

- **November 15, 2022 notes** were accepted as written.
- **Limited TR Aqueous Potassium Silicate (BC).** The TR for Aqueous Potassium Silicate was sent to the CS November 25. The lead summarized and the CS found the TR sufficient, comprehensive, and well written.
- **2025 Sunsets:** The two leads for each of the following substances paired up to review each other's draft documents, and each presented the preliminary review. The NOSB voted unanimously at the last sunset review to retain the following four substances and the Crops Subcommittee found them to be non-controversial.
 - **Elemental sulfur (ADB).** The lead summarized the manufacture and uses of elemental sulfur, which is used as an insecticide, pesticide, and plant nutrient.
 - **Liquid fish products (ADB).** The lead summarized the uses of liquid fish, which is a plant or soil amendment, and noted that there is a clear annotation. The group also discussed a previous NOSB recommendation on Wild, Native Fish for Liquid Fish Products, which the NOP has not implemented. It is currently listed as "on hold".
 - **Sulfurous acid (JD).** A limited scope TR for sulfurous acid alternatives is in development. Members discussed alternatives.
 - **Microcrystalline cheesewax (JD).** The lead briefly summarized the uses for microcrystalline cheesewax, and the group discussed details of its use in mushroom production. Members discussed alternatives, such as soy wax, which was petitioned for use in 2015. The NOSB voted to not add it to the National List at that time.
- **Additional Items.** The group discussed the sunset review process that the Board is piloting. The Crops Subcommittee chose to use the buddy system, while the Handling Subcommittee implemented a process by which the Chair was the second reviewer for all the documents.
- **The meeting was adjourned.**

[Previous CS Notes](#)

Future call schedule (1st and 3rd Tuesdays 2:00 PM ET | 11:00 AM PT, except where noted)

November 15, 2022

December 6, 2022

December 20, 2022

Potassium Sorbate (ADB) - TR Sufficiency

2025 Sunsets: Discuss review

Aqueous potassium silicate (BC)

Lime sulfur (BC)

Hydrated lime (LG)

January 3, 2023

2025 Sunsets: Discuss review

Alcohols: Ethanol (RG/JZ)

Alcohols: Isopropanol (RG/JZ)

Sodium carbonate peroxyhydrate (JZ)

January 17, 2023

2025 Sunsets: Discuss review

Plastic mulch and covers (LP)

Ethylene gas (LP)

Newspaper or other recycled paper, without glossy or colored inks (WT)

Potassium chloride (WT)

February 7, 2023

February 21, 2023

March 7, 2023

March 21, 2023

April 4, 2023

April 18, 2023

Work Agenda

*Highlight indicates discussion. *Highlight indicates action needed. *Highlight indicates review completion and/or vote.

Petitioned Substances

Substance	Contact	Doc Type	Notes*	Scheduled, Discussed, Voted	Target meeting
Carbon Dioxide 205.601(j)	LP	Proposal	2006 TR (Handling) Petition sent to CS 01.15.21. Petition suff/TR request due 03.16.21. CS found the petition sufficient 03.2.21 and will not request a TR. Returned to CS for additional work at Fall 2021 NOSB meeting.	TBD	Spr 2023
Potassium Sorbate	ADB	Proposal	Petition sent to CS 11.22.21. Petition suff/TR request due 01.21.22. Petition found sufficient. TR requested 4.5.22. TR sent to CS 7.28.22. Sufficiency due 09.26.22. TR was not found sufficient. The CS sent additional questions to the contractor 9.20.22. Response sent to CS 12.2.22. Sufficiency due 1.31.23	9.20.22 12.20.22	Spr 2023

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Other Projects

Project	Contact	Notes*	Scheduled, Discussed, Voted	Target meeting
Research Priorities	RG/BC	Due to MS by Jan 20, 2023		Spr 2023

2025 Sunset Review

TR Requests (June 2022), Summary (Spr 2023), Review (Fall 2023)

Substance	National List	Contact	TR Request ?	Notes*	Scheduled, Discussed, Voted	Target meeting
Alcohols: Ethanol	205.601(a)(1)(i)	RG/JZ	N	Sunset date: 6/22/2025 TR: 2014 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22 1.3.23	Summary: Spr 2023 Review: Fall 2023
Alcohols: Isopropanol	205.601(a)(1)(ii)	RG/JZ	N	Sunset date: 6/22/2025 TR: 2014 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22 1.3.23	“ “
Sodium carbonate peroxyhydrate	205.601(a)(8)	JZ	N	Sunset date: 6/22/2025 TR: 2014 TR: 2006 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22 5.17.22 1.3.23	“ “
Newspaper or other recycled paper, without glossy or colored inks	205.601(b)(2)(i) and 205.601(c)	WT	N	Sunset date: 6/22/2025 TR: 2017 TR: 2006 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22 1.17.23	“ “

Plastic mulch and covers	205.601(b)(2)(ii)	LP	N	Sunset date: 6/22/2025 TR: 2016 Supplement (Biodegradable Mulch Film Made from Bioplastics) TR: 2012 (Biodegradable Mulch Film Made from Bioplastics) TAP: 1995 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22 1.17.23	“ “
Aqueous potassium silicate	205.601(e)(2) and 205.601(i)(1)	BC	Y - Lmt'd scope	Sunset date: 6/22/2025 TR: 2014 TAP: 2003 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105 TR sent to CS 11.25.22. Sufficiency due 1.24.23	3.15.22 12.06.22 12.20.22	“ “
Elemental sulfur	205.601(e)(5), 205.601(i)(10) and 205.601(j)(2)	ADB	N	Sunset date: 6/22/2025 TR: 2018 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22 12.6.22	“ “
Lime sulfur	205.601(e)(6) and 205.601(i)(6)	BC	N	Sunset date: 6/22/2025 TR: 2014 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22 12.20.22	“ “
Hydrated lime	205.601(i)(4)	LG	N	Sunset date: 6/22/2025 TR: 2015 TAP: 2002 (Calcium Hydroxide) 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22 4.5.22 12.20.22	“ “
Liquid fish - products	205.601(j)(8)	ADB	N	Sunset date: 6/22/2025 TR: 2019 (Fish-based fertilizers) TR: 2006 (Fish products) 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22 12.6.22	“ “
Sulfurous acid	205.601(j)(11)	JD	Y - Lmt'd scope on alternatives	Sunset date: 6/22/2025 TR: 2014 TR: 2010 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22 12.6.22	“ “

Ethylene gas	205.601(k)	LP	Y - Also request ed in HS	Sunset date: 6/22/2025 TR: 2011 Supplemental TR: 2007 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22 1.17.23	“ “
Microcrystalline cheesewax	205.601(o)	JD	N	Sunset date: 6/22/2025 TR: 2018 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22 12.6.22	“ “
Potassium chloride	205.602(e)	WT	Y	Sunset date: 6/22/2025 TAP: 1995 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105 Draft TR sent to CS 12.2.22. Sufficiency due 1.31.23	3.15.22 1.17.23	“ “

Milestones

Spring 2023 Milestones	Target dates (tentative)	Weeks PTM (prior to meeting)
NOP - Publish FRN, Open public comment	~Nov 10, 2022	
NOSB - Spring 2023 proposals due to NOP	Feb 14, 2023	10 weeks
New NOSB member training	TBD	
NOP - Draft Spring 2023 NOSB meeting tentative agenda	Feb 3, 2023	
NOP - Post proposals	Mar 6, 2023	7.5
Public comment closes	Apr 5, 2023	3.5
NOP - Send compiled public comments to NOSB	Apr 7, 2023	3
Public comment webinars	Apr 18 & 20, 2023	1 week
Spring 2023 NOSB meeting - Atlanta, GA	Apr 25 - 27, 2023	
Final recommendations due	May 25, 2023	

Note: Subcommittee notes may include preliminary discussions regarding substances considered for addition to or removal from the National List. They do not represent official National Organic Program (NOP) policy/regulations or NOSB recommendations. Proposals must be voted on by the full Board, to become recommendations to the USDA. Please see the NOP website for official NOP policy, regulations, and status of substances used in organic production and handling.

Crops Subcommittee (CS) Notes **Tuesday, November 15, 2022 2:00 pm ET**

Present: Rick Greenwood (RG), Chair; Brian Caldwell (BC), Vice Chair; Jerry D'Amore (JD); Wood Turner (WT); Javier Zamora (JD); Amy Bruch (ADB); Nate Powell-Palm (NPP) - observer, Mindee Jeffery (MJ) - observer

Absent: Logan Petrey (LP); Liz Graznak (LG)

Staff: Michelle Arsenault (MA); Andrea Holm (AH)

Agenda

- October 4, 2022 notes
- Fall 2022 NOSB meeting debrief
- 2025 Sunset Review Process/Assignments
- Additional Items
- Adjourn

Discussion

- **October 4, 2022 notes** were accepted as written.
- **Fall 2022 NOSB meeting debrief**
 - Subcommittee members liked the tone and discussion and enjoyed mingling with other NOSB members.
 - The subcommittee chair thanked everyone for the in-depth and thoughtful discussions.
 - The subcommittee discussed public comment submitted regarding the timing of the NOSB meetings. The NOSB may add information regarding this to the PPM.
 - A subcommittee member received feedback from virtual participants, who found value in that hybrid component.
- **2025 Sunset Review Process/Assignments.**
 - The subcommittee chair will reassign his sunsets. NOSB officers are hoping to make the sunset review process more streamlined.
 - Amy will replace Rick as subcommittee chair. She will assign editors to review other members' sunset reviews. Editors will review drafted sunset documents before they are sent to the entire subcommittee. Sunset review drafts are due Nov 30th and discussion dates were assigned.
 - Most of these sunset reviews passed during their last review with a 15 - 0 vote, though two (or more) may be considered controversial during this review. Several of them have Limited Scope Technical Reports in process, so these sunsets may be completed later.
 - Current Subcommittee chair, Rick, will send feedback from last meeting about consent calendar to Mindee and Amy.
- **Additional Items.**
 - NOP will send the 2024 sunsets final recommendations to the Subcommittee for finalization.
- **The meeting was adjourned.**

[Previous CS Notes](#)

Future call schedule (1st and 3rd Tuesdays 2:00 PM ET | 11:00 AM PT, except where noted)

November 1, 2022 - cancelled

November 15, 2022

December 6, 2022

December 20, 2022

January 3, 2023

January 17, 2023
 February 7, 2023
 February 21, 2023
 March 7, 2023
 March 21, 2023
 April 4, 2023
 April 18, 2023

Work Agenda

*Highlight indicates discussion. *Highlight indicates action needed. *Highlight indicates review completion and/or vote.

Petitioned Substances

Substance	Contact	Doc Type	Notes*	Scheduled, Discussed, Voted	Target meeting
Carbon Dioxide 205.601(j)	LP	Proposal	2006 TR (Handling) Petition sent to CS 01.15.21. Petition suff/TR request due 03.16.21. CS found the petition sufficient 03.2.21 and will not request a TR. Returned to CS for additional work at Fall 2021 NOSB meeting.	TBD	Spr 2023
Potassium Sorbate	ADB	Proposal	Petition sent to CS 11.22.21. Petition suff/TR request due 01.21.22. Petition found sufficient. TR requested 4.5.22. TR sent to CS 7.28.22. Sufficiency due 09.26.22. TR was not found sufficient. The CS sent additional questions to the contractor 9.20.22.	9.20.22 12.20.22	Spr 2023

Other Projects

Project	Contact	Notes*	Scheduled, Discussed, Voted	Target meeting
Research Priorities	RG/BC	Due to MS by Jan 20, 2023		Spr 2023

2025 Sunset Review

TR Requests (June 2022), Summary (Spr 2023), Review (Fall 2023)

Substance	National List	Contact	TR Request ?	Notes*	Scheduled, Discussed, Voted	Target meeting
Alcohols: Ethanol	205.601(a)(1)(i)	RG/JZ	N	Sunset date: 6/22/2025 TR: 2014 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22 1.3.23	Summary: Spr 2023 Review: Fall 2023

Alcohols: Isopropanol	205.601(a)(1)(ii)	RG/ JZ	N	Sunset date: 6/22/2025 TR: 2014 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22 1.3.23	“ “
Sodium carbonate peroxyhydrate	205.601(a)(8)	JZ	N	Sunset date: 6/22/2025 TR: 2014 TR: 2006 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22 5.17.22 1.3.23	“ “
Newspaper or other recycled paper, without glossy or colored inks	205.601(b)(2)(i) and 205.601(c)	WT	N	Sunset date: 6/22/2025 TR: 2017 TR: 2006 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22 1.17.23	“ “
Plastic mulch and covers	205.601(b)(2)(ii)	LP	N	Sunset date: 6/22/2025 TR: 2016 Supplement (Biodegradable Mulch Film Made from Bioplastics) TR: 2012 (Biodegradable Mulch Film Made from Bioplastics) TAP: 1995 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22 1.17.23	“ “
Aqueous potassium silicate	205.601(e)(2) and 205.601(i)(1)	BC	Y - Lmt'd scope	Sunset date: 6/22/2025 TR: 2014 TAP: 2003 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22 12.20.22	“ “
Elemental sulfur	205.601(e)(5), 205.601(i)(10) and 205.601(j)(2)	ADB	N	Sunset date: 6/22/2025 TR: 2018 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22 12.6.22	“ “
Lime sulfur	205.601(e)(6) and 205.601(i)(6)	BC	N	Sunset date: 6/22/2025 TR: 2014 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22 12.20.22	“ “
Hydrated lime	205.601(i)(4)	LG	N	Sunset date: 6/22/2025 TR: 2015 TAP: 2002 (Calcium Hydroxide) 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22 4.5.22 12.20.22	“ “

Liquid fish - products	205.601(j)(8)	ADB	N	Sunset date: 6/22/2025 TR: 2019 (Fish-based fertilizers) TR: 2006 (Fish products) 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22 12.6.22	“ “
Sulfurous acid	205.601(j)(11)	JD	Y - Lmt'd scope on alternatives	Sunset date: 6/22/2025 TR: 2014 TR: 2010 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22 12.6.22	“ “
Ethylene gas	205.601(k)	LP	Y - Also requested in HS	Sunset date: 6/22/2025 TR: 2011 Supplemental TR: 2007 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22 1.17.23	“ “
Microcrystalline cheesewax	205.601(o)	JD	N	Sunset date: 6/22/2025 TR: 2018 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22 12.6.22	“ “
Potassium chloride	205.602(e)	WT	Y	Sunset date: 6/22/2025 TAP: 1995 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22 1.17.23	“ “

Milestones

Spring 2023 Milestones	Target dates (tentative)	Weeks PTM (prior to meeting)
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NOSB - Spring 2023 proposals due to NOP	Feb 14, 2023	10 weeks
New NOSB member training	TBD	
NOP - Draft Spring 2023 NOSB meeting tentative agenda	Feb 3, 2023	
NOP - Post proposals	Mar 6, 2023	7.5
Public comment closes	Apr 5, 2023	3.5
NOP - Send compiled public comments to NOSB	Apr 7, 2023	3

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Final recommendations due	May 25, 2023	

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Crops Subcommittee (CS) Notes Tuesday, October 4, 2022 2:00 pm ET

Present: Rick Greenwood (RG), Chair; Vice Chair; Brian Caldwell (BC); Jerry D'Amore (JD); Liz Graznak (LG); Wood Turner (WT); Javier Zamora (JD); Logan Petrey (LP); Amy Bruch (ADB)

Absent: None

Staff: Michelle Arsenault (MA); Jared Clark (JC)

Agenda

- September 20, 2022 notes
- Discuss review of public comment.
- Prep for Fall meeting (Assignments, roles)
- Additional Items
- Adjourn

Discussion

- **September 20, 2022 notes** were accepted as written.
- **Discuss review of public comment.** The CS Chair described his process for summarizing written comments. The group discussed presentation of reviews and how to read and summarize comments.
- **Prep for Fall meeting (Assignments, roles).** Members reviewed the list of substances and their assignments.
- **Additional Items.** None.
- **The meeting was adjourned**

[Previous CS Notes](#)

Future call schedule (1st and 3rd Tuesdays 2:00 PM ET | 11:00 AM PT, except where noted)

September 20, 2022

Potassium Sorbate (ADB) - TR Sufficiency

October 4, 2022

October 18, 2022 - cancelled

November 1, 2022 cancelled

November 15, 2022

December 6, 2022

December 20, 2022

Work Agenda

*Highlight indicates discussion. *Highlight indicates action needed. *Highlight indicates review completion and/or vote.

Petitioned Substances

Substance	Contact	Doc Type	Notes*	Scheduled, Discussed, Voted	Target meeting
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Carbon Dioxide 205.601(a)	LP	Proposal	2006 TR (Handling) Petition sent to CS 01.15.21. Petition suff/TR request due 03.16.21. CS found the petition sufficient 03.2.21 and will not request a TR. Returned to CS for additional work at Fall 2021 NOSB meeting.	5.17.22 7.5.22	Fall 2022
Potassium Hydroxide	RG	Proposal	Petition sent to CS 11.22.21. Petition suff/TR request due 01.21.22. Petition found sufficient. No TR requested.	12.7.21 01.18.22 8.2.22	Fall 2022
Potassium Sorbate	ADB	Proposal	Petition sent to CS 11.22.21. Petition suff/TR request due 01.21.22. Petition found sufficient. TR requested 4.5.22. TR sent to CS 7.28.22. Sufficiency due 09.26.22. TR was not found sufficient. The CS sent additional questions to the contractor.	12.7.21 01.18.22 4.5.22 9.20.22	Spr 2023

Other Projects

Project	Contact	Notes*	Scheduled, Discussed, Voted	Target meeting
Research Priorities	RG/All	Due to MS by 7.11.22	7.5.22	Fall 2022

2024 Sunset Review

TR Requests (June 2021), Summary (Spr 2022), Review (Fall 2022)

Substance	National List	Contact	TR?	Notes*	Scheduled, Discussed, Voted	Target meeting
Herbicides, soap-based	205.601(b)(1)	RG	N	Sunset date: 10.30.24 TR: 1996 TAP ; 2015 TR . 2017/Fall - Rec to Renew	6.21.22	Summary: Spr 2022 Review: Fall 2022
Biodegradable biobased mulch film	205.601(b)(2)(iii)	LP	N	Sunset date: 10.30.24 TR: 2012 TR ; 2015 Report ; NOP 15-1 ; 2016 Supplemental TR . 2017/Fall - Rec to Renew	5.17.22	" "
Boric acid	205.601(e)(3)	WT	N	Sunset date: 10.30.24 TR: 1995 TAP . 2017/Fall - Rec to Renew	6.7.22	" "
Sticky traps/barriers	205.601(e)(9)	RG	N	Sunset date: 10.30.24 TR: 1995 TAP . 2017/Fall - Rec to Renew	6.21.22	" "
Elemental sulfur	205.601(h)(2)	BC	N	Sunset date: 11.22.24 TR: 1995 TAP ; 2018 TR . 2018/Spring - Rec to ADD	7.5.22	" "

Coppers, fixed	205.601(i)(2)	JD	Y	Sunset date: 10.30.24 TR: 1995 TAP ; 2011 TR . 2017/Fall - Rec to Renew CS requested a TR on 12.20.21. Draft TR sent to CS 7.14.22. TR found sufficient 8.2.22.	7.19.22 8.2.22	“ “
Copper sulfate	205.601(i)(3)	JD	Y	Sunset date: 10.30.24 TR: 1995 TAP ; 2011 TR . 2017/Fall - Rec to Renew CS requested a TR on 12.20.21. Draft TR sent to CS 7.14.22. . TR found sufficient 8.2.22.	7.19.22 8.2.22	“ “
Polyoxin D zinc salt	205.601(i)(11)	BC	Y Lmt'd Scope	Sunset date: 11.22.24 TR: 2012 TR ; 2017 Limited Scope TR . 2018/Spring - Rec to ADD CS requested a Limited Scope TR on 6.1.21. TR due to NOP early November. TR sent to CS 11.29.21. TR suff due 01.28.22. TR found sufficient 2.1.22	6.21.22	“ “
Humic acids	205.601(j)(3)	ADB	N	Sunset date: 10.30.24 TR: 1996 TAP ; 2006 TR ; 2012 TR (oxidized lignite/humic acid derivatives) . 2017/Fall - Rec to Renew	7.19.22	“ “
Micronutrients: Soluble boron products	205.601(j)(7)(i)	ADB	Y Lmt'd Scope	Sunset date: 1.28.24 TR: 2010 TR (Micronutrients) . 2017/Fall - Rec to Renew CS requested a Limited Scope TR on 7.23.21. TR due to NOP 12.22.21. TR sent to CS 1.18.22. Suff due 3.19.22. TR found sufficient 2.15.22	7.19.22	“ “
Micronutrients: Sulfates, carbonates, oxides, or silicates of zinc, copper, iron, manganese, molybdenum, selenium, and cobalt	205.601(j)(7)(ii)	LP	N	Sunset date: 1.28.24 TR: 2010 TR (Micronutrients) . 2017/Fall - Rec to Renew	5.17.22	“ “
Vitamins C and E	205.601(j)(9)	WT	N	Sunset date: 10.30.24 TR: 1995 TAP ; 2015 TR . 2017/Fall - Rec to Renew C&E/REMOVE B1	6.7.22	“ “
Squid byproducts	205.601(j)(10)	LP	N	Sunset date: 1.28.24 TR: 2016 TR 2016/Spring - Rec to ADD	5.17.22	“ “

Lead salts	205.602(d)	JZ	N	Sunset date: 10.30.24 TR: N/A 2017/Fall - Rec to Renew	7.19.22	“ “
Tobacco dust (nicotine sulfate)	205.602(j)	LP	N	Sunset date: 10.30.24 TR: N/A 2017/Fall - Rec to Renew	6.7.22	“ “

Milestones

Fall 2022 Milestones	Target dates (tentative)
NOP - Publish FRN, Open public comment	~May 20, 2022
NOP - Draft Fall 2022 NOSB meeting agenda	Aug 5, 2022
NOSB - Fall 2022 proposals due to NOP	Aug 11, 2022
NOP - Post proposals	Aug 31, 2022
Public comment closes	Sep 29, 2022
NOP - Send compiled public comments to NOSB	~Oct 3, 2022
Public comment webinars	Oct 18 & 20, 2022
Fall 2022 NOSB meeting - Sacramento, CA	Oct 25 - 27, 2022
Final recommendations due	Nov 25, 2022

2025 Sunset Review

TR Requests (June 2022), Summary (Spr 2023), Review (Fall 2023)

Substance	National List	Contact	TR Request?	Notes*	Scheduled, Discussed, Voted	Target meeting
Alcohols: Ethanol	205.601(a)(1)(i)	RG	N	Sunset date: 6/22/2025 TR: 2014 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	Summary: Spr 2023 Review: Fall 2023
Alcohols: Isopropanol	205.601(a)(1)(ii)	RG	N	Sunset date: 6/22/2025 TR: 2014 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “

Sodium carbonate peroxyhydrate	205.601(a)(8)	JZ	N	Sunset date: 6/22/2025 TR: 2014 TR: 2006 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22 5.17.22	“ “
Newspaper or other recycled paper, without glossy or colored inks	205.601(b)(2)(i) and 205.601(c)	WT	N	Sunset date: 6/22/2025 TR: 2017 TR: 2006 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Plastic mulch and covers	205.601(b)(2)(ii)	LP	N	Sunset date: 6/22/2025 TR: 2016 Supplement (Biodegradable Mulch Film Made from Bioplastics) TR: 2012 (Biodegradable Mulch Film Made from Bioplastics) TAP: 1995 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Aqueous potassium silicate	205.601(e)(2) and 205.601(i)(1)	BC	Y - Lmt'd scope	Sunset date: 6/22/2025 TR: 2014 TAP: 2003 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Elemental sulfur	205.601(e)(5), 205.601(i)(10) and 205.601(j)(2)	ADB	N	Sunset date: 6/22/2025 TR: 2018 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Lime sulfur	205.601(e)(6) and 205.601(i)(6)	BC	N	Sunset date: 6/22/2025 TR: 2014 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Hydrated lime	205.601(i)(4)	LG	N	Sunset date: 6/22/2025 TR: 2015 TAP: 2002 (Calcium Hydroxide) 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22 4.5.22	“ “
Liquid fish - products	205.601(j)(8)	ADB	N	Sunset date: 6/22/2025 TR: 2019 (Fish-based fertilizers) TR: 2006 (Fish products) 2018/Fall - Rec to Renew	3.15.22	“ “

				Sunset renewal: 05/07/2020, 85 FR 27105		
Sulfurous acid	205.601(j)(11)	BC	Y - Lmt'd scope on alternatives	Sunset date: 6/22/2025 TR: 2014 TR: 2010 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Ethylene gas	205.601(k)	LP	Y - Also requested in HS	Sunset date: 6/22/2025 TR: 2011 Supplemental TR: 2007 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Microcrystalline cheesewax	205.601(o)	JD	N	Sunset date: 6/22/2025 TR: 2018 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Potassium chloride	205.602(e)	WT	Y	Sunset date: 6/22/2025 TAP: 1995 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “

Note: Subcommittee notes may include preliminary discussions regarding substances considered for addition to or removal from the National List. They do not represent official National Organic Program (NOP) policy/regulations or NOSB recommendations. Proposals must be voted on by the full Board, to become recommendations to the USDA. Please see the NOP website for official NOP policy, regulations, and status of substances used in organic production and handling.

