

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 15, 2020 2:00 pm ET**

Present: Rick Greenwood (RG), Chair; Steve Ela (SE), Vice Chair; Asa Bradman (AB); Jesse Buie (JB); Jerry D'Amore (JD); Emily Oakley (EO); Wood Turner (WT); Brian Caldwell (BC) - observer; Logan Petrey (LP) - observer; Amy Bruch (ADB) - observer

Absent: None

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

Agenda

- Review December 1 notes
- Biochar (WT/EO) - TR sufficiency
- 2023 Sunset: EPA List 3 - Inerts of unknown toxicity (AB/SE) - Discuss review
- 2023 Sunset: Magnesium oxide (JB) - Discuss review
- Hydronium (EO/RG) - TR request due 12.15.20
- Additional Items
- Adjourn

Discussion

- **December 1 notes** were accepted as written.
- **Biochar (WT/EO).** The leads discussed the petition and technical report for biochar, noting that the TR doesn't necessarily specify biochar made from manure. The petitioner is seeking an amendment to the listing for ash from manure burning which is a prohibited nonsynthetic. The Subcommittee did not find the TR sufficient and will send it back to the author for revisions.
- **2023 Sunset: EPA List 3 - Inerts of unknown toxicity (AB/SE).** The leads summarized the substances/listing, noting that List 3 inerts are used in pheromones, and although the list is no longer maintained by the EPA, it is not as concerning as the List 4 inerts. A member added that the amount of pheromones is minute, and isolated to the dispenser, and given the scale of use, the impacts are minimal. The lead will seek feedback about the carriers, and modify the draft document for discussion on the next call.
- **2023 Sunset: Magnesium oxide (JB).** The lead summarized the substance, and noted the questions that a previous Board included in its review for a future Board to address when it added magnesium oxide to the National List. The questions address the need for liquid humates, and the possibility of using non-synthetic acids in place of sulfuric acid. The Crops Subcommittee added the questions to its review for public comment. AB asked to add more specific info under uses to clarify. The lead will make some modifications to the draft document based on feedback from other members and will recirculate the document.
- **Hydronium (EO/RG).** The CS submitted a request for a TR with some additional, targeted questions.
- **Additional Items.** None.
- **The meeting was adjourned.**

[Previous CS Notes](#)

Future call schedule (1st and 3rd Tuesdays 2:00 ET, except where noted)

December 1, 2020

Hydronium (EO) - Petition sufficiency

2023 Sunset: Calcium chloride (EO) - Discuss review

2023 Sunset: Rotenone (RG) - Discuss review

December 15, 2020

Biochar (EO/WT) - TR suff due 12.21.20

2023 Sunset: EPA List 3 - Inerts of unknown toxicity (AB/SE) - Discuss review

2023 Sunset: Magnesium oxide (JB) - Discuss review

Research Priorities - assign lead

Hydronium (EO/RG) - TR request due 12.15.20

January 5, 2021

2023 Sunset: EPA List 3 - Inerts of unknown toxicity (AB/SE) - Discuss review

2023 Sunset: Copper sulfate 205.601(a)(3) & 205.601(e)(4) (JD) - Discuss review

2023 Sunset: Peracetic acid 205.601(a)(6) 7 205.601(i)(8) (WT) - Discuss review

Research Priorities - Discuss draft

Kasugamycin (SE) - Discuss next steps

Biodegradable Biobased mulch annotation change (AB) - Discuss

January 19, 2021

Paper pots (SE) - Discuss next steps

Biochar (EO/WT) - Discuss draft discussion doc

2023 Sunset: Ozone gas (RG) - Discuss review

February 2, 2021

Chitosan - plant disease control (RG) - Discuss draft proposal

Chitosan - coagulant for fertilizer (RG) - Discuss draft proposal

Ammonia Extract (SE) - Discuss draft proposal

2023 Sunset: Chlorine materials (WT) - Discuss review

February 16, 2021

March 2, 2021

March 16, 2021

April 6, 2021

April 20, 2021

May 4, 2021

May 18, 2021

June 1, 2021

June 15, 2021

July 6, 2021

July 20, 2021

August 3, 2021

August 17, 2021

September 7, 2021

September 21, 2021

October 5, 2021

October 19, 2021

November 2, 2021

November 16, 2021

December 7, 2021

December 21, 2021

Work Agenda

Petitioned Substances

Substance	Contact	Doc Type	Notes	Scheduled, Discussed, Voted	Target meeting
Paper pots	SE	Proposal	Petition sent to CS 8.14.18. Petition suff/TR request due 10.13.18. Petition found sufficient 9.4.18. CS requested Lmt'd scope TR 3.5.19. TR due early August. TR sent to CS 7.26.19. TR sufficiency due 9.24.19. TR found suff 8.6.19. 2017 TR Newspaper	1.19.21	Spr 2021
Chitosan - plant disease control	RG	Proposal	Petition sent to CS 12.6.19. Petition suff/TR request due 2.4.20. Petition found sufficient/CS requested a TR 2.4.20. TR due back to CS mid-July. TR sent to CS 7.13.20. TR sufficiency due 9.11.20. TR found sufficient 08.18.20.	08.04.20 08.18.20 10.6.20 11.17.20 2.2.21	Spr 2021
Chitosan - coagulant for fertilizer	RG	Proposal	Petition sent to CS 07.31.20. Petition sufficiency due 09.29.20. CS sent additional questions back to petitioner.	08.18.20 2.2.21	Spr 2021
Biochar	WT/EO	Petition discussion doc	Petition sent to CS 12.19.19. Petition suff/TR request due 2.17.20. Petition found sufficient 2.4.20. CS requested TR 3.18.20. TR due back in Sep/Oct. TR sent to CS 10.21.20. TR suff due 12.21.20	03.17.20 12.15.21 1.19.21	Spr 2021
Ammonia Extract	SE	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.	2.2.21	Spr 2021
Kasugamycin	RG	Proposal	Petition sent to CS 05.27.20. Petition found sufficient 07.07.20 and the CS requested a TR. TR due mid-December	07.07.20 1.5.21	Spr 2021
Hydronium	EO/RG	Petition discussion doc	Petition sent to CS 10.6.20. Petition suff/TR request due 12.15.20. Petition found sufficient 12.1.20. CS requested TR 12.15.20.	11.17.20 12.1.20 12.15.20	Spr 2021

Other Topics

Project	Contact	Doc Type	Notes*	Scheduled, Discussed, Voted	Target meeting
Biodegradable Biobased mulch annotation change	AB	Proposal	Limited scope TR request sent to NOP 8.2.16. TR sent to CS on 12.28.16. TR Suff due 2.27.17. CS found TR suff 1.3.17. On hold pending further research. NOP sent response to CS about adding this to work agenda. Waiting for details from NOP based on the report from the cooperative agreement with Michigan State University. Report sent to NOSB 10.17.19	1.5.21	Spr 2021
Research Priorities	All	N/A	Due to MS 01.19.21	1.5.21	Spr 2021

*Yellow highlight indicates Subcommittee action needed. *Highlight indicates review completion

2023 Sunset Review: TR Requests (July 2020), Summary (Spr 2021), Review (Fall 2021)

Substance	National List	Contact	TR Request?	Notes*	Scheduled, Discussed, Voted	Target meeting
Copper sulfate	205.601(a)(3)	JD	N	Sunset date: 5.29.23 2011 TR 2016/Fall - Rec to Renew	1.5.21	Summary: Spr 2021 Review: Fall 2021
Copper sulfate	205.601(e)(4)	JD	N	Sunset date: 5.29.23 2011 TR 2016/Fall - Rec to Renew	1.5.21	"
Ozone gas	205.601(a)(5)	RG	Y	Sunset date: 5.29.23 2002 TR 2016/Fall - Rec to Renew CS requested TR 6.2.20.	1.19.21	"
Peracetic acid	205.601(a)(6)	WT	N	Sunset date: 5.29.23 2016 TR 2016/Fall - Rec to Renew	1.5.21	"
Peracetic acid	205.601(i)(8)	WT	N	Sunset date: 5.29.23 2016 TR 2016/Fall - Rec to Renew	1.5.21	"
EPA List 3 - Inerts of unknown toxicity	205.601(m)(2)	AB/SE	N	Sunset date: 5.29.23 TR - None 2016/Fall - Rec to Renew	12.15.20 01.05.21	"

Chlorine materials (i) Calcium hypochlorite. (ii) Chlorine dioxide. (iii) Hypochlorous acid - generated from electrolyzed water. (iv) Sodium hypochlorite	205.601(a)(2)	WT	N	Sunset date: 10.30.24 & 1.28.24 (Hypochlorous acid) 2006 TR 2011 TR 2016 TR Hypochlorous acid (Crops, Livestock, Handling) 2017 TR Limited scope (Livestock) 2016/Spring - Rec to ADD Hypochlorous Acid	2.2.21	“
Magnesium oxide (CAS # 1309-48-4)	205.601(j)(5)	JB	Y	Sunset date: 1.28.24 TR - None 2014/Spring - Rec to ADD CS requested TR 6.2.20. TR due in Feb.	12.15.20	“
Calcium chloride	205.602	EO	Y	Sunset date: 5.29.23 2001 TR 2016/Fall - Rec to Renew CS requested TR 6.2.20.TR due to CS XXXX	12.1.20	“
Rotenone (CAS # 83-79-4).	205.602(f)	RG	N	Sunset date: 1.28.24 TR - None 2012/Fall - Rec to ADD	12.1.20	“

Spring 2021 Milestones	Target dates (tentative)
NOP - Publish FRN, Open public comment	~Nov 15, 2020
NOSB - Spring 2021 proposals due to NOP	Feb 18, 2021
New NOSB member training	TBD
NOP - Draft Spring 2021 NOSB meeting tentative agenda	Feb 2, 2021
NOP - Post proposals	Mar 3, 2021
Public comment closes	Apr 1, 2021
NOP - Send compiled public comments to NOSB	Apr 6, 2021
Public comment webinars	Apr 20 & 22, 2021
Spring 2021 NOSB meeting - Crystal City, VA	Apr 28 - 30, 2021

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 1, 2020 2:00 pm ET

Present: Rick Greenwood (RG), Chair; Steve Ela (SE), Vice Chair; Asa Bradman (AB); Jesse Buie (JB); Jerry D'Amore (JD); Emily Oakley (EO); Wood Turner (WT); Brian Caldwell (BC) - observer; Logan Petrey (LP) - observer; Amy Bruch (ADB) - observer

Absent: None

Staff: Michelle Arsenault (MA); Jared Clark (JC); Andrea Holm (AH)

Agenda

- New NOSB members
- Review November 17 notes
- Hydronium (EO) - Petition sufficiency
- 2023 Sunset: Calcium chloride (EO) - Discuss review
- 2023 Sunset: Rotenone (RG) - Discuss review
- Additional Items
- Adjourn

Discussion

- **November 17 notes** were accepted as written.
- **Hydronium (EO/RG).** The lead summarized the process of petition review for the benefit of the new members and then summarized the petitioned use of the hydronium. The group found the petition sufficient and will likely request a technical report (TR). The lead will draft TR questions and solicited questions from other Subcommittee members for review on the next call. RG will send the NOP an email confirming that the CS found the hydronium petition sufficient.
- **2023 Sunset: Calcium chloride (EO).** The lead reviewed the previous work on calcium chloride to develop the current review. Members discussed the draft review and the lead will complete the document for the Spring meeting.
- **2023 Sunset: Rotenone (RG).** The lead summarized rotenone noting that it is a non-synthetic prohibited for use in organic agriculture in the US, but may be used in other countries. A member noted that while it is prohibited in the US, it is being used in CA to control invasive species.
- **Additional Items.** None
- **The meeting was adjourned.**

[Previous CS Notes](#)

Future call schedule (1st and 3rd Tuesdays 2:00 ET, except where noted)

November 17, 2020

Chitosan - plant disease control. Review refs in proposal

Assign lead for hydronium petition

December 1, 2020

Hydronium (EO) - Petition sufficiency

2023 Sunset: Calcium chloride (EO) - Discuss review

2023 Sunset: Rotenone (RG) - Discuss review

December 15, 2020

Biochar (EO/WT) - TR suff due 12.21.20

2023 Sunset: EPA List 3 - Inerts of unknown toxicity (AB/SE) - Discuss review

2023 Sunset: Magnesium oxide (JB) - Discuss review

January 5, 2021

Kasugamycin (SE) - Discuss next steps

Biodegradable Biobased mulch annotation change (AB) - Discuss

Research Priorities - Discuss draft

2023 Sunset: Copper sulfate 205.601(a)(3) & 205.601(e)(4) (JD) - Discuss review

2023 Sunset: Peracetic acid 205.601(a)(6) 7 205.601(i)(8) (WT) - Discuss review

January 19, 2021

Paper pots (SE) - Discuss next steps

2023 Sunset: Ozone gas (RG) - Discuss review

February 2, 2021

Chitosan - plant disease control (RG) - Discuss draft proposal

Chitosan - coagulant for fertilizer (RG) - Discuss draft proposal

Ammonia Extract (SE) - Discuss draft proposal

2023 Sunset: Chlorine materials (WT) - Discuss review

February 16, 2021

March 2, 2021

March 16, 2021

April 6, 2021

Work Agenda

Petitioned Substances

Substance	Contact	Doc Type	Notes	Scheduled, Discussed, Voted	Target meeting
Paper pots	SE	Proposal	Petition sent to CS 8.14.18. Petition suff/TR request due 10.13.18. Petition found sufficient 9.4.18. CS requested Lmt'd scope TR 3.5.19. TR due early August. TR sent to CS 7.26.19. TR sufficiency due 9.24.19. TR found suff 8.6.19. 2017 TR Newspaper	1.19.21	Spr 2021
Chitosan - plant disease control	RG	Proposal	Petition sent to CS 12.6.19. Petition suff/TR request due 2.4.20. Petition found sufficient/CS requested a TR 2.4.20. TR due back to CS mid-July. TR sent to CS 7.13.20. TR sufficiency due 9.11.20. TR found sufficient 08.18.20.	08.04.20 08.18.20 10.6.20 11.17.20 2.2.21	Spr 2021
Chitosan - coagulant for fertilizer	RG	Proposal	Petition sent to CS 07.31.20. Petition sufficiency due 09.29.20. CS sent additional questions back to petitioner.	08.18.20 2.2.21	Spr 2021
Biochar	EO/WT	Petition discussion doc	Petition sent to CS 12.19.19. Petition suff/TR request due 2.17.20. Petition found sufficient 2.4.20. CS requested TR 3.18.20. TR due back in Sep/Oct. TR sent to CS 10.21.20. TR suff due 12.21.20	03.17.20 12.15.21	Spr 2021

Ammonia Extract	SE	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.	2.2.21	Spr 2021
Kasugamycin	RG	Proposal	Petition sent to CS 05.27.20. Petition found sufficient 07.07.20 and the CS requested a TR. TR due mid-December	07.07.20 1.5.21	Spr 2021
Hydronium	EO/RG	Petition discussion doc	Petition sent to CS 10.6.20. Petition suff/ TR request due 12.15.20. Petition found sufficient 12.1.20.	11.17.20 12.1.20 12.15.20	TBD

Other Topics

Project	Contact	Doc Type	Notes*	Scheduled, Discussed, Voted	Target meeting
Biodegradable Biobased mulch annotation change	AB	Proposal	Limited scope TR request sent to NOP 8.2.16. TR sent to CS on 12.28.16. TR Suff due 2.27.17. CS found TR suff 1.3.17. On hold pending further research. NOP sent response to CS about adding this to work agenda. Waiting for details from NOP based on the report from the cooperative agreement with Michigan State University. Report sent to NOSB 10.17.19	1.5.21	Spr 2021
Research Priorities	DM/All	N/A	Due to MS 01.19.21	1.5.21	Spr 2021

*Yellow highlight indicates Subcommittee action needed. *Highlight indicates review completion

2023 Sunset Review: TR Requests (July 2020), Summary (Spr 2021), Review (Fall 2021)

Substance	National List	Contact	TR Request?	Notes*	Scheduled, Discussed, Voted	Target meeting
Copper sulfate	205.601(a)(3)	JD	N	Sunset date: 5.29.23 2011 TR 2016/Fall - Rec to Renew	1.5.21	Summary: Spr 2021 Review: Fall 2021
Copper sulfate	205.601(e)(4)	JD	N	Sunset date: 5.29.23 2011 TR 2016/Fall - Rec to Renew	1.5.21	"
Ozone gas	205.601(a)(5)	RG	Y	Sunset date: 5.29.23 2002 TR 2016/Fall - Rec to Renew CS requested TR 6.2.20.	1.19.21	"
Peracetic acid	205.601(a)(6)	WT	N	Sunset date: 5.29.23 2016 TR 2016/Fall - Rec to Renew	1.5.21	"

Peracetic acid	205.601(i)(8)	WT	N	Sunset date: 5.29.23 2016 TR 2016/Fall - Rec to Renew	1.5.21	“
EPA List 3 - Inerts of unknown toxicity	205.601(m)(2)	AB/SE	N	Sunset date: 5.29.23 TR - None 2016/Fall - Rec to Renew	12.15.20	“
Chlorine materials (i) Calcium hypochlorite. (ii) Chlorine dioxide. (iii) Hypochlorous acid - generated from electrolyzed water. (iv) Sodium hypochlorite	205.601(a)(2)	WT	N	Sunset date: 10.30.24 & 1.28.24 (Hypochlorous acid) 2006 TR 2011 TR 2016 TR Hypochlorous acid (Crops, Livestock, Handling) 2017 TR Limited scope (Livestock) 2016/Spring - Rec to ADD Hypochlorous Acid	2.2.21	“
Magnesium oxide (CAS # 1309-48-4)	205.601(j)(5)	JB	Y	Sunset date: 1.28.24 TR - None 2014/Spring - Rec to ADD CS requested TR 6.2.20.	12.15.20	“
Calcium chloride	205.602	EO	Y	Sunset date: 5.29.23 2001 TR 2016/Fall - Rec to Renew CS requested TR 6.2.20.TR due to CS XXXX	12.1.20	“
Rotenone (CAS # 83-79-4).	205.602(f)	RG	N	Sunset date: 1.28.24 TR - None 2012/Fall - Rec to ADD	12.1.20	“

Spring 2021 Milestones	Target dates (tentative)
NOP - Publish FRN, Open public comment	~Nov 15, 2020
NOSB - Spring 2021 proposals due to NOP	Feb 18, 2021
New NOSB member training	TBD
NOP - Draft Spring 2021 NOSB meeting tentative agenda	Feb 2, 2021
NOP - Post proposals	Mar 3, 2021
Public comment closes	Apr 1, 2021
NOP - Send compiled public comments to NOSB	Apr 6, 2021
Public comment webinars	Apr 20 & 22, 2021
Spring 2021 NOSB meeting - Crystal City, VA	Apr 28 - 30, 2021

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 17, 2020 2:00 pm ET**

Present: Jesse Buie (JB), Chair; Rick Greenwood (RG), Vice Chair; Wood Turner (WT); Steve Ela (SE); Jerry D'Amore (JD); Emily Oakley (EO)

Absent: Asa Bradman (AB)

Staff: Michelle Arsenault (MA); Jared Clark (JC); Andrea Holm (AH)

Agenda

- Review October 6 notes
- Chitosan - plant disease control. Review refs in proposal
- Assign lead for hydronium petition
- Additional Items
- Adjourn

Discussion

- **October 6 notes** were accepted as written.
- **Chitosan - plant disease control.** The lead summarized the petition and uses, noting that it is listed as an inert. It appears chitosan has a broad range of uses, and in addition to this petition, it is also being petitioned for use as a coagulant for fertilizer. A member suggested putting forth a discussion document for the Spring meeting to solicit additional comments and information. The CS and LS, who is also reviewing a petition for chitosan, will coordinate on all three chitosan reviews.
- **Hydronium petition.** EO volunteered to complete the petition sufficiency. The CS Chair gave a brief summary of the petition, noting that hydronium is used as a processing aid for dehydrated manures, and is a premium cannabis optimizer.
- **Additional Items.**
 - The CS scheduled discussion dates work agenda items (see tables below).
 - Rick Greenwood will be Chair of Crops when Jesse Buie rotates off the NOSB.
- **The meeting was adjourned.**

[Previous CS Notes](#)

Future call schedule (1st and 3rd Tuesdays 2:00 ET, except where noted)

November 3, 2020 - cancelled

November 17, 2020

Chitosan - plant disease control. Review refs in proposal
Assign lead for hydronium petition

December 1, 2020

Hydronium (EO) - Petition sufficiency
2023 Sunset: Calcium chloride (EO) - Discuss review
2023 Sunset: Rotenone (RG) - Discuss review

December 15, 2020

Biochar (EO/WT) - TR suff due 12.21.20
2023 Sunset: EPA List 3 - Inerts of unknown toxicity (AB/SE) - Discuss review
2023 Sunset: Magnesium oxide (JB) - Discuss review

January 5, 2021

Kasugamycin (SE) - Discuss next steps

Biodegradable Biobased mulch annotation change (AB) - Discuss
 Research Priorities - Discuss draft
 2023 Sunset: Copper sulfate 205.601(a)(3) & 205.601(e)(4) (JD) - Discuss review
 2023 Sunset: Peracetic acid 205.601(a)(6) 7 205.601(i)(8) (WT) - Discuss review

January 19, 2021

Paper pots (SE) - Discuss next steps
 2023 Sunset: Ozone gas (RG) - Discuss review

February 2, 2021

Chitosan - plant disease control (RG) - Discuss draft proposal
 Chitosan - coagulant for fertilizer (RG) - Discuss draft proposal
 Ammonia Extract (SE) - Discuss draft proposal
 2023 Sunset: Chlorine materials (WT) - Discuss review