Crops Subcommittee (CS) Notes **Tuesday, September 20, 2022 2:00 pm ET**

Present: Rick Greenwood (RG), Chair; Amy Bruch (ADB), Vice Chair; Brian Caldwell (BC); Jerry D'Amore (JD); Liz Graznak (LG); Wood Turner (WT); Javier Zamora (JD); Nate Powell-Palm (NPP) - observer

Absent: Logan Petrey (LP)

Staff: Michelle Arsenault (MA); Jared Clark (JC)

Agenda

- Review August 2, 2022 notes
- Potassium Sorbate (ADB) - TR Sufficiency
- Additional Items
- Adjourn

Discussion

- **August 2, 2022 notes** were accepted as written.
- **Potassium Sorbate (ADB).** Potassium sorbate is being petitioned for use as an active ingredient in fungicides and pesticides. It is also currently an EPA List 4 inert. The lead summarized the uses, manufacture, and several other sections of the TR. the CS questioned whether it addressed the intended use or focused on use as a food preservative. Members discussed beneficials (if it affects beneficial insects), contamination during manufacturing, The CS feels that they need some additional information, and will compile a list of additional questions and send to the lead, before it is forwarded to the NOP.
- **Additional Items.** None.
- **The meeting was adjourned**

[Previous CS Notes](#)

Future call schedule (1st and 3rd Tuesdays 2:00 PM ET | 11:00 AM PT, except where noted)

August 2, 2022

2024 Sunsets: Coppers, fixed (JD) - discuss/vote

2024 Sunsets: Copper sulfate (JD) - discuss/vote

Potassium Hydroxide - petitioned (RG) - discuss proposal/vote

August 16, 2022

September 6, 2022 - cancelled

September 20, 2022

Potassium Sorbate (ADB) - TR Sufficiency

October 4, 2022

October 18, 2022 - cancelled

November 1, 2022

November 15, 2022

December 6, 2022

December 20, 2022

Work Agenda

*Highlight indicates discussion. *Highlight indicates action needed. *Highlight indicates review completion and/or vote.

Petitioned Substances

Substance	Contact	Doc Type	Notes*	Scheduled, Discussed, Voted	Target meeting
Carbon Dioxide 205.601(a)	LP	Proposal	2006 TR (Handling) Petition sent to CS 01.15.21. Petition suff/TR request due 03.16.21. CS found the petition sufficient 03.2.21 and will not request a TR. Returned to CS for additional work at Fall 2021 NOSB meeting.	5.17.22 7.5.22	Fall 2022
Potassium Hydroxide	RG	Proposal	Petition sent to CS 11.22.21. Petition suff/TR request due 01.21.22. Petition found sufficient. No TR requested.	12.7.21 01.18.22 8.2.22	Fall 2022
Potassium Sorbate	ADB	Proposal	Petition sent to CS 11.22.21. Petition suff/TR request due 01.21.22. Petition found sufficient. TR requested 4.5.22. TR sent to CS 7.28.22. Sufficiency due 09.26.22. TR was not found sufficient. The CS will send questions to the contractor.	12.7.21 01.18.22 4.5.22 9.20.22	Spr 2023

Other Projects

Project	Contact	Notes*	Scheduled, Discussed, Voted	Target meeting
Research Priorities	RG/All	Due to MS by 7.11.22	7.5.22	Fall 2022

2024 Sunset Review

TR Requests (June 2021), Summary (Spr 2022), Review (Fall 2022)

Substance	National List	Contact	TR?	Notes*	Scheduled, Discussed, Voted	Target meeting
Herbicides, soap-based	205.601(b)(1)	RG	N	Sunset date: 10.30.24 TR: 1996 TAP ; 2015 TR . 2017/Fall - Rec to Renew	6.21.22	Summary: Spr 2022 Review: Fall 2022
Biodegradable biobased mulch film	205.601(b)(2)(iii)	LP	N	Sunset date: 10.30.24 TR: 2012 TR ; 2015 Report ; NOP 15-1 ; 2016 Supplemental TR . 2017/Fall - Rec to Renew	5.17.22	" "
Boric acid	205.601(e)(3)	WT	N	Sunset date: 10.30.24 TR: 1995 TAP . 2017/Fall - Rec to Renew	6.7.22	" "
Sticky traps/barriers	205.601(e)(9)	RG	N	Sunset date: 10.30.24 TR: 1995 TAP . 2017/Fall - Rec to Renew	6.21.22	" "

Elemental sulfur	205.601(h)(2)	BC	N	Sunset date: 11.22.24 TR: 1995 TAP ; 2018 TR . 2018/Spring - Rec to ADD	7.5.22	“ “
Coppers, fixed	205.601(i)(2)	JD	Y	Sunset date: 10.30.24 TR: 1995 TAP ; 2011 TR . 2017/Fall - Rec to Renew CS requested a TR on 12.20.21. Draft TR sent to CS 7.14.22. Draft TR found sufficient 8.2.22 and sent back to contractor for finalization.	7.19.22 8.2.22	“ “
Copper sulfate	205.601(i)(3)	JD	Y	Sunset date: 10.30.24 TR: 1995 TAP ; 2011 TR . 2017/Fall - Rec to Renew CS requested a TR on 12.20.21. Draft TR sent to CS 7.14.22. Draft TR found sufficient 8.2.22 and sent back to contractor for finalization.	7.19.22 8.2.22	“ “
Polyoxin D zinc salt	205.601(i)(11)	BC	Y Lmt'd Scope	Sunset date: 11.22.24 TR: 2012 TR ; 2017 Limited Scope TR . 2018/Spring - Rec to ADD CS requested a Limited Scope TR on 6.1.21. TR due to NOP early November. TR sent to CS 11.29.21. TR suff due 01.28.22. TR found sufficient 2.1.22	6.21.22	“ “
Humic acids	205.601(j)(3)	ADB	N	Sunset date: 10.30.24 TR: 1996 TAP ; 2006 TR ; 2012 TR (oxidized lignite/humic acid derivatives) . 2017/Fall - Rec to Renew	7.19.22	“ “
Micronutrients: Soluble boron products	205.601(j)(7)(i)	ADB	Y Lmt'd Scope	Sunset date: 1.28.24 TR: 2010 TR (Micronutrients) . 2017/Fall - Rec to Renew CS requested a Limited Scope TR on 7.23.21. TR due to NOP 12.22.21. TR sent to CS 1.18.22. Suff due 3.19.22. TR found sufficient 2.15.22	7.19.22	“ “
Micronutrients: Sulfates, carbonates, oxides, or silicates of zinc, copper, iron, manganese, molybdenum, selenium, and cobalt	205.601(j)(7)(ii)	LP	N	Sunset date: 1.28.24 TR: 2010 TR (Micronutrients) . 2017/Fall - Rec to Renew	5.17.22	“ “

Vitamins C and E	205.601(j)(9)	WT	N	Sunset date: 10.30.24 TR: 1995 TAP ; 2015 TR . 2017/Fall - Rec to Renew C&E/REMOVE B1	6.7.22	“ “
Squid byproducts	205.601(j)(10)	LP	N	Sunset date: 1.28.24 TR: 2016 TR 2016/Spring - Rec to ADD	5.17.22	“ “
Lead salts	205.602(d)	JZ	N	Sunset date: 10.30.24 TR: N/A 2017/Fall - Rec to Renew	7.19.22	“ “
Tobacco dust (nicotine sulfate)	205.602(j)	LP	N	Sunset date: 10.30.24 TR: N/A 2017/Fall - Rec to Renew	6.7.22	“ “

Milestones

Fall 2022 Milestones	Target dates (tentative)
NOP - Publish FRN, Open public comment	~May 20, 2022
NOP - Draft Fall 2022 NOSB meeting agenda	Aug 5, 2022
NOSB - Fall 2022 proposals due to NOP	Aug 11, 2022
NOP - Post proposals	Aug 31, 2022
Public comment closes	Sep 29, 2022
NOP - Send compiled public comments to NOSB	~Oct 3, 2022
Public comment webinars	Oct 18 & 20, 2022
Fall 2022 NOSB meeting - Sacramento, CA	Oct 25 - 27, 2022
Final recommendations due	Nov 25, 2022

2025 Sunset Review

TR Requests (June 2022), Summary (Spr 2023), Review (Fall 2023)

Substance	National List	Cont act	TR Re quest?	Notes*	Scheduled, Discussed, Voted	Target meeting
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Alcohols: Ethanol	205.601(a)(1)(i)	RG	N	Sunset date: 6/22/2025 TR: 2014 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	Summary: Spr 2023 Review: Fall 2023
Alcohols: Isopropanol	205.601(a)(1)(ii)	RG	N	Sunset date: 6/22/2025 TR: 2014 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Sodium carbonate peroxyhydrate	205.601(a)(8)	JZ	N	Sunset date: 6/22/2025 TR: 2014 TR: 2006 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22 5.17.22	“ “
Newspaper or other recycled paper, without glossy or colored inks	205.601(b)(2)(i) and 205.601(c)	WT	N	Sunset date: 6/22/2025 TR: 2017 TR: 2006 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Plastic mulch and covers	205.601(b)(2)(ii)	LP	N	Sunset date: 6/22/2025 TR: 2016 Supplement (Biodegradable Mulch Film Made from Bioplastics) TR: 2012 (Biodegradable Mulch Film Made from Bioplastics) TAP: 1995 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Aqueous potassium silicate	205.601(e)(2) and 205.601(i)(1)	BC	Y - Lmt'd scope	Sunset date: 6/22/2025 TR: 2014 TAP: 2003 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Elemental sulfur	205.601(e)(5), 205.601(i)(10) and 205.601(j)(2)	ADB	N	Sunset date: 6/22/2025 TR: 2018 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Lime sulfur	205.601(e)(6) and 205.601(i)(6)	BC	N	Sunset date: 6/22/2025 TR: 2014 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “

Hydrated lime	205.601(i)(4)	LG	N	Sunset date: 6/22/2025 TR: 2015 TAP: 2002 (Calcium Hydroxide) 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22 4.5.22	“ “
Liquid fish - products	205.601(j)(8)	ADB	N	Sunset date: 6/22/2025 TR: 2019 (Fish-based fertilizers) TR: 2006 (Fish products) 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Sulfurous acid	205.601(j)(11)	BC	Y - Lmt'd scope on altern- atives	Sunset date: 6/22/2025 TR: 2014 TR: 2010 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Ethylene gas	205.601(k)	LP	Y - Also request ed in HS	Sunset date: 6/22/2025 TR: 2011 Supplemental TR: 2007 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Microcrystalline cheesewax	205.601(o)	JD	N	Sunset date: 6/22/2025 TR: 2018 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Potassium chloride	205.602(e)	WT	Y	Sunset date: 6/22/2025 TAP: 1995 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “

Note: Subcommittee notes may include preliminary discussions regarding substances considered for addition to or removal from the National List. They do not represent official National Organic Program (NOP) policy/regulations or NOSB recommendations. Proposals must be voted on by the full Board, to become recommendations to the USDA. Please see the NOP website for official NOP policy, regulations, and status of substances used in organic production and handling.

Crops Subcommittee (CS) Notes **Tuesday, August 2, 2022 2:00 pm ET**

Present: Rick Greenwood (RG), Chair; Amy Bruch (ADB), Vice Chair; Brian Caldwell (BC); Jerry D'Amore (JD); Logan Petrey (LP); Liz Graznak (LG); Wood Turner (WT);; Nate Powell-Palm (NPP) – observer; Javier Zamora (JD)

Absent:

Staff: Michelle Arsenault (MA); Jared Clark (JC)

Agenda

- Review July 19, 2022 notes
- 2024 Sunsets: Coppers, fixed (JD) - discuss/vote
- 2024 Sunsets: Copper sulfate (JD) - discuss/vote
- Potassium Hydroxide - petitioned (RG) - discuss proposal/vote
- Additional Items
- Adjourn

Discussion

- **July 19, 2022 notes** were approved with a correction to the “additional items” section.
- **Copper TR sufficiency (JD).** The lead finds the TR sufficient, and members agreed. The NOSB Chair noted that coppers are a great example of how well the organic system is working, because the view of coppers has evolved as the community continues to learn new information about human health concerns. The CS overall found the TR sufficient and would also like to pose some clarifying questions. The CS Chair will pass those along to NOP.
- **2024 Sunsets: Coppers, fixed, and Copper sulfate (JD).** The lead presented the summaries of the two copper substances together, and the Crops Subcommittee voted on the listings separately. The group discussed use, effectiveness, quantity, human health concerns, alternatives, and the need for additional research. One member noted that it is very expensive to use copper and therefore it's generally not overused. Another member suggested an annotation with an annual limit. The CS looks forward to full Board discussion at the Fall 2022 meeting.

Motion to remove coppers, fixed from the National List

Motion by: Jerry D'Amore

Seconded by: Brian Caldwell

Yes: 1 No: 6 Abstain: 0 Absent: 1 Recuse: 0

Motion to remove copper sulfate from the National List

Motion by: Jerry D'Amore

Seconded by: Amy Bruch

Yes: 1 No: 5 Abstain: 1 Absent: 1 Recuse: 0

- **Potassium hydroxide - petitioned (RG).** The group discussed the draft proposal. The CS did not request a new TR because potassium hydroxide is already on the NL and this petition is requesting an expanded use. The material was found to satisfy the OFPA criteria, but a member noted that there are already alternatives on the list, and questioned why the NOSB would have to approve an alternative method for a specific species of fish. The CS had lingering questions about the phosphoric acid used as a neutralizer.

Motion to add potassium hydroxide to the National List at §205.601

Motion by: Rick Greenwood

Seconded by: Jerry D'Amore

Yes: 6 No: 1 Abstain: 0 Recuse: 0 Absent: 1

- **Additional Items.** None
- **The meeting was adjourned**

[Previous CS Notes](#)

Future call schedule (1st and 3rd Tuesdays 2:00 PM ET | 11:00 AM PT, except where noted)

July 19, 2022

2024 Sunsets: Humic acids (ADB) - discuss/vote

2024 Sunsets: Micronutrients: Soluble boron products (ADB) - discuss/vote

2024 Sunsets: Lead salts (JZ) - discuss/vote

August 2, 2022

2024 Sunsets: Coppers, fixed (JD) - discuss/vote

2024 Sunsets: Copper sulfate (JD) - discuss/vote

Potassium Hydroxide - petitioned (RG) - discuss proposal/vote

August 16, 2022

September 6, 2022

Potassium Sorbate (ADB) - TR Sufficiency

September 20, 2022

October 4, 2022

October 18, 2022

November 1, 2022

November 15, 2022

December 6, 2022

December 20, 2022

Work Agenda

*Highlight indicates discussion. *Highlight indicates action needed. *Highlight indicates review completion and/or vote.

Petitioned Substances

Substance	Contact	Doc Type	Notes*	Scheduled, Discussed, Voted	Target meeting
Carbon Dioxide 205.601(a)	LP	Proposal	2006 TR (Handling) Petition sent to CS 01.15.21. Petition suff/TR request due 03.16.21. CS found the petition sufficient 03.2.21 and will not request a TR. Returned to CS for additional work at Fall 2021 NOSB meeting.	5.17.22 7.5.22	Fall 2022
Potassium Hydroxide	RG	Proposal	Petition sent to CS 11.22.21. Petition suff/TR request due 01.21.22. Petition found sufficient. No TR requested.	12.7.21 01.18.22 8.2.22	Fall 2022

Potassium Sorbate	ADB	Proposal	Petition sent to CS 11.22.21. Petition suff/TR request due 01.21.22. Petition found sufficient. TR requested 4.5.22. TR sent to CS 7.28.22. Sufficiency due 09.26.22	12.7.21 01.18.22 4.5.22 TBD	Spr 2023
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Other Projects

Project	Contact	Notes*	Scheduled, Discussed, Voted	Target meeting
Research Priorities	RG/All	Due to MS by 7.11.22	7.5.22	Fall 2022

2024 Sunset Review

TR Requests (June 2021), Summary (Spr 2022), Review (Fall 2022)

Substance	National List	Contact	TR?	Notes*	Scheduled, Discussed, Voted	Target meeting
Herbicides, soap-based	205.601(b)(1)	RG	N	Sunset date: 10.30.24 TR: 1996 TAP ; 2015 TR . 2017/Fall - Rec to Renew	6.21.22	Summary: Spr 2022 Review: Fall 2022
Biodegradable biobased mulch film	205.601(b)(2)(iii)	LP	N	Sunset date: 10.30.24 TR: 2012 TR ; 2015 Report ; NOP 15-1 ; 2016 Supplemental TR . 2017/Fall - Rec to Renew	5.17.22	" "
Boric acid	205.601(e)(3)	WT	N	Sunset date: 10.30.24 TR: 1995 TAP . 2017/Fall - Rec to Renew	6.7.22	" "
Sticky traps/barriers	205.601(e)(9)	RG	N	Sunset date: 10.30.24 TR: 1995 TAP . 2017/Fall - Rec to Renew	6.21.22	" "
Elemental sulfur	205.601(h)(2)	BC	N	Sunset date: 11.22.24 TR: 1995 TAP ; 2018 TR . 2018/Spring - Rec to ADD	7.5.22	" "
Coppers, fixed	205.601(i)(2)	JD	Y	Sunset date: 10.30.24 TR: 1995 TAP ; 2011 TR . 2017/Fall - Rec to Renew CS requested a TR on 12.20.21. Draft TR sent to CS 7.14.22. TR found sufficient 8.2.22.	7.19.22 8.2.22	" "
Copper sulfate	205.601(i)(3)	JD	Y	Sunset date: 10.30.24 TR: 1995 TAP ; 2011 TR . 2017/Fall - Rec to Renew CS requested a TR on 12.20.21. Draft TR sent to CS 7.14.22. TR found sufficient 8.2.22.	7.19.22 8.2.22	" "

Polyoxin D zinc salt	205.601(i)(11)	BC	Y Lmt'd Scope	Sunset date: 11.22.24 TR: 2012 TR ; 2017 Limited Scope TR . 2018/Spring - Rec to ADD CS requested a Limited Scope TR on 6.1.21. TR due to NOP early November. TR sent to CS 11.29.21. TR suff due 01.28.22. TR found sufficient 2.1.22	6.21.22	“ “
Humic acids	205.601(j)(3)	ADB	N	Sunset date: 10.30.24 TR: 1996 TAP ; 2006 TR ; 2012 TR (oxidized lignite/humic acid derivatives) . 2017/Fall - Rec to Renew	7.19.22	“ “
Micronutrients: Soluble boron products	205.601(j)(7)(i)	ADB	Y Lmt'd Scope	Sunset date: 1.28.24 TR: 2010 TR (Micronutrients) . 2017/Fall - Rec to Renew CS requested a Limited Scope TR on 7.23.21. TR due to NOP 12.22.21. TR sent to CS 1.18.22. Suff due 3.19.22. TR found sufficient 2.15.22	7.19.22	“ “
Micronutrients: Sulfates, carbonates, oxides, or silicates of zinc, copper, iron, manganese, molybdenum, selenium, and cobalt	205.601(j)(7)(ii)	LP	N	Sunset date: 1.28.24 TR: 2010 TR (Micronutrients) . 2017/Fall - Rec to Renew	5.17.22	“ “
Vitamins C and E	205.601(j)(9)	WT	N	Sunset date: 10.30.24 TR: 1995 TAP ; 2015 TR . 2017/Fall - Rec to Renew C&E/REMOVE B1	6.7.22	“ “
Squid byproducts	205.601(j)(10)	LP	N	Sunset date: 1.28.24 TR: 2016 TR 2016/Spring - Rec to ADD	5.17.22	“ “
Lead salts	205.602(d)	JZ	N	Sunset date: 10.30.24 TR: N/A 2017/Fall - Rec to Renew	7.19.22	“ “
Tobacco dust (nicotine sulfate)	205.602(j)	LP	N	Sunset date: 10.30.24 TR: N/A 2017/Fall - Rec to Renew	6.7.22	“ “

Milestones

Fall 2022 Milestones	Target dates (tentative)
NOP - Publish FRN, Open public comment	~May 20, 2022
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Final recommendations due	Nov 25, 2022

2025 Sunset Review

TR Requests (June 2022), Summary (Spr 2023), Review (Fall 2023)

Substance	National List	Cont act	TR Re quest?	Notes*	Scheduled, Discussed, Voted	Target meeting
Alcohols: Ethanol	205.601(a)(1)(i)	RG	N	Sunset date: 6/22/2025 TR: 2014 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	Summary: Spr 2023 Review: Fall 2023
Alcohols: Isopropanol	205.601(a)(1)(ii)	RG	N	Sunset date: 6/22/2025 TR: 2014 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Sodium carbonate peroxyhydrate	205.601(a)(8)	JZ	N	Sunset date: 6/22/2025 TR: 2014 TR: 2006 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22 5.17.22	“ “
Newspaper or other recycled paper, without glossy or colored inks	205.601(b)(2)(i) and 205.601(c)	WT	N	Sunset date: 6/22/2025 TR: 2017 TR: 2006 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “

Plastic mulch and covers	205.601(b)(2)(ii)	LP	N	Sunset date: 6/22/2025 TR: 2016 Supplement (Biodegradable Mulch Film Made from Bioplastics) TR: 2012 (Biodegradable Mulch Film Made from Bioplastics) TAP: 1995 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Aqueous potassium silicate	205.601(e)(2) and 205.601(i)(1)	BC	Y - Lmt'd scope	Sunset date: 6/22/2025 TR: 2014 TAP: 2003 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Elemental sulfur	205.601(e)(5), 205.601(i)(10) and 205.601(j)(2)	ADB	N	Sunset date: 6/22/2025 TR: 2018 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Lime sulfur	205.601(e)(6) and 205.601(i)(6)	BC	N	Sunset date: 6/22/2025 TR: 2014 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Hydrated lime	205.601(i)(4)	LG	N	Sunset date: 6/22/2025 TR: 2015 TAP: 2002 (Calcium Hydroxide) 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22 4.5.22	“ “
Liquid fish - products	205.601(j)(8)	ADB	N	Sunset date: 6/22/2025 TR: 2019 (Fish-based fertilizers) TR: 2006 (Fish products) 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Sulfurous acid	205.601(j)(11)	BC	Y - Lmt'd scope on alternatives	Sunset date: 6/22/2025 TR: 2014 TR: 2010 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Ethylene gas	205.601(k)	LP	Y - Also request ed in HS	Sunset date: 6/22/2025 TR: 2011 Supplemental TR: 2007 2018/Fall - Rec to Renew	3.15.22	“ “

				Sunset renewal: 05/07/2020, 85 FR 27105		
Microcrystalline cheesewax	205.601(o)	JD	N	Sunset date: 6/22/2025 TR: 2018 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Potassium chloride	205.602(e)	WT	Y	Sunset date: 6/22/2025 TAP: 1995 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “

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Crops Subcommittee (CS) Notes **Tuesday, July 19, 2022 2:00 pm ET**

Present: Rick Greenwood (RG), Chair; Amy Bruch (ADB), Vice Chair; Brian Caldwell (BC); Jerry D'Amore (JD); Logan Petrey (LP); Javier Zamora (JD); Liz Graznak (LG); Mindee Jeffery - observer; Nate Powell-Palm (NPP) - observer

Absent: Wood Turner (WT)

Staff: Michelle Arsenault (MA); Jared Clark (JC)

Agenda

- Review July 5, 2022 notes
- 2024 Sunsets: Humic acids (ADB) - discuss/vote
- 2024 Sunsets: Micronutrients: Soluble boron products (ADB) - discuss/vote
- 2024 Sunsets: Lead salts (JZ) - discuss/vote
- Additional Items
- Adjourn

Discussion

- **July 5, 2022 notes** were accepted as written
- **2024 Sunsets: Micronutrients: Soluble boron products (ADB).** The lead summarized the uses of soluble boron and noted that the few comments they received were all supportive of its continued use.