February 16, 2021

March 2, 2021

March 16, 2021

April 6, 2021

Work Agenda

Petitioned Substances

Substance	Contact	Doc Type	Notes	Scheduled, Discussed, Voted	Target meeting
Paper pots	SE	Proposal	Petition sent to CS 8.14.18. Petition suff/TR request due 10.13.18. Petition found sufficient 9.4.18. CS requested Lmt'd scope TR 3.5.19. TR due early August. TR sent to CS 7.26.19. TR sufficiency due 9.24.19. TR found suff 8.6.19. 2017 TR Newspaper	1.19.21	Spr 2021
Chitosan - plant disease control	RG	Proposal	Petition sent to CS 12.6.19. Petition suff/TR request due 2.4.20. Petition found sufficient/CS requested a TR 2.4.20. TR due back to CS mid-July. TR sent to CS 7.13.20. TR sufficiency due 9.11.20. TR found sufficient 08.18.20.	08.04.20 08.18.20 10.6.20 11.17.20 2.2.21	Spr 2021
Chitosan - coagulant for fertilizer	RG	Proposal	Petition sent to CS 07.31.20. Petition sufficiency due 09.29.20. CS sent additional questions back to petitioner.	08.18.20 2.2.21	Spr 2021
Biochar	EO/WT	Petition discussion doc	Petition sent to CS 12.19.19. Petition suff/TR request due 2.17.20. Petition found sufficient 2.4.20. CS requested TR 3.18.20. TR due back in Sep/Oct. TR sent to CS 10.21.20. TR suff due 12.21.20	03.17.20 12.15.21	Spr 2021

Ammonia Extract	SE	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.	2.2.21	Spr 2021
Kasugamycin	SE	Proposal	Petition sent to CS 05.27.20. Petition found sufficient 07.07.20 and the CS requested a TR. TR due mid-December	07.07.20 1.5.21	Spr 2021
Hydronium	EO	Petition discussion doc	Petition sent to CS 10.6.20. Petition suff/TR request due 12.7.20.	11.17.20 12.1.20	TBD

Other Topics

Project	Contact	Doc Type	Notes*	Scheduled, Discussed, Voted	Target meeting
Biodegradable Biobased mulch annotation change	AB	Proposal	Limited scope TR request sent to NOP 8.2.16. TR sent to CS on 12.28.16. TR Suff due 2.27.17. CS found TR suff 1.3.17. On hold pending further research. NOP sent response to CS about adding this to work agenda. Waiting for details from NOP based on the report from the cooperative agreement with Michigan State University. Report sent to NOSB 10.17.19	1.5.21	Spr 2021
Research Priorities	DM/All	N/A	Due to MS 01.19.21	1.5.21	Spr 2021

*Yellow highlight indicates Subcommittee action needed. *Highlight indicates review completion

2023 Sunset Review: TR Requests (July 2020), Summary (Spr 2021), Review (Fall 2021)

Substance	National List	Contact	TR Request?	Notes*	Scheduled, Discussed, Voted	Target meeting
Copper sulfate	205.601(a)(3)	JD	N	Sunset date: 5/29/2023 2011 TR 2016/Fall - Rec to Renew	1.5.21	Summary: Spr 2021 Review: Fall 2021
Copper sulfate	205.601(e)(4)	JD	N	Sunset date: 5/29/2023 2011 TR 2016/Fall - Rec to Renew	1.5.21	"
Ozone gas	205.601(a)(5)	RG	Y	Sunset date: 5/29/2023 2002 TR 2016/Fall - Rec to Renew CS requested TR 6.2.20.	1.19.21	"

Peracetic acid	205.601(a)(6)	WT	N	Sunset date: 5/29/2023 2016 TR 2016/Fall - Rec to Renew	1.5.21	“
Peracetic acid	205.601(i)(8)	WT	N	Sunset date: 5/29/2023 2016 TR 2016/Fall - Rec to Renew	1.5.21	“
EPA List 3 - Inerts of unknown toxicity	205.601(m)(2)	AB/SE	N	Sunset date: 5/29/2023 TR - None 2016/Fall - Rec to Renew	12.15.20	“
Calcium chloride	205.601	EO	Y	Sunset date: 5/29/2023 2001 TR 2016/Fall - Rec to Renew CS requested TR 6.2.20.	12.1.20	“
Chlorine materials (i) Calcium hypochlorite. (ii) Chlorine dioxide. (iii) Hypochlorous acid - generated from electrolyzed water. (iv) Sodium hypochlorite	205.601(a)(2)	WT	N	Sunset date: 1/28/2024 2006 TR 2011 TR 2016 TR Hypochlorous acid (Crops, Livestock, Handling) 2017 TR Limited scope (Livestock) 2016/Spring - Rec to ADD Hypochlorous Acid	2.2.21	“
Magnesium oxide (CAS # 1309-48-4)	205.601(j)(5)	JB	Y	Sunset date: 1/28/2024 TR - None 2014/Spring - Rec to ADD CS requested TR 6.2.20.	12.15.20	“
Rotenone (CAS # 83-79-4).	205.602(f) 205.601(a)(3)	RG	N	Sunset date: 1/28/2024 TR - None 2012/Fall - Rec to ADD	12.1.20	“

Spring 2021 Milestones	Target dates (tentative)
NOP - Publish FRN, Open public comment	~Nov 15, 2020
NOSB - Spring 2021 proposals due to NOP	Feb 18, 2021
New NOSB member training	TBD
NOP - Draft Spring 2021 NOSB meeting tentative agenda	Feb 2, 2021
NOP - Post proposals	Mar 3, 2021
Public comment closes	Apr 1, 2021
NOP - Send compiled public comments to NOSB	Apr 6, 2021
Public comment webinars	Apr 20 & 22, 2021
Spring 2021 NOSB meeting - Crystal City, VA	Apr 28 - 30, 2021

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, October 6, 2020 2:00 pm ET

Present: Jesse Buie (JB), Chair; Wood Turner (WT); Steve Ela (SE); Jerry D'Amore (JD); Rick Greenwood (RG), Vice Chair; Dave Mortensen (DM); Emily Oakley (EO)

Absent: Asa Bradman (AB)

Staff: Michelle Arsenault (MA); Jared Clark (JC); Devon Pattillo (DP)

Agenda

- Chitosan - plant disease control (RG) - discuss proposal
- Discuss public comments/review roles for Fall meeting
- Additional Items
- Adjourn

Discussion

- **Chitosan - plant disease control (RG) - discuss proposal.** The lead summarized the draft proposal and the group discussed several aspects of the petitioned uses, including non-synthetic alternatives that are already on the National List. A member noted that the manufacturing process is not disclosed. Members also discussed developing a discussion document instead of a proposal for the Spring meeting. Members will review the reference documents and discuss this further on the next call. The SC may also have follow-up questions of the petitioner after reviewing the papers.
- **Discuss public comments/review roles for Fall meeting.** Members discussed comments on the sunset review of List 4 Inerts, and the path forward. The NOSB, with support from NOP, EPA, and the organic community is seeking a solution to the obsolete listing of EPA List 4 Inerts, since the EPA no longer maintains the list. If the Board were to vote to delist it, it is likely there would be a very long implementation period while seeking a replacement or solution.
- **Additional Items.**
 - The Crops Subcommittee also briefly discussed the Materials Subcommittee proposal on Marine Materials, noting that there was a mixed reaction from the community, despite the initial overwhelming support.
 - The CS will reassign some of the 2023 sunset reviews to new members
 - NOP CS is awaiting a response from the petitioner on the petition for chitosan as a flocculant.
 - The NOP sent a new petition to the CS for hydronium.
- **The meeting was adjourned.**

[Previous CS Notes](#)

Future call schedule (1st and 3rd Tuesdays 2:00 ET, except where noted)

September 1, 2020 - cancelled

September 15, 2020

Chitosan - plant disease control (RG) - discuss proposal

October 6, 2020

October 20, 2020

November 3, 2020

Chitosan - plant disease control. Review refs in proposal

Assign lead for Hydronium petition

November 17, 2020

December 1, 2020
December 15, 2020

Work Agenda

Petitioned Substances

Substance	Contact	Doc Type	Notes	Scheduled, Discussed, Voted	Target meeting
Paper pots	SE	Proposal	Petition sent to CS 8.14.18. Petition suff/TR request due 10.13.18. Petition found sufficient 9.4.18. CS requested Lmt'd scope TR 3.5.19. TR due early August. TR sent to CS 7.26.19. TR sufficiency due 9.24.19. TR found suff 8.6.19. 2017 TR Newspaper	07.28.20	Fall 2020
Sodium carbonate lignin	RG	Proposal	Petition sent to CS 7.29.19. Petition suff/TR request due 9.27.19. Petition was found sufficient 9.17.19. Limited Scope TR requested 9.17.19/10.1.19. Revised request sent to NOP 11.5.19. Lignin sulfonate TR (2011) . TR sent to CS 04.10.20. Suff due 06.09.20. TR found sufficient 05.19.20.	05.19.20 08.04.20	Fall 2020
Chitosan - plant disease control	RG	Proposal	Petition sent to CS 12.6.19. Petition suff/TR request due 2.4.20. Petition found sufficient/CS requested a TR 2.4.20. TR due back to CS mid-July. TR sent to CS 7.13.20. TR sufficiency due 9.11.20. TR found sufficient 08.18.20.	08.04.20 08.18.20 10.6.20 11.3.20	Spr 2021
Chitosan - coagulant for fertilizer	RG	Proposal	Petition sent to CS 07.31.20. Petition sufficiency due 09.29.20. CS sent additional questions back to petitioner.	08.18.20	Spr 2021
Biochar	EO/WT	Petition discussion doc	Petition sent to CS 12.19.19. Petition suff/TR request due 2.17.20. Petition found sufficient 2.4.20. CS requested TR 3.18.20. TR due back in Sep/Oct.	03.17.20	Spr 2021
Ammonia Extract	DM	Petition discussion doc	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	06.16.20 08.04.20	Fall 2020
Kasugamycin	SE	Proposal	Petition sent to CS 05.27.20. Petition found sufficient 07.07.20 and the CS requested a TR. TR due mid-December	07.07.20	Spr 2021

Hydronium			Petition sent to CS 10.6.20. Petition suff/TR request due 12.7.20.	11.3.20	
-----------	--	--	--	---------	--

Other Topics

Project	Contact	Doc Type	Notes*	Scheduled, Discussed, Voted	Target meeting
Wild, native fish for Liquid fish annotation	EO	Proposal	Approved by ES for addition to work agenda 5.18.18. Approved by NOP 9.13.18. TR requested 12.14.18. TR due late July. TR sent to CS 07.26.19. TR sufficiency due 9.24.19. TR was found sufficient 8.20.19.	07.07.20 07.21.20	Fall 2020
Biodegradable Biobased mulch annotation change	AB	Discussion document	Limited scope TR request sent to NOP 8.2.16. TR sent to CS on 12.28.16. TR Suff due 2.27.17. CS found TR suff 1.3.17. On hold pending further research. NOP sent response to CS about adding this to work agenda. Waiting for details from NOP based on the report from the cooperative agreement with Michigan State University. Report sent to NOSB 10.17.19	07.28.20	Fall 2020
Research Priorities	DM/All	N/A	RPs due to MS 07.14.20	07.28.20	Fall 2020

*Yellow highlight indicates Subcommittee action needed. *Highlight indicates review completion

2022 Sunset Review: TR Requests (July 2019), Summary (Spr 2020), Review (Fall 2020)

Substance	National List	Contact	TR Request?	Notes*	Scheduled, Discussed, Voted	Target meeting
Soap-based algicide/demossers	205.601	RG	N	Sunset date: 3/15/2022 2015 TR 2015/Fall – Rec to Renew	06.02.20	Summary: Spr 2020 Review: Fall 2020
Ammonium carbonate	205.601	DM	N	Sunset date: 3/15/2022 TR: None 2015/Fall – Rec to Renew	06.02.20	“
Soaps, insecticidal	205.601	RG	Y	Sunset date: 3/15/2022 2004 TAP 2015/Fall – Rec to Renew TR sent to CS 1.3.20. Sufficiency due 3.3.20. TR found sufficient 1.16.20.	06.02.20	“
Vitamin D3. As rodenticides	205.601	WT	N	Sunset date: 3/15/2022 2011 TR 2015/Fall – Rec to Renew	07.21.20	“

Aquatic plant extracts (other than hydrolyzed)	205.601	EO	N	Sunset date: 3/15/2022 2016 TR Marine Plants & Algae 2006 TR Aquatic Plant Extracts 2015/Fall - Rec to Renew	06.16.20 07.07.20	“
Lignin sulfonate	205.601	RG	N	Sunset date: 3/15/2022 2011 TR Lignin sulfonate 2015/Fall - Rec to Renew	07.21.20	“
Sodium silicate	205.601	SE	N	Sunset date: 3/15/2022 2011 TR Sodium silicate 2015/Fall - Rec to Renew	06.02.20	“
EPA List 4—Inerts of Minimal Concern	205.601	AB/SE	N	Sunset date: 3/15/2022 TR: None 2015/Fall - Rec to Renew	07.21.20	“
Arsenic	205.602	JB	N	Sunset date: 3/15/2022 TR: None 2015/Fall - Rec to Renew	07.07.20	“
Strychnine	205.602	JB	N	Sunset date: 3/15/2022 TR: None 2015/Fall - Rec to Renew	07.07.20	“

Fall 2020 Milestones	Target dates (tentative)
NOP - Publish FRN, Open public comment	Sep 1, 2020
NOSB Request for TRs for 2023 sunset materials	Jul 23, 2020
NOP - Draft Fall 2020 NOSB meeting tentative agenda	Aug 1, 2020
NOSB - Fall 2020 proposals due to NOP	Aug 13, 2020
NOP - Post proposals	On or before Sep 2, 2020
Public comment closes	Oct 1, 2020
NOP - Send compiled public comments to NOSB	~Oct 9, 2020
Discuss/finalize work agendas on ES call	Sep 15, 2020
Public comment webinars	Oct 20 & 22, 2020
Fall 2020 NOSB meeting - Virtual	Oct 28 - 30, 2020
Sanitizer Panel	Nov 12, 2020

2023 Sunset Review: TR Requests (July 2020), Summary (Spr 2021), Review (Fall 2021)

Substance	National List	Contact	TR Request?	Notes*	Scheduled, Discussed, Voted	Target meeting
Copper sulfate -for use as an algicide in aquatic rice systems	205.601(a)(3)	JD	N	Sunset date: 5/29/2023 2011 TR 2016/Fall - Rec to Renew	06.16.20	Summary: Spr 2021 Review: Fall 2021
Copper	205.601(e)(4)	JD	N	Sunset date: 5/29/2023 2011 TR 2016/Fall - Rec to Renew	06.16.20	“
Ozone gas	205.601(a)(5)	RG	Y	Sunset date: 5/29/2023 2002 TR 2016/Fall - Rec to Renew CS requested TR 6.2.20.	06.02.20	“
Peracetic acid	205.601(a)(6)	WT	N	Sunset date: 5/29/2023 2016 TR 2016/Fall - Rec to Renew	06.16.20	“
Peracetic	205.601(i)(8)	WT	N	Sunset date: 5/29/2023 2016 TR 2016/Fall - Rec to Renew	06.16.20	“
EPA List 3—Inerts of unknown toxicity	205.601(m)(2)	AB/SE	N	Sunset date: 5/29/2023 TR - None 2016/Fall - Rec to Renew	06.16.20	“
Calcium chloride	205.602	SE	Y	Sunset date: 5/29/2023 2001 TR 2016/Fall - Rec to Renew CS requested TR 6.2.20.	06.16.20	“
Chlorine materials (i) Calcium hypochlorite. (ii) Chlorine dioxide. (iii) Hypochlorous acid - generated from electrolyzed water. (iv) Sodium hypochlorite	205.601(a)(2)	TBD	N	Sunset date: 1/28/2024 2006 TR 2011 TR 2016 TR Hypochlorous acid (Crops, Livestock, Handling) 2017 TR Limited scope (Livestock) 2016/Spring - Rec to ADD Hypochlorous Acid	06.02.20	“
Magnesium oxide (CAS # 1309-48-4)	205.601(j)(5)	DM	Y	Sunset date: 1/28/2024 TR - None 2014/Spring - Rec to ADD CS requested TR 6.2.20.	06.16.20	“
Rotenone (CAS # 83-79-4).	205.602(f) 205.601(a)(3)	DM	N	Sunset date: 1/28/2024 TR - None 2012/Fall - Rec to ADD	06.16.20	“

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 18, 2020 2:00 pm ET**

Present: Jesse Buie (JB), Chair; Wood Turner (WT); Steve Ela (SE); Jerry D'Amore (JD); Rick Greenwood (RG), Vice Chair; Dave Mortensen (DM); Emily Oakley (EO)

Absent: Asa Bradman (AB)

Staff: Michelle Arsenault (MA); Jared Clark (JC); Devon Pattillo (DP)

Agenda

- August 4 notes
- Chitosan - plant disease control (RG) - TR sufficiency
- Chitosan - coagulant for fertilizer (RG) - Petition sufficiency
- Additional Items
- Adjourn

Discussion

- **August 4 notes** were accepted with minor edits
- **Chitosan - plant disease control (RG).** The lead summarized the petition and the TR, and the group discussed both documents. The source of the chitosan is bycatch or waste, mainly from shrimp. A member noted that the petition includes many uses, and although chitosan is considered benign, the production methods are not necessarily so. The Subcommittee found the TR sufficient and will proceed with its review. A member added that chitosan was petitioned to be listed as a Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) exempt active ingredient with the EPA and EPA is currently assessing that petition.
- **Chitosan - coagulant for fertilizer (RG).** The lead summarized the petition and uses of chitosan as a coagulant. A member noted that chitosan is on the Safer Choice Ingredient List (SCIL) as a soil amendment. The Subcommittee found the petition well written and comprehensive, although it is lacking information about the manufacturing process. The CS will send additional questions to the petitioner before accepting the petition.
- **Additional Items.** None.
- **The meeting was adjourned.**

[Previous CS Notes](#)

Future call schedule (1st and 3rd Tuesdays 2:00 ET, except where noted)

August 4, 2020

Sodium carbonate lignin (RG) - Discuss draft proposal/vote

Chitosan (RG) - TR sufficiency (RG)

Ammonia Extract (DM) - Discuss petition discussion doc

August 18, 2020

Chitosan - plant disease control (RG) - TR sufficiency

Chitosan - coagulant for fertilizer (RG) - Petition sufficiency

September 1, 2020

September 15, 2020

October 6, 2020

October 20, 2020

November 3, 2020

November 17, 2020
 December 1, 2020
 December 15, 2020

Work Agenda

Petitioned Substances

Substance	Contact	Doc Type	Notes	Scheduled, Discussed, Voted	Target meeting
Paper pots	SE	Proposal	Petition sent to CS 8.14.18. Petition suff/TR request due 10.13.18. Petition found sufficient 9.4.18. CS requested Lmt'd scope TR 3.5.19. TR due early August. TR sent to CS 7.26.19. TR sufficiency due 9.24.19. TR found suff 8.6.19. 2017 TR Newspaper	07.28.20	Fall 2020
Sodium carbonate lignin	RG	Proposal	Petition sent to CS 7.29.19. Petition suff/TR request due 9.27.19. Petition was found sufficient 9.17.19. Limited Scope TR requested 9.17.19/10.1.19. Revised request sent to NOP 11.5.19. Lignin sulfonate TR (2011) . TR sent to CS 04.10.20. Suff due 06.09.20. TR found sufficient 05.19.20	05.19.20 08.04.20	Fall 2020
Chitosan - plant disease control	RG	Proposal	Petition sent to CS 12.6.19. Petition suff/TR request due 2.4.20. Petition found sufficient/CS requested a TR 2.4.20. TR due back to CS mid-July. TR sent to CS 7.13.20. TR sufficiency due 9.11.20. TR found sufficient 08.18.20	08.04.20 08.18.20	Spr 2021
Biochar	EO/WT	Petition discussion doc	Petition sent to CS 12.19.19. Petition suff/TR request due 2.17.20. Petition found sufficient 2.4.20. CS requested TR 3.18.20. TR due back in October.	03.17.20	Spr 2021
Ammonia Extract	DM	Petition discussion doc	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.	06.16.20 08.04.20	Fall 2020
Kasugamycin	SE	Proposal	Petition sent to CS 05.27.20. Petition found sufficient 07.07.20 and the CS requested a TR.	07.07.20	Spr 2021
Chitosan - coagulant for fertilizer	RG	Proposal	Petition sent to CS 07.31.20. Petition sufficiency due 09.29.20. CS sent additional questions back to petitioner.	08.18.20	Spr 2021

Other Topics

Project	Contact	Doc Type	Notes*	Scheduled, Discussed, Voted	Target meeting
Wild, native fish for Liquid fish annotation	EO	Proposal	Approved by ES for addition to work agenda 5.18.18. Approved by NOP 9.13.18. TR requested 12.14.18. TR due late July. TR sent to CS 07.26.19. TR sufficiency due 9.24.19. TR was found sufficient 8.20.19.	07.07.20 07.21.20	Fall 2020
Biodegradable Biobased mulch annotation change	AB	Discussion document	Limited scope TR request sent to NOP 8.2.16. TR sent to CS on 12.28.16. TR Suff due 2.27.17. CS found TR suff 1.3.17. On hold pending further research. NOP sent response to CS about adding this to work agenda. Waiting for details from NOP based on the report from the cooperative agreement with Michigan State University. Report sent to NOSB 10.17.19	07.28.20	Fall 2020
Research Priorities	DM/All	N/A	RPs due to MS 07.14.20	07.28.20	Fall 2020

*Yellow highlight indicates Subcommittee action needed. *Highlight indicates review completion

2022 Sunset Review: TR Requests (July 2019), Summary (Spr 2020), Review (Fall 2020)

Substance	National List	Contact	TR Request?	Notes*	Scheduled, Discussed, Voted	Target meeting
Soap-based algicide/demosers	205.601	RG	N	Sunset date: 3/15/2022 2015 TR 2015/Fall – Rec to Renew	06.02.20	Summary: Spr 2020 Review: Fall 2020
Ammonium carbonate	205.601	DM	N	Sunset date: 3/15/2022 TR: None 2015/Fall – Rec to Renew	06.02.20	“
Soaps, insecticidal	205.601	RG	Y	Sunset date: 3/15/2022 2004 TAP 2015/Fall – Rec to Renew TR sent to CS 1.3.20. Sufficiency due 3.3.20. TR found sufficient 1.16.20.	06.02.20	“
Vitamin D3. As rodenticides	205.601	WT	N	Sunset date: 3/15/2022 2011 TR 2015/Fall – Rec to Renew	07.21.20	“
Aquatic plant extracts (other than hydrolyzed)	205.601	EO	N	Sunset date: 3/15/2022 2016 TR Marine Plants & Algae 2006 TR Aquatic Plant Extracts 2015/Fall – Rec to Renew	06.16.20 07.07.20	“