Motion to remove micronutrients: soluble boron products from the National List

Motion by: Amy Bruch

Seconded by: Jerry D'Amore

Yes: 0 No: 7 Abstain: 0 Recuse: 0 Absent: 1

- **2024 Sunsets: Humic acids (ADB).** The lead summarized the uses of humic acid, and indicated that in general it is not controversial, is found to be beneficial, and is in wide, expansive use. A small percentage of commenters did note some environmental issues with extraction. The CS moved to a vote and will submit the review for the Fall meeting agenda.

Motion to remove humic acids from the National List

Motion by: Amy Bruch

Seconded by: Rick Greenwood

Yes: 0 No: 7 Abstain: 0 Recuse: 0 Absent: 1

- **2024 Sunsets: Lead salts (JZ).** The lead briefly summarized lead salts, which is a prohibited substance, and the CS moved to a vote.

Motion to remove lead salts from the National List

Motion by: Javier Zamora

Seconded by: Amy Bruch

Yes: 0 No: 7 Abstain: 0 Recuse: 0 Absent: 1

- **Additional Items.** Copper TR summary (JD). The CS received a draft TR, and the lead gave a brief summary and opened it up for discussion by the group. He noted the new TR does not reveal new areas of concern, but does contain more data about potential environmental and human health issues. The

lead made the distinction between use of coppers in aquatic systems versus use in soil. The TR mentions both, but the listings currently under review are for soil-based use (§§ 205.601(i)(2) and 205.601(i)(3)). Previous commenters who opposed the listing focused on use in aquatic systems/rice cultivation. A member made a distinction between total copper vs. available copper. Another member added a comment about metals in general and that there are really no safe levels in environment. The lead asked for feedback about nitrogen fixing and the potential risk for antibiotic resistance. Members will review the TR before the next Subcommittee call so they can discuss and vote on the next call.

- **The meeting was adjourned**

[Previous CS Notes](#)

Future call schedule (1st and 3rd Tuesdays 2:00 PM ET | 11:00 AM PT, except where noted)

July 5, 2022

- 2024 Sunsets: Elemental sulfur (BC) - discuss/vote
- Carbon Dioxide (LP) - discuss proposal/vote
- Research Priorities - discuss, finalize list for Materials Subcomm

July 19, 2022

- 2024 Sunsets: Humic acids (ADB) - discuss/vote
- 2024 Sunsets: Micronutrients: Soluble boron products (ADB) - discuss/vote
- 2024 Sunsets: Lead salts (JZ) - discuss/vote

August 2, 2022

- 2024 Sunsets: Coppers, fixed (JD) - discuss/vote
- 2024 Sunsets: Copper sulfate (JD) - discuss/vote
- Potassium Hydroxide - petitioned (RG) - discuss proposal/vote

August 16, 2022

September 6, 2022

September 20, 2022

October 4, 2022

October 18, 2022

November 1, 2022

November 15, 2022

December 6, 2022

December 20, 2022

Work Agenda

*Highlight indicates discussion. *Highlight indicates action needed. *Highlight indicates review completion and/or vote.

Petitioned Substances

Substance	Contact	Doc Type	Notes*	Scheduled, Discussed, Voted	Target meeting
Carbon Dioxide 205.601(a)	LP	Proposal	2006 TR (Handling) Petition sent to CS 01.15.21. Petition suff/TR request due 03.16.21. CS found the petition sufficient 03.2.21 and will not request a TR. Returned to CS for additional work at Fall 2021 NOSB meeting.	5.17.22 7.5.22	Fall 2022

Potassium Hydroxide	RG	Proposal	Petition sent to CS 11.22.21. Petition suff/TR request due 01.21.22. Petition found sufficient. No TR requested.	12.7.21 01.18.22 8.2.22	Fall 2022
Potassium Sorbate	ADB	Proposal	Petition sent to CS 11.22.21. Petition suff/TR request due 01.21.22. Petition found sufficient. TR requested 4.5.22.	12.7.21 01.18.22 4.5.22 TBD	Spr 2023

Other Projects

Project	Contact	Notes*	Scheduled, Discussed, Voted	Target meeting
Research Priorities	RG/All	Due to MS by 7.11.22	7.5.22	Fall 2022

2024 Sunset Review

TR Requests (June 2021), Summary (Spr 2022), Review (Fall 2022)

Substance	National List	Contact	TR?	Notes*	Scheduled, Discussed, Voted	Target meeting
Herbicides, soap-based	205.601(b)(1)	RG	N	Sunset date: 10.30.24 TR: 1996 TAP ; 2015 TR . 2017/Fall - Rec to Renew	6.21.22	Summary: Spr 2022 Review: Fall 2022
Biodegradable biobased mulch film	205.601(b)(2)(iii)	LP	N	Sunset date: 10.30.24 TR: 2012 TR ; 2015 Report ; NOP 15-1 ; 2016 Supplemental TR . 2017/Fall - Rec to Renew	5.17.22	“ “
Boric acid	205.601(e)(3)	WT	N	Sunset date: 10.30.24 TR: 1995 TAP . 2017/Fall - Rec to Renew	6.7.22	“ “
Sticky traps/barriers	205.601(e)(9)	RG	N	Sunset date: 10.30.24 TR: 1995 TAP . 2017/Fall - Rec to Renew	6.21.22	“ “
Elemental sulfur	205.601(h)(2)	BC	N	Sunset date: 11.22.24 TR: 1995 TAP ; 2018 TR . 2018/Spring - Rec to ADD	7.5.22	“ “
Coppers, fixed	205.601(i)(2)	JD	Y	Sunset date: 10.30.24 TR: 1995 TAP ; 2011 TR . 2017/Fall - Rec to Renew CS requested a TR on 12.20.21. Draft TR sent to CS 7.14.22	7.19.22 8.2.22	“ “
Copper sulfate	205.601(i)(3)	JD	Y	Sunset date: 10.30.24 TR: 1995 TAP ; 2011 TR . 2017/Fall - Rec to Renew CS requested a TR on 12.20.21. Draft TR sent to CS 7.14.22	7.19.22 8.2.22	“ “

Polyoxin D zinc salt	205.601(i)(11)	BC	Y Lmt'd Scope	Sunset date: 11.22.24 TR: 2012 TR ; 2017 Limited Scope TR . 2018/Spring - Rec to ADD CS requested a Limited Scope TR on 6.1.21. TR due to NOP early November. TR sent to CS 11.29.21. TR suff due 01.28.22. TR found sufficient 2.1.22	6.21.22	“ “
Humic acids	205.601(j)(3)	ADB	N	Sunset date: 10.30.24 TR: 1996 TAP ; 2006 TR ; 2012 TR (oxidized lignite/humic acid derivatives) . 2017/Fall - Rec to Renew	7.19.22	“ “
Micronutrients: Soluble boron products	205.601(j)(7)(i)	ADB	Y Lmt'd Scope	Sunset date: 1.28.24 TR: 2010 TR (Micronutrients) . 2017/Fall - Rec to Renew CS requested a Limited Scope TR on 7.23.21. TR due to NOP 12.22.21. TR sent to CS 1.18.22. Suff due 3.19.22. TR found sufficient 2.15.22	7.19.22	“ “
Micronutrients: Sulfates, carbonates, oxides, or silicates of zinc, copper, iron, manganese, molybdenum, selenium, and cobalt	205.601(j)(7)(ii)	LP	N	Sunset date: 1.28.24 TR: 2010 TR (Micronutrients) . 2017/Fall - Rec to Renew	5.17.22	“ “
Vitamins C and E	205.601(j)(9)	WT	N	Sunset date: 10.30.24 TR: 1995 TAP ; 2015 TR . 2017/Fall - Rec to Renew C&E/REMOVE B1	6.7.22	“ “
Squid byproducts	205.601(j)(10)	LP	N	Sunset date: 1.28.24 TR: 2016 TR 2016/Spring - Rec to ADD	5.17.22	“ “
Lead salts	205.602(d)	JZ	N	Sunset date: 10.30.24 TR: N/A 2017/Fall - Rec to Renew	7.19.22	“ “
Tobacco dust (nicotine sulfate)	205.602(j)	LP	N	Sunset date: 10.30.24 TR: N/A 2017/Fall - Rec to Renew	6.7.22	“ “

Milestones

Fall 2022 Milestones	Target dates (tentative)
NOP - Publish FRN, Open public comment	~May 20, 2022
NOP - Draft Fall 2022 NOSB meeting agenda	Aug 5, 2022
NOSB - Fall 2022 proposals due to NOP	Aug 11, 2022
NOP - Post proposals	Aug 31, 2022
Public comment closes	Sep 29, 2022
NOP - Send compiled public comments to NOSB	~Oct 3, 2022
Public comment webinars	Oct 18 & 20, 2022
Fall 2022 NOSB meeting - Sacramento, CA	Oct 25 - 27, 2022
Final recommendations due	Nov 25, 2022

2025 Sunset Review

TR Requests (June 2022), Summary (Spr 2023), Review (Fall 2023)

Substance	National List	Cont act	TR Re quest?	Notes*	Scheduled, Discussed, Voted	Target meeting
Alcohols: Ethanol	205.601(a)(1)(i)	RG	N	Sunset date: 6/22/2025 TR: 2014 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	Summary: Spr 2023 Review: Fall 2023
Alcohols: Isopropanol	205.601(a)(1)(ii)	RG	N	Sunset date: 6/22/2025 TR: 2014 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Sodium carbonate peroxyhydrate	205.601(a)(8)	JZ	N	Sunset date: 6/22/2025 TR: 2014 TR: 2006 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22 5.17.22	“ “
Newspaper or other recycled paper, without glossy or colored inks	205.601(b)(2)(i) and 205.601(c)	WT	N	Sunset date: 6/22/2025 TR: 2017 TR: 2006 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “

Plastic mulch and covers	205.601(b)(2)(ii)	LP	N	Sunset date: 6/22/2025 TR: 2016 Supplement (Biodegradable Mulch Film Made from Bioplastics) TR: 2012 (Biodegradable Mulch Film Made from Bioplastics) TAP: 1995 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Aqueous potassium silicate	205.601(e)(2) and 205.601(i)(1)	BC	Y - Lmt'd scope	Sunset date: 6/22/2025 TR: 2014 TAP: 2003 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Elemental sulfur	205.601(e)(5), 205.601(i)(10) and 205.601(j)(2)	ADB	N	Sunset date: 6/22/2025 TR: 2018 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Lime sulfur	205.601(e)(6) and 205.601(i)(6)	BC	N	Sunset date: 6/22/2025 TR: 2014 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Hydrated lime	205.601(i)(4)	LG	N	Sunset date: 6/22/2025 TR: 2015 TAP: 2002 (Calcium Hydroxide) 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22 4.5.22	“ “
Liquid fish - products	205.601(j)(8)	ADB	N	Sunset date: 6/22/2025 TR: 2019 (Fish-based fertilizers) TR: 2006 (Fish products) 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Sulfurous acid	205.601(j)(11)	BC	Y - Lmt'd scope on alternatives	Sunset date: 6/22/2025 TR: 2014 TR: 2010 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Ethylene gas	205.601(k)	LP	Y - Also request ed in HS	Sunset date: 6/22/2025 TR: 2011 Supplemental TR: 2007 2018/Fall - Rec to Renew	3.15.22	“ “

				Sunset renewal: 05/07/2020, 85 FR 27105		
Microcrystalline cheesewax	205.601(o)	JD	N	Sunset date: 6/22/2025 TR: 2018 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Potassium chloride	205.602(e)	WT	Y	Sunset date: 6/22/2025 TAP: 1995 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “

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Crops Subcommittee (CS) Notes **Tuesday, July 5, 2022 2:00 pm ET**

Present: Rick Greenwood (RG), Chair; Amy Bruch (ADB), Vice Chair; Brian Caldwell (BC); Jerry D'Amore (JD); Logan Petrey (LP); Javier Zamora (JD); Mindee Jeffery - observer; Nate Powell Palm (NPP) - observer

Absent: Wood Turner (WT); Liz Graznak (LG)

Staff: Michelle Arsenault (MA); Jared Clark (JC); Anna Waller (AW)

Agenda

- Review June 21, 2022 notes
- BBMF - discuss response to NOP re: timeline for rulemaking
- 2024 Sunsets: Elemental sulfur (BC) - discuss/vote
- 2024 Sunsets: Coppers, fixed (JD) - discuss/vote
- 2024 Sunsets: Copper sulfate (JD) - discuss/vote
- Carbon Dioxide (LP) - discuss proposal/vote
- Research Priorities - discuss, finalize list for Materials Subcomm
- Additional Items
- Adjourn

Discussion

- **June 21, 2022 notes** were accepted as written
- **Biodegradable biobased mulch film (BBMF)** - The NOP is drafting a proposed rule on BBMF based on an NOSB recommendation from the Fall 2021 meeting and the Crops Subcommittee is currently reviewing BBMF for its next sunset date. The Subcommittee will ask the NOP to hold the proposed rule until the sunset review is complete.
- **2024 Sunsets: Elemental sulfur (BC)**. The lead summarized the review and indicated that elemental sulfur is relatively benign. The list 4 inert (EDTA) in current organic slug control products makes them toxic to dogs and possibly earthworms, even though the active ingredient ferric phosphate, alone, is not. Thus sulfur-based products may be desirable. The CS had a broader conversation about inerts and the NOP's advanced notice of proposed rulemaking (ANPR) seeking information about inerts. The goal of the ANPR is to propose two possible pathways to review inerts, and to collect feedback from the community. A member asked how this would intersect with international standards regarding inerts.

Motion to remove elemental sulfur at 601(h)

Motion by: Brian Caldwell

Seconded by: Jerry D'Amore

Yes: 0 No: 6 Abstain: 0 Absent: 2 Recuse: 0

Carbon Dioxide (LP). Carbon dioxide was petitioned for two uses: At §205.601a (As algicide, disinfectants, and sanitizer, including irrigation system cleaning systems) and §205.601j (plant/soil amendment). The lead proposed decoupling the two motions for carbon dioxide since the first use as an algicide is clear and the second (as a plant/soil amendment) is a little more complex. The Crops Subcommittee will bring a proposal to the Fall meeting with a motion to add carbon dioxide at 205.601(a), and will hold the second part for a later meeting so it can request a limited scope TR on use as a plant and soil amendment (605.201(j)).

Motion to add carbon dioxide to the NL at 205.601(a)

Motion by: Logan Petrey

Seconded by: Rick Greenwood
Yes: 6 No: 0 Abstain: 0 Absent: 2 Recuse: 0

- **Research Priorities.** Crops reviewed the research priorities list. Members discussed no-till/reduced till and water usage. Several members suggested edits, and each will revise the section as suggested: ADB will add a bullet to #3: organic no-till and minimum tillage; NPP and BC will add/revise #7: Management and Control of Invasive Insects and Weeds. The Crops Chair will complete the document and forward it to the Materials Subcommittee by July 12.
- **Additional Items.** None.
- **The meeting was adjourned**

[Previous CS Notes](#)

Future call schedule (1st and 3rd Tuesdays 2:00 PM ET | 11:00 AM PT, except where noted)

June 21, 2022

- 2024 Sunsets: Herbicides, soap-based (RG) - discuss/vote
- 2024 Sunsets: Sticky traps/barriers (RG) - discuss/vote
- 2024 Sunsets: Polyoxin D zinc salt (BC) - discuss/vote

July 5, 2022

- 2024 Sunsets: Elemental sulfur (BC) - discuss/vote
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August 2, 2022

- Potassium Hydroxide - petitioned (RG) - discuss proposal/vote

August 16, 2022

September 6, 2022

September 20, 2022

October 4, 2022

October 18, 2022

November 1, 2022

November 15, 2022

December 6, 2022

December 20, 2022

Work Agenda

*Highlight indicates discussion. *Highlight indicates action needed. *Highlight indicates review completion and/or vote.

Petitioned Substances

Substance	Contact	Doc Type	Notes*	Scheduled, Discussed, Voted	Target meeting
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Carbon Dioxide 205.601(a)	LP	Proposal	2006 TR (Handling) Petition sent to CS 01.15.21. Petition suff/TR request due 03.16.21. CS found the petition sufficient 03.2.21 and will not request a TR. Returned to CS for additional work at Fall 2021 NOSB meeting.	5.17.22 7.5.22	Fall 2022
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Potassium Sorbate	ADB	Proposal	Petition sent to CS 11.22.21. Petition suff/TR request due 01.21.22. Petition found sufficient. TR requested 4.5.22.	12.7.21 01.18.22 4.5.22 TBD	Spr 2023

Other Projects

Project	Contact	Notes*	Scheduled, Discussed, Voted	Target meeting
Research Priorities	RG/All	Due to MS by 7.11.22	7.5.22	Fall 2022

2024 Sunset Review

TR Requests (June 2021), Summary (Spr 2022), Review (Fall 2022)

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Biodegradable biobased mulch film	205.601(b)(2)(iii)	LP	N	Sunset date: 10.30.24 TR: 2012 TR ; 2015 Report ; NOP 15-1 ; 2016 Supplemental TR . 2017/Fall - Rec to Renew	5.17.22	" "
Boric acid	205.601(e)(3)	WT	N	Sunset date: 10.30.24 TR: 1995 TAP . 2017/Fall - Rec to Renew	6.7.22	" "
Sticky traps/barriers	205.601(e)(9)	RG	N	Sunset date: 10.30.24 TR: 1995 TAP . 2017/Fall - Rec to Renew	6.21.22	" "
Elemental sulfur	205.601(h)(2)	BC	N	Sunset date: 11.22.24 TR: 1995 TAP ; 2018 TR . 2018/Spring - Rec to ADD	7.5.22	" "

Coppers, fixed	205.601(i)(2)	JD	Y	Sunset date: 10.30.24 TR: 1995 TAP ; 2011 TR . 2017/Fall - Rec to Renew CS requested a TR on 12.20.21.	7.19.22	“ “
Copper sulfate	205.601(i)(3)	JD	Y	Sunset date: 10.30.24 TR: 1995 TAP ; 2011 TR . 2017/Fall - Rec to Renew CS requested a TR on 12.20.21.	7.19.22	“ “
Polyoxin D zinc salt	205.601(i)(11)	BC	Y Lmt'd Scope	Sunset date: 11.22.24 TR: 2012 TR ; 2017 Limited Scope TR . 2018/Spring - Rec to ADD CS requested a Limited Scope TR on 6.1.21. TR due to NOP early November. TR sent to CS 11.29.21. TR suff due 01.28.22. TR found sufficient 2.1.22	6.21.22	“ “
Humic acids	205.601(j)(3)	ADB	N	Sunset date: 10.30.24 TR: 1996 TAP ; 2006 TR ; 2012 TR (oxidized lignite/humic acid derivatives) . 2017/Fall - Rec to Renew	7.19.22	“ “
Micronutrients: Soluble boron products	205.601(j)(7)(i)	ADB	Y Lmt'd Scope	Sunset date: 1.28.24 TR: 2010 TR (Micronutrients) . 2017/Fall - Rec to Renew CS requested a Limited Scope TR on 7.23.21. TR due to NOP 12.22.21. TR sent to CS 1.18.22. Suff due 3.19.22. TR found sufficient 2.15.22	7.19.22	“ “
Micronutrients: Sulfates, carbonates, oxides, or silicates of zinc, copper, iron, manganese, molybdenum, selenium, and cobalt	205.601(j)(7)(ii)	LP	N	Sunset date: 1.28.24 TR: 2010 TR (Micronutrients) . 2017/Fall - Rec to Renew	5.17.22	“ “
Vitamins C and E	205.601(j)(9)	WT	N	Sunset date: 10.30.24 TR: 1995 TAP ; 2015 TR . 2017/Fall - Rec to Renew C&E/REMOVE B1	6.7.22	“ “
Squid byproducts	205.601(j)(10)	LP	N	Sunset date: 1.28.24 TR: 2016 TR 2016/Spring - Rec to ADD	5.17.22	“ “
Lead salts	205.602(d)	JZ	N	Sunset date: 10.30.24 TR: N/A 2017/Fall - Rec to Renew	7.19.22	“ “

Tobacco dust (nicotine sulfate)	205.602(j)	LP	N	Sunset date: 10.30.24 TR: N/A 2017/Fall - Rec to Renew	6.7.22	“ “
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Milestones

Fall 2022 Milestones	Target dates (tentative)
NOP - Publish FRN, Open public comment	~May 20, 2022
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Fall 2022 NOSB meeting - Sacramento, CA	Oct 25 - 27, 2022
Final recommendations due	Nov 25, 2022

2025 Sunset Review

TR Requests (June 2022), Summary (Spr 2023), Review (Fall 2023)

Substance	National List	Cont act	TR Re quest?	Notes*	Scheduled, Discussed, Voted	Target meeting
Alcohols: Ethanol	205.601(a)(1)(i)	RG	N	Sunset date: 6/22/2025 TR: 2014 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	Summary: Spr 2023 Review: Fall 2023
Alcohols: Isopropanol	205.601(a)(1)(ii)	RG	N	Sunset date: 6/22/2025 TR: 2014 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Sodium carbonate peroxyhydrate	205.601(a)(8)	JZ	N	Sunset date: 6/22/2025 TR: 2014 TR: 2006 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22 5.17.22	“ “

Newspaper or other recycled paper, without glossy or colored inks	205.601(b)(2)(i) and 205.601(c)	WT	N	Sunset date: 6/22/2025 TR: 2017 TR: 2006 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Plastic mulch and covers	205.601(b)(2)(ii)	LP	N	Sunset date: 6/22/2025 TR: 2016 Supplement (Biodegradable Mulch Film Made from Bioplastics) TR: 2012 (Biodegradable Mulch Film Made from Bioplastics) TAP: 1995 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Aqueous potassium silicate	205.601(e)(2) and 205.601(i)(1)	BC	Y - Lmt'd scope	Sunset date: 6/22/2025 TR: 2014 TAP: 2003 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Elemental sulfur	205.601(e)(5), 205.601(i)(10) and 205.601(j)(2)	ADB	N	Sunset date: 6/22/2025 TR: 2018 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Lime sulfur	205.601(e)(6) and 205.601(i)(6)	BC	N	Sunset date: 6/22/2025 TR: 2014 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Hydrated lime	205.601(i)(4)	LG	N	Sunset date: 6/22/2025 TR: 2015 TAP: 2002 (Calcium Hydroxide) 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22 4.5.22	“ “
Liquid fish - products	205.601(j)(8)	ADB	N	Sunset date: 6/22/2025 TR: 2019 (Fish-based fertilizers) TR: 2006 (Fish products) 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Sulfurous acid	205.601(j)(11)	BC	Y - Lmt'd scope on	Sunset date: 6/22/2025 TR: 2014 TR: 2010 2018/Fall - Rec to Renew	3.15.22	“ “

			alternatives	Sunset renewal: 05/07/2020, 85 FR 27105		
Ethylene gas	205.601(k)	LP	Y - Also requested in HS	Sunset date: 6/22/2025 TR: 2011 Supplemental TR: 2007 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Microcrystalline cheesewax	205.601(o)	JD	N	Sunset date: 6/22/2025 TR: 2018 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Potassium chloride	205.602(e)	WT	Y	Sunset date: 6/22/2025 TAP: 1995 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “

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Crops Subcommittee (CS) Notes
Tuesday, June 21, 2022 2:00 pm ET

Present: Rick Greenwood (RG), Chair; Amy Bruch (ADB), Vice Chair; Brian Caldwell (BC); Wood Turner (WT); Jerry D'Amore (JD); Mindee Jeffery - observer

Absent: Logan Petrey (LP); Javier Zamora (JD); Liz Graznak (LG)

Staff: Michelle Arsenault (MA); Jared Clark (JC)

Agenda

- Review June 7, 2022 notes
- 2024 Sunsets: Herbicides, soap-based (RG) - discuss/vote
- 2024 Sunsets: Sticky traps/barriers (RG) - discuss/vote
- 2024 Sunsets: Polyoxin D zinc salt (BC) - discuss/vote
- Additional Items
- Adjourn

Discussion

- **June 7, 2022 notes** were accepted as written.
- **2024 Sunsets: Herbicides, soap-based (RG).** The lead summarized the uses of soap-based herbicides noting that there is wide international acceptance, they are benign, and have no environmental issues.

Motion to remove herbicides, soap-based

Motion by: RG

Seconded by: JD

Yes: 0 No: 5 Abstain: 0 Absent: 3 Recuse: 0

- **2024 Sunsets: Sticky traps/barriers (RG).** The lead summarized the uses of sticky traps, which are used for pest control and monitoring. There are little to no environmental impacts, they don't come in contact with food, and they meet all OFPA criteria. A member noted that some substances, such as sticky traps, seem to be listed using colloquial terms rather than by the chemical substance or functional name, and wondered why that was.

Motion to remove sticky traps/barriers

Motion by: RG

Seconded by: ADB

Yes: 0 No: 5 Abstain: 0 Absent: 3 Recuse: 0

- **2024 Sunsets: Polyoxin D zinc salt (BC).** The lead summarized the uses of polyoxin d zinc salt as a microbial fungicide that is effective and benign with regard to human health.

Motion to remove polyoxin D zinc salt

Motion by: BC

Seconded by: ADB

Yes: 0 No: 5 Abstain: 0 Absent: 3 Recuse: 0

- **Additional Items.** None.
- **The meeting was adjourned**

[Previous CS Notes](#)

Future call schedule (1st and 3rd Tuesdays 2:00 PM ET | 11:00 AM PT, except where noted)

June 7, 2022

- Discuss request for TR for carbon dioxide
- 2024 Sunsets: Tobacco dust (nicotine sulfate) (LP) - discuss/vote
- 2024 Sunsets: Boric acid (WT) - discuss/vote
- 2024 Sunsets: Vitamins C and E (WT) - discuss/vote

June 21, 2022

- 2024 Sunsets: Herbicides, soap-based (RG) - discuss/vote
- 2024 Sunsets: Sticky traps/barriers (RG) - discuss/vote
- 2024 Sunsets: Polyoxin D zinc salt (BC) - discuss/vote

July 5, 2022

- 2024 Sunsets: Elemental sulfur (BC) - discuss/vote
- 2024 Sunsets: Coppers, fixed (JD) - discuss/vote
- 2024 Sunsets: Copper sulfate (JD) - discuss/vote
- Carbon Dioxide (LP) - discuss proposal/vote
- Research Priorities - discuss, finalize list for Materials Subcomm

July 19, 2022

- 2024 Sunsets: Humic acids (ADB) - discuss/vote
- 2024 Sunsets: Micronutrients: Soluble boron products (ADB) - discuss/vote
- 2024 Sunsets: Lead salts (JZ) - discuss/vote

August 2, 2022

- Potassium Hydroxide - petitioned (RG) - discuss proposal/vote

August 16, 2022

September 6, 2022

September 20, 2022

October 4, 2022

October 18, 2022

November 1, 2022

November 15, 2022

December 6, 2022

December 20, 2022

Work Agenda

*Highlight indicates discussion. *Highlight indicates action needed. *Highlight indicates review completion and/or vote.

Petitioned Substances

Substance	Contact	Doc Type	Notes*	Scheduled, Discussed, Voted	Target meeting
Carbon Dioxide	LP	Proposal	2006 TR (Handling) Petition sent to CS 01.15.21. Petition suff/TR request due 03.16.21. CS found the petition sufficient 03.2.21 and will not request a TR. Returned to CS for additional work at Fall 2021 NOSB meeting.	5.17.22 7.5.22	Fall 2022

Potassium Hydroxide	RG	Proposal	Petition sent to CS 11.22.21. Petition suff/TR request due 01.21.22. Petition found sufficient. No TR requested.	12.7.21 01.18.22 8.2.22	Fall 2022
Potassium Sorbate	ADB	Proposal	Petition sent to CS 11.22.21. Petition suff/TR request due 01.21.22. Petition found sufficient. TR requested 4.5.22.	12.7.21 01.18.22 4.5.22 TBD	Fall 2022

Other Projects

Project	Contact	Notes*	Scheduled, Discussed, Voted	Target meeting
Research Priorities	RG/All	Due to MS by 7.11.22		Fall 2022

2024 Sunset Review

TR Requests (June 2021), Summary (Spr 2022), Review (Fall 2022)

Substance	National List	Contact	TR?	Notes*	Scheduled, Discussed, Voted	Target meeting
Herbicides, soap-based	205.601(b)(1)	RG	N	Sunset date: 10.30.24 TR: 1996 TAP ; 2015 TR . 2017/Fall - Rec to Renew	6.21.22	Summary: Spr 2022 Review: Fall 2022
Biodegradable biobased mulch film	205.601(b)(2)(iii)	LP	N	Sunset date: 10.30.24 TR: 2012 TR ; 2015 Report ; NOP 15-1 ; 2016 Supplemental TR . 2017/Fall - Rec to Renew	5.17.22	" "
Boric acid	205.601(e)(3)	WT	N	Sunset date: 10.30.24 TR: 1995 TAP . 2017/Fall - Rec to Renew	6.7.22	" "
Sticky traps/barriers	205.601(e)(9)	RG	N	Sunset date: 10.30.24 TR: 1995 TAP . 2017/Fall - Rec to Renew	6.21.22	" "
Elemental sulfur	205.601(h)(2)	BC	N	Sunset date: 11.22.24 TR: 1995 TAP ; 2018 TR . 2018/Spring - Rec to ADD	7.5.22	" "
Coppers, fixed	205.601(i)(2)	JD	Y	Sunset date: 10.30.24 TR: 1995 TAP ; 2011 TR . 2017/Fall - Rec to Renew CS requested a TR on 12.20.21.	7.5.22	" "
Copper sulfate	205.601(i)(3)	JD	Y	Sunset date: 10.30.24 TR: 1995 TAP ; 2011 TR . 2017/Fall - Rec to Renew CS requested a TR on 12.20.21.	7.5.22	" "

Polyoxin D zinc salt	205.601(i)(11)	BC	Y Lmt'd Scope	Sunset date: 11.22.24 TR: 2012 TR ; 2017 Limited Scope TR . 2018/Spring - Rec to ADD CS requested a Limited Scope TR on 6.1.21. TR due to NOP early November. TR sent to CS 11.29.21. TR suff due 01.28.22. TR found sufficient 2.1.22	6.21.22	“ “
Humic acids	205.601(j)(3)	ADB	N	Sunset date: 10.30.24 TR: 1996 TAP ; 2006 TR ; 2012 TR (oxidized lignite/humic acid derivatives) . 2017/Fall - Rec to Renew	7.19.22	“ “
Micronutrients: Soluble boron products	205.601(j)(7)(i)	ADB	Y Lmt'd Scope	Sunset date: 1.28.24 TR: 2010 TR (Micronutrients) . 2017/Fall - Rec to Renew CS requested a Limited Scope TR on 7.23.21. TR due to NOP 12.22.21. TR sent to CS 1.18.22. Suff due 3.19.22. TR found sufficient 2.15.22	7.19.22	“ “
Micronutrients: Sulfates, carbonates, oxides, or silicates of zinc, copper, iron, manganese, molybdenum, selenium, and cobalt	205.601(j)(7)(ii)	LP	N	Sunset date: 1.28.24 TR: 2010 TR (Micronutrients) . 2017/Fall - Rec to Renew	5.17.22	“ “
Vitamins C and E	205.601(j)(9)	WT	N	Sunset date: 10.30.24 TR: 1995 TAP ; 2015 TR . 2017/Fall - Rec to Renew C&E/REMOVE B1	6.7.22	“ “
Squid byproducts	205.601(j)(10)	LP	N	Sunset date: 1.28.24 TR: 2016 TR 2016/Spring - Rec to ADD	5.17.22	“ “
Lead salts	205.602(d)	JZ	N	Sunset date: 10.30.24 TR: N/A 2017/Fall - Rec to Renew	7.19.22	“ “
Tobacco dust (nicotine sulfate)	205.602(j)	LP	N	Sunset date: 10.30.24 TR: N/A 2017/Fall - Rec to Renew	6.7.22	“ “

Milestones

Fall 2022 Milestones	Target dates (tentative)
NOP - Publish FRN, Open public comment	~May 20, 2022
NOP - Draft Fall 2022 NOSB meeting agenda	Aug 5, 2022
NOSB - Fall 2022 proposals due to NOP	Aug 11, 2022
NOP - Post proposals	Aug 31, 2022
Public comment closes	Sep 29, 2022
NOP - Send compiled public comments to NOSB	~Oct 3, 2022
Public comment webinars	Oct 18 & 20, 2022
Fall 2022 NOSB meeting - Sacramento, CA	Oct 25 - 27, 2022
Final recommendations due	Nov 25, 2022

2025 Sunset Review

TR Requests (June 2022), Summary (Spr 2023), Review (Fall 2023)

Substance	National List	Cont act	TR Re quest?	Notes*	Scheduled, Discussed, Voted	Target meeting
Alcohols: Ethanol	205.601(a)(1)(i)	RG	N	Sunset date: 6/22/2025 TR: 2014 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	Summary: Spr 2023 Review: Fall 2023
Alcohols: Isopropanol	205.601(a)(1)(ii)	RG	N	Sunset date: 6/22/2025 TR: 2014 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Sodium carbonate peroxyhydrate	205.601(a)(8)	JZ	N	Sunset date: 6/22/2025 TR: 2014 TR: 2006 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22 5.17.22	“ “
Newspaper or other recycled paper, without glossy or colored inks	205.601(b)(2)(i) and 205.601(c)	WT	N	Sunset date: 6/22/2025 TR: 2017 TR: 2006 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “

Plastic mulch and covers	205.601(b)(2)(ii)	LP	N	Sunset date: 6/22/2025 TR: 2016 Supplement (Biodegradable Mulch Film Made from Bioplastics) TR: 2012 (Biodegradable Mulch Film Made from Bioplastics) TAP: 1995 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Aqueous potassium silicate	205.601(e)(2) and 205.601(i)(1)	BC	Y - Lmt'd scope	Sunset date: 6/22/2025 TR: 2014 TAP: 2003 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Elemental sulfur	205.601(e)(5), 205.601(i)(10) and 205.601(j)(2)	ADB	N	Sunset date: 6/22/2025 TR: 2018 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Lime sulfur	205.601(e)(6) and 205.601(i)(6)	BC	N	Sunset date: 6/22/2025 TR: 2014 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Hydrated lime	205.601(i)(4)	LG	N	Sunset date: 6/22/2025 TR: 2015 TAP: 2002 (Calcium Hydroxide) 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22 4.5.22	“ “
Liquid fish - products	205.601(j)(8)	ADB	Y?	Sunset date: 6/22/2025 TR: 2019 (Fish-based fertilizers) TR: 2006 (Fish products) 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Sulfurous acid	205.601(j)(11)	BC	Y - Lmt'd scope on alternatives	Sunset date: 6/22/2025 TR: 2014 TR: 2010 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Ethylene gas	205.601(k)	LP	Y - Also requested in HS	Sunset date: 6/22/2025 TR: 2011 Supplemental TR: 2007 2018/Fall - Rec to Renew	3.15.22	“ “

				Sunset renewal: 05/07/2020, 85 FR 27105		
Microcrystalline cheesewax	205.601(o)	JD	N	Sunset date: 6/22/2025 TR: 2018 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Potassium chloride	205.602(e)	WT	Y	Sunset date: 6/22/2025 TAP: 1995 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “

Note: Subcommittee notes may include preliminary discussions regarding substances considered for addition to or removal from the National List. They do not represent official National Organic Program (NOP) policy/regulations or NOSB recommendations. Proposals must be voted on by the full Board, to become recommendations to the USDA. Please see the NOP website for official NOP policy, regulations, and status of substances used in organic production and handling.

Crops Subcommittee (CS) Notes
Tuesday, June 7, 2022 2:00 pm ET

Present: Rick Greenwood (RG), Chair; Amy Bruch (ADB), Vice Chair; Brian Caldwell (BC); Liz Graznak (LG); Logan Petrey (LP); Wood Turner (WT); Jerry D'Amore (JD); Nate Powell-Palm (NPP) - observer; Mindee Jeffery - observer

Absent: Javier Zamora (JZ)

Staff: Michelle Arsenault (MA); Jared Clark (JC)

Agenda

- Review May 17, 2022 notes
- 2024 Sunsets: Tobacco dust (nicotine sulfate) (LP) - discuss/vote
- 2024 Sunsets: Boric acid (WT) - discuss/vote
- 2024 Sunsets: Vitamins C and E (WT) - discuss/vote
- Additional Items
- Adjourn

Discussion

- **May 17, 2022 notes** were accepted as written.
- **2024 Sunsets: Tobacco dust (nicotine sulfate) (LP).** The lead noted there were no changes to the Spring 2022 review. The CS and stakeholders support continued prohibition.

Motion to remove tobacco dust (nicotine sulfate) (LP) at §205.602

Motion by: LP

Seconded by: WT

Yes: 0 No: 7 Abstain: 0 Absent: 1 Recuse: 0

- **2024 Sunsets: Boric acid (WT).** The lead summarized the review noting uses and environmental issues due to mining.

Motion to remove boric acid at 205.601 on the National List

Motion by: WT

Seconded by: JD

Yes: 0 No: 7 Abstain: 0 Absent: 1 Recuse: 0

- **2024 Sunsets: Vitamins C and E (WT).** The lead summarized the review noting that Vitamin C is ascorbic acid and Vitamin E is tocopherols. B1 was originally part of this listing, and it was removed during the last sunset review. Comments have been limited, and the Subcommittee wondered who is using these vitamins and for what.

Motion to remove vitamins C and E

Motion by: WT

Seconded by: BC

Yes: 0 No: 7 Abstain: 0 Absent: 1 Recuse: 0

- **Additional Items.**
 - **TRs for 2025 sunsets.** The NOSB vice Chair presented the list of TR requests and the Crops Subcommittee revisited it to confirm needs. The lead for liquid fish products will revisit the request and confirm the need for a TR or not.

- **Fall NOSB Meeting.** The NOSB Chair joined the call to discuss the Fall meeting, which is scheduled to be in person for the first time in 3 years. The NOSB has decided to hear all public comment during two webinars the week prior to the meeting, as it transitions from virtual to in-person. Several members shared their perspectives about this model, and all were supportive. In addition to leaving flexibility for any late changes due to covid, it also allows everyone equal access, given that not everyone can travel to meetings.
- **The meeting was adjourned**

[Previous CS Notes](#)

Future call schedule (1st and 3rd Tuesdays 2:00 PM ET | 11:00 AM PT, except where noted)

May 17, 2022

- Review/Rank need TR requests for 2025 TR
- 2025 Sunsets: Sodium carbonate peroxyhydrate (JZ) - TR request?
- 2024 Sunsets: Biodegradable biobased mulch film (LP) - discuss/vote
- 2024 Sunsets: Micronutrients: Sulfates, carbonates, etc. (LP) - discuss/vote
- 2024 Sunsets: Squid byproducts (LP) - discuss/vote

June 7, 2022

- Discuss request for TR for carbon dioxide
- 2024 Sunsets: Tobacco dust (nicotine sulfate) (LP) - discuss/vote
- 2024 Sunsets: Boric acid (WT) - discuss/vote
- 2024 Sunsets: Vitamins C and E (WT) - discuss/vote

June 21, 2022

- 2024 Sunsets: Herbicides, soap-based (RG) - discuss/vote
- 2024 Sunsets: Sticky traps/barriers (RG) - discuss/vote
- 2024 Sunsets: Polyoxin D zinc salt (BC) - discuss/vote

July 5, 2022

- 2024 Sunsets: Elemental sulfur (BC) - discuss/vote
- 2024 Sunsets: Coppers, fixed (JD) - discuss/vote
- 2024 Sunsets: Copper sulfate (JD) - discuss/vote
- Carbon Dioxide (LP) - discuss proposal/vote
- Research Priorities - discuss, finalize list for Materials Subcomm

July 19, 2022

- 2024 Sunsets: Humic acids (ADB) - discuss/vote
- 2024 Sunsets: Micronutrients: Soluble boron products (ADB) - discuss/vote
- 2024 Sunsets: Lead salts (JZ) - discuss/vote

August 2, 2022

- Potassium Hydroxide - petitioned (RG) - discuss proposal/vote

August 16, 2022

September 6, 2022

September 20, 2022

October 4, 2022

October 18, 2022

November 1, 2022

November 15, 2022

December 6, 2022

December 20, 2022

Work Agenda

*Highlight indicates discussion. *Highlight indicates action needed. *Highlight indicates review completion and/or vote.

Petitioned Substances

Substance	Contact	Doc Type	Notes*	Scheduled, Discussed, Voted	Target meeting
Carbon Dioxide	LP	Proposal	2006 TR (Handling) Petition sent to CS 01.15.21. Petition suff/TR request due 03.16.21. CS found the petition sufficient 03.2.21 and will not request a TR. Returned to CS for additional work at Fall 2021 NOSB meeting. HS will	5.17.22 7.5.22	Fall 2022
Potassium Hydroxide	RG	Proposal	Petition sent to CS 11.22.21. Petition suff/TR request due 01.21.22. Petition found sufficient. No TR requested.	12.7.21 01.18.22 8.2.22	Fall 2022
Potassium Sorbate	ADB	Proposal	Petition sent to CS 11.22.21. Petition suff/TR request due 01.21.22. Petition found sufficient. TR requested 4.5.22.	12.7.21 01.18.22 4.5.22 TBD	Fall 2022

Other Projects

Project	Contact	Notes*	Scheduled, Discussed, Voted	Target meeting
Research Priorities	RG/All	Due to MS by 7.11.22	7.5.22	Fall 2022

2024 Sunset Review

TR Requests (June 2021), Summary (Spr 2022), Review (Fall 2022)

Substance	National List	Contact	TR?	Notes*	Scheduled, Discussed, Voted	Target meeting
Herbicides, soap-based	205.601(b)(1)	RG	N	Sunset date: 10.30.24 TR: 1996 TAP ; 2015 TR . 2017/Fall - Rec to Renew	6.21.22	Summary: Spr 2022 Review: Fall 2022
Biodegradable biobased mulch film	205.601(b)(2)(iii)	LP	N	Sunset date: 10.30.24 TR: 2012 TR ; 2015 Report ; NOP 15-1 ; 2016 Supplemental TR . 2017/Fall - Rec to Renew	5.17.22	" "
Boric acid	205.601(e)(3)	WT	N	Sunset date: 10.30.24 TR: 1995 TAP . 2017/Fall - Rec to Renew	6.7.22	" "

Sticky traps/barriers	205.601(e)(9)	RG	N	Sunset date: 10.30.24 TR: 1995 TAP . 2017/Fall - Rec to Renew	6.21.22	“ “
Elemental sulfur	205.601(h)(2)	BC	N	Sunset date: 11.22.24 TR: 1995 TAP ; 2018 TR . 2018/Spring - Rec to ADD	7.5.22	“ “
Coppers, fixed	205.601(i)(2)	JD	Y	Sunset date: 10.30.24 TR: 1995 TAP ; 2011 TR . 2017/Fall - Rec to Renew CS requested a TR on 12.20.21.	7.5.22	“ “
Copper sulfate	205.601(i)(3)	JD	Y	Sunset date: 10.30.24 TR: 1995 TAP ; 2011 TR . 2017/Fall - Rec to Renew CS requested a TR on 12.20.21.	7.5.22	“ “
Polyoxin D zinc salt	205.601(i)(11)	BC	Y Lmt'd Scope	Sunset date: 11.22.24 TR: 2012 TR ; 2017 Limited Scope TR . 2018/Spring - Rec to ADD CS requested a Limited Scope TR on 6.1.21. TR due to NOP early November. TR sent to CS 11.29.21. TR suff due 01.28.22. TR found sufficient 2.1.22	6.21.22	“ “
Humic acids	205.601(j)(3)	ADB	N	Sunset date: 10.30.24 TR: 1996 TAP ; 2006 TR ; 2012 TR (oxidized lignite/humic acid derivatives) . 2017/Fall - Rec to Renew	7.19.22	“ “
Micronutrients: Soluble boron products	205.601(j)(7)(i)	ADB	Y Lmt'd Scope	Sunset date: 1.28.24 TR: 2010 TR (Micronutrients) . 2017/Fall - Rec to Renew CS requested a Limited Scope TR on 7.23.21. TR due to NOP 12.22.21. TR sent to CS 1.18.22. Suff due 3.19.22. TR found sufficient 2.15.22	7.19.22	“ “
Micronutrients: Sulfates, carbonates, oxides, or silicates of zinc, copper, iron, manganese, molybdenum, selenium, and cobalt	205.601(j)(7)(ii)	LP	N	Sunset date: 1.28.24 TR: 2010 TR (Micronutrients) . 2017/Fall - Rec to Renew	5.17.22	“ “
Vitamins C and E	205.601(j)(9)	WT	N	Sunset date: 10.30.24 TR: 1995 TAP ; 2015 TR . 2017/Fall - Rec to Renew C&E/REMOVE B1	6.7.22	“ “

Squid byproducts	205.601(j)(10)	LP	N	Sunset date: 1.28.24 TR: 2016 TR 2016/Spring - Rec to ADD	5.17.22	“ “
Lead salts	205.602(d)	JZ	N	Sunset date: 10.30.24 TR: N/A 2017/Fall - Rec to Renew	7.19.22	“ “
Tobacco dust (nicotine sulfate)	205.602(j)	LP	N	Sunset date: 10.30.24 TR: N/A 2017/Fall - Rec to Renew	6.7.22	“ “

Milestones

Fall 2022 Milestones	Target dates (tentative)
NOP - Publish FRN, Open public comment	~May 20, 2022
NOP - Draft Fall 2022 NOSB meeting agenda	Aug 5, 2022
NOSB - Fall 2022 proposals due to NOP	Aug 11, 2022
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Public comment closes	Sep 29, 2022
NOP - Send compiled public comments to NOSB	~Oct 3, 2022
Public comment webinars	Oct 18 & 20, 2022
Fall 2022 NOSB meeting - Sacramento, CA	Oct 25 - 27, 2022
Final recommendations due	Nov 25, 2022

2025 Sunset Review

TR Requests (June 2022), Summary (Spr 2023), Review (Fall 2023)

Substance	National List	Contact	TR Request?	Notes*	Scheduled, Discussed, Voted	Target meeting
Alcohols: Ethanol	205.601(a)(1)(i)	RG	N	Sunset date: 6/22/2025 TR: 2014 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	Summary: Spr 2023 Review: Fall 2023
Alcohols: Isopropanol	205.601(a)(1)(ii)	RG	N	Sunset date: 6/22/2025 TR: 2014 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “

Sodium carbonate peroxyhydrate	205.601(a)(8)	JZ	N	Sunset date: 6/22/2025 TR: 2014 TR: 2006 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22 5.17.22	“ “
Newspaper or other recycled paper, without glossy or colored inks	205.601(b)(2)(i) and 205.601(c)	WT	N	Sunset date: 6/22/2025 TR: 2017 TR: 2006 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Plastic mulch and covers	205.601(b)(2)(ii)	LP	N	Sunset date: 6/22/2025 TR: 2016 Supplement (Biodegradable Mulch Film Made from Bioplastics) TR: 2012 (Biodegradable Mulch Film Made from Bioplastics) TAP: 1995 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Aqueous potassium silicate	205.601(e)(2) and 205.601(i)(1)	BC	Y - Lmt'd scope	Sunset date: 6/22/2025 TR: 2014 TAP: 2003 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Elemental sulfur	205.601(e)(5), 205.601(i)(10) and 205.601(j)(2)	ADB	N	Sunset date: 6/22/2025 TR: 2018 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Lime sulfur	205.601(e)(6) and 205.601(i)(6)	BC	N	Sunset date: 6/22/2025 TR: 2014 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Hydrated lime	205.601(i)(4)	LG	N	Sunset date: 6/22/2025 TR: 2015 TAP: 2002 (Calcium Hydroxide) 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22 4.5.22	“ “
Liquid fish - products	205.601(j)(8)	ADB	Y?	Sunset date: 6/22/2025 TR: 2019 (Fish-based fertilizers) TR: 2006 (Fish products) 2018/Fall - Rec to Renew	3.15.22	“ “

				Sunset renewal: 05/07/2020, 85 FR 27105		
Sulfurous acid	205.601(j)(11)	BC	Y - Lmt'd scope on alternatives	Sunset date: 6/22/2025 TR: 2014 TR: 2010 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Ethylene gas	205.601(k)	LP	Y - Also requested in HS	Sunset date: 6/22/2025 TR: 2011 Supplemental TR: 2007 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Microcrystalline cheesewax	205.601(o)	JD	N	Sunset date: 6/22/2025 TR: 2018 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Potassium chloride	205.602(e)	WT	Y	Sunset date: 6/22/2025 TAP: 1995 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “

Note: Subcommittee notes may include preliminary discussions regarding substances considered for addition to or removal from the National List. They do not represent official National Organic Program (NOP) policy/regulations or NOSB recommendations. Proposals must be voted on by the full Board, to become recommendations to the USDA. Please see the NOP website for official NOP policy, regulations, and status of substances used in organic production and handling.