Lignin sulfonate	205.601	RG	N	Sunset date: 3/15/2022 2011 TR Lignin sulfonate 2015/Fall - Rec to Renew	07.21.20	“
Sodium silicate	205.601	SE	N	Sunset date: 3/15/2022 2011 TR Sodium silicate 2015/Fall - Rec to Renew	06.02.20	“
EPA List 4—Inerts of Minimal Concern	205.601	AB/SE	N	Sunset date: 3/15/2022 TR: None 2015/Fall - Rec to Renew	07.21.20	“
Arsenic	205.602	JB	N	Sunset date: 3/15/2022 TR: None 2015/Fall - Rec to Renew	07.07.20	“
Strychnine	205.602	JB	N	Sunset date: 3/15/2022 TR: None 2015/Fall - Rec to Renew	07.07.20	“

Fall 2020 Milestones	Target dates (tentative)
NOP - Publish FRN, Open public comment	May 21, 2020
NOSB Request for TRs for 2023 sunset materials	Jul 23, 2020
NOP - Draft Fall 2020 NOSB meeting tentative agenda	Aug 1, 2020
NOSB - Fall 2020 proposals due to NOP	Aug 13, 2020
NOP - Post proposals	On or before Sep 2, 2020
Public comment closes	Oct 1, 2020
NOP - Send compiled public comments to NOSB	~Oct 9, 2020
Discuss/finalize work agendas on ES call	Sep 15, 2020
Public comment webinars	Oct 20 & 22, 2020
Fall 2020 NOSB meeting - Virtual	Oct 28 - 30, 2020

2023 Sunset Review: TR Requests (July 2020), Summary (Spr 2021), Review (Fall 2021)

Substance	National List	Contact	TR Request?	Notes*	Scheduled, Discussed, Voted	Target meeting
Copper sulfate -for use as an algicide in aquatic rice systems	205.601(a)(3)	JD	N	Sunset date: 5/29/2023 2011 TR 2016/Fall - Rec to Renew	06.16.20	Summary: Spr 2021 Review: Fall 2021
Copper sulfate -for use as tadpole shrimp control in aquatic rice production	205.601(e)(4)	JD	N	Sunset date: 5/29/2023 2011 TR 2016/Fall - Rec to Renew	06.16.20	“

Ozone gas - for use as an irrigation system cleaner only.	205.601(a)(5)	RG	Y	Sunset date: 5/29/2023 2002 TR 2016/Fall - Rec to Renew	06.02.20	“
Peracetic acid for use in disinfecting equipment, seed, and asexually propagated planting material	205.601(a)(6)	WT	N	Sunset date: 5/29/2023 2016 TR 2016/Fall - Rec to Renew	06.16.20	“
Peracetic acid for use to control fire blight bacteria.	205.601(i)(8)	WT	N	Sunset date: 5/29/2023 2016 TR 2016/Fall - Rec to Renew	06.16.20	
EPA List 3—Inerts of unknown toxicity	205.601(m)(2)	AB/SE	N	Sunset date: 5/29/2023 TR - None 2016/Fall - Rec to Renew	06.16.20	“
Calcium chloride	205.602	SE	Y	Sunset date: 5/29/2023 2001 TR 2016/Fall - Rec to Renew	06.16.20	“
Chlorine materials (i) Calcium hypochlorite. (ii) Chlorine dioxide. (iii) Hypochlorous acid - generated from electrolyzed water. (iv) Sodium hypochlorite	205.601(a)(2)	TBD	N	Sunset date: 1/28/2024 2006 TR 2011 TR 2016 TR Hypochlorous acid (Crops, Livestock, Handling) 2017 TR Limited scope (Livestock) 2016/Spring - Rec to ADD Hypochlorous Acid	06.02.20	“
Magnesium oxide (CAS # 1309-48-4)	205.601(j)(5)	DM	Y	Sunset date: 1/28/2024 TR - None 2014/Spring - Rec to ADD	06.16.20	“
Rotenone (CAS # 83-79-4).	205.602(f) 205.601(a)(3)	DM	N	Sunset date: 1/28/2024 TR - None 2012/Fall - Rec to ADD	06.16.20	“

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 4, 2020 2:00 pm ET

Present: Jesse Buie (JB), Chair; Wood Turner (WT); Steve Ela (SE); Jerry D'Amore (JD); Rick Greenwood (RG), Vice Chair; Dave Mortensen (DM)

Absent: Asa Bradman (AB); Emily Oakley (EO)

Staff: Michelle Arsenault (MA); Jared Clark (JC); Devon Pattillo (DP)

Agenda

- July 28 notes
- Ammonia Extract (DM) - Discuss petition discussion doc
- Sodium Carbonate Lignin (RG) - Discuss draft proposal/vote
- Chitosan (RG) - Discuss petition discussion document and TR
- Additional Items
- Adjourn

Discussion

- **July 28 notes** were accepted as written.
- **Ammonia Extract (DM).** The lead summarized the petition, which is seeking prohibition of ammonia extract. CS requested a TR and will put forth a petition discussion document for the Fall meeting to solicit feedback to help inform its future work.

Motion to accept the discussion document on ammonia extract

Motion by: DM

Seconded by: JD

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

- **Sodium carbonate lignin (RG).** The lead summarized the proposed uses and noted the current listing for lignin (sodium sulfonate lignin). Sodium carbonate lignin is being petitioned for use as a dust suppressant. The substance is considered benign, has low toxicity, low potential for environmental impact, but is not commonly used/permitted internationally. Sodium carbonate lignin does not seem to have unique properties from sodium sulfonate lignin, and given that there is an alternative already on the list, the CS is reticent to add another synthetic. The lead added that the petition does not contain a strong argument for need or efficacy, and there are currently other substances listed as dust suppressants.

Motion to classify sodium carbonate lignin as synthetic

Motion by: RG

Seconded by: DM

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

Motion to add sodium carbonate lignin at § 205.601(j)(4)

Motion by: RG

Seconded by: SE

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

- **Chitosan (RG).** Chitosan is being petitioned in Crops for plant disease control, and the NOSB recently received two more petitions for chitosan. One for Crops as a processing aid for fertilizer production,

and one as a processing aid in the production of livestock feed. It is unclear whether this last petition will be sent to Livestock or Handling. The lead summarized the use and manufacture, noting that it is also used as a plant growth regulator. Chitosan is a relatively benign, non-toxic compound, used in small amounts, and exempted by EPA. The group discussed manufacture and break down products. NOP clarified that chitosan is also used as an inert and is already on the National List as part of EPA List 4. Chitosan has also been stated to have use as a pest control material. A member asked how this intersects with marine materials and by-catch, and if chitosan was a byproduct or if it's being fished specifically for use as a plant growth regulator as the main source of chitin and chitosan is from crustacean shells. The lead indicated that it is made from shellfish waste, and it's not likely it is being harvested for use. The group also discussed organic manufacturing processes and efficacy of chitosan vs other compounds on NL. The lead indicated that the TR was very comprehensive, and the DC will decide sufficiency on a later call. The CS will develop a proposal for the Spring 2021 meeting.

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

[Previous CS Notes](#)

Future call schedule (1st and 3rd Tuesdays 2:00 ET, except where noted)

July 28, 2020

Biodegradable Biobased mulch annotation change (AB) - Discuss proposal/vote

Paper pots (SE) - Discuss proposal/vote

Research Priorities (DM) - Discuss and send to MS

August 4, 2020

Sodium carbonate lignin (RG) - Discuss draft proposal/vote

Chitosan (RG) - TR sufficiency (RG)

Ammonia Extract (DM) - Discuss petition discussion doc

August 18, 2020

Chitosan - plant disease control (RG) - TR sufficiency

Chitosan – processing aid (flocculant) for fertilizer (RG) - Petition sufficiency

September 1, 2020

September 15, 2020

October 6, 2020

October 20, 2020

November 3, 2020

November 17, 2020

December 1, 2020

December 15, 2020

Work Agenda

Petitioned Substances

Substance	Contact	Doc Type	Notes	Scheduled, Discussed, Voted	Target meeting
Paper pots	SE	Proposal	Petition sent to CS 8.14.18. Petition suff/TR request due 10.13.18. Petition found sufficient 9.4.18. CS requested Lmt'd scope TR 3.5.19. TR due early August. TR sent to CS 7.26.19. TR sufficiency due 9.24.19. TR found suff 8.6.19. 2017 TR Newspaper	07.28.20	Fall 2020
Sodium carbonate lignin	RG	Proposal	Petition sent to CS 7.29.19. Petition suff/TR request due 9.27.19. Petition was found sufficient 9.17.19. Limited Scope TR requested 9.17.19/10.1.19. Revised request sent to NOP 11.5.19. Lignin sulfonate TR (2011) . TR sent to CS 04.10.20. Suff due 06.09.20. TR found sufficient 05.19.20	05.19.20 08.04.20	Fall 2020
Chitosan - plant disease control	RG	Proposal	Petition sent to CS 12.6.19. Petition suff/TR request due 2.4.20. Petition found sufficient/CS requested a TR 2.4.20. TR due back to CS mid-July. TR sent to CS 7.13.20. TR sufficiency due 9.11.20.	08.04.20 08.18.20	Spr 2021
Biochar	EO/WT	Petition discussion doc	Petition sent to CS 12.19.19. Petition suff/TR request due 2.17.20. Petition found sufficient 2.4.20. CS requested TR 3.18.20. TR due back in November.	03.17.20	Spr 2021
Ammonia Extract	DM	Petition discussion doc	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.	06.16.20 08.04.20	Fall 2020
Kasugamycin	SE	Proposal	Petition sent to CS 05.27.20. Petition found sufficient 07.07.20 and the CS requested a TR.	07.07.20	Spr 2021
Chitosan - coagulant for fertilizer	RG	Proposal	Petition sent to CS 07.31.20. Petition sufficiency due 09.29.20		Spr 2021

Other Topics

Project	Contact	Doc Type	Notes*	Scheduled, Discussed, Voted	Target meeting
Liquid fish annotation	EO	Proposal	Approved by ES for addition to work agenda 5.18.18. Approved by NOP 9.13.18. TR requested 12.14.18. TR due late July. TR sent to CS 07.26.19. TR sufficiency due 9.24.19. TR was found sufficient 8.20.19.	07.07.20 07.21.20	Fall 2020

Biodegradable Biobased mulch annotation change	AB	Discussion document	Limited scope TR request sent to NOP 8.2.16. TR sent to CS on 12.28.16. TR Suff due 2.27.17. CS found TR suff 1.3.17. On hold pending further research. NOP sent response to CS about adding this to work agenda. Waiting for details from NOP based on the report from the cooperative agreement with Michigan State University. Report sent to NOSB 10.17.19	07.28.20	Fall 2020
Research Priorities	DM/All	N/A	RPs due to MS 07.14.20	07.28.20	Fall 2020

*Yellow highlight indicates Subcommittee action needed. *Highlight indicates review completion

2022 Sunset Review: TR Requests (July 2019), Summary (Spr 2020), Review (Fall 2020)

Substance	National List	Contact	TR Request?	Notes*	Scheduled, Discussed, Voted	Target meeting
Soap-based algicide/demosers	205.601	RG	N	Sunset date: 3/15/2022 2015 TR 2015/Fall – Rec to Renew	06.02.20	Summary: Spr 2020 Review: Fall 2020
Ammonium carbonate	205.601	DM	N	Sunset date: 3/15/2022 TR: None 2015/Fall – Rec to Renew	06.02.20	“
Soaps, insecticidal	205.601	RG	Y	Sunset date: 3/15/2022 2004 TAP 2015/Fall – Rec to Renew TR sent to CS 1.3.20. Sufficiency due 3.3.20. TR found sufficient 1.16.20.	06.02.20	“
Vitamin D3. As rodenticides	205.601	WT	N	Sunset date: 3/15/2022 2011 TR 2015/Fall – Rec to Renew	07.21.20	“
Aquatic plant extracts (other than hydrolyzed)	205.601	EO	N	Sunset date: 3/15/2022 2016 TR Marine Plants & Algae 2006 TR Aquatic Plant Extracts 2015/Fall – Rec to Renew	06.16.20 07.07.20	“
Lignin sulfonate	205.601	RG	N	Sunset date: 3/15/2022 2011 TR Lignin sulfonate 2015/Fall - Rec to Renew	07.21.20	“
Sodium silicate	205.601	SE	N	Sunset date: 3/15/2022 2011 TR Sodium silicate 2015/Fall - Rec to Renew	06.02.20	“
EPA List 4—Inerts of Minimal Concern	205.601	AB/SE	N	Sunset date: 3/15/2022 TR: None 2015/Fall - Rec to Renew	07.21.20	“

Arsenic	205.602	JB	N	Sunset date: 3/15/2022 TR: None 2015/Fall - Rec to Renew	07.07.20	“
Strychnine	205.602	JB	N	Sunset date: 3/15/2022 TR: None 2015/Fall - Rec to Renew	07.07.20	“

Fall 2020 Milestones	Target dates (tentative)
NOP - Publish FRN, Open public comment	May 21, 2020
NOSB Request for TRs for 2023 sunset materials	Jul 23, 2020
NOP - Draft Fall 2020 NOSB meeting tentative agenda	Aug 1, 2020
NOSB - Fall 2020 proposals due to NOP	Aug 13, 2020
NOP - Post proposals	On or before Sep 2, 2020
Public comment closes	Oct 1, 2020
NOP - Send compiled public comments to NOSB	~Oct 9, 2020
Discuss/finalize work agendas on ES call	Sep 15, 2020
Public comment webinars	Oct 20 & 22, 2020
Fall 2020 NOSB meeting - Virtual	Oct 28 - 30, 2020

2023 Sunset Review: TR Requests (July 2020), Summary (Spr 2021), Review (Fall 2021)

Substance	National List	Contact	TR Request?	Notes*	Scheduled, Discussed, Voted	Target meeting
Copper sulfate -for use as an algicide in aquatic rice systems	205.601(a)(3)	JD	N	Sunset date: 5/29/2023 2011 TR 2016/Fall - Rec to Renew	06.16.20	Summary: Spr 2021 Review: Fall 2021
Copper sulfate -for use as tadpole shrimp control in aquatic rice production	205.601(e)(4)	JD	N	Sunset date: 5/29/2023 2011 TR 2016/Fall - Rec to Renew	06.16.20	“
Ozone gas - for use as an irrigation system cleaner only.	205.601(a)(5)	RG	Y	Sunset date: 5/29/2023 2002 TR 2016/Fall - Rec to Renew	06.02.20	“
Peracetic acid for use in disinfecting equipment, seed, and asexually propagated planting material	205.601(a)(6)	WT	N	Sunset date: 5/29/2023 2016 TR 2016/Fall - Rec to Renew	06.16.20	“

Peracetic acid for use to control fire blight bacteria.	205.601(i)(8)	WT	N	Sunset date: 5/29/2023 2016 TR 2016/Fall - Rec to Renew	06.16.20	
EPA List 3—Inerts of unknown toxicity	205.601(m)(2)	AB/SE	N	Sunset date: 5/29/2023 TR - None 2016/Fall - Rec to Renew	06.16.20	“
Calcium chloride	205.602	SE	Y	Sunset date: 5/29/2023 2001 TR 2016/Fall - Rec to Renew	06.16.20	“
Chlorine materials (i) Calcium hypochlorite. (ii) Chlorine dioxide. (iii) Hypochlorous acid - generated from electrolyzed water. (iv) Sodium hypochlorite	205.601(a)(2)	TBD	N	Sunset date: 1/28/2024 2006 TR 2011 TR 2016 TR Hypochlorous acid (Crops, Livestock, Handling) 2017 TR Limited scope (Livestock) 2016/Spring - Rec to ADD Hypochlorous Acid	06.02.20	“
Magnesium oxide (CAS # 1309-48-4)	205.601(j)(5)	DM	Y	Sunset date: 1/28/2024 TR - None 2014/Spring - Rec to ADD	06.16.20	“
Rotenone (CAS # 83-79-4).	205.602(f) 205.601(a)(3)	DM	N	Sunset date: 1/28/2024 TR - None 2012/Fall - Rec to ADD	06.16.20	“

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, July 28, 2020 2:00 pm ET

Present: Jesse Buie (JB), Chair; Emily Oakley (EO); Wood Turner (WT); Steve Ela (SE); Jerry D'Amore (JD); Asa Bradman (AB); Rick Greenwood (RG), Vice Chair

Absent: Dave Mortensen (DM)

Staff: Michelle Arsenault (MA); Jared Clark (JD); Devon Pattillo (DP)

Agenda

- July 21 notes
- Biodegradable Biobased mulch annotation change (AB) - Discuss discussion document/vote
- Paper pots (SE) - Discuss proposal/vote
- Ammonia Extract (DM) - Discuss petition disc doc.
- Research Priorities (DM) - Discuss and send to MS
- Additional Items
- Adjourn

Discussion

- **July 21 notes** were approved as written

Biodegradable Biobased mulch film annotation change (AB). The lead summarized the issue the NOSB is trying to solve and the group discussed several options. The current annotation limits the use to 100% biobased mulch film, and no products on the market qualify. The Subcommittee discussed concerns about petroleum products, and breakdown products that may result in microplastics in the environment. Conversely, the current practice is to use polyethylene film which results in a vast volume of plastic that ends up in landfills. The Crops Subcommittee will put forth a discussion document for the Fall 2020 meeting. The lead asked for additional feedback from members by close of business today, and they moved to a vote.

Motion to accept the revised biodegradable biobased mulch annotation change discussion document

Motion by: AB

Seconded by: RG

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

- **Paper pots (SE).** The lead summarized the work to date and noted several modifications that were made since the Spring 2020 version of the document. A member asked about the use of virgin paper versus recycled paper. The petitioners argue that recycled paper is more difficult to source, and does not provide adequate structure to the product. One major producer noted that they have sustainable forest certification, and the amount of virgin paper used is minimal. A member urged the group to include a restriction that sources must be sustainable. Another member advocated for the explicit restriction on added nutrients and pesticides (based on stakeholder comments).

Motion to classify "paper-based crop planting aid" as a synthetic substance.

Motion by: SE

Seconded by: AB

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

Motion to add to 205.2 Terms Defined:

Paper-based crop planting aid. A material that is comprised of at least 60% cellulose-based fiber by weight, including, but not limited to, pots, seed tape, and collars that are placed in or on the soil and later incorporated into the soil. Contains no less than 80% biobased content as verified by a qualified third party assessment (e.g. laboratory test using ASTM D6866 or composition review by qualified personnel).

Motion by: SE

Seconded by: JD

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

Add to 205.601 (o) Production Aids:

Paper-based crop planting aids as defined in 205.2. Virgin or recycled paper without glossy paper or colored inks. Added pesticides or nutrients must comply with §205.105, 205.203, and 205.206.

Motion by: SE

Seconded by: RG

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

- **Ammonia Extract (DM).** Deferred to next call
- **Research Priorities (DM).** The research priorities from the Crops Subcommittee were nearly identical to the Spring version and were approved to send on to the Materials Subcommittee.

Motion to accept the Research Priorities

Motion by: SE

Seconded by: EO

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

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

[Previous CS Notes](#)

Future call schedule (1st and 3rd Tuesdays 2:00 ET, except where noted)

July 21, 2020

2022 Sunsets: Vitamin D3. As rodenticides (WT) - discuss review/vote

2022 Sunsets: EPA List 4 - Inerts of Minimal Concern (AB/SE) - discuss review/vote

2022 Sunsets: Lignin sulfonate (RG) - discuss review/vote

Liquid fish annotation (EO) - Discuss proposal/vote

Biodegradable Biobased mulch annotation change (AB) - discuss/vote

Paper pots (SE) - Discuss proposal/vote

Research Priorities (DM) - Discuss and send to MS

July 28, 2020

Biodegradable Biobased mulch annotation change (AB) - Discuss proposal/vote

Paper pots (SE) - Discuss proposal/vote

Research Priorities (DM) - Discuss and send to MS

August 4, 2020

Sodium carbonate lignin (RG) - Discuss draft proposal/vote

Chitosan (RG) - Discuss petition discussion doc and TR

Ammonia Extract (DM) - Discuss petition discussion doc

August 18, 2020
 September 1, 2020
 September 15, 2020
 October 6, 2020
 October 20, 2020
 November 3, 2020
 November 17, 2020
 December 1, 2020
 December 15, 2020

Work Agenda

Petitioned Substances07

Substance	Contact	Doc Type	Notes	Scheduled, Discussed, Voted	Target meeting
Paper pots	SE	Proposal	Petition sent to CS 8.14.18. Petition suff/TR request due 10.13.18. Petition found sufficient 9.4.18. CS requested Lmt'd scope TR 3.5.19. TR due early August. TR sent to CS 7.26.19. TR sufficiency due 9.24.19. TR found suff 8.6.19. 2017 TR Newspaper	07.28.20	Fall 2020
Sodium carbonate lignin	RG	Proposal	Petition sent to CS 7.29.19. Petition suff/TR request due 9.27.19. Petition was found sufficient 9.17.19. Limited Scope TR requested 9.17.19/10.1.19. Revised request sent to NOP 11.5.19. Lignin sulfonate TR (2011) . TR sent to CS 04.10.20. Suff due 06.09.20. TR found sufficient 05.19.20	05.19.20 08.04.20	Fall 2020
Chitosan	RG	Petition discussion doc	Petition sent to CS 12.6.19. Petition suff/TR request due 2.4.20. Petition found sufficient/CS requested a TR 2.4.20. TR due back to CS mid-July. TR sent to CS 7.13.20. TR sufficiency due 9.11.20.	08.04.20	Fall 2020
Biochar	EO/WT	Petition discussion doc	Petition sent to CS 12.19.19. Petition suff/TR request due 2.17.20. Petition found sufficient 2.4.20. CS requested TR 3.18.20. TR due back in November.	03.17.20	Spr 2021
Ammonia Extract	DM	Petition discussion doc	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.	06.16.20 08.04.20	Fall 2020
Kasugamycin	SE		Petition sent to CS 05.27.20. Petition found sufficient 07.07.20 and the CS requested a TR.	07.07.20	Spr 2021

Other Topics

Project	Contact	Doc Type	Notes*	Scheduled, Discussed, Voted	Target meeting
Liquid fish annotation	EO	Proposal	Approved by ES for addition to work agenda 5.18.18. Approved by NOP 9.13.18. TR requested 12.14.18. TR due late July. TR sent to CS 07.26.19. TR sufficiency due 9.24.19. TR was found sufficient 8.20.19.	07.07.20 07.21.20	Fall 2020
Biodegradable Biobased mulch annotation change	AB	Discussion document	Limited scope TR request sent to NOP 8.2.16. TR sent to CS on 12.28.16. TR Suff due 2.27.17. CS found TR suff 1.3.17. On hold pending further research. NOP sent response to CS about adding this to work agenda. Waiting for details from NOP based on the report from the cooperative agreement with Michigan State University. Report sent to NOSB 10.17.19	07.28.20	Fall 2020
Research Priorities	DM/All	N/A	RPs due to MS 07.14.20	07.28.20	Fall 2020