Crops Subcommittee (CS) Notes **Tuesday, May 17, 2022 2:00 pm ET**

Present: Rick Greenwood (RG), Chair; Amy Bruch (ADB), Vice Chair; Brian Caldwell (BC); Javier Zamora (JZ); Liz Graznak (LG); Logan Petrey (LP); Wood Turner (WT); Mindee Jeffery - observer

Absent: Jerry D'Amore (JD)

Staff: Michelle Arsenault (MA); Jared Clark (JC)

Agenda

- Review April 5, 2022 notes
- Debrief from Spring meeting
- Review/Rank need TR requests for 2025 TR
- 2025 Sunset: Sodium carbonate peroxyhydrate (JZ) - TR request
- 2024 Sunsets: Biodegradable biobased mulch film (LP) - discuss/vote
- 2024 Sunsets: Micronutrients: Sulfates, carbonates, etc. (LP) - discuss/vote
- 2024 Sunsets: Squid byproducts (LP) - discuss/vote
- Additional Items
- Adjourn

Discussion

- **April 5, 2022 notes were accepted as written.**
- **Debrief from Spring meeting.**
 - The CS discussed a limited scope TR on carbon dioxide as a soil amendment, but it is not likely it will be back in time for the Fall 2021 meeting. The CS will discuss this more on the next call.
- **Review/Rank need TR requests for 2025 TR.** The NOSB Vice Chair compiled a list of TR requests across all Subcommittees and the NOSB will rank them before sending it to the NOP for contracting.
- **2025 Sunset: Sodium carbonate peroxyhydrate (JZ) - TR request.** The CS will not request a new.
- **2024 Sunsets: Biodegradable biobased mulch film (LP).** The lead gave a brief summary of the BBMF sunset review, noting that the NOSB voted at the Fall 2021 meeting on a proposal to allow BBMF as long as it meets the 80% biodegradable biobased content minimum. The group discussed comments regarding phthalates, which were mentioned in public comments. The group agreed that this sunset review should focus on the status as it currently exists on the list, as rulemaking for the Fall 2021 proposal is in progress. Members were split as to whether BBMF should remain on the National List as reflected in the vote below.

Motion to remove BBMF from the National List

Motion by: LP

Seconded by: RG

Yes: 4 No: 2 Abstain: 1 Recuse: 0 Absent: 1

- **2024 Sunsets: Micronutrients: Sulfates, carbonates, etc. (LP).** The lead gave a brief summary and the subcommittee discussed it and moved to a vote.

Motion to remove micronutrients from the National List

Motion by: LP

Seconded by: AB

Yes: 0 No: 7 Abstain: 0 Recuse: 0 Absent: 1

- **2024 Sunsets: Squid byproducts (LP).** The lead gave a brief summary and the subcommittee discussed it and moved to a vote.

Motion to remove squid byproducts from the National List

Motion by: LP

Seconded by: BC

Yes: 0 No: 7 Abstain: 0 Recuse: 0 Absent: 1

- **Additional Items.** None
- **The meeting was adjourned**

[Previous CS Notes](#)

Future call schedule (1st and 3rd Tuesdays 2:00 PM ET | 11:00 AM PT, except where noted)

May 3, 2022 - cancelled

May 17, 2022

Review/Rank need TR requests for 2025 TR

2025 Sunset: Sodium carbonate peroxyhydrate (JZ) - TR request?

2024 Sunsets: Biodegradable biobased mulch film (LP) - discuss/vote

2024 Sunsets: Micronutrients: Sulfates, carbonates, etc. (LP) - discuss/vote

2024 Sunsets: Squid byproducts (LP) - discuss/vote

June 7, 2022

Discuss request for TR for carbon dioxide

2024 Sunsets: Tobacco dust (nicotine sulfate) (LP) - discuss/vote

2024 Sunsets: Boric acid (WT) - discuss/vote

2024 Sunsets: Vitamins C and E (WT) - discuss/vote

June 21, 2022

2024 Sunsets: Herbicides, soap-based (RG) - discuss/vote

2024 Sunsets: Sticky traps/barriers (RG) - discuss/vote

2024 Sunsets: Polyoxin D zinc salt (BC) - discuss/vote

July 5, 2022

2024 Sunsets: Elemental sulfur (BC) - discuss/vote

2024 Sunsets: Coppers, fixed (JD) - discuss/vote

2024 Sunsets: Copper sulfate (JD) - discuss/vote

Carbon Dioxide (LP) - discuss proposal/vote

Research Priorities - discuss, finalize list for Materials Subcomm

July 19, 2022

2024 Sunsets: Humic acids (ADB) - discuss/vote

2024 Sunsets: Micronutrients: Soluble boron products (ADB) - discuss/vote

2024 Sunsets: Lead salts (JZ) - discuss/vote

August 2, 2022

Potassium Hydroxide - petitioned (RG) - discuss proposal/vote

August 16, 2022

September 6, 2022

September 20, 2022

October 4, 2022

October 18, 2022

November 1, 2022

November 15, 2022
 December 6, 2022
 December 20, 2022

Work Agenda

*Highlight indicates discussion. *Highlight indicates action needed. *Highlight indicates review completion and/or vote.

Petitioned Substances

Substance	Contact	Doc Type	Notes*	Scheduled, Discussed, Voted	Target meeting
Carbon Dioxide	LP	Proposal	2006 TR (Handling) Petition sent to CS 01.15.21. Petition suff/TR request due 03.16.21. CS found the petition sufficient 03.2.21 and will not request a TR. Returned to CS for additional work at Fall 2021 NOSB meeting. HS will	5.17.22 7.5.22	Fall 2022
Potassium Hydroxide	RG	Proposal	Petition sent to CS 11.22.21. Petition suff/TR request due 01.21.22. Petition found sufficient. No TR requested.	12.7.21 01.18.22 8.2.22	Fall 2022
Potassium Sorbate	ADB	Proposal	Petition sent to CS 11.22.21. Petition suff/TR request due 01.21.22. Petition found sufficient. TR requested 4.5.22.	12.7.21 01.18.22 4.5.22 TBD	Fall 2022

Other Projects

Project	Contact	Notes*	Scheduled, Discussed, Voted	Target meeting
Research Priorities	RG/All	Due to MS by 7.11.22		Fall 2022

2024 Sunset Review

TR Requests (June 2021), Summary (Spr 2022), Review (Fall 2022)

Substance	National List	Contact	TR?	Notes*	Scheduled, Discussed, Voted	Target meeting
Herbicides, soap-based	205.601(b)(1)	RG	N	Sunset date: 10.30.24 TR: 1996 TAP ; 2015 TR . 2017/Fall - Rec to Renew	6.21.22	Summary: Spr 2022 Review: Fall 2022
Biodegradable biobased mulch film	205.601(b)(2)(iii)	LP	N	Sunset date: 10.30.24 TR: 2012 TR ; 2015 Report ; NOP 15-1 ; 2016 Supplemental TR . 2017/Fall - Rec to Renew	5.17.22	" "

Boric acid	205.601(e)(3)	WT	N	Sunset date: 10.30.24 TR: 1995 TAP . 2017/Fall - Rec to Renew	6.7.22	“ “
Sticky traps/barriers	205.601(e)(9)	RG	N	Sunset date: 10.30.24 TR: 1995 TAP . 2017/Fall - Rec to Renew	6.21.22	“ “
Elemental sulfur	205.601(h)(2)	BC	N	Sunset date: 11.22.24 TR: 1995 TAP ; 2018 TR . 2018/Spring - Rec to ADD	7.5.22	“ “
Coppers, fixed	205.601(i)(2)	JD	Y	Sunset date: 10.30.24 TR: 1995 TAP ; 2011 TR . 2017/Fall - Rec to Renew CS requested a TR on 12.20.21.	7.5.22	“ “
Copper sulfate	205.601(i)(3)	JD	Y	Sunset date: 10.30.24 TR: 1995 TAP ; 2011 TR . 2017/Fall - Rec to Renew CS requested a TR on 12.20.21.	7.5.22	“ “
Polyoxin D zinc salt	205.601(i)(11)	BC	Y Lmt'd Scope	Sunset date: 11.22.24 TR: 2012 TR ; 2017 Limited Scope TR . 2018/Spring - Rec to ADD CS requested a Limited Scope TR on 6.1.21. TR due to NOP early November. TR sent to CS 11.29.21. TR suff due 01.28.22. TR found sufficient 2.1.22	6.21.22	“ “
Humic acids	205.601(j)(3)	ADB	N	Sunset date: 10.30.24 TR: 1996 TAP ; 2006 TR ; 2012 TR (oxidized lignite/humic acid derivatives) . 2017/Fall - Rec to Renew	7.19.22	“ “
Micronutrients: Soluble boron products	205.601(j)(7)(i)	ADB	Y Lmt'd Scope	Sunset date: 1.28.24 TR: 2010 TR (Micronutrients) . 2017/Fall - Rec to Renew CS requested a Limited Scope TR on 7.23.21. TR due to NOP 12.22.21. TR sent to CS 1.18.22. Suff due 3.19.22. TR found sufficient 2.15.22	7.19.22	“ “
Micronutrients: Sulfates, carbonates, oxides, or silicates of zinc, copper, iron, manganese, molybdenum, selenium, and cobalt	205.601(j)(7)(ii)	LP	N	Sunset date: 1.28.24 TR: 2010 TR (Micronutrients) . 2017/Fall - Rec to Renew	5.17.22	“ “

Vitamins C and E	205.601(j)(9)	WT	N	Sunset date: 10.30.24 TR: 1995 TAP ; 2015 TR . 2017/Fall - Rec to Renew C&E/REMOVE B1	6.7.22	“ “
Squid byproducts	205.601(j)(10)	LP	N	Sunset date: 1.28.24 TR: 2016 TR 2016/Spring - Rec to ADD	5.17.22	“ “
Lead salts	205.602(d)	JZ	N	Sunset date: 10.30.24 TR: N/A 2017/Fall - Rec to Renew	7.19.22	“ “
Tobacco dust (nicotine sulfate)	205.602(j)	LP	N	Sunset date: 10.30.24 TR: N/A 2017/Fall - Rec to Renew	6.7.22	“ “

Milestones

Fall 2022 Milestones	Target dates (tentative)
NOP - Publish FRN, Open public comment	~May 20, 2022
NOP - Draft Fall 2022 NOSB meeting agenda	Aug 5, 2022
NOSB - Fall 2022 proposals due to NOP	Aug 11, 2022
NOP - Post proposals	Aug 31, 2022
Public comment closes	Sep 29, 2022
NOP - Send compiled public comments to NOSB	~Oct 3, 2022
Public comment webinars	Oct 18 & 20, 2022
Fall 2022 NOSB meeting - Sacramento, CA	Oct 25 - 27, 2022
Final recommendations due	Nov 25, 2022

2025 Sunset Review

TR Requests (June 2022), Summary (Spr 2023), Review (Fall 2023)

Substance	National List	Contact	TR Request?	Notes*	Scheduled, Discussed, Voted	Target meeting
Alcohols: Ethanol	205.601(a)(1)(i)	RG	N	Sunset date: 6/22/2025 TR: 2014 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	Summary: Spr 2023 Review: Fall 2023

Alcohols: Isopropanol	205.601(a)(1)(ii)	RG	N	Sunset date: 6/22/2025 TR: 2014 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Sodium carbonate peroxyhydrate	205.601(a)(8)	JZ	N	Sunset date: 6/22/2025 TR: 2014 TR: 2006 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22 5.17.22	“ “
Newspaper or other recycled paper, without glossy or colored inks	205.601(b)(2)(i) and 205.601(c)	WT	N	Sunset date: 6/22/2025 TR: 2017 TR: 2006 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Plastic mulch and covers	205.601(b)(2)(ii)	LP	N	Sunset date: 6/22/2025 TR: 2016 Supplement (Biodegradable Mulch Film Made from Bioplastics) TR: 2012 (Biodegradable Mulch Film Made from Bioplastics) TAP: 1995 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Aqueous potassium silicate	205.601(e)(2) and 205.601(i)(1)	BC	Y - Lmt'd scope	Sunset date: 6/22/2025 TR: 2014 TAP: 2003 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Elemental sulfur	205.601(e)(5), 205.601(i)(10) and 205.601(j)(2)	ADB	N	Sunset date: 6/22/2025 TR: 2018 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Lime sulfur	205.601(e)(6) and 205.601(i)(6)	BC	N	Sunset date: 6/22/2025 TR: 2014 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Hydrated lime	205.601(i)(4)	LG	N	Sunset date: 6/22/2025 TR: 2015 TAP: 2002 (Calcium Hydroxide) 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22 4.5.22	“ “

Liquid fish products	205.601(j)(8)	ADB	Y	Sunset date: 6/22/2025 TR: 2019 (Fish products) TR: 2006 (Fish products) 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Sulfurous acid	205.601(j)(11)	BC	Y -Lmt'd scope on alternati ves	Sunset date: 6/22/2025 TR: 2014 TR: 2010 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Ethylene gas	205.601(k)	LP	Y? Also request ed in HS	Sunset date: 6/22/2025 TR: 2011 Supplemental TR: 2007 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Microcrystalline cheesewax	205.601(o)	JD	N	Sunset date: 6/22/2025 TR: 2018 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Potassium chloride	205.602(e)	WT	Y	Sunset date: 6/22/2025 TAP: 1995 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “

Note: Subcommittee notes may include preliminary discussions regarding substances considered for addition to or removal from the National List. They do not represent official National Organic Program (NOP) policy/regulations or NOSB recommendations. Proposals must be voted on by the full Board, to become recommendations to the USDA. Please see the NOP website for official NOP policy, regulations, and status of substances used in organic production and handling.

Crops Subcommittee (CS) Notes **Tuesday, April 5, 2022 2:00 pm ET**

Present: Rick Greenwood (RG), Chair; Amy Bruch (ADB), Vice Chair; Brian Caldwell (BC); Jerry D'Amore (JD); Javier Zamora (JZ); Liz Graznak (LG); Mindee Jeffery - observer

Absent: Logan Petrey (LP); Wood Turner (WT)

Staff: Michelle Arsenault (MA); Jared Clark (JC)

Agenda

- Review March 15, 2022 notes
- Determine TR needs: 2025 sunsets
- Assign discussion dates for 2024 sunsets and petitions
- Additional Items
- Adjourn

Discussion

- **March 15, 2022 notes** were accepted as written
- **Determine TR needs: 2025 sunsets.** The group discussed TR needs for the remaining 2025 sunsets and will rank them based on needs at a future call.
- **Assign discussion dates for 2024 sunsets and petitions.** See table below.
- **Additional Items.** The NOP is seeking additional citations/applicable research regarding ammonia extracts and environmental and human health, and is also consulting with EPA and FDA. The lead noted that the proposal for ammonia extract was voted on at the last meeting, and for the Spring meeting, the CS is proposing a practice standard for highly soluble nitrogen.
- **The meeting was adjourned**

[Previous CS Notes](#)

Future call schedule (1st and 3rd Tuesdays 2:00 PM ET | 11:00 AM PT, except where noted)

March 15, 2022

Determine TR needs: 2025 sunsets

April 5, 2022

Determine TR needs: 2025 sunsets

Assign discussion dates for 2024 sunsets and petitions

April 19, 2022 - cancelled

May 3, 2022

Review/Rank need TR requests for 2025 TR

May 17, 2022

2025 Sunset: Sodium carbonate peroxyhydrate (JZ) - TR request

2024 Sunsets: Biodegradable biobased mulch film (LP) - discuss/vote

2024 Sunsets: Elemental sulfur (BC) - discuss/vote

2024 Sunsets: Coppers, fixed (JD) - discuss/vote

2024 Sunsets: Copper sulfate (JD) - discuss/vote

2024 Sunsets: Micronutrients: Sulfates, carbonates, etc. (LP) - discuss/vote

2024 Sunsets: Squid byproducts (LP) - discuss/vote

June 7, 2022

2024 Sunsets: Boric acid (WT) - discuss/vote

2024 Sunsets: Tobacco dust (nicotine sulfate) (LP) - discuss/vote

2024 Sunsets: Vitamins C and E (WT) - discuss/vote
 June 21, 2022
 2024 Sunsets: Herbicides, soap-based (RG) - discuss/vote
 2024 Sunsets: Sticky traps/barriers (RG) - discuss/vote
 2024 Sunsets: Polyoxin D zinc salt (BC) - discuss/vote
 July 5, 2022
 Research Priorities - discuss, finalize list for Materials Subcomm
 July 19, 2022
 2024 Sunsets: Humic acids (ADB) - discuss/vote
 2024 Sunsets: Micronutrients: Soluble boron products (ADB) - discuss/vote
 2024 Sunsets: Lead salts (JZ) - discuss/vote
 August 2, 2022
 Potassium Hydroxide - petitioned (RG) - discuss proposal/vote
 August 16, 2022
 September 6, 2022
 September 20, 2022
 October 4, 2022
 October 18, 2022
 November 1, 2022
 November 15, 2022
 December 6, 2022
 December 20, 2022

Work Agenda

*Highlight indicates discussion. *Highlight indicates action needed. *Highlight indicates review completion and/or vote.