*Yellow highlight indicates Subcommittee action needed. *Highlight indicates review completion

2022 Sunset Review: TR Requests (July 2019), Summary (Spr 2020), Review (Fall 2020)

Substance	National List	Contact	TR Request?	Notes*	Scheduled, Discussed, Voted	Target meeting
Soap-based algicide/demosers	205.601	RG	N	Sunset date: 3/15/2022 2015 TR 2015/Fall – Rec to Renew	06.02.20	Summary: Spr 2020 Review: Fall 2020
Ammonium carbonate	205.601	DM	N	Sunset date: 3/15/2022 TR: None 2015/Fall – Rec to Renew	06.02.20	“
Soaps, insecticidal	205.601	RG	Y	Sunset date: 3/15/2022 2004 TAP 2015/Fall – Rec to Renew TR sent to CS 1.3.20. Sufficiency due 3.3.20. TR found sufficient 1.16.20.	06.02.20	“
Vitamin D3. As rodenticides	205.601	WT	N	Sunset date: 3/15/2022 2011 TR 2015/Fall – Rec to Renew	07.21.20	“
Aquatic plant extracts (other than hydrolyzed)	205.601	EO	N	Sunset date: 3/15/2022 2016 TR Marine Plants & Algae 2006 TR Aquatic Plant Extracts 2015/Fall – Rec to Renew	06.16.20 07.07.20	“

Lignin sulfonate	205.601	RG	N	Sunset date: 3/15/2022 2011 TR Lignin sulfonate 2015/Fall - Rec to Renew	07.21.20	“
Sodium silicate	205.601	SE	N	Sunset date: 3/15/2022 2011 TR Sodium silicate 2015/Fall - Rec to Renew	06.02.20	“
EPA List 4—Inerts of Minimal Concern	205.601	AB/SE	N	Sunset date: 3/15/2022 TR: None 2015/Fall - Rec to Renew	07.21.20	“
Arsenic	205.602	JB	N	Sunset date: 3/15/2022 TR: None 2015/Fall - Rec to Renew	07.07.20	“
Strychnine	205.602	JB	N	Sunset date: 3/15/2022 TR: None 2015/Fall - Rec to Renew	07.07.20	“

Fall 2020 Milestones	Target dates (tentative)
NOP - Publish FRN, Open public comment	May 21, 2020
NOSB Request for TRs for 2023 sunset materials	Jul 23, 2020
NOP - Draft Fall 2020 NOSB meeting tentative agenda	Aug 1, 2020
NOSB - Fall 2020 proposals due to NOP	Aug 13, 2020
NOP - Post proposals	On or before Sep 2, 2020
Public comment closes	Oct 1, 2020
NOP - Send compiled public comments to NOSB	~Oct 9, 2020
Discuss/finalize work agendas on ES call	Sep 15, 2020
Public comment webinars	Oct 20 & 22, 2020
Fall 2020 NOSB meeting - Virtual	Oct 28 - 30, 2020

2023 Sunset Review: TR Requests (July 2020), Summary (Spr 2021), Review (Fall 2021)

Substance	National List	Contact	TR Request?	Notes*	Scheduled, Discussed, Voted	Target meeting
Copper sulfate -for use as an algicide in aquatic rice systems	205.601(a)(3)	JD	N	Sunset date: 5/29/2023 2011 TR 2016/Fall - Rec to Renew	06.16.20	Summary: Spr 2021 Review: Fall 2021
Copper sulfate -for use as tadpole shrimp control in aquatic rice production	205.601(e)(4)	JD	N	Sunset date: 5/29/2023 2011 TR 2016/Fall - Rec to Renew	06.16.20	“

Ozone gas - for use as an irrigation system cleaner only.	205.601(a)(5)	RG	Y	Sunset date: 5/29/2023 2002 TR 2016/Fall - Rec to Renew	06.02.20	“
Peracetic acid for use in disinfecting equipment, seed, and asexually propagated planting material	205.601(a)(6)	WT	N	Sunset date: 5/29/2023 2016 TR 2016/Fall - Rec to Renew	06.16.20	“
Peracetic acid for use to control fire blight bacteria.	205.601(i)(8)	WT	N	Sunset date: 5/29/2023 2016 TR 2016/Fall - Rec to Renew	06.16.20	
EPA List 3—Inerts of unknown toxicity	205.601(m)(2)	AB/SE	N	Sunset date: 5/29/2023 TR - None 2016/Fall - Rec to Renew	06.16.20	“
Calcium chloride	205.602	SE	Y	Sunset date: 5/29/2023 2001 TR 2016/Fall - Rec to Renew	06.16.20	“
Chlorine materials (i) Calcium hypochlorite. (ii) Chlorine dioxide. (iii) Hypochlorous acid - generated from electrolyzed water. (iv) Sodium hypochlorite	205.601(a)(2)	TBD	N	Sunset date: 1/28/2024 2006 TR 2011 TR 2016 TR Hypochlorous acid (Crops, Livestock, Handling) 2017 TR Limited scope (Livestock) 2016/Spring - Rec to ADD Hypochlorous Acid	06.02.20	“
Magnesium oxide (CAS # 1309-48-4)	205.601(j)(5)	DM	Y	Sunset date: 1/28/2024 TR - None 2014/Spring - Rec to ADD	06.16.20	“
Rotenone (CAS # 83-79-4).	205.602(f) 205.601(a)(3)	DM	N	Sunset date: 1/28/2024 TR - None 2012/Fall - Rec to ADD	06.16.20	“

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, July 21, 2020 2:00 pm ET

Present: Jesse Buie (JB), Chair; Rick Greenwood (RG), Vice Chair; Emily Oakley (EO); Wood Turner (WT); Steve Ela (SE); Jerry D'Amore (JD); Dave Mortensen (DM); Asa Bradman (AB); Scott Rice (SR) - observer

Absent: None

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

Agenda

- July 7 notes
- 2022 Sunsets: Vitamin D3. As rodenticides (WT) - discuss review/vote
- 2022 Sunsets: EPA List 4 - Inerts of Minimal Concern (AB/SE) - discuss review/vote
- 2022 Sunsets: Lignin sulfonate (RG) - discuss review/vote
- Liquid fish annotation (EO) - Discuss proposal/vote
- Biodegradable Biobased mulch annotation change (AB) - discuss/vote
- Paper pots (SE) - Discuss proposal/vote
- Research Priorities (DM) - Discuss and send to MS
- Additional Items
- Adjourn

Discussion

- **July 7 notes** were accepted as written.
- **2022 Sunsets: Vitamin D3. As rodenticides (WT).** The lead summarized the uses of vitamin D3, the international standards, and comments from the Spring sunset review posting.

Motion to remove vitamin D3 at §205.601

Motion by: WT

Seconded by: JD

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

- **2022 Sunsets: EPA List 4 - Inerts of Minimal Concern (AB/SE).** The lead summarized the discussion on EPA List 4 inerts, including the comments from the April 2020 meeting. A prior Board recommended that the NOP establish a process to evaluate inerts, and there was near unanimous support from the organic community to move forward with this work. Most commenters supported working with the EPA Safer Choice Program and its SCIL List, while a few commenters suggested reviewing inerts individually. The lead indicated that many of the List 4 materials are already approved by EPA and represent ~60 % of the products, and it seems that it could be feasible to work on the remaining ~40% of the list. The HS discussed the various scenarios as they move forward. They could either vote to remove the listing and recommend that the NOP adopt the 2015 recommendation, or they could vote to retain the listing, and work on a potential solution to replace the now defunct listing.

Motion to remove EPA List 4 - Inerts of Minimal Concern at §205.601

Motion by: AB

Seconded by: WT

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

- **2022 Sunsets: Lignin sulfonate (RG).** The lead summarized the manufacture and use of lignin sulfonate, as well as previous comments, which were supportive of relisting. Lignin sulfonate is used extensively, and it was reported that it is listed on a large number of Organic System Plans (OSPs).

Motion to remove lignin sulfonate at §205.601

Motion by: RG

Seconded by: EO

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

- **Liquid fish annotation (EO).** The lead collaborated with several NOP staff and Crop Subcommittee members to improve some language in the draft document and the group discussed it. Based on OFPA the NOP must meet stringent criteria for prohibiting a natural substance and therefore the Subcommittee voted to annotate the listing at 205.601 rather than adding it to 205.602, which would prohibit it.

Motion to amend Section 205.601(j)(8) as follows:

(8) Liquid fish products—sourced only from fish waste, bycatch, or invasive species—can be pH adjusted with sulfuric, citric or phosphoric acid. The amount of acid used shall not exceed the minimum needed to lower the pH to 3.5.

Motion by: EO

Seconded by: DM

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

Motion to add the following definitions to Section 205.2 Terms defined:

Fish waste. Waste or byproduct left over after market fish are processed for human consumption.

Bycatch. Incidental or discarded catch that have no economic value, fish that must be discarded because of management regulations, or fish that are killed by fishing gear (mortality).

Motion to add following language to 205.601

Motion by: EO

Seconded by: SE

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

- **Biodegradable Biobased mulch annotation change (AB).** Deferred to August 4.
- **Paper pots (SE).** Deferred to August 4.
- **Research Priorities (DM).** Deferred to August 4.
- **Additional Items.** The Crops Subcommittee added an extra call on July 28.
- **The meeting was adjourned.**

[Previous CS Notes](#)

Future call schedule (1st and 3rd Tuesdays 2:00 ET, except where noted)

July 7, 2020

2022 Sunsets: Arsenic (JB) - discuss review/vote

2022 Sunsets: Strychnine (JB) - discuss review/vote

Kasugamycin(SE) - Petition sufficiency

Liquid fish annotation (EO) - Discuss proposal

July 21, 2020

2022 Sunsets: Vitamin D3. As rodenticides (WT) - discuss review/vote
 2022 Sunsets: EPA List 4 - Inerts of Minimal Concern (AB/SE) - discuss review/vote
 2022 Sunsets: Lignin sulfonate (RG) - discuss review/vote
 Liquid fish annotation (EO) - Discuss proposal/vote
 Biodegradable Biobased mulch annotation change (AB) - discuss/vote
 Paper pots (SE) - Discuss proposal/vote
 Research Priorities (DM) - Discuss and send to MS

July 28, 2020

Biodegradable Biobased mulch annotation change (AB) - discuss/vote
 Paper pots (SE) - Discuss proposal/vote
 Research Priorities (DM) - Discuss and send to MS

August 4, 2020

Sodium carbonate lignin (RG) - Discuss draft proposal/vote
 Chitosan (RG) - Discuss petition discussion doc and TR
 Ammonia Extract (DM) - Discuss petition discussion doc

August 18, 2020

September 1, 2020

September 15, 2020

October 6, 2020

October 20, 2020

November 3, 2020

November 17, 2020

December 1, 2020

December 15, 2020

Work Agenda

Petitioned Substances07

Substance	Contact	Doc Type	Notes	Scheduled, Discussed, Voted	Target meeting
Paper pots	SE	Proposal	Petition sent to CS 8.14.18. Petition suff/TR request due 10.13.18. Petition found sufficient 9.4.18. CS requested Lmt'd scope TR 3.5.19. TR due early August. TR sent to CS 7.26.19. TR sufficiency due 9.24.19. TR found suff 8.6.19. 2017 TR Newspaper	07.28.20	Fall 2020
Sodium carbonate lignin	RG	Proposal	Petition sent to CS 7.29.19. Petition suff/TR request due 9.27.19. Petition was found sufficient 9.17.19. Limited Scope TR requested 9.17.19/10.1.19. Revised request sent to NOP 11.5.19. Lignin sulfonate TR (2011) . TR sent to CS 04.10.20. Suff due 06.09.20. TR found sufficient 05.19.20	05.19.20 08.04.20	Fall 2020

Chitosan	RG	Petition discussion doc	Petition sent to CS 12.6.19. Petition suff/TR request due 2.4.20. Petition found sufficient/CS requested a TR 2.4.20. TR due back to CS mid-July. TR sent to CS 7.13.20. TR sufficiency due 9.11.20.	08.04.20	Fall 2020
Biochar	EO/WT	Petition discussion doc	Petition sent to CS 12.19.19. Petition suff/TR request due 2.17.20. Petition found sufficient 2.4.20. CS requested TR 3.18.20. TR due back in November.	03.17.20	Spr 2021
Ammonia Extract	DM	Petition discussion doc	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.	06.16.20 08.04.20	Fall 2020
Kasugamycin	SE		Petition sent to CS 05.27.20. Petition found sufficient 07.07.20 and the CS requested a TR.	07.07.20	Spr 2021

Other Topics

Project	Contact	Doc Type	Notes*	Scheduled, Discussed, Voted	Target meeting
Liquid fish annotation	EO	Proposal	Approved by ES for addition to work agenda 5.18.18. Approved by NOP 9.13.18. TR requested 12.14.18. TR due late July. TR sent to CS 07.26.19. TR sufficiency due 9.24.19. TR was found sufficient 8.20.19.	07.07.20 07.21.20	Fall 2020
Biodegradable Biobased mulch annotation change	AB	Discussion document	Limited scope TR request sent to NOP 8.2.16. TR sent to CS on 12.28.16. TR Suff due 2.27.17. CS found TR suff 1.3.17. On hold pending further research. NOP sent response to CS about adding this to work agenda. Waiting for details from NOP based on the report from the cooperative agreement with Michigan State University. Report sent to NOSB 10.17.19	07.28.20	Fall 2020
Research Priorities	DM/All	N/A	RPs due to MS 07.14.20	07.28.20	Fall 2020

*Yellow highlight indicates Subcommittee action needed. *Highlight indicates review completion

2022 Sunset Review: TR Requests (July 2019), Summary (Spr 2020), Review (Fall 2020)

Substance	National List	Contact	TR Request?	Notes*	Scheduled, Discussed, Voted	Target meeting
-----------	---------------	---------	-------------	--------	-----------------------------	----------------

Soap-based algicide/demossers	205.601	RG	N	Sunset date: 3/15/2022 2015 TR 2015/Fall – Rec to Renew	06.02.20	Summary: Spr 2020 Review: Fall 2020
Ammonium carbonate	205.601	DM	N	Sunset date: 3/15/2022 TR: None 2015/Fall – Rec to Renew	06.02.20	“
Soaps, insecticidal	205.601	RG	Y	Sunset date: 3/15/2022 2004 TAP 2015/Fall – Rec to Renew TR sent to CS 1.3.20. Sufficiency due 3.3.20. TR found sufficient 1.16.20.	06.02.20	“
Vitamin D3. As rodenticides	205.601	WT	N	Sunset date: 3/15/2022 2011 TR 2015/Fall – Rec to Renew	07.21.20	“
Aquatic plant extracts (other than hydrolyzed)	205.601	EO	N	Sunset date: 3/15/2022 2016 TR Marine Plants & Algae 2006 TR Aquatic Plant Extracts 2015/Fall – Rec to Renew	06.16.20 07.07.20	“
Lignin sulfonate	205.601	RG	N	Sunset date: 3/15/2022 2011 TR Lignin sulfonate 2015/Fall - Rec to Renew	07.21.20	“
Sodium silicate	205.601	SE	N	Sunset date: 3/15/2022 2011 TR Sodium silicate 2015/Fall - Rec to Renew	06.02.20	“
EPA List 4—Inerts of Minimal Concern	205.601	AB/SE	N	Sunset date: 3/15/2022 TR: None 2015/Fall - Rec to Renew	07.21.20	“
Arsenic	205.602	JB	N	Sunset date: 3/15/2022 TR: None 2015/Fall - Rec to Renew	07.07.20	“
Strychnine	205.602	JB	N	Sunset date: 3/15/2022 TR: None 2015/Fall - Rec to Renew	07.07.20	“

Fall 2020 Milestones	Target dates (tentative)
NOP - Publish FRN, Open public comment	May 21, 2020
NOSB Request for TRs for 2023 sunset materials	Jul 23, 2020
NOP - Draft Fall 2020 NOSB meeting tentative agenda	Aug 1, 2020
NOSB - Fall 2020 proposals due to NOP	Aug 13, 2020
NOP - Post proposals	On or before Sep 2, 2020
Public comment closes	Oct 1, 2020
NOP - Send compiled public comments to NOSB	~Oct 9, 2020

Discuss/finalize work agendas on ES call	Sep 15, 2020
Public comment webinars	Oct 20 & 22, 2020
Fall 2020 NOSB meeting - Cedar Rapids, IA	Oct 27-29, 2020

2023 Sunset Review: TR Requests (July 2020), Summary (Spr 2021), Review (Fall 2021)

Substance	National List	Contact	TR Request?	Notes*	Scheduled, Discussed, Voted	Target meeting
Copper sulfate -for use as an algicide in aquatic rice systems	205.601(a)(3)	JD	N	Sunset date: 5/29/2023 2011 TR 2016/Fall - Rec to Renew	06.16.20	Summary: Spr 2021 Review: Fall 2021
Copper sulfate -for use as tadpole shrimp control in aquatic rice production	205.601(e)(4)	JD	N	Sunset date: 5/29/2023 2011 TR 2016/Fall - Rec to Renew	06.16.20	“
Ozone gas - for use as an irrigation system cleaner only.	205.601(a)(5)	RG	Y	Sunset date: 5/29/2023 2002 TR 2016/Fall - Rec to Renew	06.02.20	“
Peracetic acid for use in disinfecting equipment, seed, and asexually propagated planting material	205.601(a)(6)	WT	N	Sunset date: 5/29/2023 2016 TR 2016/Fall - Rec to Renew	06.16.20	“
Peracetic acid for use to control fire blight bacteria.	205.601(i)(8)	WT	N	Sunset date: 5/29/2023 2016 TR 2016/Fall - Rec to Renew	06.16.20	
EPA List 3—Inerts of unknown toxicity	205.601(m)(2)	AB/SE	N	Sunset date: 5/29/2023 TR - None 2016/Fall - Rec to Renew	06.16.20	“
Calcium chloride	205.602	SE	Y	Sunset date: 5/29/2023 2001 TR 2016/Fall - Rec to Renew	06.16.20	“

Chlorine materials (i) Calcium hypochlorite. (ii) Chlorine dioxide. (iii) Hypochlorous acid - generated from electrolyzed water. (iv) Sodium hypochlorite	205.601(a)(2)	TBD	N	Sunset date: 1/28/2024 2006 TR 2011 TR 2016 TR Hypochlorous acid (Crops, Livestock, Handling) 2017 TR Limited scope (Livestock) 2016/Spring - Rec to ADD Hypochlorous Acid	06.02.20	“
Magnesium oxide (CAS # 1309-48-4)	205.601(j)(5)	DM	Y	Sunset date: 1/28/2024 TR - None 2014/Spring - Rec to ADD	06.16.20	“
Rotenone (CAS # 83-79-4).	205.602(f) 205.601(a)(3)	DM	N	Sunset date: 1/28/2024 TR - None 2012/Fall - Rec to ADD	06.16.20	“

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, July 7, 2020 2:00 pm ET

Present: Jesse Buie (JB), Chair; Rick Greenwood (RG), Vice Chair; Emily Oakley (EO); Wood Turner (WT); Steve Ela (SE); Dave Mortensen (DM); Nate Powell-Palm (NPP) - observer

Absent: Jerry D'Amore (JD); Asa Bradman (AB)

Staff: Michelle Arsenault (MA); Devon Pattillo (DP); Shannon Nally Yanessa

Agenda

- June 16 notes
- 2022 Sunsets: Aquatic plant extracts (other than hydrolyzed) (EO). Discuss motion language
- 2022 Sunsets: Arsenic (JB) - discuss review/vote
- 2022 Sunsets: Strychnine (JB) - discuss review/vote
- Kasugamycin (SE) - Petition sufficiency
- Liquid fish annotation (EO) - Discuss proposal/vote
- Research Priorities (DM) - Discuss and send to MS
- Additional Items
- Adjourn

Discussion

- **June 16 notes** were accepted as is
- **2022 Sunsets: Aquatic plant extracts (other than hydrolyzed) (EO).** The lead will add some clarifying language to explain the Subcommittee vote they completed on the last call, and will resubmit the document to the NOP.
- **Liquid fish annotation (EO).** The CS and NOP discussed the draft proposal for liquid fish, including the difference between listing it on 205.601 vs 205.602, as well as the need to include a well-supported argument for why an annotation is needed and how rule making would solve the issue. A member noted that the data support the draft proposal to annotate the listing. The lead will modify some text based on feedback during the call, and will reach out to a Materials Review Organization to clarify some definitions, and the CS will discuss this on the next call.
- **2022 Sunsets: Arsenic (JB).** The lead summarized the history and uses of arsenic, which is prohibited in organic agriculture.

Motion to remove arsenic at §205.602

Motion by: JB

Seconded by: EO

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

- **2022 Sunsets: Strychnine (JB).** The lead summarized the history and use of strychnine, which is considered to be highly toxic and is prohibited in organic agriculture. The lead added that strychnine does not meet OFPA criteria and the NOSB does not support removal.

Motion to remove strychnine at §205.602

Motion by: JB

Seconded by: RG

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

- **Kasugamycin (SE).** The lead summarized the uses of kasugamycin, which is used to prevent fire blight, and noted that the petitioner included an annotation to limit its use. With the removal of antibiotics from the National List, growers are left with few alternatives. Kasugamycin has no human or animal uses, unlike natamycin and other antibiotics. The petition was found sufficient and the CS requested a technical report (TR). Another member asked about the similarity between Polyoxin D Zinc salt and kasugamycin.
- **Research Priorities (DM).** The CS will finalize the document on the next call, and forward it to the Materials Subcommittee.
- **Additional Items.** None
- **The meeting was adjourned.**

[Previous CS Notes](#)

Future call schedule (1st and 3rd Tuesdays 2:00 ET, except where noted)

June 16, 2020

2022 Sunsets: Aquatic plant extracts (other than hydrolyzed) (EO) - discuss review/vote
Ammonia Extract (DM) - Petition sufficiency/TR determination
2023 sunset substances (ALL) - TR determinations

July 7, 2020

2022 Sunsets: Arsenic (JB) - discuss review/vote
2022 Sunsets: Strychnine (JB) - discuss review/vote
Kasugamycin(SE) - Petition sufficiency
Liquid fish annotation (EO) - Discuss proposal

July 21, 2020

2022 Sunsets: Vitamin D3. As rodenticides (WT) - discuss review/vote
2022 Sunsets: EPA List 4 - Inerts of Minimal Concern (AB/SE) - discuss review/vote
2022 Sunsets: Lignin sulfonate (RG) - discuss review/vote
Liquid fish annotation (EO) - Discuss proposal/vote
Biodegradable Biobased mulch annotation change (AB) - discuss/vote
Paper pots (SE) - Discuss proposal/vote
Research Priorities (DM) - Discuss and send to MS

August 4, 2020

Sodium carbonate lignin (RG) - Discuss draft proposal/vote
Chitosan (RG) - Discuss petition discussion doc
Ammonia Extract (DM) - Discuss petition discussion doc

August 18, 2020

September 1, 2020

September 15, 2020

October 6, 2020

October 20, 2020

November 3, 2020

November 17, 2020

December 1, 2020

December 15, 2020

Work Agenda

Petitioned Substances07

Substance	Contact	Doc Type	Notes	Scheduled, Discussed, Voted	Target meeting
Paper pots	SE	Proposal	Petition sent to CS 8.14.18. Petition suff/TR request due 10.13.18. Petition found sufficient 9.4.18. CS requested Lmt'd scope TR 3.5.19. TR due early August. TR sent to CS 7.26.19. TR sufficiency due 9.24.19. TR found suff 8.6.19. 2017 TR Newspaper	07.21.20	Fall 2020
Sodium carbonate lignin	RG	Proposal	Petition sent to CS 7.29.19. Petition suff/TR request due 9.27.19. Petition was found sufficient 9.17.19. Limited Scope TR requested 9.17.19/10.1.19. Revised request sent to NOP 11.5.19. Lignin sulfonate TR (2011) . TR sent to CS 04.10.20. Suff due 06.09.20. TR found sufficient 05.19.20	05.19.20 08.04.20	Fall 2020
Chitosan	RG	Petition discussion doc	Petition sent to CS 12.6.19. Petition suff/TR request due 2.4.20. Petition found sufficient/CS requested a TR 2.4.20. TR due back to CS mid-July.	08.04.20	Fall 2020
Biochar	EO/WT	Petition discussion doc	Petition sent to CS 12.19.19. Petition suff/TR request due 2.17.20. Petition found sufficient 2.4.20. CS requested TR 3.18.20. TR due back to late September.	03.17.20	Spr 2021
Ammonia Extract	DM	Petition discussion doc	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	06.16.20 08.04.20	
Kasugamycin	SE		Petition sent to CS 05.27.20. Petition found sufficient 07.07.20 and the CS requested a TR.	07.07.20	

Other Topics

Project	Contact	Doc Type	Notes*	Scheduled, Discussed, Voted	Target meeting
Liquid fish annotation	EO	Proposal	Approved by ES for addition to work agenda 5.18.18. Approved by NOP 9.13.18. TR requested 12.14.18. TR due late July. TR sent to CS 07.26.19. TR sufficiency due 9.24.19. TR was found sufficient 8.20.19.	07.07.20 07.21.20	Fall 2020

Biodegradable Biobased mulch annotation change	AB	Discussion document	Limited scope TR request sent to NOP 8.2.16. TR sent to CS on 12.28.16. TR Suff due 2.27.17. CS found TR suff 1.3.17. On hold pending further research. NOP sent response to CS about adding this to work agenda. Waiting for details from NOP based on the report from the cooperative agreement with Michigan State University. Report sent to NOSB 10.17.19. Memo from NOP to NOSB 10.16.19 noting - policy memo 15-1 removed from NOP Handbook.	07.21.20	Fall 2020
Research Priorities	DM/All	N/A	RPs due to MS 07.14.20	07.21.20	Fall 2020

*Yellow highlight indicates Subcommittee action needed. *Highlight indicates review completion

2022 Sunset Review: TR Requests (July 2019), Summary (Spr 2020), Review (Fall 2020)

Substance	National List	Contact	TR Request?	Notes*	Scheduled, Discussed, Voted	Target meeting
Soap-based algicide/demossers	205.601	RG	N	Sunset date: 3/15/2022 2015 TR 2015/Fall – Rec to Renew	06.02.20	Summary: Spr 2020 Review: Fall 2020
Ammonium carbonate	205.601	DM	N	Sunset date: 3/15/2022 TR: None 2015/Fall – Rec to Renew	06.02.20	“
Soaps, insecticidal	205.601	RG	Y	Sunset date: 3/15/2022 2004 TAP 2015/Fall – Rec to Renew TR sent to CS 1.3.20. Sufficiency due 3.3.20. TR found sufficient 1.16.20.	06.02.20	“
Vitamin D3. As rodenticides	205.601	WT	N	Sunset date: 3/15/2022 2011 TR 2015/Fall – Rec to Renew	07.21.20	“
Aquatic plant extracts (other than hydrolyzed)	205.601	EO	N	Sunset date: 3/15/2022 2016 TR Marine Plants & Algae 2006 TR Aquatic Plant Extracts 2015/Fall – Rec to Renew	06.16.20 07.07.20	“
Lignin sulfonate	205.601	RG	N	Sunset date: 3/15/2022 2011 TR Lignin sulfonate 2015/Fall - Rec to Renew	07.21.20	“
Sodium silicate	205.601	SE	N	Sunset date: 3/15/2022 2011 TR Sodium silicate 2015/Fall - Rec to Renew	06.02.20	“

EPA List 4—Inerts of Minimal Concern	205.601	AB/SE	N	Sunset date: 3/15/2022 TR: None 2015/Fall - Rec to Renew	07.21.20	“
Arsenic	205.602	JB	N	Sunset date: 3/15/2022 TR: None 2015/Fall - Rec to Renew	07.07.20	“
Strychnine	205.602	JB	N	Sunset date: 3/15/2022 TR: None 2015/Fall - Rec to Renew	07.07.20	“

Fall 2020 Milestones	Target dates (tentative)
NOP - Publish FRN, Open public comment	May 21, 2020
NOSB Request for TRs for 2023 sunset materials	Jul 23, 2020
NOP - Draft Fall 2020 NOSB meeting tentative agenda	Aug 1, 2020
NOSB - Fall 2020 proposals due to NOP	Aug 13, 2020
NOP - Post proposals	On or before Sep 2, 2020
Public comment closes	Oct 1, 2020
NOP - Send compiled public comments to NOSB	~Oct 9, 2020
Discuss/finalize work agendas on ES call	Sep 15, 2020
Public comment webinars	Oct 20 & 22, 2020
Fall 2020 NOSB meeting - Cedar Rapids, IA	Oct 27-29, 2020

2023 Sunset Review: TR Requests (July 2020), Summary (Spr 2021), Review (Fall 2021)

Substance	National List	Contact	TR Request?	Notes*	Scheduled, Discussed, Voted	Target meeting
Copper sulfate -for use as an algicide in aquatic rice systems	205.601(a)(3)	JD	N	Sunset date: 5/29/2023 2011 TR 2016/Fall - Rec to Renew	06.16.20	Summary: Spr 2021 Review: Fall 2021
Copper sulfate -for use as tadpole shrimp control in aquatic rice production	205.601(e)(4)	JD	N	Sunset date: 5/29/2023 2011 TR 2016/Fall - Rec to Renew	06.16.20	“
Ozone gas—for use as an irrigation system cleaner only.	205.601(a)(5)	RG	Y	Sunset date: 5/29/2023 2002 TR 2016/Fall - Rec to Renew	06.02.20	“

Peracetic acid for use in disinfecting equipment, seed, and asexually propagated planting material	205.601(a)(6)	WT	N	Sunset date: 5/29/2023 2016 TR 2016/Fall - Rec to Renew	06.16.20	“
Peracetic acid for use to control fire blight bacteria.	205.601(i)(8)	WT	N	Sunset date: 5/29/2023 2016 TR 2016/Fall - Rec to Renew	06.16.20	
EPA List 3—Inerts of unknown toxicity	205.601(m)(2)	AB/SE	N	Sunset date: 5/29/2023 TR - None 2016/Fall - Rec to Renew	06.16.20	“
Calcium chloride	205.602	SE	Low priority but Y if funding available	Sunset date: 5/29/2023 2001 TR 2016/Fall - Rec to Renew	06.16.20	“
Chlorine materials (i) Calcium hypochlorite. (ii) Chlorine dioxide. (iii) Hypochlorous acid - generated from electrolyzed water. (iv) Sodium hypochlorite	205.601(a)(2)	TBD	N	Sunset date: 1/28/2024 2006 TR 2011 TR 2016 TR Hypochlorous acid (Crops, Livestock, Handling) 2017 TR Limited scope (Livestock) 2016/Spring - Rec to ADD Hypochlorous Acid	06.02.20	“
Magnesium oxide (CAS # 1309-48-4)	205.601(j)(5)	DM	Y?	Sunset date: 1/28/2024 TR - None 2014/Spring - Rec to ADD	06.16.20	“
Rotenone (CAS # 83-79-4).	205.602(f) 205.601(a)(3)	DM	N	Sunset date: 1/28/2024 TR - None 2012/Fall - Rec to ADD	06.16.20	“

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 16, 2020 2:00 pm ET

Present: Rick Greenwood (RG), Vice Chair; Emily Oakley (EO); Jerry D'Amore (JD); Asa Bradman (AB); Wood Turner (WT); Steve Ela (SE)

Absent: Jesse Buie (JB), Chair; Dave Mortensen (DM)

Staff: Michelle Arsenault (MA); Devon Pattillo (DP); Jared Clark (JC)

Agenda

- June 2 notes
- 2022 Sunsets: Aquatic plant extracts (other than hydrolyzed) (EO) - discuss review/vote
- Ammonia Extract - Petition sufficiency/TR determination
- 2023 sunset substances (ALL) - TR determinations
- Additional Items
- Adjourn

Discussion

- **June 2 notes** were accepted as is.
2022 Sunsets: Aquatic plant extracts (other than hydrolyzed) (EO). The lead summarized the uses, review history, and public comment for aquatic plant extracts. Public comment indicates that many growers are using aquatic plant extracts and the CS is not seeking to remove them. The NOSB will be exploring environmental impacts of the broader category of marine materials in a separate proposal at the Fall meeting. The lead received a comment from a manufacturer indicating an inaccurate reference in the TR, and will review the original article prior to the final review.

Motion to remove aquatic plant extracts at §205.601

Motion by: EO

Seconded by: WT

Yes: 1 No: 3 Abstain: 2 Absent: 2 Recuse: 0

- **Ammonia Extract (SE for DM).** The petition was deemed sufficient, comprehensive, and clear. The CS will request a TR and will forward additional questions for the TR contractor to the NOP.
- **2023 sunset substances (ALL) - TR determinations.** The Crops Subcommittee requested two TRs for sunset substances. See table below
- **Additional Items.** None.
- **The meeting was adjourned.**

[Previous CS Notes](#)

Future call schedule (1st and 3rd Tuesdays 2:00 ET, except where noted)

June 2, 2020

Schedule dates for TR determination for 2023 sunset reviews

Schedule discussions for petitioned substances and "other" projects

Assign lead and discussion date for 2022 Sunsets: Chlorine Materials

2022 Sunsets: Soap-based algicide/demosers (RG) - discuss review/vote

2022 Sunsets: Soaps, insecticidal (RG) - discuss review/vote

2022 Sunsets: Ammonium carbonate (DM) - discuss review/vote

2022 Sunsets: Sodium silicate (SE) - discuss review/vote

June 16, 2020

2022 Sunsets: Aquatic plant extracts (other than hydrolyzed) (EO) - discuss review/vote

Ammonia Extract (DM) - Petition sufficiency/TR determination

2023 sunset substances (ALL) - TR determinations

July 7, 2020

2022 Sunsets: Arsenic (JB) - discuss review/vote

2022 Sunsets: Strychnine (JB) - discuss review/vote

Kasugamycin(SE) - Petition sufficiency

Liquid fish annotation (EO) - Discuss proposal

Research Priorities (DM) - Vote and send to MS

July 21, 2020

2022 Sunsets: Vitamin D3. As rodenticides (WT) - discuss review/vote

2022 Sunsets: EPA List 4 - Inerts of Minimal Concern (AB/SE) - discuss review/vote

2022 Sunsets: Lignin sulfonate (RG) - discuss review/vote

Biodegradable Biobased mulch annotation change (AB) - discuss

Paper pots (SE) - Discuss proposal/Vote

August 4, 2020

Sodium carbonate lignin (RG) - Discuss draft proposal/vote

Chitosan (RG) - Discuss petition discussion doc

Biochar (EO/WT) - Discuss petition discussion doc

Ammonia Extract (DM) - Discuss petition discussion doc

August 18, 2020

September 1, 2020

September 15, 2020

October 6, 2020

October 20, 2020

November 3, 2020

November 17, 2020

December 1, 2020

December 15, 2020

Work Agenda

Petitioned Substances

Substance	Contact	Doc Type	Notes	Scheduled, Discussed, Voted	Target meeting
Paper pots	SE	Proposal	Petition sent to CS 8.14.18. Petition suff/TR request due 10.13.18. Petition found sufficient 9.4.18. CS requested Lmt'd scope TR 3.5.19. TR due early August. TR sent to CS 7.26.19. TR sufficiency due 9.24.19. TR found suff 8.6.19. 2017 TR Newspaper	07.21.20	Fall 2020

Sodium carbonate lignin	RG	Proposal	Petition sent to CS 7.29.19. Petition suff/TR request due 9.27.19. Petition was found sufficient 9.17.19. Limited Scope TR requested 9.17.19/10.1.19. Revised request sent to NOP 11.5.19. Lignin sulfonate TR (2011) . TR sent to CS 04.10.20. Suff due 06.09.20. TR found sufficient 05.19.20	05.19.20 08.04.20	Fall 2020
Chitosan	RG	Petition discussion doc	Petition sent to CS 12.6.19. Petition suff/TR request due 2.4.20. Petition found sufficient/CS requested a TR 2.4.20. TR due back to CS mid-July.	08.04.20	Fall 2020
Biochar	EO/WT	Petition discussion doc	Petition sent to CS 12.19.19. Petition suff/TR request due 2.17.20. Petition found sufficient 2.4.20. CS requested TR 3.18.20. TR due back to late September.	03.17.20	Spr 2021
Ammonia Extract	DM	Petition discussion doc	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	06.16.20	
Kasugamycin	SE		Petition sent to CS 05.27.20. Petition suff/TR request due 7.27.20.	07.07.20	

Other Topics

Project	Contact	Doc Type	Notes*	Scheduled, Discussed, Voted	Target meeting
Liquid fish annotation	EO	Proposal	Approved by ES for addition to work agenda 5.18.18. Approved by NOP 9.13.18. TR requested 12.14.18. TR due late July. TR sent to CS 07.26.19. TR sufficiency due 9.24.19. TR was found sufficient 8.20.19.	07.07.20	Fall 2020
Biodegradable Biobased mulch annotation change	AB	Discussion document	Limited scope TR request sent to NOP 8.2.16. TR sent to CS on 12.28.16. TR Suff due 2.27.17. CS found TR suff 1.3.17. On hold pending further research. NOP sent response to CS about adding this to work agenda. Waiting for details from NOP based on the report from the cooperative agreement with Michigan State University. Report sent to NOSB 10.17.19	07.21.20	Fall 2020
Research Priorities	DM/All	N/A	RPs due to MS 07.14.20	07.07.20	Fall 2020

*Yellow highlight indicates Subcommittee action needed. *Highlight indicates review completion

2022 Sunset Review: TR Requests (July 2019), Summary (Spr 2020), Review (Fall 2020)

Substance	National List	Contact	TR Request?	Notes*	Scheduled, Discussed, Voted	Target meeting
Soap-based algicide/demossers	205.601	RG	N	Sunset date: 3/15/2022 2015 TR 2015/Fall – Rec to Renew	06.02.20	Summary: Spr 2020 Review: Fall 2020
Ammonium carbonate	205.601	DM	N	Sunset date: 3/15/2022 TR: None 2015/Fall – Rec to Renew	06.02.20	“
Soaps, insecticidal	205.601	RG	Y	Sunset date: 3/15/2022 2004 TAP 2015/Fall – Rec to Renew TR sent to CS 1.3.20. Sufficiency due 3.3.20. TR found sufficient 1.16.20.	06.02.20	“
Vitamin D3. As rodenticides	205.601	WT	N	Sunset date: 3/15/2022 2011 TR 2015/Fall – Rec to Renew	07.21.20	“
Aquatic plant extracts (other than hydrolyzed)	205.601	EO	N	Sunset date: 3/15/2022 2016 TR Marine Plants & Algae 2006 TR Aquatic Plant Extracts 2015/Fall – Rec to Renew	06.16.20	“
Lignin sulfonate	205.601	RG	N	Sunset date: 3/15/2022 2011 TR Lignin sulfonate 2015/Fall - Rec to Renew	07.21.20	“
Sodium silicate	205.601	SE	N	Sunset date: 3/15/2022 2011 TR Sodium silicate 2015/Fall - Rec to Renew	06.02.20	“
EPA List 4—Inerts of Minimal Concern	205.601	AB/SE	N	Sunset date: 3/15/2022 TR: None 2015/Fall - Rec to Renew	07.21.20	“
Arsenic	205.602	JB	N	Sunset date: 3/15/2022 TR: None 2015/Fall - Rec to Renew	07.07.20	“
Strychnine	205.602	JB	N	Sunset date: 3/15/2022 TR: None 2015/Fall - Rec to Renew	07.07.20	“

Fall 2020 Milestones	Target dates (tentative)
NOP - Publish FRN, Open public comment	May 21, 2020
NOSB Request for TRs for 2023 sunset materials	Jul 23, 2020
NOP - Draft Fall 2020 NOSB meeting tentative agenda	Aug 1, 2020
NOSB - Fall 2020 proposals due to NOP	Aug 13, 2020

NOP - Post proposals	On or before Sep 2, 2020
Public comment closes	Oct 1, 2020
NOP - Send compiled public comments to NOSB	~Oct 9, 2020
Discuss/finalize work agendas on ES call	Sep 15, 2020
Public comment webinars	Oct 20 & 22, 2020
Fall 2020 NOSB meeting - Cedar Rapids, IA	Oct 27-29, 2020

2023 Sunset Review: TR Requests (July 2020), Summary (Spr 2021), Review (Fall 2021)

Substance	National List	Contact	TR Request?	Notes*	Scheduled, Discussed, Voted	Target meeting
Copper sulfate -for use as an algicide in aquatic rice systems	205.601(a)(3)	JD	N	Sunset date: 5/29/2023 2011 TR 2016/Fall - Rec to Renew	06.16.20	Summary: Spr 2021 Review: Fall 2021
Copper sulfate -for use as tadpole shrimp control in aquatic rice production	205.601(e)(4)	JD	N	Sunset date: 5/29/2023 2011 TR 2016/Fall - Rec to Renew	06.16.20	"
Ozone gas—for use as an irrigation system cleaner only.	205.601(a)(5)	RG	Y	Sunset date: 5/29/2023 2002 TR 2016/Fall - Rec to Renew	06.02.20	"
Peracetic acid for use in disinfecting equipment, seed, and asexually propagated planting material	205.601(a)(6)	WT	N	Sunset date: 5/29/2023 2016 TR 2016/Fall - Rec to Renew	06.16.20	"
Peracetic acid for use to control fire blight bacteria.	205.601(i)(8)	WT	N	Sunset date: 5/29/2023 2016 TR 2016/Fall - Rec to Renew	06.16.20	
EPA List 3—Inerts of unknown toxicity	205.601(m)(2)	AB/SE	N	Sunset date: 5/29/2023 TR - None 2016/Fall - Rec to Renew	06.16.20	"
Calcium chloride	205.602	SE	Low priority but Y if funding available	Sunset date: 5/29/2023 2001 TR 2016/Fall - Rec to Renew	06.16.20	"

Chlorine materials (i) Calcium hypochlorite. (ii) Chlorine dioxide. (iii) Hypochlorous acid - generated from electrolyzed water. (iv) Sodium hypochlorite	205.601(a)(2)	TBD	N	Sunset date: 1/28/2024 2006 TR 2011 TR 2016 TR Hypochlorous acid (Crops, Livestock, Handling) 2017 TR Limited scope (Livestock) 2016/Spring - Rec to ADD Hypochlorous Acid	06.02.20	“
Magnesium oxide (CAS # 1309-48-4)	205.601(j)(5)	DM	N	Sunset date: 1/28/2024 TR - None 2014/Spring - Rec to ADD	06.16.20	“
Rotenone (CAS # 83-79-4).	205.602(f) 205.601(a)(3)	DM	N	Sunset date: 1/28/2024 TR - None 2012/Fall - Rec to ADD	06.16.20	“

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 2, 2020 2:00 pm ET

Present: Jesse Buie (JB), Chair; Rick Greenwood (RG), Vice Chair; Emily Oakley (EO); Jerry D'Amore (JD); Asa Bradman (AB); Wood Turner (WT); Steve Ela (SE); Dave Mortensen (DM)

Absent: None

Staff: Michelle Arsenault (MA); Devon Pattillo (DP)

Agenda

- May 19 notes
- Schedule dates for TR determination for 2023 sunset reviews
- Schedule discussions for petitioned substances and "other" projects
- Assign lead and discussion date for 2022 Sunsets: Chlorine Materials
- 2022 Sunsets: Soap-based algicide/demossers (RG) - discuss review/vote
- 2022 Sunsets: Soaps, insecticidal (RG) - discuss review/vote
- 2022 Sunsets: Ammonium carbonate (DM) - discuss review/vote
- 2022 Sunsets: Sodium silicate (SE) - discuss review/vote
- Additional Items
- Adjourn

Discussion

- **May 19 notes** were accepted as written.
- **TR determinations for 2023 sunset reviews.** See table below. Two substances were discussed during today's call, and the remainder were scheduled for June 16.
- **Schedule discussions for petitioned substances and "other" projects.** See table below for discussion dates.
- **Assign lead and discussion date for 2022 Sunsets: Chlorine Materials.** A lead will be assigned on a future call. The CS determined there was no need for a TR.
- **2022 Sunsets: Soap-based algicide/demossers (RG).** The lead noted the manufacture and uses of soap-based algicide/demossers, and that it has no human health issues. It is currently in wide use, indicated by comments submitted at the Spring NOSB meeting. The CS proceeded to a vote.