Petitioned Substances

Substance	Contact	Doc Type	Notes*	Scheduled, Discussed, Voted	Target meeting
Highly soluble fertilizers (from Ammonia Extract petition)	ADB	Proposal	Petition sent to CS 05.26.20. Petition suff/TR request due 7.24.20. Petition found sufficient 06.16.20. CS requested TR 06.19.20. TR due mid-December. Draft TR sent to CS 12.31.20. TR sent back for additional info. Updated TR sent to CS 2.23.21. TR found sufficient 3.2.21. 2021 TR (Handling). Classified as nonsynthetic. Two of three motions passed at Fall 2021 meeting.	12.21.21 1.18.22	Spr 2022
Carbon Dioxide	LP	Proposal	2006 TR (Handling) Petition sent to CS 01.15.21. Petition suff/TR request due 03.16.21. CS found the petition sufficient 03.2.21 and will not request a TR for now. Returned to CS for additional work at Fall 2021 NOSB meeting.	1.18.22	Spr 2022
Potassium Hydroxide	RG	Proposal	Petition sent to CS 11.22.21. Petition suff/TR request due 01.21.22. Petition found sufficient. No TR requested.	12.7.21 01.18.22 8.2.22	Fall 2022

Potassium Sorbate	ADB	Proposal	Petition sent to CS 11.22.21. Petition suff/TR request due 01.21.22. Petition found sufficient. TR requested 4.5.22.	12.7.21 01.18.22 TBD	Fall 2022
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Other Projects

Project	Contact	Notes*	Scheduled, Discussed, Voted	Target meeting
Research Priorities	RG/All	Due to MS by 7.11.22	1.18.22 7.5.22	Spr 2022

2024 Sunset Review

TR Requests (June 2021), Summary (Spr 2022), Review (Fall 2022)

Substance	National List	Contact	TR?	Notes*	Scheduled, Discussed, Voted	Target meeting
Herbicides, soap-based	205.601(b)(1)	RG	N	Sunset date: 10.30.24 TR: 1996 TAP ; 2015 TR . 2017/Fall - Rec to Renew	5.18.21 6.1.21 11.16.21 6.21.22	Summary: Spr 2022 Review: Fall 2022
Biodegradable biobased mulch film	205.601(b)(2)(iii)	LP	N	Sunset date: 10.30.24 TR: 2012 TR ; 2015 Report ; NOP 15-1 ; 2016 Supplemental TR . 2017/Fall - Rec to Renew	5.18.21 6.1.21 1.18.22 2.1.22 2.15.22 5.17.22	" "
Boric acid	205.601(e)(3)	WT	N	Sunset date: 10.30.24 TR: 1995 TAP . 2017/Fall - Rec to Renew	5.18.21 6.1.21 11.16.21 6.7.22	" "
Sticky traps/barriers	205.601(e)(9)	RG	N	Sunset date: 10.30.24 TR: 1995 TAP . 2017/Fall - Rec to Renew	5.18.21 6.1.21 11.16.21 6.21.22	" "
Elemental sulfur	205.601(h)(2)	BC	N	Sunset date: 11.22.24 TR: 1995 TAP ; 2018 TR . 2018/Spring - Rec to ADD	5.18.21 6.1.21 1.18.22 5.17.22	" "
Coppers, fixed	205.601(i)(2)	JD	Y	Sunset date: 10.30.24 TR: 1995 TAP ; 2011 TR . 2017/Fall - Rec to Renew CS requested a TR on 12.20.21.	5.18.21 6.1.21 12.7.21 1.4.22 5.17.22	" "
Copper sulfate	205.601(i)(3)	JD	Y	Sunset date: 10.30.24 TR: 1995 TAP ; 2011 TR . 2017/Fall - Rec to Renew CS requested a TR on 12.20.21.	5.18.21 6.1.21 12.7.21 1.4.22 5.17.22	" "

Polyoxin D zinc salt	205.601(i)(11)	BC	Y Lmtd Scope	Sunset date: 11.22.24 TR: 2012 TR ; 2017 Limited Scope TR . 2018/Spring - Rec to ADD CS requested a Limited Scope TR on 6.1.21. TR due to NOP early November. TR sent to CS 11.29.21. TR suff due 01.28.22. TR found sufficient 2.1.22	5.18.21 6.1.21 2.1.22 6.21.22	“ “
Humic acids	205.601(j)(3)	ADB	N	Sunset date: 10.30.24 TR: 1996 TAP ; 2006 TR ; 2012 TR (oxidized lignite/humic acid derivatives) . 2017/Fall - Rec to Renew	5.18.21 6.1.21 1.18.22 7.19.22	“ “
Micronutrients: Soluble boron products	205.601(j)(7)(i)	ADB	Y Lmtd Scope	Sunset date: 1.28.24 TR: 2010 TR (Micronutrients) . 2017/Fall - Rec to Renew CS requested a Limited Scope TR on 7.23.21. TR due to NOP 12.22.21. TR sent to CS 1.18.22. Suff due 3.19.22. TR found sufficient 2.15.22	5.18.21 6.1.21 2.1.22 2.15.22 7.19.22	“ “
Micronutrients: Sulfates, carbonates, oxides, or silicates of zinc, copper, iron, manganese, molybdenum, selenium, and cobalt	205.601(j)(7)(ii)	LP	N	Sunset date: 1.28.24 TR: 2010 TR (Micronutrients) . 2017/Fall - Rec to Renew	5.18.21 6.1.21 12.7.21 5.17.22	“ “
Vitamins C and E	205.601(j)(9)	WT	N	Sunset date: 10.30.24 TR: 1995 TAP ; 2015 TR . 2017/Fall - Rec to Renew C&E/REMOVE B1	5.18.21 6.1.21 1.18.22 6.7.22	“ “
Squid byproducts	205.601(j)(10)	LP	N	Sunset date: 1.28.24 TR: 2016 TR 2016/Spring - Rec to ADD	5.18.21 6.1.21 1.18.22 5.17.22	“ “
Lead salts	205.602(d)	JZ	N	Sunset date: 10.30.24 TR: N/A 2017/Fall - Rec to Renew	5.18.21 6.1.21 12.7.21 12.21.21 7.19.22	“ “
Tobacco dust (nicotine sulfate)	205.602(j)	LP	N	Sunset date: 10.30.24 TR: N/A 2017/Fall - Rec to Renew	5.18.21 6.1.21 1.18.22 6.7.22	“ “

Milestones

Spring 2022 Milestones	Target dates (tentative)
NOP - Publish FRN, Open public comment	Mar 3, 2022
NOSB - Spring 2022 proposals due to NOP	Feb 16, 2022
New NOSB member training	Mar 16 - 18, 2022
NOP - Draft Spring 2022 NOSB meeting tentative agenda	Feb 2, 2022
NOP - Post proposals	Mar 3, 2022
Public comment closes	Apr 1, 2022
NOP - Send compiled public comments to NOSB	Apr 4, 2022
Public comment webinars	Apr 19 & 21, 2022
Spring 2022 NOSB meeting - Crystal City, VA	Apr 26 - 28, 2022
Final recommendations due	May 27, 2022

2025 Sunset Review

TR Requests (June 2022), Summary (Spr 2023), Review (Fall 2023)

Substance	National List	Cont act	TR Re quest?	Notes*	Scheduled, Discussed, Voted	Target meeting
Alcohols: Ethanol	205.601(a)(1)(i)	RG	N	Sunset date: 6/22/2025 TR: 2014 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	Summary: Spr 2023 Review: Fall 2023
Alcohols: Isopropanol	205.601(a)(1)(ii)	RG	N	Sunset date: 6/22/2025 TR: 2014 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Sodium carbonate peroxyhydrate	205.601(a)(8)	JZ	TBD	Sunset date: 6/22/2025 TR: 2014 TR: 2006 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22 5.17.22	“ “

Newspaper or other recycled paper, without glossy or colored inks	205.601(b)(2)(i) and 205.601(c)	WT	N	Sunset date: 6/22/2025 TR: 2017 TR: 2006 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Plastic mulch and covers	205.601(b)(2)(ii)	LP	N	Sunset date: 6/22/2025 TR: 2016 Supplement (Biodegradable Mulch Film Made from Bioplastics) TR: 2012 (Biodegradable Mulch Film Made from Bioplastics) TAP: 1995 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Aqueous potassium silicate	205.601(e)(2) and 205.601(i)(1)	BC	Y -Lmt'd scope	Sunset date: 6/22/2025 TR: 2014 TAP: 2003 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Elemental sulfur	205.601(e)(5), 205.601(i)(10) and 205.601(j)(2)	ADB	N	Sunset date: 6/22/2025 TR: 2018 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Lime sulfur	205.601(e)(6) and 205.601(i)(6)	BC	N	Sunset date: 6/22/2025 TR: 2014 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Hydrated lime	205.601(i)(4)	LG	N	Sunset date: 6/22/2025 TR: 2015 TAP: 2002 (Calcium Hydroxide) 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22 4.5.22	“ “
Liquid fish products	205.601(j)(8)	ADB	Y	Sunset date: 6/22/2025 TR: 2019 (Fish products) TR: 2006 (Fish products) 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Sulfurous acid	205.601(j)(11)	BC	Y -Lmt'd scope on	Sunset date: 6/22/2025 TR: 2014 TR: 2010 2018/Fall - Rec to Renew	3.15.22	“ “

			alternatives	Sunset renewal: 05/07/2020, 85 FR 27105		
Ethylene gas	205.601(k)	LP	Y? Also requested in HS	Sunset date: 6/22/2025 TR: 2011 Supplemental TR: 2007 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Microcrystalline cheesewax	205.601(o)	JD	N	Sunset date: 6/22/2025 TR: 2018 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Potassium chloride	205.602(e)	WT	Y	Sunset date: 6/22/2025 TAP: 1995 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “

Note: Subcommittee notes may include preliminary discussions regarding substances considered for addition to or removal from the National List. They do not represent official National Organic Program (NOP) policy/regulations or NOSB recommendations. Proposals must be voted on by the full Board, to become recommendations to the USDA. Please see the NOP website for official NOP policy, regulations, and status of substances used in organic production and handling.

Crops Subcommittee (CS) Notes
Tuesday, March 15, 2022 2:00 pm ET

Present: Rick Greenwood (RG), Chair; Amy Bruch (ADB), Vice Chair; Brian Caldwell (BC); Jerry D'Amore (JD); Logan Petrey (LP); Wood Turner (WT); Javier Zamora (JZ); Liz Graznak (LG); Nate Powell Palm - observer

Absent: None

Staff: Michelle Arsenault (MA); Jared Clark (JC)

Agenda

- Review March 1, 2022 notes
- Determine TR needs: 2025 sunsets
- Additional Items
- Adjourn

Discussion

- **March 1, 2022 notes** were accepted as written
- **Determine TR needs: 2025 sunsets.** See table below. The CS is seeking TRs for 5 substances, and will determine the TR needs for the remainder of the substances on the next call.
- **Additional Items.** None.
- **The meeting was adjourned**

[Previous CS Notes](#)

Future call schedule (1st and 3rd Tuesdays 2:00 PM ET | 11:00 AM PT, except where noted)

March 1, 2022

Assign leads

March 15, 2022

Determine TR needs: 2025 sunsets

April 5, 2022

Determine TR needs: Remaining 2025 sunsets

Assign discussion dates for 2024 sunsets and petitions

April 19, 2022 - cancelled

May 3, 2022

May 17, 2022

June 7, 2022

June 21, 2022

July 5, 2022

July 19, 2022

August 2, 2022

August 16, 2022

September 6, 2022

September 20, 2022

October 4, 2022

October 18, 2022

November 1, 2022

November 15, 2022

December 6, 2022

December 20, 2022

Work Agenda

*Highlight indicates discussion. *Highlight indicates action needed. *Highlight indicates review completion and/or vote.

Petitioned Substances

Substance	Contact	Doc Type	Notes*	Scheduled, Discussed, Voted	Target meeting
Highly soluble fertilizers (Ammonia Extract)	ADB	Proposal	Petition sent to CS 05.26.20. Petition suff/TR request due 7.24.20. Petition found sufficient 06.16.20. CS requested TR 06.19.20. TR due mid-December. Draft TR sent to CS 12.31.20. TR sent back for additional info. Updated TR sent to CS 2.23.21. TR found sufficient 3.2.21. 2021 TR (Handling). Classified as nonsynthetic and two of three motions passed at Fall 2021 meeting.	12.21.21 1.18.22	Spr 2022
Carbon Dioxide	LP	Proposal	2006 TR (Handling) Petition sent to CS 01.15.21. Petition suff/TR request due 03.16.21. CS found the petition sufficient 03.2.21 and will not request a TR for now. Returned to CS for additional work at Fall 2021 NOSB meeting.	1.18.22	Spr 2022
Potassium Hydroxide	RG	Proposal	Petition sent to CS 11.22.21. Petition suff/TR request due 01.21.22. Petition found sufficient. No TR requested.	12.7.21 01.18.22 TBD	Fall 2022
Potassium Sorbate	ADB	Proposal	Petition sent to CS 11.22.21. Petition suff/TR request due 01.21.22. . Petition found sufficient. TR requested 1.18.22.	12.7.21 01.18.22 TBD	Fall 2022

Other Projects

Project	Contact	Notes*	Scheduled, Discussed, Voted	Target meeting
Research Priorities	RG/All	Due to MS by 1.25.22	1.4.22 1.18.22	Spr 2022

2024 Sunset Review

TR Requests (June 2021), Summary (Spr 2022), Review (Fall 2022)

Substance	National List	Contact	TR?	Notes*	Scheduled, Discussed, Voted	Target meeting
Herbicides, soap-based	205.601(b)(1)	RG	N	Sunset date: 10.30.24 TR: 1996 TAP ; 2015 TR . 2017/Fall - Rec to Renew	5.18.21 6.1.21 11.16.21	Summary: Spr 2022 Review: Fall 2022

Biodegradable biobased mulch film	205.601(b)(2)(iii)	LP	N	Sunset date: 10.30.24 TR: 2012 TR ; 2015 Report ; NOP 15-1 ; 2016 Supplemental TR . 2017/Fall - Rec to Renew	5.18.21 6.1.21 1.18.22 2.1.22 2.15.22	“ “
Boric acid	205.601(e)(3)	WT	N	Sunset date: 10.30.24 TR: 1995 TAP . 2017/Fall - Rec to Renew	5.18.21 6.1.21 11.16.21	“ “
Sticky traps/barriers	205.601(e)(9)	RG	N	Sunset date: 10.30.24 TR: 1995 TAP . 2017/Fall - Rec to Renew	5.18.21 6.1.21 11.16.21	“ “
Elemental sulfur	205.601(h)(2)	BC	N	Sunset date: 11.22.24 TR: 1995 TAP ; 2018 TR . 2018/Spring - Rec to ADD	5.18.21 6.1.21 1.18.22	“ “
Coppers, fixed	205.601(i)(2)	JD	N	Sunset date: 10.30.24 TR: 1995 TAP ; 2011 TR . 2017/Fall - Rec to Renew CS requested a TR on 12.20.21.	5.18.21 6.1.21 12.7.21 1.4.22	“ “
Copper sulfate	205.601(i)(3)	JD	N	Sunset date: 10.30.24 TR: 1995 TAP ; 2011 TR . 2017/Fall - Rec to Renew CS requested a TR on 12.20.21.	5.18.21 6.1.21 12.7.21 1.4.22	“ “
Polyoxin D zinc salt	205.601(i)(11)	BC	Y Lmtd Scope	Sunset date: 11.22.24 TR: 2012 TR ; 2017 Limited Scope TR . 2018/Spring - Rec to ADD CS requested a Limited Scope TR on 6.1.21. TR due to NOP early November. TR sent to CS 11.29.21. TR suff due 01.28.22. TR found sufficient 2.1.22	5.18.21 6.1.21 2.1.22	“ “
Humic acids	205.601(j)(3)	ADB	N	Sunset date: 10.30.24 TR: 1996 TAP ; 2006 TR ; 2012 TR (oxidized lignite/humic acid derivatives) . 2017/Fall - Rec to Renew	5.18.21 6.1.21 1.18.22	“ “
Micronutrients: Soluble boron products	205.601(j)(7)(i)	ADB	Y Lmtd Scope	Sunset date: 1.28.24 TR: 2010 TR (Micronutrients) . 2017/Fall - Rec to Renew CS requested a Limited Scope TR on 7.23.21. TR due to NOP 12.22.21. TR sent to CS 1.18.22. Suff due 3.19.22. TR found sufficient 2.15.22	5.18.21 6.1.21 2.1.22 2.15.22	“ “
Micronutrients: Sulfates, carbonates, oxides, or silicates of zinc, copper, iron, manganese,	205.601(j)(7)(ii)	LP	N	Sunset date: 1.28.24 TR: 2010 TR (Micronutrients) . 2017/Fall - Rec to Renew	5.18.21 6.1.21 12.7.21	“ “

molybdenum, selenium, and cobalt						
Vitamins C, and E	205.601(j)(9)	WT	N	Sunset date: 10.30.24 TR: 1995 TAP ; 2015 TR . 2017/Fall - Rec to Renew C&E/REMOVE B1	5.18.21 6.1.21 1.18.22	“ “
Squid byproducts	205.601(j)(10)	LP	N	Sunset date: 1.28.24 TR: 2016 TR 2016/Spring - Rec to ADD	5.18.21 6.1.21 1.18.22	“ “
Lead salts	205.602(d)	JZ	N	Sunset date: 10.30.24 TR: N/A 2017/Fall - Rec to Renew	5.18.21 6.1.21 12.7.21 12.21.21	“ “
Tobacco dust (nicotine sulfate)	205.602(j)	LP	N	Sunset date: 10.30.24 TR: N/A 2017/Fall - Rec to Renew	5.18.21 6.1.21 1.18.22	“ “

Milestones

Spring 2022 Milestones	Target dates (tentative)
NOP - Publish FRN, Open public comment	Mar 3, 2022
NOSB - Spring 2022 proposals due to NOP	Feb 16, 2022
New NOSB member training	Mar 16 - 18, 2022
NOP - Draft Spring 2022 NOSB meeting tentative agenda	Feb 2, 2022
NOP - Post proposals	Mar 3, 2022
Public comment closes	Apr 1, 2022
NOP - Send compiled public comments to NOSB	Apr 4, 2022
Public comment webinars	Apr 19 & 21, 2022
Spring 2022 NOSB meeting - Crystal City, VA	Apr 26 - 28, 2022
Final recommendations due	May 27, 2022

2025 Sunset Review

TR Requests (June 2022), Summary (Spr 2023), Review (Fall 2023)

Substance	National List	Contact	TR Request?	Notes*	Scheduled, Discussed, Voted	Target meeting
Alcohols: Ethanol	205.601(a)(1)(i)	RG	N	Sunset date: 6/22/2025 TR: 2014 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	Summary: Spr 2023 Review: Fall 2023

Alcohols: Isopropanol	205.601(a)(1)(ii)	RG	N	Sunset date: 6/22/2025 TR: 2014 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Sodium carbonate peroxyhydrate	205.601(a)(8)	JZ		Sunset date: 6/22/2025 TR: 2014 TR: 2006 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22 4.5.22	“ “
Newspaper or other recycled paper, without glossy or colored inks	205.601(b)(2)(i) and 205.601(c)	WT	N	Sunset date: 6/22/2025 TR: 2017 TR: 2006 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Plastic mulch and covers	205.601(b)(2)(ii)	LP	N	Sunset date: 6/22/2025 TR: 2016 Supplement (Biodegradable Mulch Film Made from Bioplastics) TR: 2012 (Biodegradable Mulch Film Made from Bioplastics) TAP: 1995 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Aqueous potassium silicate	205.601(e)(2) and 205.601(i)(1)	BC	Y -Lmt'd scope	Sunset date: 6/22/2025 TR: 2014 TAP: 2003 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Elemental sulfur	205.601(e)(5), 205.601(i)(10) and 205.601(j)(2)	ADB	N	Sunset date: 6/22/2025 TR: 2018 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Lime sulfur	205.601(e)(6) and 205.601(i)(6)	BC	N	Sunset date: 6/22/2025 TR: 2014 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Hydrated lime	205.601(i)(4)	LG		Sunset date: 6/22/2025 TR: 2015 TAP: 2002 (Calcium Hydroxide) 2018/Fall - Rec to Renew	3.15.22 4.5.22	“ “

				Sunset renewal: 05/07/2020, 85 FR 27105		
Liquid fish products	205.601(j)(8)	ADB	Y	Sunset date: 6/22/2025 TR: 2019 (Fish products) TR: 2006 (Fish products) 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Sulfurous acid	205.601(j)(11)	BC	Y -Lmt'd scope on alternatives	Sunset date: 6/22/2025 TR: 2014 TR: 2010 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Ethylene gas	205.601(k)	LP	Y? Also requested in HS	Sunset date: 6/22/2025 TR: 2011 Supplemental TR: 2007 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Microcrystalline cheesewax	205.601(o)	JD	N	Sunset date: 6/22/2025 TR: 2018 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Potassium chloride	205.602(e)	WT	Y	Sunset date: 6/22/2025 TAP: 1995 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “

Note: Subcommittee notes may include preliminary discussions regarding substances considered for addition to or removal from the National List. They do not represent official National Organic Program (NOP) policy/regulations or NOSB recommendations. Proposals must be voted on by the full Board, to become recommendations to the USDA. Please see the NOP website for official NOP policy, regulations, and status of substances used in organic production and handling.

Crops Subcommittee (CS) Notes **Tuesday, March 1, 2022 2:00 pm ET**

Present: Rick Greenwood (RG), Chair; Amy Bruch (ADB), Vice Chair; Brian Caldwell (BC); Jerry D'Amore (JD); Logan Petrey (LP); Wood Turner (WT); Javier Zamora (JZ); Mindee Jeffery (MJ) - observer; Nate Powell Palm - observer

Absent: Liz Graznak (LG)

Staff: Michelle Arsenault (MA); Jared Clark (JC)

Agenda

- Review February 15, 2022 notes
- Discuss April 2022 NOSB meeting
- Assign leads/Determine TR needs: 2025 sunsets
- Additional Items
- Adjourn

Discussion

- **February 15, 2022 notes** were approved as written
- **April 2022 NOSB meeting.** The CS Chair reassigned the 2024 sunset review for lead salts to a new NOSB member. See table below.
- **Assign leads: 2025 sunsets.** Each of the Crops members chose 2025 sunset substances to review, and will determine TR requests on the next call. See table below for assignments.
- **Additional Items.** None.
- **The meeting was adjourned**

[Previous CS Notes](#)

Future call schedule (1st and 3rd Tuesdays 2:00 PM ET | 11:00 AM PT, except where noted)

February 15, 2022 - Last call before proposal deadline (02.16.22)

Biodegradable Biobased Mulch Film (LP) - Discuss review

Micronutrients: Soluble boron products (ADB) - TR sufficiency

March 1, 2022

Assign leads

March 15, 2022

Determine TR needs: 2025 sunsets

April 5, 2022

April 19, 2022 - cancelled

May 3, 2022

May 17, 2022

June 7, 2022

June 21, 2022

July 5, 2022

July 19, 2022

August 2, 2022

August 16, 2022

September 6, 2022

September 20, 2022

October 4, 2022

October 18, 2022
 November 1, 2022
 November 15, 2022
 December 6, 2022
 December 20, 2022

Work Agenda

*Highlight indicates discussion. *Highlight indicates action needed. *Highlight indicates review completion and/or vote.

Petitioned Substances

Substance	Contact	Doc Type	Notes*	Scheduled, Discussed, Voted	Target meeting
Highly soluble fertilizers (Ammonia Extract)	ADB	Proposal	Petition sent to CS 05.26.20. Petition suff/TR request due 7.24.20. Petition found sufficient 06.16.20. CS requested TR 06.19.20. TR due mid-December. Draft TR sent to CS 12.31.20. TR sent back for additional info. Updated TR sent to CS 2.23.21. TR found sufficient 3.2.21. 2021 TR (Handling). Classified as nonsynthetic and two of three motions passed at Fall 2021 meeting.	12.21.21 1.18.22	Spr 2022
Carbon Dioxide	LP	Proposal	2006 TR (Handling) Petition sent to CS 01.15.21. Petition suff/TR request due 03.16.21. CS found the petition sufficient 03.2.21 and will not request a TR for now. Returned to CS for additional work at Fall 2021 NOSB meeting.	1.18.22	Spr 2022
Potassium Hydroxide	RG	Proposal	Petition sent to CS 11.22.21. Petition suff/TR request due 01.21.22. Petition found sufficient. No TR requested.	12.7.21 01.18.22 TBD	Fall 2022
Potassium Sorbate	ADB	Proposal	Petition sent to CS 11.22.21. Petition suff/TR request due 01.21.22. . Petition found sufficient. TR requested 1.18.22.	12.7.21 01.18.22 TBD	Fall 2022

Other Projects

Project	Contact	Notes*	Scheduled, Discussed, Voted	Target meeting
Research Priorities	RG/All	Due to MS by 1.25.22	1.4.22 1.18.22	Spr 2022

2024 Sunset Review

TR Requests (June 2021), Summary (Spr 2022), Review (Fall 2022)

Substance	National List	Contact	TR?	Notes*	Scheduled, Discussed, Voted	Target meeting
Herbicides, soap-based	205.601(b)(1)	RG	N	Sunset date: 10.30.24 TR: 1996 TAP ; 2015 TR . 2017/Fall - Rec to Renew	5.18.21 6.1.21 11.16.21	Summary: Spr 2022 Review: Fall 2022
Biodegradable biobased mulch film	205.601(b)(2)(iii)	LP	N	Sunset date: 10.30.24 TR: 2012 TR ; 2015 Report ; NOP 15-1 ; 2016 Supplemental TR . 2017/Fall - Rec to Renew	5.18.21 6.1.21 1.18.22 2.1.22 2.15.22	" "
Boric acid	205.601(e)(3)	WT	N	Sunset date: 10.30.24 TR: 1995 TAP . 2017/Fall - Rec to Renew	5.18.21 6.1.21 11.16.21	" "
Sticky traps/barriers	205.601(e)(9)	RG	N	Sunset date: 10.30.24 TR: 1995 TAP . 2017/Fall - Rec to Renew	5.18.21 6.1.21 11.16.21	" "
Elemental sulfur	205.601(h)(2)	BC	N	Sunset date: 11.22.24 TR: 1995 TAP ; 2018 TR . 2018/Spring - Rec to ADD	5.18.21 6.1.21 1.18.22	" "
Coppers, fixed	205.601(i)(2)	JD	N	Sunset date: 10.30.24 TR: 1995 TAP ; 2011 TR . 2017/Fall - Rec to Renew CS requested a TR on 12.20.21.	5.18.21 6.1.21 12.7.21 1.4.22	" "
Copper sulfate	205.601(i)(3)	JD	N	Sunset date: 10.30.24 TR: 1995 TAP ; 2011 TR . 2017/Fall - Rec to Renew CS requested a TR on 12.20.21.	5.18.21 6.1.21 12.7.21 1.4.22	" "
Polyoxin D zinc salt	205.601(i)(11)	BC	Y Lmtd Scope	Sunset date: 11.22.24 TR: 2012 TR ; 2017 Limited Scope TR . 2018/Spring - Rec to ADD CS requested a Limited Scope TR on 6.1.21. TR due to NOP early November. TR sent to CS 11.29.21. TR suff due 01.28.22. TR found sufficient 2.1.22	5.18.21 6.1.21 2.1.22	" "
Humic acids	205.601(j)(3)	ADB	N	Sunset date: 10.30.24 TR: 1996 TAP ; 2006 TR ; 2012 TR (oxidized lignite/humic acid derivatives) . 2017/Fall - Rec to Renew	5.18.21 6.1.21 1.18.22	" "