Motion to remove soap-based algicide/demossers at 205.601

Motion by: RG

Seconded by: SE

Additional discussion: None

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

- **2022 Sunsets: Soaps, insecticidal (RG).** The lead summarized the uses, noting the similarities to soap based algicides/demossers. Insecticidal soaps are used internationally, found to have low toxicity, degrade quickly in soil, and are considered benign and non-toxic to desirable insects. A member noted that they could have deleterious effects to aquatic animals but that is minimal. There were no negative comments during last review.

Motion to remove soaps, insecticidal at 205.601

Motion by: RG

Seconded by: DM

Additional discussion: None

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

- **2022 Sunsets: Ammonium carbonate (DM).** The lead summarized the uses of ammonium carbonate, noting it's used as an insect trap. Several questions were put forth to commenters at the Spring meeting and the responses to those questions were summarized. There was a fair amount of comment about use of ammonium carbonate on-farm. There seems to be little information about efficacy on non-beneficial insects, or deleterious effects to non-target species, although likely that is minimal, as ammonium carbonate does not have contact with soil or water. Members made some minor suggestions for edits and the CS voted on the review.

Motion to remove ammonium carbonate at 205.601

Motion by: DM

Seconded by: EO

Additional discussion: None

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

- **2022 Sunsets: Sodium silicate (SE).** The lead summarized the use and background of sodium silicate, which is considered GRAS (Generally Regarded As Safe), benign, and has wide support.

Motion to remove sodium silicate at 205.601

Motion by: SE

Seconded by: WT

Additional discussion: None

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

- **Additional Items.** DM will review the comments submitted at the Spring meeting on the Crops Research Priorities to determine if the Subcommittee needs to do anything additional for the Fall meeting.
- **The meeting was adjourned.**

[Previous CS Notes](#)

Future call schedule (1st and 3rd Tuesdays 2:00 ET, except where noted)

May 19, 2020

June 2, 2020

Schedule dates for TR determination for 2023 sunset reviews

Schedule discussions for petitioned substances and "other" projects

Assign lead and discussion date for 2022 Sunsets: Chlorine Materials

2022 Sunsets: Soap-based algicide/demossers (RG) - discuss review/vote

2022 Sunsets: Soaps, insecticidal (RG) - discuss review/vote

2022 Sunsets: Ammonium carbonate (DM) - discuss review/vote

2022 Sunsets: Sodium silicate (SE) - discuss review/vote

June 16, 2020

2022 Sunsets: Vitamin D3. As rodenticides (WT) - discuss review/vote

2022 Sunsets: Aquatic plant extracts (other than hydrolyzed) (EO) - discuss review/vote

Ammonia Extract - Petition sufficiency/TR determination

2023 sunset substances (ALL) - TR determinations

July 7, 2020

2022 Sunsets: Arsenic (JB) - discuss review/vote

2022 Sunsets: Strychnine (JB) - discuss review/vote

Kasugamycin(SE) - Petition sufficiency
 Liquid fish annotation (EO) - Discuss proposal
 Research Priorities (DM) - Vote and send to MS

July 21, 2020

2022 Sunsets: EPA List 4 - Inerts of Minimal Concern (AB/SE) - discuss review/vote
 2022 Sunsets: Lignin sulfonate (RG) - discuss review/vote
 Biodegradable Biobased mulch annotation change (AB) - discuss
 Paper pots (SE) - Discuss proposal

August 4, 2020

Sodium carbonate lignin (RG). Discuss draft proposal

August 18, 2020

September 1, 2020

September 15, 2020

October 6, 2020

October 20, 2020

November 3, 2020

November 17, 2020

December 1, 2020

December 15, 2020

Work Agenda

Petitioned Substances

Substance	Contact	Doc Type	Notes	Scheduled, Discussed, Voted	Target meeting
Paper pots	SE	Proposal	Petition sent to CS 8.14.18. Petition suff/TR request due 10.13.18. Petition found sufficient 9.4.18. CS requested Lmt'd scope TR 3.5.19. TR due early August. TR sent to CS 7.26.19. TR sufficiency due 9.24.19. TR found suff 8.6.19. 2017 TR Newspaper	07.21.20	Fall 2020
Sodium carbonate lignin	RG	Proposal	Petition sent to CS 7.29.19. Petition suff/TR request due 9.27.19. Petition was found sufficient 9.17.19. Limited Scope TR requested 9.17.19/10.1.19. Revised request sent to NOP 11.5.19. Lignin sulfonate TR (2011) . TR sent to CS 04.10.20. Suff due 06.09.20. TR found sufficient 05.19.20	05.19.20 08.04.20	Fall 2020
Chitosan	RG	Proposal	Petition sent to CS 12.6.19. Petition suff/TR request due 2.4.20. Petition found sufficient/CS requested a TR 2.4.20. TR due back to CS late June.	TBD - pending TR	Fall 2020
Biochar	EO/WT	Disc doc?	Petition sent to CS 12.19.19. Petition suff/TR request due 2.17.20. Petition found sufficient 2.4.20. CS requested TR	TBD - pending TR	TBD

			3.18.20. TR due back to late September.		
Ammonia Extract	DM		Petition sent to CS 05.26.20. Petition suff/TR request due 7.24.20.	06.16.20	
Kasugamycin	SE		Petition sent to CS 05.27.20. Petition suff/TR request due 7.27.20.	07.07.20	

Other Topics

Project	Contact	Doc Type	Notes*	Scheduled, Discussed, Voted	Target meeting
Liquid fish annotation	EO	Proposal	Approved by ES for addition to work agenda 5.18.18. Approved by NOP 9.13.18. TR requested 12.14.18. TR due late July. TR sent to CS 07.26.19. TR sufficiency due 9.24.19. TR was found sufficient 8.20.19.	07.07.20	Fall 2020
Biodegradable Biobased mulch annotation change	AB	Discussion document	Limited scope TR request sent to NOP 8.2.16. TR sent to CS on 12.28.16. TR Suff due 2.27.17. CS found TR suff 1.3.17. On hold pending further research. NOP sent response to CS about adding this to work agenda. Waiting for details from NOP based on the report from the cooperative agreement with Michigan State University. Report sent to NOSB 10.17.19	07.21.20	Fall 2020
Research Priorities	DM/All	N/A	RPs due to MS 07.14.20	07.07.20	Fall 2020

*Yellow highlight indicates Subcommittee action needed. *Highlight indicates review completion

2022 Sunset Review: TR Requests (July 2019), Summary (Spr 2020), Review (Fall 2020)

Substance	National List	Contact	TR Request?	Notes*	Scheduled, Discussed, Voted	Target meeting
Soap-based algicide/demosers	205.601	RG	N	Sunset date: 3/15/2022 2015 TR 2015/Fall – Rec to Renew	06.02.20	Summary: Spr 2020 Review: Fall 2020
Ammonium carbonate	205.601	DM	N	Sunset date: 3/15/2022 TR: None 2015/Fall – Rec to Renew	06.02.20	“
Soaps, insecticidal	205.601	RG	Y	Sunset date: 3/15/2022 2004 TAP 2015/Fall – Rec to Renew TR sent to CS 1.3.20. Sufficiency due 3.3.20. TR found sufficient 1.16.20.	06.02.20	“

Vitamin D3. As rodenticides	205.601	WT	N	Sunset date: 3/15/2022 2011 TR 2015/Fall – Rec to Renew	06.16.20	“
Aquatic plant extracts (other than hydrolyzed)	205.601	EO	N	Sunset date: 3/15/2022 2016 TR Marine Plants & Algae 2006 TR Aquatic Plant Extracts 2015/Fall – Rec to Renew	06.16.20	“
Lignin sulfonate	205.601	RG	N	Sunset date: 3/15/2022 2011 TR Lignin sulfonate 2015/Fall - Rec to Renew	07.21.20	“
Sodium silicate	205.601	SE	N	Sunset date: 3/15/2022 2011 TR Sodium silicate 2015/Fall - Rec to Renew	06.02.20	“
EPA List 4—Inerts of Minimal Concern	205.601	AB/SE	N	Sunset date: 3/15/2022 TR: None 2015/Fall - Rec to Renew	07.21.20	“
Arsenic	205.602	JB	N	Sunset date: 3/15/2022 TR: None 2015/Fall - Rec to Renew	07.07.20	“
Strychnine	205.602	JB	N	Sunset date: 3/15/2022 TR: None 2015/Fall - Rec to Renew	07.07.20	“

Fall 2020 Milestones	Target dates (tentative)
NOP - Publish FRN, Open public comment	May 21, 2020
NOSB Request for TRs for 2023 sunset materials	Jul 23, 2020
NOP - Draft Fall 2020 NOSB meeting tentative agenda	Aug 1, 2020
NOSB - Fall 2020 proposals due to NOP	Aug 13, 2020
NOP - Post proposals	On or before Sep 2, 2020
Public comment closes	Oct 2, 2020
NOP - Send compiled public comments to NOSB	~Oct 9, 2020
Discuss/finalize work agendas on ES call	Sep 15, 2020
Public comment webinars	Oct 20 & 22, 2020
Fall 2020 NOSB meeting - Cedar Rapids, IA	Oct 27-29, 2020

2023 Sunset Review: TR Requests (July 2020), Summary (Spr 2021), Review (Fall 2021)

Substance	National List	Contact	TR Request?	Notes*	Scheduled, Discussed, Voted	Target meeting
-----------	---------------	---------	-------------	--------	-----------------------------	----------------

Copper sulfate -for use as an algicide in aquatic rice systems	205.601(a)(3)	JD		Sunset date: 5/29/2023 2011 TR 2016/Fall - Rec to Renew	06.16.20	Summary: Spr 2021 Review: Fall 2021
Copper sulfate -for use as tadpole shrimp control in aquatic rice production	205.601(e)(4)	JD		Sunset date: 5/29/2023 2011 TR 2016/Fall - Rec to Renew	06.16.20	“
Ozone gas—for use as an irrigation system cleaner only.	205.601(a)(5)	RG	Y	Sunset date: 5/29/2023 2002 TR 2016/Fall - Rec to Renew	06.02.20	“
Peracetic acid for use in disinfecting equipment, seed, and asexually propagated planting material	205.601(a)(6)	WT		Sunset date: 5/29/2023 2016 TR 2016/Fall - Rec to Renew	06.16.20	“
Peracetic acid for use to control fire blight bacteria.	205.601(i)(8)	WT		Sunset date: 5/29/2023 2016 TR 2016/Fall - Rec to Renew	06.16.20	
EPA List 3—Inerts of unknown toxicity	205.601(m)(2)	AB/SE		Sunset date: 5/29/2023 TR - None 2016/Fall - Rec to Renew	06.16.20	“
Calcium chloride	205.602(c)	SE		Sunset date: 5/29/2023 2001 TR 2016/Fall - Rec to Renew	06.16.20	“
Chlorine materials (i) Calcium hypochlorite. (ii) Chlorine dioxide. (iii) Hypochlorous acid—generated from electrolyzed water. (iv) Sodium hypochlorite	205.601(a)(2)	TBD	N	Sunset date: 1/28/2024 2006 TR 2011 TR 2016/Spring - Rec to ADD Hypochlorous Acid	06.02.20	“
Magnesium oxide (CAS # 1309-48-4)	205.601(j)(5)	DM		Sunset date: 1/28/2024 TR - None 2014/Spring - Rec to ADD	06.16.20	“
Rotenone (CAS # 83-79-4).	205.602(f) 205.601(a)(3)	DM		Sunset date: 1/28/2024 TR - None 2012/Fall - Rec to ADD	06.16.20	“

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 19, 2020 2:00 pm ET

Present: Jesse Buie (JB), Chair; Rick Greenwood (RG), Vice Chair; Emily Oakley (EO); Jerry D'Amore (JD); Asa Bradman (AB); Wood Turner (WT); Steve Ela (SE); Dave Mortensen (DM)

Absent: None

Staff: Michelle Arsenault (MA); Devon Pattillo (DP)

Agenda

- April 7 notes
- Sodium Carbonate lignin TR sufficiency
- Liquid fish annotation
- Schedule dates for discussion of 2022 sunset reviews
- Additional Items
- Adjourn

Discussion

- **April 7 notes** were approved as written
- **Sodium Carbonate lignin (RG).** The lead summarized the petitioned uses for sodium carbonate lignin as a dust suppressant, and noted international use and environmental benefits/detriments. The TR was deemed sufficient and the CS will proceed to a proposal for the Fall meeting. Discussion of the proposal is scheduled for August 4.
- **Liquid fish annotation (EO).** The lead discussed the liquid fish annotation project including information provided in the technical report. The initial question the NOSB was seeking to answer was if fish are deliberately being harvesting for use as fertilizer. The general consensus is that they are mainly used as fish feed, and not primarily as fertilizer in livestock feed. The group discussed how to move forward. The CS will develop a proposal for the Fall meeting based on the TR info and public comments. Members consider this an important topic, while acknowledging that there may be economic considerations the NOP and USDA will weigh that will prevent it from being implemented. Members discussed potential economic impacts and enforceability, and the lead will verify with a materials review institute about how they verify sources. Members will discuss the draft proposal on a future call.
- **Schedule dates for discussion of 2022 sunset reviews.** See table below.
- **Additional Items.** None.
- **The meeting was adjourned.**

[Previous CS Notes](#)

Future call schedule (1st and 3rd Tuesdays 2:00 ET, except where noted)

May 5, 2020 - cancelled

May 19, 2020

June 2, 2020

Schedule dates for TR determination for 2023 sunset reviews

Schedule discussions for petitioned substances and "other" projects

Assign lead and discussion date for 2022 Sunsets: Chlorine Materials

2022 Sunsets: Soap-based algicide/demossers (RG) - discuss review/vote

2022 Sunsets: Soaps, insecticidal (RG) - discuss review/vote

2022 Sunsets: Ammonium carbonate (DM) - discuss review/vote
 2022 Sunsets: Sodium silicate (SE) - discuss review/vote
 June 16, 2020
 2022 Sunsets: Vitamin D3. As rodenticides (WT) - discuss review/vote
 2022 Sunsets: Aquatic plant extracts (other than hydrolyzed) (EO) - discuss review/vote
 July 7, 2020
 2022 Sunsets: EPA List 4 - Inerts of Minimal Concern (AB/SE) - discuss review/vote
 2022 Sunsets: Arsenic (JB) - discuss review/vote
 2022 Sunsets: Strychnine (JB) - discuss review/vote
 July 21, 2020
 2022 Sunsets: Lignin sulfonate (RG) - discuss review/vote
 August 4, 2020
 Sodium carbonate lignin (RG). Discuss draft proposal.
 August 18, 2020
 September 1, 2020
 September 15, 2020
 October 6, 2020
 October 20, 2020
 November 3, 2020
 November 17, 2020
 December 1, 2020
 December 15, 2020

Work Agenda

Petitioned Substances

Substance	Contact	Doc Type	Notes	Scheduled, Discussed, Voted	Target meeting
Paper pots	SE	Proposal	Petition sent to CS 8.14.18. Petition suff/TR request due 10.13.18. Petition found sufficient 9.4.18. CS requested Lmt'd scope TR 3.5.19. TR due early August. TR sent to CS 7.26.19. TR sufficiency due 9.24.19. TR found suff 8.6.19. 2017 TR Newspaper		Fall 2020
Sodium carbonate lignin	RG	Proposal	Petition sent to CS 7.29.19. Petition suff/TR request due 9.27.19. Petition was found sufficient 9.17.19. Limited Scope TR requested 9.17.19/10.1.19. Revised request sent to NOP 11.5.19. Lignin sulfonate TR (2011) . TR sent to CS 04.10.20. Suff due 06.09.20. TR found sufficient 05.19.20	05.19.20 08.04.20	Fall 2020
Chitosan	RG	Proposal	Petition sent to CS 12.6.19. Petition suff/TR request due 2.4.20. Petition found sufficient/CS requested a TR 2.4.20. TR due back to CS late June.		Fall 2020

Biochar	EO/WT	Disc doc?	Petition sent to CS 12.19.19. Petition suff/TR request due 2.17.20. Petition found sufficient 2.4.20. CS requested TR 3.18.20. TR due back to late September.		TBD
---------	-------	-----------	---	--	-----

Other Topics

Project	Contact	Doc Type	Notes*	Scheduled, Discussed, Voted	Target meeting
Liquid fish annotation	EO	Proposal	Approved by ES for addition to work agenda 5.18.18. Approved by NOP 9.13.18. TR requested 12.14.18. TR due late July. TR sent to CS 07.26.19. TR sufficiency due 9.24.19. TR was found sufficient 8.20.19.		Fall 2020
Biodegradable Biobased mulch annotation change	AB	Discussion document	Limited scope TR request sent to NOP 8.2.16. TR sent to CS on 12.28.16. TR Suff due 2.27.17. CS found TR suff 1.3.17. On hold pending further research. NOP sent response to CS about adding this to work agenda. Waiting for details from NOP based on the report from the cooperative agreement with Michigan State University. Report sent to NOSB 10.17.19		Fall 2020
Research Priorities	DM/All	N/A	RPs due to MS 1.7.20		Fall 2020

*Yellow highlight indicates Subcommittee action needed. *Highlight indicates review completion

2022 Sunset Review: TR Requests (July 2019), Summary (Spr 2020), Review (Fall 2020)

Substance	National List	Contact	TR Request?	Notes*	Scheduled, Discussed, Voted	Target meeting
Soap-based algicide/demosers	205.601	RG	N	Sunset date: 3/15/2022 2015 TR 2015/Fall – Rec to Renew	06.02.20	Summary: Spr 2020 Review: Fall 2020
Ammonium carbonate	205.601	DM	N	Sunset date: 3/15/2022 TR: None 2015/Fall – Rec to Renew	06.02.20	“
Soaps, insecticidal	205.601	RG	Y	Sunset date: 3/15/2022 2004 TAP 2015/Fall – Rec to Renew TR sent to CS 1.3.20. Sufficiency due 3.3.20. TR found sufficient 1.16.20.	06.02.20	“

Vitamin D3. As rodenticides	205.601	WT	N	Sunset date: 3/15/2022 2011 TR 2015/Fall – Rec to Renew	06.16.20	“
Aquatic plant extracts (other than hydrolyzed)	205.601	EO	N	Sunset date: 3/15/2022 2016 TR Marine Plants & Algae 2006 TR Aquatic Plant Extracts 2015/Fall – Rec to Renew	06.16.20	“
Lignin sulfonate	205.601	RG	N	Sunset date: 3/15/2022 2011 TR Lignin sulfonate 2015/Fall - Rec to Renew	07.21.20	“
Sodium silicate	205.601	SE	N	Sunset date: 3/15/2022 2011 TR Sodium silicate 2015/Fall - Rec to Renew	06.02.20	“
EPA List 4—Inerts of Minimal Concern	205.601	AB/ SE	N	Sunset date: 3/15/2022 TR: None 2015/Fall - Rec to Renew	07.07.20	“
Arsenic	205.602	JB	N	Sunset date: 3/15/2022 TR: None 2015/Fall - Rec to Renew	07.07.20	“
Strychnine	205.602	JB	N	Sunset date: 3/15/2022 TR: None 2015/Fall - Rec to Renew	07.07.20	“

Fall 2020 Milestones	Target dates (tentative)
NOP - Publish FRN, Open public comment	May 21, 2020
NOSB Request for TRs for 2023 sunset materials	Jul 23, 2020
NOP - Draft Fall 2020 NOSB meeting tentative agenda	Aug 1, 2020
NOSB - Fall 2020 proposals due to NOP	Aug 13, 2020
NOP - Post proposals	On or before Sep 2, 2020
Public comment closes	Oct 2, 2020
NOP - Send compiled public comments to NOSB	~Oct 9, 2020
Discuss/finalize work agendas on ES call	Sep 15, 2020
Public comment webinars	Oct 20 & 22, 2020
Fall 2020 NOSB meeting - Cedar Rapids, IA	Oct 27-29, 2020

2023 Sunset Review: TR Requests (July 2020), Summary (Spr 2021), Review (Fall 2021)

Substance	National List	Contact	TR Request?	Notes*	Scheduled, Discussed, Voted	Target meeting
-----------	---------------	---------	-------------	--------	-----------------------------	----------------

Copper sulfate -for use as an algicide in aquatic rice systems	205.601(a)(3)	JD		Sunset date: 5/29/2023 2011 TR 2016/Fall - Rec to Renew		Summary: Spr 2021 Review: Fall 2021
Copper sulfate -for use as tadpole shrimp control in aquatic rice production	205.601(e)(4)	JD		Sunset date: 5/29/2023 2011 TR 2016/Fall - Rec to Renew		“
Ozone gas—for use as an irrigation system cleaner only.	205.601(a)(5)	RG		Sunset date: 5/29/2023 2002 TR 2016/Fall - Rec to Renew		“
Peracetic acid for use in disinfecting equipment, seed, and asexually propagated planting material	205.601(a)(6)	WT		Sunset date: 5/29/2023 2016 TR 2016/Fall - Rec to Renew		“
Peracetic acid for use to control fire blight bacteria.	205.601(i)(8)	WT		Sunset date: 5/29/2023 2016 TR 2016/Fall - Rec to Renew		
EPA List 3—Inerts of unknown toxicity	205.601(m)(2)	AB/SE		Sunset date: 5/29/2023 TR - None 2016/Fall - Rec to Renew		“
Calcium chloride	205.602(c)	SE		Sunset date: 5/29/2023 2001 TR 2016/Fall - Rec to Renew		“
Chlorine materials (i) Calcium hypochlorite. (ii) Chlorine dioxide. (iii) Hypochlorous acid—generated from electrolyzed water. (iv) Sodium hypochlorite	205.601(a)(2)			Sunset date: 1/28/2024 2006 TR 2011 TR 2016/Spring - Rec to ADD Hypochlorous Acid		“
Magnesium oxide (CAS # 1309-48-4)	205.601(j)(5)	DM		Sunset date: 1/28/2024 TR - None 2014/Spring - Rec to ADD		“
Rotenone (CAS # 83-79-4).	205.602(f) 205.601(a)(3)	DM		Sunset date: 1/28/2024 TR - None 2012/Fall - Rec to ADD		“

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 7, 2020 2:00 pm ET

Present: Jesse Buie (JB), Chair; Rick Greenwood (RG), Vice Chair; Emily Oakley (EO); Jerry D'Amore (JD); Asa Bradman (AB); Wood Turner (WT); Steve Ela (SE)

Absent: Dave Mortensen (DM)

Staff: Michelle Arsenault (MA); Devon Pattillo (DP)

Agenda

- March 17 notes
- Assign leads/Determine TR requests for 2023 sunsets
- Review public comments
- Additional Items
- Adjourn

Discussion

- **March 17 notes** were approved with a minor correction the name of the previous notes.
- **Assign leads/Determine TR requests for 2023 sunsets.** See table below for assignments.
- **Review public comments.** Members discussed the public comment review process.
- **Additional items.** The NOSB Chair provided logistical information about the Spring 2020 NOSB meeting, given that it will be held virtually instead of in person.
- **The meeting was adjourned.**

[Previous CS Notes](#)

Future call schedule (1st and 3rd Tuesdays 2:00 ET, except where noted)

March 17, 2020

2022 Sunset: Soaps, insecticidal (RG) - TR sufficiency due 3.3.20

Biochar petition (EO/WT) - Discuss proposal and potential TR request

April 7, 2020.

Assign leads/Determine TR requests for 2023 sunsets

Review public comments

April 21, 2020 - Public comment webinar

May 5, 2020

May 19, 2020

June 2, 2020

June 16, 2020

July 7, 2020

July 21, 2020

August 4, 2020

August 18, 2020

September 1, 2020

September 15, 2020

October 6, 2020

October 20, 2020

November 3, 2020

November 17, 2020

December 1, 2020
December 15, 2020

Work Agenda

Petitioned Substances

Substance	Contact	Doc Type	Notes	Scheduled, Discussed, Voted	Target meeting
Paper pots	SE	Proposal	Petition sent to CS 8.14.18. Petition suff/TR request due 10.13.18. Petition found sufficient 9.4.18. CS requested Lmt'd scope TR 3.5.19. TR due early August. TR sent to CS 7.26.19. TR sufficiency due 9.24.19. TR found suff 8.6.19. 2017 TR Newspaper	11.5.19 1.7.20 1.21.20	Spr 2020
Sodium carbonate lignin	RG	Proposal	Petition sent to CS 7.29.19. Petition suff/TR request due 9.27.19. Petition was found sufficient 9.17.19. Limited Scope TR requested 9.17.19/10.1.19. Revised request sent to NOP 11.5.19. Lignin sulfonate TR (2011)	11.5.19 TBD pending receipt of TR	Fall 2020
Chitosan	RG	Proposal	Petition sent to CS 12.6.19. Petition suff/TR request due 2.4.20. Petition found sufficient/CS requested a TR 2.4.20.	1.7.20 2.4.20	TBD
Biochar	EO/WT	Proposal	Petition sent to CS 12.19.19. Petition suff/TR request due 2.17.20. Petition found sufficient 2.4.20. CS requested TR 3.18.20	1.7.20 2.4.20 3.3.20 3.17.20	TBD

Other Topics

Project	Contact	Doc Type	Notes*	Scheduled, Discussed, Voted	Target meeting
Liquid fish annotation	EO	Discussion document	Approved by ES for addition to work agenda 5.18.18. Approved by NOP 9.13.18. TR requested 12.14.18. TR due late July. TR sent to CS 07.26.19. TR sufficiency due 9.24.19. TR was found sufficient 8.20.19.	11.5.19 11.19.19	Spr 2020
Biodegradable Biobased mulch annotation change	AB	Discussion document	Limited scope TR request sent to NOP 8.2.16. TR sent to CS on 12.28.16. TR Suff due 2.27.17. CS found TR suff 1.3.17. On hold pending further research. NOP sent response to CS	12.3.19 1.7.20 1.21.20	Spr 2020

			about adding this to work agenda. Waiting for details from NOP based on the report from the cooperative agreement with Michigan State University. Report sent to NOSB 10.17.19		
Research Priorities	DM/All	N/A	RPs due to MS 1.7.20	1.7.20 2.4.20	Fall 2020

*Yellow highlight indicates Subcommittee action needed. *Highlight indicates review completion

2022 Sunset Review: TR Requests (July 2019), Summary (Spr 2020), Review (Fall 2020)

Substance	National List	Contact	TR Request?	Notes*	Scheduled, Discussed, Voted	Target meeting
Soap-based algicide/demosers	205.601	RG	N	Sunset date: 3/15/2022 2015 TR 2015/Fall – Rec to Renew	12.17.19	Summary: Spr 2020 Review: Fall 2020
Ammonium carbonate	205.601	DM	N	Sunset date: 3/15/2022 TR: None 2015/Fall – Rec to Renew	2.18.20	“
Soaps, insecticidal	205.601	RG	Y	Sunset date: 3/15/2022 2004 TAP 2015/Fall – Rec to Renew TR sent to CS 1.3.20. Sufficiency due 3.3.20. TR found sufficient 1.16.20.	12.17.19 3.17.20	“
Vitamin D3. As rodenticides	205.601	WT	N	Sunset date: 3/15/2022 2011 TR 2015/Fall – Rec to Renew	12.17.19	“
Aquatic plant extracts (other than hydrolyzed)	205.601	EO	N	Sunset date: 3/15/2022 2016 TR Marine Plants & Algae 2006 TR Aquatic Plant Extracts 2015/Fall – Rec to Renew	1.21.19	“
Lignin sulfonate— chelating agent, dust suppressant	205.601	RG	N	Sunset date: 3/15/2022 2011 TR Lignin sulfonate 2015/Fall - Rec to Renew	12.17.19	“
Sodium silicate (As floating agents in postharvest handling)	205.601	SE	N	Sunset date: 3/15/2022 2011 TR Sodium silicate 2015/Fall - Rec to Renew	1.7.20	“
EPA List 4—Inerts of Minimal Concern	205.601	AB/ SE	N	Sunset date: 3/15/2022 TR: None 2015/Fall - Rec to Renew	1.21.20	“
Arsenic	205.602	JB	N	Sunset date: 3/15/2022 TR: None 2015/Fall - Rec to Renew	12.3.19	“

Strychnine	205.602	JB	N	Sunset date: 3/15/2022 TR: None 2015/Fall - Rec to Renew	12.3.19	“
------------	---------	----	---	--	---------	---

Spring 2020 Milestones	Target dates (tentative)
NOP - Publish FRN, Open public comment	Dec 9, 2019
NOSB - Spring 2020 proposals due to NOP	Feb 20, 2020
New NOSB member training	Feb 25 - 26, 2020
NOP - Draft Spring 2020 NOSB meeting tentative agenda	Mar 2, 2020
NOP - Post proposals	Mar 5, 2020
Public comment closes	Apr 3, 2020
NOP - Send compiled public comments to NOSB	Apr 7, 2020
Public comment webinars	Apr 21 & 23, 2020
Spring 2020 NOSB meeting - Crystal City, VA	Apr 28 - May 1, 2020

Fall 2020 Milestones	Target dates (tentative)
NOP - Publish FRN, Open public comment	May 21, 2020
NOSB Request for TRs for 2023 sunset materials	Jul 23, 2020
NOP - Draft Fall 2020 NOSB meeting tentative agenda	Aug 1, 2020
NOSB - Fall 2020 proposals due to NOP	Aug 13, 2020
NOP - Post proposals	On or before Sep 2, 2020
Public comment closes	Oct 2, 2020
NOP - Send compiled public comments to NOSB	~Oct 9, 2020
Discuss/finalize work agendas on ES call	Sep 15, 2020
Public comment webinars	Oct 20 & 22, 2020
Fall 2020 NOSB meeting - Cedar Rapids, IA	Oct 27-29, 2020

2023 Sunset Review: TR Requests (July 2020), Summary (Spr 2021), Review (Fall 2021)

Substance	National List	Contact	TR Request?	Notes*	Scheduled, Discussed, Voted	Target meeting
Copper sulfate -for use as an algicide in aquatic rice systems	205.601(a)(3)	JD		Sunset date: 5/29/2023 2011 TR 2016/Fall - Rec to Renew	4.7.20	Summary: Spr 2021 Review: Fall 2021
Copper sulfate -for use as tadpole shrimp control in aquatic rice production	205.601(e)(4)	JD		Sunset date: 5/29/2023 2011 TR 2016/Fall - Rec to Renew	4.7.20	“
Ozone gas—for use as an irrigation system cleaner only.	205.601(a)(5)	RG		Sunset date: 5/29/2023 2002 TR 2016/Fall - Rec to Renew	4.7.20	“
Peracetic acid for use in disinfecting equipment, seed, and asexually propagated planting material	205.601(a)(6)	WT		Sunset date: 5/29/2023 2016 TR 2016/Fall - Rec to Renew	4.7.20	“
Peracetic acid for use to control fire blight bacteria.	205.601(i)(8)	WT		Sunset date: 5/29/2023 2016 TR 2016/Fall - Rec to Renew	4.7.20	
EPA List 3—Inerts of unknown toxicity	205.601(m)(2)	AB/SE		Sunset date: 5/29/2023 TR - None 2016/Fall - Rec to Renew	4.7.20	“
Calcium chloride	205.602(c)	SE		Sunset date: 5/29/2023 2001 TR 2016/Fall - Rec to Renew	4.7.20	“
Hypochlorous acid	205.601(a)(2)(iii)			Sunset date: 1/28/2024 2015 TR 2016/Spring - Rec to ADD		“
Magnesium oxide (CAS # 1309-48-4)	205.601(j)(5)	DM		Sunset date: 1/28/2024 TR - None 2014/Spring - Rec to ADD	4.7.20	“
Rotenone (CAS # 83-79-4).	205.602(f)	DM		Sunset date: 1/28/2024 TR - None 2012/Fall - Rec to ADD	4.7.20	“

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 17, 2020 2:00 pm ET

Present: Jesse Buie (JB), Chair; Rick Greenwood (RG), Vice Chair; Emily Oakley (EO); Jerry D'Amore (JD); Asa Bradman (AB); Wood Turner (WT); Steve Ela (SE)

Absent: Dave Mortensen (DM)

Staff: Michelle Arsenault (MA); Devon Pattillo (DP)

Agenda

- March 3 notes
- 2022 Sunset: Soaps, insecticidal (RG) - TR sufficiency due 3.3.20
- Biochar petition (EO/WT) - Discuss TR request
- Additional Items
- Adjourn

Discussion

- **March 3 notes** were accepted as written.
- **Biochar petition (EO/WT).** The leads facilitated a robust discussion about the TR questions and the HS will forward the questions to the NOP.
- **2022 Sunset: Soaps, insecticidal (RG).** The lead summarized the uses of insecticidal soaps and reiterated that the TR was found sufficient in January. The CS Chair will notify the NOP that the TR was found sufficient.
- **Additional items.** Members discussed the upcoming NOSB meeting in light of the restrictions on travel and public gatherings.
- **The meeting was adjourned.**

[Previous CS Notes](#)

Future call schedule (1st and 3rd Tuesdays 2:00 ET, except where noted)

March 3, 2020

Biochar petition (EO/WT) - Discuss proposal

March 17, 2020

2022 Sunset: Soaps, insecticidal (RG) - TR sufficiency due 3.3.20

Biochar petition (EO/WT) - Discuss proposal and potential TR request

April 7, 2020.

Assign leads/Determine TR requests for 2023 sunsets

Review public comments

April 21, 2020

May 5, 2020

May 19, 2020

June 2, 2020

June 16, 2020

July 7, 2020

July 21, 2020

August 4, 2020

August 18, 2020

September 1, 2020
 September 15, 2020
 October 6, 2020
 October 20, 2020
 November 3, 2020
 November 17, 2020
 December 1, 2020
 December 15, 2020

Work Agenda

Petitioned Substances

Substance	Contact	Doc Type	Notes	Scheduled, Discussed, Voted	Target meeting
Paper pots	SE	Proposal	Petition sent to CS 8.14.18. Petition suff/TR request due 10.13.18. Petition found sufficient 9.4.18. CS requested Lmt'd scope TR 3.5.19. TR due early August. TR sent to CS 7.26.19. TR sufficiency due 9.24.19. TR found suff 8.6.19. 2017 TR Newspaper.	11.5.19 1.7.20 1.21.20	Spr 2020
Sodium carbonate lignin	RG	Proposal	Petition sent to CS 7.29.19. Petition suff/TR request due 9.27.19. Petition was found sufficient 9.17.19. Limited Scope TR requested 9.17.19/10.1.19. Revised request sent to NOP 11.5.19. Lignin sulfonate TR (2011)	11.5.19 TBD pending receipt of TR	Fall 2020
Chitosan	RG	Proposal	Petition sent to CS 12.6.19. Petition suff/TR request due 2.4.20. Petition found sufficient/HS requested a TR 2.4.20.	1.7.20 2.4.20	TBD
Biochar	EO/WT	Proposal	Petition sent to CS 12.19.19. Petition suff/TR request due 2.17.20. Petition found sufficient 2.4.20.	1.7.20 2.4.20 3.3.20 3.17.20	TBD

Other Topics

Project	Contact	Doc Type	Notes*	Scheduled, Discussed, Voted	Target meeting
Liquid fish annotation	EO	Discussion document	Approved by ES for addition to work agenda 5.18.18. Approved by NOP 9.13.18. TR requested 12.14.18. TR due late July. TR sent to CS 07.26.19. TR sufficiency due 9.24.19. TR was found sufficient 8.20.19.	11.5.19 11.19.19	Spr 2020

Biodegradable Biobased mulch annotation change	AB	Discussion document	Limited scope TR request sent to NOP 8.2.16. TR sent to CS on 12.28.16. TR Suff due 2.27.17. CS found TR suff 1.3.17. On hold pending further research. NOP sent response to CS about adding this to work agenda. Waiting for details from NOP based on the report from the cooperative agreement with Michigan State University. Report sent to NOSB 10.17.19	12.3.19 1.7.20 1.21.20	Spr 2020
Research Priorities	DM/All	N/A	RPs due to MS 1.7.20	1.7.20 2.4.20	Fall 2020

*Yellow highlight indicates Subcommittee action needed. *Highlight indicates review completion

2022 Sunset Review: TR Requests (July 2019), Summary (Spr 2020), Review (Fall 2020)

Substance	National List	Contact	TR Request?	Notes*	Scheduled, Discussed, Voted	Target meeting
Soap-based algicide/demossers	205.601	RG	N	Sunset date: 3/15/2022 2015 TR 2015/Fall – Rec to Renew	12.17.19	Summary: Spr 2020 Review: Fall 2020
Ammonium carbonate	205.601	DM	N	Sunset date: 3/15/2022 TR: None 2015/Fall – Rec to Renew	2.18.20	“
Soaps, insecticidal	205.601	RG	Y	Sunset date: 3/15/2022 2004 TAP 2015/Fall – Rec to Renew TR sent to CS 1.3.20. Sufficiency due 3.3.20. TR found sufficient 1.16.20.	12.17.19 3.17.20	“
Vitamin D3. As rodenticides	205.601	WT	N	Sunset date: 3/15/2022 2011 TR 2015/Fall – Rec to Renew	12.17.19	“
Aquatic plant extracts (other than hydrolyzed)	205.601	EO	N	Sunset date: 3/15/2022 2016 TR Marine Plants & Algae 2006 TR Aquatic Plant Extracts 2015/Fall – Rec to Renew	1.21.19	“
Lignin sulfonate—chelating agent, dust suppressant	205.601	RG	N	Sunset date: 3/15/2022 2011 TR Lignin sulfonate 2015/Fall - Rec to Renew	12.17.19	“
Sodium silicate (As floating agents in postharvest handling)	205.601	SE	N	Sunset date: 3/15/2022 2011 TR Sodium silicate 2015/Fall - Rec to Renew	1.7.20	“
EPA List 4—Inerts of Minimal Concern	205.601	AB/ SE	N	Sunset date: 3/15/2022 TR: None 2015/Fall - Rec to Renew	1.21.20	“

Arsenic	205.602	JB	N	Sunset date: 3/15/2022 TR: None 2015/Fall - Rec to Renew	12.3.19	“
Strychnine	205.602	JB	N	Sunset date: 3/15/2022 TR: None 2015/Fall - Rec to Renew	12.3.19	“

Spring 2020 Milestones	Target dates (tentative)
NOP - Publish FRN, Open public comment	Dec 9, 2019
NOSB - Spring 2020 proposals due to NOP	Feb 20, 2020
New NOSB member training	Feb 25 - 26, 2020
NOP - Draft Spring 2020 NOSB meeting tentative agenda	Mar 2, 2020
NOP - Post proposals	Mar 5, 2020
Public comment closes	Apr 3, 2020
NOP - Send compiled public comments to NOSB	Apr 7, 2020
Public comment webinars	Apr 21 & 23, 2020
Spring 2020 NOSB meeting - Crystal City, VA	Apr 28 - May 1, 2020

Fall 2020 Milestones	Target dates (tentative)
NOP - Publish FRN, Open public comment	May 21, 2020
NOSB Request for TRs for 2023 sunset materials	Jul 23, 2020
NOP - Draft Fall 2020 NOSB meeting tentative agenda	Aug 1, 2020
NOSB - Fall 2020 proposals due to NOP	Aug 13, 2020
NOP - Post proposals	On or before Sep 2, 2020
Public comment closes	Oct 2, 2020
NOP - Send compiled public comments to NOSB	~Oct 9, 2020
Discuss/finalize work agendas on ES call	Sep 15, 2020
Public comment webinars	Oct 20 & 22, 2020
Fall 2020 NOSB meeting - Cedar Rapids, IA	Oct 27-29, 2020

2023 Sunset Review: TR Requests (July 2020), Summary (Spr 2021), Review (Fall 2021)

Substance	National List	Contact	TR Request?	Notes*	Scheduled, Discussed, Voted	Target meeting
Copper sulfate -for use as an algicide in aquatic rice systems	205.601(a)(3)			Sunset date: 5/29/2023 2011 TR 2016/Fall - Rec to Renew		Summary: Spr 2021 Review: Fall 2021
Copper sulfate -for use as tadpole shrimp control in aquatic rice production	205.601(e)(4)			Sunset date: 5/29/2023 2011 TR 2016/Fall - Rec to Renew		“
Ozone gas—for use as an irrigation system cleaner only.	205.601(a)(5)			Sunset date: 5/29/2023 2002 TR 2016/Fall - Rec to Renew		“
Peracetic acid for use in disinfecting equipment, seed, and asexually propagated planting material	205.601(a)(6)			Sunset date: 5/29/2023 2016 TR 2016/Fall - Rec to Renew		“
Peracetic acid for use to control fire blight bacteria.	205.601(i)(8)			Sunset date: 5/29/2023 2016 TR 2016/Fall - Rec to Renew		
EPA List 3—Inerts of unknown toxicity	205.601(m)(2)			Sunset date: 5/29/2023 TR - None 2016/Fall - Rec to Renew		“
Calcium chloride	205.602(c)			Sunset date: 5/29/2023 2001 TR 2016/Fall - Rec to Renew		“
Hypochlorous acid	205.601(a)(2)(iii)			Sunset date: 1/28/2024 2015 TR 2016/Spring - Rec to ADD		“
Magnesium oxide (CAS # 1309-48-4)	205.601(j)(5)			Sunset date: 1/28/2024 TR - None 2014/Spring - Rec to ADD		“
Squid byproducts	205.601(j)(10)			Sunset date: 1/28/2024 2016 TR 2016/Spring - Rec to ADD		“
Rotenone (CAS # 83-79-4).	205.602(f) 205.601(a)(3)			Sunset date: 1/28/2024 TR - None 2012/Fall - Rec to ADD		“

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 3, 2020 2:00 pm ET

Present: Jesse Buie (JB), Chair; Rick Greenwood (RG), Vice Chair; Emily Oakley (EO); Jerry D'Amore (JD); Asa Bradman (AB); Wood Turner (WT); Steve Ela (SE)

Absent: Dave Mortensen (DM)

Staff: Michelle Arsenault (MA); Devon Pattillo (DP)

Agenda

- February 18 notes
- Biochar petition (EO/WT) - Discuss proposal
- Additional Items
- Adjourn

Discussion

- **February 18 notes** were approved with no changes.
- **Biochar petition (EO/WT).** The CS discussed the biochar petition and possible environmental concerns. The lead noted that this material is listed as a prohibited natural. The CS may request a TR to aid in the review and will discuss this further on the March 17 call. The NOP will send the TR template to the members so they can determine if they would like to add specific questions, or if the standard questions would suffice.
- **Additional items.** None.
- **The meeting was adjourned.**

[Previous CS Notes](#)

Future call schedule (1st and 3rd Tuesdays 2:00 ET, except where noted)

February 18, 2020

Biochar petition (EO/WT) - Determine need for TR
2022 Sunsets: Ammonium carbonate (DM) - discuss

March 3, 2020

Biochar petition (EO/WT) - Discuss proposal

March 17, 2020

2022 Sunset: Soaps, insecticidal (RG) - TR sufficiency due 3.3.20
Biochar petition (EO/WT) - Discuss proposal and potential TR request

April 7, 2020.