Micronutrients: Soluble boron products	205.601(j)(7)(i)	ADB	Y Lmtd Scope	Sunset date: 1.28.24 TR: 2010 TR (Micronutrients) . 2017/Fall - Rec to Renew CS requested a Limited Scope TR on 7.23.21. TR due to NOP 12.22.21. TR sent to CS 1.18.22. Suff due 3.19.22. TR found sufficient 2.15.22	5.18.21 6.1.21 2.1.22 2.15.22	“ “
Micronutrients: Sulfates, carbonates, oxides, or silicates of zinc, copper, iron, manganese, molybdenum, selenium, and cobalt	205.601(j)(7)(ii)	LP	N	Sunset date: 1.28.24 TR: 2010 TR (Micronutrients) . 2017/Fall - Rec to Renew	5.18.21 6.1.21 12.7.21	“ “
Vitamins C, and E	205.601(j)(9)	WT	N	Sunset date: 10.30.24 TR: 1995 TAP ; 2015 TR . 2017/Fall - Rec to Renew C&E/REMOVE B1	5.18.21 6.1.21 1.18.22	“ “
Squid byproducts	205.601(j)(10)	LP	N	Sunset date: 1.28.24 TR: 2016 TR 2016/Spring - Rec to ADD	5.18.21 6.1.21 1.18.22	“ “
Lead salts	205.602(d)	JZ	N	Sunset date: 10.30.24 TR: N/A 2017/Fall - Rec to Renew	5.18.21 6.1.21 12.7.21 12.21.21	“ “
Tobacco dust (nicotine sulfate)	205.602(j)	LP	N	Sunset date: 10.30.24 TR: N/A 2017/Fall - Rec to Renew	5.18.21 6.1.21 1.18.22	“ “

Milestones

Spring 2022 Milestones	Target dates (tentative)
NOP - Publish FRN, Open public comment	~Nov 12, 2021
NOSB - Spring 2022 proposals due to NOP	Feb 16, 2022
New NOSB member training	TBD
NOP - Draft Spring 2022 NOSB meeting tentative agenda	Feb 2, 2022
NOP - Post proposals	Mar 3, 2022
Public comment closes	Apr 1, 2022
NOP - Send compiled public comments to NOSB	Apr 4, 2022
Public comment webinars	Apr 19 & 21, 2022
Spring 2022 NOSB meeting - Crystal City, VA	Apr 26 - 28, 2022
Final recommendations due	May 27, 2022

2025 Sunset Review

TR Requests (June 2022), Summary (Spr 2023), Review (Fall 2023)

Substance	National List	Contact	TR Request?	Notes*	Scheduled, Discussed, Voted	Target meeting
Alcohols: Ethanol	205.601(a)(1)(i)	RG		Sunset date: 6/22/2025 TR: 2014 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	Summary: Spr 2023 Review: Fall 2023
Alcohols: Isopropanol	205.601(a)(1)(ii)	RG		Sunset date: 6/22/2025 TR: 2014 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Sodium carbonate peroxyhydrate	205.601(a)(8)	JZ		Sunset date: 6/22/2025 TR: 2014 TR: 2006 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Newspaper or other recycled paper, without glossy or colored inks	205.601(b)(2)(i) and 205.601(c)	WT		Sunset date: 6/22/2025 TR: 2017 TR: 2006 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Plastic mulch and covers	205.601(b)(2)(ii)	LP		Sunset date: 6/22/2025 TR: 2016 Supplement (Biodegradable Mulch Film Made from Bioplastics) TR: 2012 (Biodegradable Mulch Film Made from Bioplastics) TAP: 1995 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Aqueous potassium silicate	205.601(e)(2) and 205.601(i)(1)	BC		Sunset date: 6/22/2025 TR: 2014 TAP: 2003 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Elemental sulfur	205.601(e)(5), 205.601(i)(10) and 205.601(j)(2)	ADB		Sunset date: 6/22/2025 TR: 2018 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “

Lime sulfur	205.601(e)(6) and 205.601(i)(6)	BC		Sunset date: 6/22/2025 TR: 2014 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Hydrated lime	205.601(i)(4)	LG		Sunset date: 6/22/2025 TR: 2015 TAP: 2002 (Calcium Hydroxide) 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Liquid fish products	205.601(j)(8)	ADB		Sunset date: 6/22/2025 TR: 2019 (Fish products) TR: 2006 (Fish products) 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Sulfurous acid	205.601(j)(11)	BC		Sunset date: 6/22/2025 TR: 2014 TR: 2010 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Ethylene gas	205.601(k)	LP		Sunset date: 6/22/2025 TR: 2011 Supplemental TR: 2007 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Microcrystalline cheesewax	205.601(o)	JD		Sunset date: 6/22/2025 TR: 2018 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “
Potassium chloride	205.602(e)	WT		Sunset date: 6/22/2025 TAP: 1995 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105	3.15.22	“ “

Note: Subcommittee notes may include preliminary discussions regarding substances considered for addition to or removal from the National List. They do not represent official National Organic Program (NOP) policy/regulations or NOSB recommendations. Proposals must be voted on by the full Board, to become recommendations to the USDA. Please see the NOP website for official NOP policy, regulations, and status of substances used in organic production and handling.

Crops Subcommittee (CS) Notes
Tuesday, February 15, 2022 2:00 pm ET

Present: Rick Greenwood (RG), Chair; Amy Bruch (ADB), Vice Chair; Jerry D’Amore (JD); Wood Turner (WT); Logan Petrey (LP); Mindee Jeffery (MJ) - observer

Absent: Brian Caldwell (BC)

Staff: Michelle Arsenault (MA); Jared Clark (JC)

Agenda

- Review February 1, 2022 notes
- Micronutrients: Soluble boron products (ADB) - Discuss TR sufficiency
- Biodegradable Biobased Mulch Film (LP) - Discuss review
- Additional Items
- Adjourn

Discussion

- **February 1, 2022 notes** were accepted as written
- **Biodegradable Biobased Mulch Film (LP).** The lead summarized the review, specifically the international uses of BBMF, and the CS will submit the review for the Spring 2022 NOSB meeting.
- **Micronutrients: Soluble boron products (ADB).** The CS found the TR sufficient and will send a note to the NOP indicating that.
- **Additional Items.**
- **The meeting was adjourned**

[Previous CS Notes](#)

Future call schedule (1st and 3rd Tuesdays 2:00 PM ET | 11:00 AM PT, except where noted)

February 1, 2022

2024 Sunsets:

Polyoxin D zinc salt (BC) - TR sufficiency/Discuss review

Micronutrients: Soluble boron products (ADB) - Discuss review

Biodegradable Biobased Mulch Film (AB) - Discuss review

February 15, 2022 - Last call before proposal deadline (02.16.22)

Biodegradable Biobased Mulch Film (LP) - Discuss review

Micronutrients: Soluble boron products (ADB) - TR sufficiency

March 1, 2022

Review 2025 Sunset substances for TR requests

March 15, 2022

April 5, 2022

April 19, 2022

May 3, 2022

May 17, 2022

June 7, 2022

June 21, 2022

July 5, 2022

July 19, 2022

August 2, 2022

August 16, 2022

September 6, 2022
 September 20, 2022
 October 4, 2022
 October 18, 2022
 November 1, 2022
 November 15, 2022
 December 6, 2022
 December 20, 2022

Work Agenda

*Highlight indicates discussion. *Highlight indicates action needed. *Highlight indicates review completion and/or vote.

Petitioned Substances

Substance	Contact	Doc Type	Notes*	Scheduled, Discussed, Voted	Target meeting
Highly soluble fertilizers (Ammonia Extract)	ADB	Proposal	Petition sent to CS 05.26.20. Petition suff/TR request due 7.24.20. Petition found sufficient 06.16.20. CS requested TR 06.19.20. TR due mid-December. Draft TR sent to CS 12.31.20. TR sent back for additional info. Updated TR sent to CS 2.23.21. TR found sufficient 3.2.21. 2021 TR (Handling). Classified as nonsynthetic and two of three motions passed at Fall 2021 meeting.	12.21.21 1.18.22	Spr 2022
Carbon Dioxide	LP	Proposal	2006 TR (Handling) Petition sent to CS 01.15.21. Petition suff/TR request due 03.16.21. CS found the petition sufficient 03.2.21 and will not request a TR for now. Returned to CS for additional work at Fall 2021 NOSB meeting.	1.18.22	Spr 2022
Potassium Hydroxide	RG	Proposal	Petition sent to CS 11.22.21. Petition suff/TR request due 01.21.22. Petition found sufficient. No TR requested.	12.7.21 01.18.22 TBD	Fall 2022
Potassium Sorbate	ADB	Proposal	Petition sent to CS 11.22.21. Petition suff/TR request due 01.21.22. . Petition found sufficient. TR requested 1.18.22.	12.7.21 01.18.22 TBD	Fall 2022

Other Projects

Project	Contact	Notes*	Scheduled, Discussed, Voted	Target meeting
Research Priorities	RG/All	Due to MS by 1.25.22	1.4.22 1.18.22	Spr 2022

2024 Sunset Review

TR Requests (June 2021), Summary (Spr 2022), Review (Fall 2022)

Substance	National List	Contact	TR?	Notes*	Scheduled, Discussed, Voted	Target meeting
Herbicides, soap-based	205.601(b)(1)	RG	N	Sunset date: 10.30.24 TR: 1996 TAP ; 2015 TR . 2017/Fall - Rec to Renew	5.18.21 6.1.21 11.16.21	Summary: Spr 2022 Review: Fall 2022
Biodegradable biobased mulch film	205.601(b)(2)(iii)	LP	N	Sunset date: 10.30.24 TR: 2012 TR ; 2015 Report ; NOP 15-1 ; 2016 Supplemental TR . 2017/Fall - Rec to Renew	5.18.21 6.1.21 1.18.22 2.1.22 2.15.22	" "
Boric acid	205.601(e)(3)	WT	N	Sunset date: 10.30.24 TR: 1995 TAP . 2017/Fall - Rec to Renew	5.18.21 6.1.21 11.16.21	" "
Sticky traps/barriers	205.601(e)(9)	RG	N	Sunset date: 10.30.24 TR: 1995 TAP . 2017/Fall - Rec to Renew	5.18.21 6.1.21 11.16.21	" "
Elemental sulfur	205.601(h)(2)	BC	N	Sunset date: 11.22.24 TR: 1995 TAP ; 2018 TR . 2018/Spring - Rec to ADD	5.18.21 6.1.21 1.18.22	" "
Coppers, fixed	205.601(i)(2)	JD	N	Sunset date: 10.30.24 TR: 1995 TAP ; 2011 TR . 2017/Fall - Rec to Renew CS requested a TR on 12.20.21.	5.18.21 6.1.21 12.7.21 1.4.22	" "
Copper sulfate	205.601(i)(3)	JD	N	Sunset date: 10.30.24 TR: 1995 TAP ; 2011 TR . 2017/Fall - Rec to Renew CS requested a TR on 12.20.21.	5.18.21 6.1.21 12.7.21 1.4.22	" "
Polyoxin D zinc salt	205.601(i)(11)	BC	Y Lmtd Scope	Sunset date: 11.22.24 TR: 2012 TR ; 2017 Limited Scope TR . 2018/Spring - Rec to ADD CS requested a Limited Scope TR on 6.1.21. TR due to NOP early November. TR sent to CS 11.29.21. TR suff due 01.28.22. TR found sufficient 2.1.22	5.18.21 6.1.21 2.1.22	" "
Humic acids	205.601(j)(3)	ADB	N	Sunset date: 10.30.24 TR: 1996 TAP ; 2006 TR ; 2012 TR (oxidized lignite/humic acid derivatives) . 2017/Fall - Rec to Renew	5.18.21 6.1.21 1.18.22	" "

Micronutrients: Soluble boron products	205.601(j)(7)(i)	ADB	Y Lmtd Scope	Sunset date: 1.28.24 TR: 2010 TR (Micronutrients) . 2017/Fall - Rec to Renew CS requested a Limited Scope TR on 7.23.21. TR due to NOP 12.22.21. TR sent to CS 1.18.22. Suff due 3.19.22. TR found sufficient 2.15.22	5.18.21 6.1.21 2.1.22 2.15.22	“ “
Micronutrients: Sulfates, carbonates, oxides, or silicates of zinc, copper, iron, manganese, molybdenum, selenium, and cobalt	205.601(j)(7)(ii)	LP	N	Sunset date: 1.28.24 TR: 2010 TR (Micronutrients) . 2017/Fall - Rec to Renew	5.18.21 6.1.21 12.7.21	“ “
Vitamins C, and E	205.601(j)(9)	WT	N	Sunset date: 10.30.24 TR: 1995 TAP ; 2015 TR . 2017/Fall - Rec to Renew C&E/REMOVE B1	5.18.21 6.1.21 1.18.22	“ “
Squid byproducts	205.601(j)(10)	LP	N	Sunset date: 1.28.24 TR: 2016 TR 2016/Spring - Rec to ADD	5.18.21 6.1.21 1.18.22	“ “
Lead salts	205.602(d)	?	N	Sunset date: 10.30.24 TR: N/A 2017/Fall - Rec to Renew	5.18.21 6.1.21 12.7.21 12.21.21	“ “
Tobacco dust (nicotine sulfate)	205.602(j)	LP	N	Sunset date: 10.30.24 TR: N/A 2017/Fall - Rec to Renew	5.18.21 6.1.21 1.18.22	“ “

Milestones

Spring 2022 Milestones	Target dates (tentative)
NOP - Publish FRN, Open public comment	~Nov 12, 2021
NOSB - Spring 2022 proposals due to NOP	Feb 16, 2022
New NOSB member training	TBD
NOP - Draft Spring 2022 NOSB meeting tentative agenda	Feb 2, 2022
NOP - Post proposals	Mar 3, 2022
Public comment closes	Apr 1, 2022
NOP - Send compiled public comments to NOSB	Apr 4, 2022
Public comment webinars	Apr 19 & 21, 2022
Spring 2022 NOSB meeting - Crystal City, VA	Apr 26 - 28, 2022
Final recommendations due	May 27, 2022

2025 Sunset Review

TR Requests (June 2022), Summary (Spr 2023), Review (Fall 2023)

Substance	National List	Cont act	TR Re quest?	Notes*	Scheduled, Discussed, Voted	Target meeting
Alcohols: Ethanol	205.601(a)(1)(i)			Sunset date: 6/22/2025 TR: 2014 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105		Summary: Spr 2023 Review: Fall 2023
Alcohols: Isopropanol	205.601(a)(1)(ii)			Sunset date: 6/22/2025 TR: 2014 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105		“ “
Sodium carbonate peroxyhydrate	205.601(a)(8)			Sunset date: 6/22/2025 TR: 2014 TR: 2006 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105		“ “
Newspaper or other recycled paper, without glossy or colored inks	205.601(b)(2)(i) and 205.601(c)			Sunset date: 6/22/2025 TR: 2017 TR: 2006 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105		“ “
Plastic mulch and covers	205.601(b)(2)(ii)			Sunset date: 6/22/2025 TR: 2016 Supplement (Biodegradable Mulch Film Made from Bioplastics) TR: 2012 (Biodegradable Mulch Film Made from Bioplastics) TAP: 1995 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105		“ “
Aqueous potassium silicate	205.601(e)(2) and 205.601(i)(1)			Sunset date: 6/22/2025 TR: 2014 TAP: 2003 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105		“ “
Elemental sulfur	205.601(e)(5), 205.601(i)(10) and 205.601(j)(2)			Sunset date: 6/22/2025 TR: 2018 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105		“ “

Lime sulfur	205.601(e)(6) and 205.601(i)(6)			Sunset date: 6/22/2025 TR: 2014 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105		“ “
Hydrated lime	205.601(i)(4)			Sunset date: 6/22/2025 TR: 2015 TAP: 2002 (Calcium Hydroxide) 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105		“ “
Liquid fish products	205.601(j)(8)			Sunset date: 6/22/2025 TR: 2019 (Fish products) TR: 2006 (Fish products) 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105		“ “
Sulfurous acid	205.601(j)(11)			Sunset date: 6/22/2025 TR: 2014 TR: 2010 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105		“ “
Ethylene gas	205.601(k)			Sunset date: 6/22/2025 TR: 2011 Supplemental TR: 2007 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105		“ “
Microcrystalline cheesewax	205.601(o)			Sunset date: 6/22/2025 TR: 2018 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105		“ “
Potassium chloride	205.602(e)			Sunset date: 6/22/2025 TAP: 1995 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105		“ “

Note: Subcommittee notes may include preliminary discussions regarding substances considered for addition to or removal from the National List. They do not represent official National Organic Program (NOP) policy/regulations or NOSB recommendations. Proposals must be voted on by the full Board, to become recommendations to the USDA. Please see the NOP website for official NOP policy, regulations, and status of substances used in organic production and handling.

Crops Subcommittee (CS) Notes **Tuesday, February 1, 2022 2:00 pm ET**

Present: Amy Bruch (ADB), Vice Chair; Jerry D'Amore (JD); Wood Turner (WT); Logan Petrey (LP); Mindee Jeffery (MJ) - observer; Nate Powell-Palm (NPP) - observer.

Absent: Brian Caldwell (BC); Rick Greenwood (RG), Chair

Staff: Michelle Arsenault (MA); Jared Clark (JC)

Agenda

- Review January 18, 2022 notes
- 2024 Sunsets:
 - Polyoxin D zinc salt (BC) - TR sufficiency/Discuss review
 - Micronutrients: Soluble boron products (ADB) - Discuss review
 - Biodegradable Biobased Mulch Film (AB/?) - Assign new lead, Discuss review
- Additional Items
- Adjourn

Discussion

- **January 18, 2022 notes** were accepted as written.
- **2024 Sunsets:**
 - **Polyoxin D zinc salt (ADB for BC).** The Crops Vice-Chair summarized the sunset review for the group and members had a brief discussion. The TR for Polyoxin D zinc salt was found sufficient. Crops will forward the review to the NOP for posting at the Spring meeting.
 - **Micronutrients: Soluble boron products (ADB).** The lead reviewed the TR and has already incorporated information from it into the draft discussion document. She noted that a previous TR for micronutrients was more general, and the CS requested this TR to focus on soluble boron. The group discussed the use and manufacture of soluble boron, and noted that it is commonly used. The CS will determine TR sufficiency on the next call.
 - **Biodegradable Biobased Mulch Film (AB).** LP volunteered to lead this project. The former lead noted a couple of sections in the document that need to be completed, such as the International Use. The lead will complete the outstanding items and the HS will discuss the document on the next call.
- **Additional Items.** None.
- **The meeting was adjourned**

[Previous CS Notes](#)

Future call schedule (1st and 3rd Tuesdays 2:00 PM ET | 11:00 AM PT, except where noted)

January 18, 2022 - Last call before Research Priorities are due to MS (01.25.22)

Research Priorities - Finalize list

2024 Sunsets:

- Vitamins C and E (WT) - Discuss review
- Elemental sulfur (BC) - Discuss review
- Humic Acids (ADB) - Discuss review
- Squid byproducts (LP) - Discuss review
- Tobacco dust (nicotine sulfate) (LP)
- Biodegradable Biobased Mulch Film (AB) - Discuss review

Petitions:

Carbon Dioxide (LP) - Discuss review/vote

Ammonia Extract (Highly soluble fertilizers) (ADB/SE) - Discuss proposal and vote

Potassium Hydroxide (RG) - TR sufficiency

Potassium Sorbate (ADB) - TR sufficiency

February 1, 2022

2024 Sunsets:

Polyoxin D zinc salt (BC) - TR sufficiency/Discuss review

Micronutrients: Soluble boron products (ADB) - Discuss review

Biodegradable Biobased Mulch Film (AB) - Discuss review

February 15, 2022 - Last call before proposal deadline (02.16.22)

Biodegradable Biobased Mulch Film (LP) - Discuss review

Micronutrients: Soluble boron products (ADB) - TR sufficiency

March 1, 2022

March 15, 2022

April 5, 2022

April 19, 2022

May 3, 2022

May 17, 2022

June 7, 2022

June 21, 2022

July 5, 2022

July 19, 2022

August 2, 2022

August 16, 2022

September 6, 2022

September 20, 2022

October 4, 2022

October 18, 2022

November 1, 2022

November 15, 2022

December 6, 2022

December 20, 2022

Work Agenda

*Highlight indicates discussion. *Highlight indicates action needed. *Highlight indicates review completion and/or vote.

Petitioned Substances

Substance	Contact	Doc Type	Notes*	Scheduled, Discussed, Voted	Target meeting
Ammonia Extract (Highly soluble fertilizers)	SE/ADB	Proposal	Petition sent to CS 05.26.20. Petition suff/TR request due 7.24.20. Petition found sufficient 06.16.20. CS requested TR 06.19.20. TR due mid-December. Draft TR sent to CS 12.31.20. TR sent back for additional info. Updated TR sent to CS 2.23.21. TR found sufficient 3.2.21. 2021 TR (Handling). Classified as nonsynthetic and two of three motions passed at Fall 2021 meeting.	12.21.21 1.18.22	Spr 2022
Carbon Dioxide	LP	Proposal	2006 TR (Handling) Petition sent to CS 01.15.21. Petition suff/TR request due 03.16.21. CS found the petition sufficient 03.2.21 and will not request a TR for now. Returned to CS for additional work at Fall 2021 NOSB meeting.	1.18.22	Spr 2022
Potassium Hydroxide	RG	Proposal	Petition sent to CS 11.22.21. Petition suff/TR request due 01.21.22. Petition found sufficient. No TR requested.	12.7.21 01.18.22 TBD	Fall 2022
Potassium Sorbate	TBD (ADB)	Proposal	Petition sent to CS 11.22.21. Petition suff/TR request due 01.21.22. . Petition found sufficient. TR requested 1.18.22.	12.7.21 01.18.22 TBD	Fall 2022

Other Projects

Project	Contact	Notes*	Scheduled, Discussed, Voted	Target meeting
Research Priorities	RG/All	Due to MS by 1.25.22	1.4.22 1.18.22	Spr 2022

2024 Sunset Review

TR Requests (June 2021), Summary (Spr 2022), Review (Fall 2022)

Substance	National List	Contact	TR?	Notes*	Scheduled, Discussed, Voted	Target meeting
Herbicides, soap-based	205.601(b)(1)	RG	N	Sunset date: 10.30.24 TR: 1996 TAP ; 2015 TR . 2017/Fall - Rec to Renew	5.18.21 6.1.21 11.16.21	Summary: Spr 2022 Review: Fall 2022

Biodegradable biobased mulch film	205.601(b)(2)(iii)	LP	N	Sunset date: 10.30.24 TR: 2012 TR ; 2015 Report ; NOP 15-1 ; 2016 Supplemental TR . 2017/Fall - Rec to Renew	5.18.21 6.1.21 1.18.22 2.1.22 2.15.22	“ “
Boric acid	205.601(e)(3)	WT	N	Sunset date: 10.30.24 TR: 1995 TAP . 2017/Fall - Rec to Renew	5.18.21 6.1.21 11.16.21	“ “
Sticky traps/barriers	205.601(e)(9)	RG	N	Sunset date: 10.30.24 TR: 1995 TAP . 2017/Fall - Rec to Renew	5.18.21 6.1.21 11.16.21	“ “
Elemental sulfur	205.601(h)(2)	BC	N	Sunset date: 11.22.24 TR: 1995 TAP ; 2018 TR . 2018/Spring - Rec to ADD	5.18.21 6.1.21 1.18.22	“ “
Coppers, fixed	205.601(i)(2)	JD	N	Sunset date: 10.30.24 TR: 1995 TAP ; 2011 TR . 2017/Fall - Rec to Renew CS requested a TR on 12.20.21.	5.18.21 6.1.21 12.7.21 1.4.22	“ “
Copper sulfate	205.601(i)(3)	JD	N	Sunset date: 10.30.24 TR: 1995 TAP ; 2011 TR . 2017/Fall - Rec to Renew CS requested a TR on 12.20.21.	5.18.21 6.1.21 12.7.21 1.4.22	“ “
Polyoxin D zinc salt	205.601(i)(11)	BC	Y Limit d Scope	Sunset date: 11.22.24 TR: 2012 TR ; 2017 Limited Scope TR . 2018/Spring - Rec to ADD CS requested a Limited Scope TR on 6.1.21. TR due to NOP early November. TR sent to CS 11.29.21. TR suff due 01.28.22. TR found sufficient 2.1.22	5.18.21 6.1.21 2.1.22	“ “
Humic acids	205.601(j)(3)	ADB	N	Sunset date: 10.30.24 TR: 1996 TAP ; 2006 TR ; 2012 TR (oxidized lignite/humic acid derivatives) . 2017/Fall - Rec to Renew	5.18.21 6.1.21 1.18.22	“ “
Micronutrients: Soluble boron products	205.601(j)(7)(i)	ADB	Y Limit d Scope	Sunset date: 1.28.24 TR: 2010 TR (Micronutrients) . 2017/Fall - Rec to Renew CS requested a Limited Scope TR on 7.23.21. TR due to NOP 12.22.21. TR sent to CS 1.18.22. Suff due 3.19.22	5.18.21 6.1.21 2.1.22 2.15.22	“ “
Micronutrients: Sulfates, carbonates, oxides, or silicates of zinc, copper, iron, manganese, molybdenum, selenium, and cobalt	205.601(j)(7)(ii)	LP	N	Sunset date: 1.28.24 TR: 2010 TR (Micronutrients) . 2017/Fall - Rec to Renew	5.18.21 6.1.21 12.7.21	“ “

Vitamins C, and E	205.601(j)(9)	WT	N	Sunset date: 10.30.24 TR: 1995 TAP ; 2015 TR . 2017/Fall - Rec to Renew C&E/REMOVE B1	5.18.21 6.1.21 1.18.22	“ “
Squid byproducts	205.601(j)(10)	LP	N	Sunset date: 1.28.24 TR: 2016 TR 2016/Spring - Rec to ADD	5.18.21 6.1.21 1.18.22	“ “
Lead salts	205.602(d)	?	N	Sunset date: 10.30.24 TR: N/A 2017/Fall - Rec to Renew	5.18.21 6.1.21 12.7.21 12.21.21	“ “
Tobacco dust (nicotine sulfite)	205.602(j)	LP	N	Sunset date: 10.30.24 TR: N/A 2017/Fall - Rec to Renew	5.18.21 6.1.21 1.18.22	“ “

Milestones

Spring 2022 Milestones	Target dates (tentative)
NOP - Publish FRN, Open public comment	~Nov 12, 2021
NOSB - Spring 2022 proposals due to NOP	Feb 16, 2022
New NOSB member training	TBD
NOP - Draft Spring 2022 NOSB meeting tentative agenda	Feb 2, 2022
NOP - Post proposals	Mar 3, 2022
Public comment closes	Apr 1, 2022
NOP - Send compiled public comments to NOSB	Apr 4, 2022
Public comment webinars	Apr 19 & 21, 2022
Spring 2022 NOSB meeting - Crystal City, VA	Apr 26 - 28, 2022
Final recommendations due	May 27, 2022

2025 Sunset Review

TR Requests (June 2022), Summary (Spr 2023), Review (Fall 2023)

Substance	National List	Cont act	TR Re quest?	Notes*	Scheduled, Discussed, Voted	Target meeting
Alcohols: Ethanol	205.601(a)(1)(i)			Sunset date: 6/22/2025 TR: 2014 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105		Summary: Spr 2023 Review: Fall 2023

Alcohols: Isopropanol	205.601(a)(1)(ii)			Sunset date: 6/22/2025 TR: 2014 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105		“ “
Sodium carbonate peroxyhydrate	205.601(a)(8)			Sunset date: 6/22/2025 TR: 2014 TR: 2006 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105		“ “
Newspaper or other recycled paper, without glossy or colored inks	205.601(b)(2)(i) and 205.601(c)			Sunset date: 6/22/2025 TR: 2017 TR: 2006 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105		“ “
Plastic mulch and covers	205.601(b)(2)(ii)			Sunset date: 6/22/2025 TR: 2016 Supplement (Biodegradable Mulch Film Made from Bioplastics) TR: 2012 (Biodegradable Mulch Film Made from Bioplastics) TAP: 1995 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105		“ “
Aqueous potassium silicate	205.601(e)(2) and 205.601(i)(1)			Sunset date: 6/22/2025 TR: 2014 TAP: 2003 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105		“ “
Elemental sulfur	205.601(e)(5), 205.601(i)(10) and 205.601(j)(2)			Sunset date: 6/22/2025 TR: 2018 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105		“ “
Lime sulfur	205.601(e)(6) and 205.601(i)(6)			Sunset date: 6/22/2025 TR: 2014 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105		“ “

Hydrated lime	205.601(i)(4)			Sunset date: 6/22/2025 TR: 2015 TAP: 2002 (Calcium Hydroxide) 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105		“ “
Liquid fish products	205.601(j)(8)			Sunset date: 6/22/2025 TR: 2019 (Fish products) TR: 2006 (Fish products) 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105		“ “
Sulfurous acid	205.601(j)(11)			Sunset date: 6/22/2025 TR: 2014 TR: 2010 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105		“ “
Ethylene gas	205.601(k)			Sunset date: 6/22/2025 TR: 2011 Supplemental TR: 2007 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105		“ “
Microcrystalline cheesewax	205.601(o)			Sunset date: 6/22/2025 TR: 2018 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105		“ “
Potassium chloride	205.602(e)			Sunset date: 6/22/2025 TAP: 1995 2018/Fall - Rec to Renew Sunset renewal: 05/07/2020, 85 FR 27105		“ “

Note: Subcommittee notes may include preliminary discussions regarding substances considered for addition to or removal from the National List. They do not represent official National Organic Program (NOP) policy/regulations or NOSB recommendations. Proposals must be voted on by the full Board, to become recommendations to the USDA. Please see the NOP website for official NOP policy, regulations, and status of substances used in organic production and handling.

Crops Subcommittee (CS) Notes
Tuesday, January 18, 2022 2:00 pm ET

Present: Rick Greenwood (RG), Chair; Amy Bruch (ADB), Vice Chair; Asa Bradman (AB); Brian Caldwell (BC); Jerry D'Amore (JD); Steve Ela (SE), Vice Chair Emeritus; Wood Turner (WT); Logan Petrey (LP)

Absent: None

Staff: Michelle Arsenault (MA); Jared Clark (JC)

Agenda

- Review January 4, 2022 notes
- Research Priorities - Finalize list
- 2024 Sunsets:
 - Vitamins C and E (WT) - Discuss review
 - Elemental sulfur (BC) - Discuss review
 - Humic Acids (ADB) - Discuss review
 - Squid byproducts (LP) - Discuss review
 - Tobacco dust (nicotine sulfate) (LP)
 - Biodegradable Biobased Mulch Film (AB) - Discuss review
- Petitions:
 - Carbon Dioxide (LP) - Discuss review/vote
 - Ammonia Extract (Highly soluble fertilizers) (ADB/SE) - Discuss proposal and vote
 - Potassium Hydroxide (RG) - TR sufficiency
 - Potassium Sorbate (ADB) - TR sufficiency
- Additional Items
- Adjourn

Discussion

- **January 4, 2022 notes** were accepted as written.
- **Research Priorities - Finalize list**
- **2024 Sunsets:**
 - **Vitamins C and E (WT).** The lead summarized the current and past reviews, and members discussed the draft document. The review addresses the removal of vitamin B1, which was recommended for removal at the last sunset, and is in rulemaking. The CS Chair will forward the completed review to NOP for posting to the Spring meeting docket.
 - **Elemental sulfur (BC).** The lead summarized the review and highlighted that elemental sulfur is effective and benign compared to alternatives. The Subcommittee added a couple of questions to the review for the Spring posting, and will forward the completed review to the NOP.
 - **Humic Acids (ADB).** The lead summarized the review, including uses, noting that humic acid is relatively benign. She also noted the limited information from the last review and TR regarding International use. The CS Chair will forward the completed review to NOP for posting to the Spring meeting docket.
 - **Squid byproducts (LP).** The lead summarized the review, noting broad acceptance and International use. The CS Chair will forward the completed review to NOP for posting to the Spring meeting docket.
 - **Tobacco dust (nicotine sulfate) (LP).** The lead briefly summarized the history of tobacco dust, which is listed at §205.602 as a prohibited natural. There have been no changes in status or

public sentiment regarding this substance, and the Subcommittee supports its continued prohibition.

- **Biodegradable Biobased Mulch Film (AB).** The lead is drafting a sunset review and the CS will complete it on the next Crops call. The NOSB recommended an annotation change at the Fall 2021 meeting, and the lead will address that in this document, as it overlaps.
- **Carbon Dioxide - petitioned (LP).** The lead gave a brief summary of the proposal and the CS moved to the votes. The group discussed the petitioned use at §205.601(j) As plant or soil amendments, clarifying whether or not it will be used as a soil amendment.

Classification Motion:

Motion to classify carbon dioxide as synthetic

Motion by: Logan Petrey

Seconded by: Rick Greenwood

Yes: 8 No: 0 Abstain: 0 Absent: Recuse: 0

National List Motion:

Motion to add carbon dioxide at §205.601(a) algicide, disinfectants, and sanitizer, including irrigation system cleaning systems

Motion by: Logan Petrey

Seconded by: Rick Greenwood

Yes: 7 No: 0 Abstain: 1 Absent: 0 Recuse: 0

National List Motion:

Motion to add carbon dioxide at §205.601(j) As plant or soil amendments.

Motion by: Logan Petrey

Seconded by: Steve Ela

Yes: 7 No: 1 Abstain: 0 Absent: 0 Recuse: 0

- **Ammonia Extract (Highly soluble fertilizers) (ADB/SE).** The leads summarized the review and previous public comments regarding the motion that was sent back to the Crop Subcommittee at the Fall 2021 meeting. Crops is proposing a motion to add language at §205.105 to cap the total amount of nitrogen. Members provided feedback and discussed potential sections on the NL for listing.

Subcommittee Vote:

Motion to add at §205.105: Nitrogen fertilizers with a C:N ratio of 3:1 or less, including those that individual components of a blended fertilizer formulation, are limited unless use is restricted to a cumulative total use of 20% of crop needs.

Motion by: Amy Bruch

Seconded by: Brian Caldwell

Yes: 7 No: 1 Abstain: 0 Absent: 0 Recuse: 0

- **Potassium Hydroxide (RG).** Crops found the petition sufficient and will not request a new TR.
- **Potassium Sorbate (ADB).** Crops found the petition sufficient and is requesting a TR.
- **Additional Items.** None.
- **The meeting was adjourned**

[Previous CS Notes](#)

Future call schedule (1st and 3rd Tuesdays 2:00 PM ET | 11:00 AM PT, except where noted)

January 4, 2022

2024 Sunsets:

Coppers, fixed (JD) - Discuss review/TR request

Copper sulfate (JD) - Discuss review/TR request

Research Priorities

January 18, 2022 - Last call before Research Priorities are due to MS (01.25.22)

Research Priorities - Finalize list

2024 Sunsets:

Vitamins C and E (WT) - Discuss review

Elemental sulfur (BC) - Discuss review

Humic Acids (ADB) - Discuss review

Squid byproducts (LP) - Discuss review

Tobacco dust (nicotine sulfate) (LP)

Biodegradable Biobased Mulch Film (AB) - Discuss review

Petitions:

Carbon Dioxide (LP) - Discuss review/vote

Ammonia Extract (Highly soluble fertilizers) (ADB/SE) - Discuss proposal and vote

Potassium Hydroxide (RG) - TR sufficiency

Potassium Sorbate (ADB) - TR sufficiency

February 1, 2022

2024 Sunsets:

Polyoxin D zinc salt (BC) - Discuss review

Micronutrients: Soluble boron products (ADB) - Discuss review

Biodegradable Biobased Mulch Film (AB) - Discuss review

February 15, 2022 - Last call before proposal deadline (02.16.22)

March 1, 2022

March 15, 2022

April 5, 2022

April 19, 2022

May 3, 2022

May 17, 2022

June 7, 2022

June 21, 2022

July 5, 2022

July 19, 2022

August 2, 2022

August 16, 2022

September 6, 2022

September 20, 2022

October 4, 2022

October 18, 2022

November 1, 2022

November 15, 2022

December 6, 2022

December 20, 2022

Work Agenda

*Highlight indicates discussion. *Highlight indicates action needed. *Highlight indicates review completion and/or vote.

Petitioned Substances

Substance	Contact	Doc Type	Notes*	Scheduled, Discussed, Voted	Target meeting
Ammonia Extract (Highly soluble fertilizers)	SE/ADB	Proposal	Petition sent to CS 05.26.20. Petition suff/TR request due 7.24.20. Petition found sufficient 06.16.20. CS requested TR 06.19.20. TR due mid-December. Draft TR sent to CS 12.31.20. TR sent back for additional info. Updated TR sent to CS 2.23.21. TR found sufficient 3.2.21. 2021 TR (Handling). Classified as nonsynthetic and two of three motions passed at Fall 2021 meeting.	12.21.21 1.18.22	Spr 2022
Carbon Dioxide	LP	Proposal	2006 TR (Handling) Petition sent to CS 01.15.21. Petition suff/TR request due 03.16.21. CS found the petition sufficient 03.2.21 and will not request a TR for now. Returned to CS for additional work at Fall 2021 NOSB meeting.	1.18.22	Spr 2022
Potassium Hydroxide	RG	Proposal	Petition sent to CS 11.22.21. Petition suff/TR request due 01.21.22. Petition found sufficient. No TR requested.	12.7.21 01.18.22 TBD	Fall 2022
Potassium Sorbate	TBD (ADB)	Proposal	Petition sent to CS 11.22.21. Petition suff/TR request due 01.21.22. . Petition found sufficient. TR requested 1.18.22.	12.7.21 01.18.22 TBD	Fall 2022

Other Projects

Project	Contact	Notes*	Scheduled, Discussed, Voted	Target meeting
Research Priorities	RG/All	Due to MS by 1.25.22	1.4.22 1.18.22	Spr 2022

2024 Sunset Review

TR Requests (June 2021), Summary (Spr 2022), Review (Fall 2022)

Substance	National List	Contact	TR?	Notes*	Scheduled, Discussed, Voted	Target meeting
Herbicides, soap-based	205.601(b)(1)	RG	N	Sunset date: 10.30.24 TR: 1996 TAP ; 2015 TR . 2017/Fall - Rec to Renew	5.18.21 6.1.21 11.16.21	Summary: Spr 2022 Review: Fall 2022

Biodegradable biobased mulch film	205.601(b)(2)(iii)	AB	N	Sunset date: 10.30.24 TR: 2012 TR ; 2015 Report ; NOP 15-1 ; 2016 Supplemental TR . 2017/Fall - Rec to Renew	5.18.21 6.1.21 1.18.22 2.1.22	“ “
Boric acid	205.601(e)(3)	WT	N	Sunset date: 10.30.24 TR: 1995 TAP . 2017/Fall - Rec to Renew	5.18.21 6.1.21 11.16.21	“ “
Sticky traps/barriers	205.601(e)(9)	RG	N	Sunset date: 10.30.24 TR: 1995 TAP . 2017/Fall - Rec to Renew	5.18.21 6.1.21 11.16.21	“ “
Elemental sulfur	205.601(h)(2)	BC	N	Sunset date: 11.22.24 TR: 1995 TAP ; 2018 TR . 2018/Spring - Rec to ADD	5.18.21 6.1.21 1.18.22	“ “
Coppers, fixed	205.601(i)(2)	JD	N	Sunset date: 10.30.24 TR: 1995 TAP ; 2011 TR . 2017/Fall - Rec to Renew CS requested a TR on 12.20.21.	5.18.21 6.1.21 12.7.21 1.4.22	“ “
Copper sulfate	205.601(i)(3)	JD	N	Sunset date: 10.30.24 TR: 1995 TAP ; 2011 TR . 2017/Fall - Rec to Renew CS requested a TR on 12.20.21.	5.18.21 6.1.21 12.7.21 1.4.22	“ “
Polyoxin D zinc salt	205.601(i)(11)	BC	Y Limited Scope	Sunset date: 11.22.24 TR: 2012 TR ; 2017 Limited Scope TR . 2018/Spring - Rec to ADD CS requested a Limited Scope TR on 6.1.21. TR due to NOP early November. TR sent to CS 11.29.21. TR suff due 01.28.22	5.18.21 6.1.21 2.1.22	“ “
Humic acids	205.601(j)(3)	ADB	N	Sunset date: 10.30.24 TR: 1996 TAP ; 2006 TR ; 2012 TR (oxidized lignite/humic acid derivatives) . 2017/Fall - Rec to Renew	5.18.21 6.1.21 1.18.22	“ “
Micronutrients: Soluble boron products	205.601(j)(7)(i)	ADB	Y Limited Scope	Sunset date: 1.28.24 TR: 2010 TR (Micronutrients) . 2017/Fall - Rec to Renew CS requested a Limited Scope TR on 7.23.21. TR due to NOP 12.22.21. TR sent to CS 1.18.22. Suff due 3.19.22	5.18.21 6.1.21 2.1.22	“ “
Micronutrients: Sulfates, carbonates, oxides, or silicates of zinc, copper, iron, manganese,	205.601(j)(7)(ii)	LP	N	Sunset date: 1.28.24 TR: 2010 TR (Micronutrients) . 2017/Fall - Rec to Renew	5.18.21 6.1.21 12.7.21	“ “

molybdenum, selenium, and cobalt						
Vitamins C, and E	205.601(j)(9)	WT	N	Sunset date: 10.30.24 TR: 1995 TAP ; 2015 TR . 2017/Fall - Rec to Renew C&E/REMOVE B1	5.18.21 6.1.21 1.18.22	“ “
Squid byproducts	205.601(j)(10)	LP	N	Sunset date: 1.28.24 TR: 2016 TR 2016/Spring - Rec to ADD	5.18.21 6.1.21 1.18.22	“ “
Lead salts	205.602(d)	AB	N	Sunset date: 10.30.24 TR: N/A 2017/Fall - Rec to Renew	5.18.21 6.1.21 12.7.21 12.21.21	“ “
Tobacco dust (nicotine sulfate)	205.602(j)	LP	N	Sunset date: 10.30.24 TR: N/A 2017/Fall - Rec to Renew	5.18.21 6.1.21 1.18.22	“ “

Milestones

Spring 2022 Milestones	Target dates (tentative)
NOP - Publish FRN, Open public comment	~Nov 12, 2021
NOSB - Spring 2022 proposals due to NOP	Feb 16, 2022
New NOSB member training	TBD
NOP - Draft Spring 2022 NOSB meeting tentative agenda	Feb 2, 2022
NOP - Post proposals	Mar 3, 2022
Public comment closes	Apr 1, 2022
NOP - Send compiled public comments to NOSB	Apr 4, 2022
Public comment webinars	Apr 19 & 21, 2022
Spring 2022 NOSB meeting - Crystal City, VA	Apr 26 - 28, 2022
Final recommendations due	May 27, 2022

Note: Subcommittee notes may include preliminary discussions regarding substances considered for addition to or removal from the National List. They do not represent official National Organic Program (NOP) policy/regulations or NOSB recommendations. Proposals must be voted on by the full Board, to become recommendations to the USDA. Please see the NOP website for official NOP policy, regulations, and status of substances used in organic production and handling.

Crops Subcommittee (CS) Notes **Tuesday, January 04, 2022 2:00 pm ET**

Present: Rick Greenwood (RG), Chair; Amy Bruch (ADB), Vice Chair; Asa Bradman (AB); Brian Caldwell (BC); Jerry D'Amore (JD); Steve Ela (SE), Vice Chair Emeritus; Wood Turner (WT)

Absent: Logan Petrey (LP)

Staff: Michelle Arsenault (MA); Jared Clark (JC)

Agenda

- Review December 21, 2021 notes
- 2024 Sunsets
 - Vitamins C and E (WT) - Discuss review
 - Coppers, fixed (JD) - Discuss review
 - Copper sulfate (JD) - Discuss review
 - Biodegradable Biobased Mulch Film (AB) - Discuss review
- Research Priorities
- Additional Items
- Adjourn

Discussion

- **December 21, 2021 notes** were accepted as written.
- **2024 Sunsets**
 - **Vitamins C and E (WT)** - Deferred to January 18 call.
 - **Coppers, fixed (JD), Copper sulfate (JD)**. The Crops Subcommittee discussed the TR request for coppers, which was sent to the NOP on December 20, 2021. The lead will complete the draft review for the Spring meeting and the TR should be back in time to include the additional information in the Fall 2022 review.
 - **Biodegradable Biobased Mulch Film (AB)**. Deferred to the January 18 call
- **Research Priorities**. Members discussed the previous version of the Crops Research Priorities and specifically coppers. The lead for the coppers review will coordinate with the Materials Chair to revise the language for the research priority and the CS will discuss it on the next Crops Subcommittee call.
- **Additional Items**. None.
- **The meeting was adjourned**

[Previous CS Notes](#)

Future call schedule (1st and 3rd Tuesdays 2:00 PM ET | 11:00 AM PT, except where noted)

December 21, 2021

2024 Sunsets: Lead salts (AB) - Discuss review

Petitions: Ammonia Extract (Highly soluble fertilizers) (ADB/SE) - Discuss proposal

January 4, 2022

2024 Sunsets:

Coppers, fixed (JD) - Discuss review/TR request

Copper sulfate (JD) - Discuss review/TR request

Research Priorities

January 18, 2022 - Last call before Research Priorities are due to MS (01.25.22)

Research Priorities - Finalize list

2024 Sunsets:

- Vitamins C and E (WT) - Discuss review
- Elemental sulfur (BC) - Discuss review
- Humic Acids (ADB) - Discuss review
- Squid byproducts (LP) - Discuss review
- Tobacco dust (nicotine sulfate) (LP)
- Biodegradable Biobased Mulch Film (AB) - Discuss review

Petitions:

- Carbon Dioxide (LP) - Discuss review/vote
- Ammonia Extract (Highly soluble fertilizers) (ADB/SE) - Discuss proposal and vote
- Potassium Hydroxide (RG) - TR sufficiency
- Potassium Sorbate (ADB) - TR sufficiency

February 1, 2022

2024 Sunsets:

- Polyoxin D zinc salt (BC) - Discuss review
- Micronutrients: Soluble boron products (ADB) - Discuss review

February 15, 2022 - Last call before proposal deadline (02.16.22)

March 1, 2022

March 15, 2022

April 5, 2022

April 19, 2022

May 3, 2022

May 17, 2022

June 7, 2022

June 21, 2022

July 5, 2022

July 19, 2022

August 2, 2022

August 16, 2022

September 6, 2022

September 20, 2022

October 4, 2022

October 18, 2022

November 1, 2022

November 15, 2022

December 6, 2022

December 20, 2022

Work Agenda

*Highlight indicates discussion. *Highlight indicates action needed. *Highlight indicates review completion and/or vote.

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