Biochar petition (EO/WT) - Discuss TR request/proposal
Review public comments

April 21, 2020

May 5, 2020

May 19, 2020

June 2, 2020

June 16, 2020

July 7, 2020

July 21, 2020

August 4, 2020

August 18, 2020
 September 1, 2020
 September 15, 2020
 October 6, 2020
 October 20, 2020
 November 3, 2020
 November 17, 2020
 December 1, 2020
 December 15, 2020

Work Agenda
Petitioned Substances

Substance	Contact	Doc Type	Notes	Scheduled, Discussed, Voted	Target meeting
Paper pots	SE	Proposal	Petition sent to CS 8.14.18. Petition suff/TR request due 10.13.18. Petition found sufficient 9.4.18. CS requested Lmt'd scope TR 3.5.19. TR due early August. TR sent to CS 7.26.19. TR sufficiency due 9.24.19. TR found suff 8.6.19. 2017 TR Newspaper.	11.5.19 1.7.20 1.21.20	Spr 2020
Sodium carbonate lignin	RG	Proposal	Petition sent to CS 7.29.19. Petition suff/TR request due 9.27.19. Petition was found sufficient 9.17.19. Limited Scope TR requested 9.17.19/10.1.19. Revised request sent to NOP 11.5.19. Lignin sulfonate TR (2011)	11.5.19 TBD pending receipt of TR	Fall 2020
Chitosan	RG	Proposal	Petition sent to CS 12.6.19. Petition suff/TR request due 2.4.20. Petition found sufficient/HS requested a TR 2.4.20.	1.7.20 2.4.20	TBD
Biochar	EO/WT	Proposal	Petition sent to CS 12.19.19. Petition suff/TR request due 2.17.20. Petition found sufficient 2.4.20.	1.7.20 2.4.20 3.3.20 3.17.20	TBD

Other Topics

Project	Contact	Doc Type	Notes*	Scheduled, Discussed, Voted	Target meeting
Liquid fish annotation	EO	Discussion document	Approved by ES for addition to work agenda 5.18.18. Approved by NOP 9.13.18. TR requested 12.14.18. TR due late July. TR sent to CS 07.26.19. TR sufficiency due 9.24.19. TR was found sufficient 8.20.19.	11.5.19 11.19.19	Spr 2020

Biodegradable Biobased mulch annotation change	AB	Discussion document	Limited scope TR request sent to NOP 8.2.16. TR sent to CS on 12.28.16. TR Suff due 2.27.17. CS found TR suff 1.3.17. On hold pending further research. NOP sent response to CS about adding this to work agenda. Waiting for details from NOP based on the report from the cooperative agreement with Michigan State University. Report sent to NOSB 10.17.19	12.3.19 1.7.20 1.21.20	Spr 2020
Research Priorities	DM/All	N/A	RPs due to MS 1.7.20	1.7.20 2.4.20	Fall 2020

*Yellow highlight indicates Subcommittee action needed. *Highlight indicates review completion

TR Requests: July 2019, Summary: Spr 2020, Review: Fall 2020

Substance	National List	Contact	TR Request?	Notes*	Scheduled, Discussed, Voted	Target meeting
Soap-based algicide/demossers	205.601	RG	N	Sunset date: 3/15/2022 2015 TR 2015/Fall – Rec to Renew	12.17.19	Summary: Spr 2020 Review: Fall 2020
Ammonium carbonate	205.601	DM	N	Sunset date: 3/15/2022 TR: None 2015/Fall – Rec to Renew	2.18.20	“
Soaps, insecticidal	205.601	RG	Y	Sunset date: 3/15/2022 2004 TAP 2015/Fall – Rec to Renew TR sent to CS 1.3.20. Sufficiency due 3.3.20	12.17.19	“
Vitamin D3. As rodenticides	205.601	WT	N	Sunset date: 3/15/2022 2011 TR 2015/Fall – Rec to Renew	12.17.19	“
Aquatic plant extracts (other than hydrolyzed)	205.601	EO	N	Sunset date: 3/15/2022 2016 TR Marine Plants & Algae 2006 TR Aquatic Plant Extracts 2015/Fall – Rec to Renew	1.21.19	“
Lignin sulfonate—chelating agent, dust suppressant	205.601	RG	N	Sunset date: 3/15/2022 2011 TR Lignin sulfonate 2015/Fall - Rec to Renew	12.17.19	“
Sodium silicate (As floating agents in postharvest handling)	205.601	SE	N	Sunset date: 3/15/2022 2011 TR Sodium silicate 2015/Fall - Rec to Renew	1.7.20	“
EPA List 4—Inerts of Minimal Concern	205.601	AB/ SE	N	Sunset date: 3/15/2022 TR: None 2015/Fall - Rec to Renew	1.21.20	“

Arsenic	205.602	JB	N	Sunset date: 3/15/2022 TR: None 2015/Fall - Rec to Renew	12.3.19	“
Strychnine	205.602	JB	N	Sunset date: 3/15/2022 TR: None 2015/Fall - Rec to Renew	12.3.19	“

Spring 2020 Milestones	Target dates (tentative)
NOP - Publish FRN, Open public comment	Dec 9, 2019
NOSB - Spring 2020 proposals due to NOP	Feb 20, 2020
New NOSB member training	Feb 25 - 26, 2020
NOP - Draft Spring 2020 NOSB meeting tentative agenda	Mar 2, 2020
NOP - Post proposals	Mar 5, 2020
Public comment closes	Apr 3, 2020
NOP - Send compiled public comments to NOSB	Apr 7, 2020
Public comment webinars	Apr 21 & 23, 2020
Spring 2020 NOSB meeting - Crystal City, VA	Apr 28 - May 1, 2020

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 18, 2020 2:00 pm ET

Present: Rick Greenwood (RG), Vice Chair; Emily Oakley (EO); Jerry D'Amore (JD); Asa Bradman (AB)

Absent: Dave Mortensen (DM); Wood Turner (WT); Jesse Buie (JB), Chair; Steve Ela (SE)

Staff: Michelle Arsenault (MA)

Agenda

- February 4 notes
- 2022 Sunsets: Ammonium carbonate (DM) - discuss
- Biochar petition (EO) - Discuss TR request
- Additional Items
- Adjourn

Discussion

- **February 4 notes were accepted as is.**
- **2022 Sunsets:** Ammonium carbonate (DM). RG provided a summary of the review. Ammonium carbonate is used as a pest control for flies, and is used in very minute amounts in traps, and doesn't have concerning environmental issues. Members discussed non-target species and will add a question about beneficial insects. The section on international standards will also be completed before the CS sends the document to NOP for posting.
- **Biochar petition (EO).** The CS discussed a request for a TR and felt that it would likely not add any new information. The CS will discuss the petition on the next call with the intention of developing a proposal for the Fall meeting.
- **Additional items.**
 - The CS made some minor modifications to the EPA List 4 Inerts document and will move it forward to the NOP for the Spring meeting.
 - The CS will forward the final approved proposal on liquid fish to NOP
- **The meeting was adjourned.**

[Previous CS Notes](#)

Future call schedule (1st and 3rd Tuesdays 2:00 ET, except where noted)

February 4, 2020

2022 Sunsets: Ammonium carbonate (DM) - discuss

Biochar petition (EO) - petition sufficiency/TR request

Chitosan petition (RG) - petition sufficiency/TR request

February 18, 2020

Biochar petition (EO/WT) - Determine need for TR

2022 Sunsets: Ammonium carbonate (DM) - discuss

March 3, 2020

Biochar petition (EO/WT) - Discuss

March 17, 2020

April 7, 2020

April 21, 2020
 May 5, 2020
 May 19, 2020
 June 2, 2020
 June 16, 2020
 July 7, 2020
 July 21, 2020
 August 4, 2020
 August 18, 2020
 September 1, 2020
 September 15, 2020
 October 6, 2020
 October 20, 2020
 November 3, 2020
 November 17, 2020
 December 1, 2020
 December 15, 2020

Work Agenda

Petitioned Substances

Substance	Contact	Doc Type	Notes	Scheduled, Discussed, Voted	Target meeting
Paper pots	SE	Proposal	Petition sent to CS 8.14.18. Petition suff/TR request due 10.13.18. Petition found sufficient 9.4.18. CS requested Lmt'd scope TR 3.5.19. TR due early August. TR sent to CS 7.26.19. TR sufficiency due 9.24.19. TR found suff 8.6.19. 2017 TR Newspaper.	11.5.19 1.7.20 1.21.20	Spr 2020
Sodium carbonate lignin	RG	Proposal	Petition sent to CS 7.29.19. Petition suff/TR request due 9.27.19. Petition was found sufficient 9.17.19. Limited Scope TR requested 9.17.19/10.1.19. Revised request sent to NOP 11.5.19. Lignin sulfonate TR (2011)	11.5.19 TBD pending receipt of TR	Fall 2020
Chitosan	RG	Proposal	Petition sent to CS 12.6.19. Petition suff/TR request due 2.4.20. Petition found sufficient/HS requested a TR 2.4.20.	1.7.20 2.4.20	TBD
Biochar	EO/WT	Proposal	Petition sent to CS 12.19.19. Petition suff/TR request due 2.17.20. Petition found sufficient 2.4.20.	1.7.20 2.4.20 3.3.20	TBD

Other Topics

Project	Contact	Doc Type	Notes*	Scheduled, Discussed, Voted	Target meeting
Liquid fish annotation	EO	Discussion document	Approved by ES for addition to work agenda 5.18.18. Approved by NOP 9.13.18. TR requested 12.14.18. TR due late July. TR sent to CS 07.26.19. TR sufficiency due 9.24.19. TR was found sufficient 8.20.19.	11.5.19 11.19.19	Spr 2020
Biodegradable Biobased mulch annotation change	AB	Discussion document	Limited scope TR request sent to NOP 8.2.16. TR sent to CS on 12.28.16. TR Suff due 2.27.17. CS found TR suff 1.3.17. On hold pending further research. NOP sent response to CS about adding this to work agenda. Waiting for details from NOP based on the report from the cooperative agreement with Michigan State University. Report sent to NOSB 10.17.19	12.3.19 1.7.20 1.21.20	Spr 2020
Research Priorities	DM/All	N/A	RP's due to MS 1.7.20	1.7.20 2.4.20	Fall 2020

*Yellow highlight indicates Subcommittee action needed. *Highlight indicates review completion

TR Requests: July 2019, Summary: Spr 2020, Review: Fall 2020

Substance	National List	Contact	TR Request?	Notes*	Scheduled, Discussed, Voted	Target meeting
Soap-based algicide/demosers	205.601	RG	N	Sunset date: 3/15/2022 2015 TR 2015/Fall – Rec to Renew	12.17.19	Summary: Spr 2020 Review: Fall 2020
Ammonium carbonate	205.601	DM	N	Sunset date: 3/15/2022 TR: None 2015/Fall – Rec to Renew	2.18.20	“
Soaps, insecticidal	205.601	RG	Y	Sunset date: 3/15/2022 2004 TAP 2015/Fall – Rec to Renew TR sent to CS 1.3.20. Sufficiency due 3.3.20	12.17.19	“
Vitamin D3. As rodenticides	205.601	WT	N	Sunset date: 3/15/2022 2011 TR 2015/Fall – Rec to Renew	12.17.19	“
Aquatic plant extracts (other than hydrolyzed)	205.601	EO	N	Sunset date: 3/15/2022 2016 TR Marine Plants & Algae 2006 TR Aquatic Plant Extracts 2015/Fall – Rec to Renew	1.21.19	“

Lignin sulfonate— chelating agent, dust suppressant	205.601	RG	N	Sunset date: 3/15/2022 2011 TR Lignin sulfonate 2015/Fall - Rec to Renew	12.17.19	“
Sodium silicate (As floating agents in postharvest handling)	205.601	SE	N	Sunset date: 3/15/2022 2011 TR Sodium silicate 2015/Fall - Rec to Renew	1.7.20	“
EPA List 4—Inerts of Minimal Concern	205.601	AB/ SE	N	Sunset date: 3/15/2022 TR: None 2015/Fall - Rec to Renew	1.21.20	“
Arsenic	205.602	JB	N	Sunset date: 3/15/2022 TR: None 2015/Fall - Rec to Renew	12.3.19	“
Strychnine	205.602	JB	N	Sunset date: 3/15/2022 TR: None 2015/Fall - Rec to Renew	12.3.19	“

Spring 2020 Milestones	Target dates (tentative)
NOP - Publish FRN, Open public comment	Dec 9, 2019
NOSB - Spring 2020 proposals due to NOP	Feb 20, 2020
New NOSB member training	Feb 25 - 26, 2020
NOP - Draft Spring 2020 NOSB meeting tentative agenda	Mar 2, 2020
NOP - Post proposals	Mar 5, 2020
Public comment closes	Apr 3, 2020
NOP - Send compiled public comments to NOSB	Apr 7, 2020
Public comment webinars	Apr 21 & 23, 2020
Spring 2020 NOSB meeting - Crystal City, VA	Apr 28 - May 1, 2020

Note: Subcommittee notes may include preliminary discussions regarding substances considered for addition to or removal from the National List. Proposals must be voted on by the NOSB, to become recommendations to the USDA. They do not represent official National Organic Program (NOP) policy/regulations or NOSB recommendations. 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 4, 2020 2:00 pm ET**

Present: Jesse Buie (JB), Chair; Rick Greenwood (RG), Vice Chair; Steve Ela (SE); Asa Bradman (AB); Emily Oakley (EO); Jerry D'Amore (JD); Wood Turner (WT)

Absent: Dave Mortensen (DM)

Staff: Michelle Arsenault (MA); Devon Pattillo (DP)

Agenda

- January 21 notes
- 2022 Sunsets: EPA List 4 - Inerts of Minimal Concern
- Research Priorities - Final Discussion (EO)
- 2022 Sunsets: Ammonium carbonate (DM) - discuss
- Biochar petition (EO) - petition sufficiency/TR request
- Chitosan petition (RG) - petition sufficiency/TR request
- Reassign sunsets to new members.
- Additional Items
- Adjourn

Discussion

- **January 21 notes** were accepted without changes.
- **2022 Sunsets: EPA List 4 - Inerts of Minimal Concern (AB).** The lead made some modifications to the previous draft document and the group discussed the changes. He also noted that he has reached out to several stakeholders including a Material Review Organization (MRO) and the EPA SAFER Choice program. The CS discussed inviting someone from the EPA to address the NOSB at the Spring 2020 meeting to provide feedback on possible next steps. The NOSB Chair (SE) will write a request to send to the NOP.
- **Research Priorities - Final Discussion (EO).** There were no additional comments on the document. The lead will forward it to the liaison to the Materials Subcommittee.
- **2022 Sunsets: Ammonium carbonate (DM).** Deferred to next call.
- **Chitosan petition (RG).** The lead summarized the substance, noting that it has a wide array of uses. Additionally it has minimal to no environmental health concerns. The HS found the petition sufficient and given that the last TR was from 2004, will request a new one. The CS Chair will send an email to the NOP with the request.
- **Biochar petition (EO).** The lead summarized the petition and the CS deemed it sufficient. WT will assist with the review, and the CS will discuss the need for a TR on the next call.
- **Reassign sunsets to new members.** WT will lead the review on vitamin D3 - As rodenticides
- **Additional items.** None.
- **The meeting was adjourned.**

[Previous CS Notes](#)

Future Call Schedule (1st and 3rd Tuesdays 2:00 ET, except where noted)

January 21, 2020

2022 Sunsets: Aquatic plant extracts (other than hydrolyzed) (EO) - discuss

2022 Sunsets: EPA List 4 -Inerts of Minimal Concern (AB/SE) - discuss
 Biodegradable Biobased mulch annotation change discussion document (HB) - vote.
 Paper pots (SE/HB) - Discuss/vote
 Research priorities (All) - discuss

February 4, 2020

2022 Sunsets: Ammonium carbonate (DM) - discuss
 Biochar petition (EO) - petition sufficiency/TR request
 Chitosan petition (RG) - petition sufficiency/TR request

February 18, 2020

Biochar petition (EO/WT) - Determine need for TR
 2022 Sunsets: Ammonium carbonate (DM) - discuss

March 3, 2020

March 17, 2020

April 7, 2020

April 21, 2020

May 5, 2020

May 19, 2020

June 2, 2020

June 16, 2020

July 7, 2020

July 21, 2020

August 4, 2020

August 18, 2020

September 1, 2020

September 15, 2020

October 6, 2020

October 20, 2020

November 3, 2020

November 17, 2020

December 1, 2020

December 15, 2020

Work Agenda

Petitioned Substances					
Substance	Contact	Doc type	Notes	Discussed, Voted	Target meeting
Paper pots	SE	Proposal	Petition sent to CS 8.14.18. Petition suff/TR request due 10.13.18. Petition found sufficient 9.4.18. CS requested Lmt'd scope TR 3.5.19. TR due early August. TR sent to CS 7.26.19. TR sufficiency due 9.24.19. TR found suff 8.6.19. 2017 TR Newspaper.	11.5.19 1.7.20 1.21.20	Spr 2020

Sodium carbonate lignin	RG	Proposal	Petition sent to CS 7.29.19. Petition suff/TR request due 9.27.19. Petition was found sufficient 9.17.19. Limited Scope TR requested 9.17.19/10.1.19. Revised request sent to NOP 11.5.19. Lignin sulfonate TR (2011)	11.5.19 TBD pending receipt of TR	Fall 2020
Chitosan	RG	Proposal	Petition sent to CS 12.6.19. Petition suff/TR request due 2.4.20. Petition found sufficient/HS requested a TR 2.4.20.	1.7.20 2.4.20	TBD
Biochar	EO/WT	Proposal	Petition sent to CS 12.19.19. Petition suff/TR request due 2.17.20. Petition found sufficient 2.4.20.	1.7.20 2.4.20	TBD

Other Topics

Project	Contact	Doc type	Notes*	Discussed/ Voted	Target meeting
Liquid fish annotation	EO	Discussion doc	Approved by ES for addition to work agenda 5.18.18. Approved by NOP 9.13.18. TR requested 12.14.18. TR due late July. TR sent to CS 07.26.19. TR sufficiency due 9.24.19. TR was found sufficient 8.20.19.	11.5.19 11.19.19	Spr 2020
Biodegradable Biobased mulch annotation change	AB	Discussion document	Limited scope TR request sent to NOP 8.2.16. TR sent to CS on 12.28.16. TR Suff due 2.27.17. CS found TR suff 1.3.17. On hold pending further research. NOP sent response to CS about adding this to work agenda. Waiting for details from NOP based on the report from the cooperative agreement with Michigan State University. Report sent to NOSB 10.17.19	12.3.19 1.7.20 1.21.20	Spr 2020
Research Priorities	DM/ All	NA	RPs due to MS 1.7.20	1.21.20	Fall 2020

* **Yellow highlight** indicates Subcommittee action needed ***Highlight** indicates review completion

TR Requests: July 2019, Summary: Spr 2020, Review: Fall 2020

Substance	National List §	Contact	TR request?	Notes	Scheduled, Discussed, Voted	Target meeting
Soap-based algicide/demosers	205.601	RG	N	Sunset date: 3/15/2022 2015 TR 2015/Fall – Rec to Renew	12.17.19	Summary: Spr 2020 Review: Fall 2020
Ammonium carbonate	205.601	DM	N	Sunset date: 3/15/2022 TR: None 2015/Fall – Rec to Renew	2.18.20	“
Soaps, insecticidal	205.601	RG	Y	Sunset date: 3/15/2022 2004 TAP 2015/Fall – Rec to Renew TR sent to CS 1.3.20. Sufficiency due 3.3.20	12.17.19	“
Vitamin D3. As rodenticides	205.601	WT	N	Sunset date: 3/15/2022 2011 TR 2015/Fall – Rec to Renew	12.17.19	“
Aquatic plant extracts (other than hydrolyzed)	205.601	EO	N	Sunset date: 3/15/2022 2016 TR Marine Plants & Algae 2006 TR Aquatic Plant Extracts 2015/Fall – Rec to Renew	1.21.19	“
Lignin sulfonate— chelating agent, dust suppressant	205.601	RG	N	Sunset date: 3/15/2022 2011 TR Lignin sulfonate 2015/Fall - Rec to Renew	12.17.19	“
Sodium silicate (As floating agents in postharvest handling)	205.601	SE	N	Sunset date: 3/15/2022 2011 TR Sodium silicate 2015/Fall - Rec to Renew	1.7.20	“
EPA List 4—Inerts of Minimal Concern	205.601	AB/ SE	N	Sunset date: 3/15/2022 TR: None 2015/Fall - Rec to Renew	1.21.20	“
Arsenic	205.602	JB	N	Sunset date: 3/15/2022 TR: None 2015/Fall - Rec to Renew	12.3.19	“
Strychnine	205.602	JB	N	Sunset date: 3/15/2022 TR: None 2015/Fall - Rec to Renew	12.3.19	“

Spring 2020 Milestones	Target dates (tentative)
NOP - Publish FRN, Open public comment	Nov 1, 2019
NOSB - Spring 2020 proposals due to NOP	Feb 20, 2020
New NOSB member training	Feb 25 - 26, 2020
NOP - Draft Spring 2020 NOSB meeting tentative agenda	Mar 2, 2020
NOP - Post proposals	Mar 5, 2020
Public comment closes	Apr 3, 2020
NOP - Send compiled public comments to NOSB	Apr 7, 2020
Public comment webinars	Apr 21 & 23, 2020
Spring 2020 NOSB meeting - Crystal City, VA	Apr 29 - May 1, 2020

Note: Subcommittee notes may include preliminary discussions regarding substances considered for addition to or removal from the National List. Proposals must be voted on by the NOSB, to become recommendations to the USDA. They do not represent official National Organic Program (NOP) policy/regulations or NOSB recommendations. 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 21, 2020 2:00 pm ET

Present: Jesse Buie (JB), Chair; Rick Greenwood (RG), Vice Chair; Steve Ela (SE); Harriet Behar (HB); Asa Bradman (AB); Emily Oakley (EO); Jerry D'Amore (JD) - observer; Wood Turner (WT) - observer

Absent: Dave Mortensen (DM)

Staff: Michelle Arsenault (MA); Devon Pattillo (DP)

Agenda

- January 7 notes
- 2022 Sunsets: Ammonium carbonate (DM) - discuss
- 2022 Sunsets: Aquatic plant extracts (other than hydrolyzed) (EO) - discuss
- 2022 Sunsets: EPA List 4 -Inerts of Minimal Concern (AB/SE) - discuss
- Biodegradable Biobased mulch annotation change discussion document (HB) - vote.
- Paper pots (SE/HB) - Discuss/vote
- Research priorities (All) - discuss
- Additional Items
- Adjourn

Discussion

- **January 7 notes** were accepted as is.
- **2022 Sunsets: Ammonium carbonate (DM).** Deferred to next call
- **Biodegradable Biobased mulch annotation change discussion document (HB).** The lead briefly summarized the document, noting that the CS discussed it previously. The CS is putting forth a discussion document in order to gather additional feedback from the public. Members reiterated that adding petroleum products to the soil is problematic. The lead will modify one of the questions based on feedback from the other members and will submit the final document to the NOP.

Motion to accept the biodegradable biobased mulch (BBMF) annotation change discussion document

Motion by: HB

Seconded by: AB

Additional discussion: None

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

- **Paper based crop-planting aid petition (SE/HB).** The lead thanked members for additional feedback and summarized the subsequent modifications to the wording of the proposal. One of the modifications was to the term "paper based crop planting aid". The CS is seeking additional information from the public regarding the biobased content.

Motion to classify paper based crop-planting aid as synthetic

Motion by: HB

Seconded by: SE

Additional discussion: None

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

Motion to add paper based crop-planting aid to the National List

Motion by: HB

Seconded by: SE

Additional discussion: None

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

- **Research priorities (All).** The NOSB will develop a discussion document on the research priorities (RPs) at the Spring meeting before bringing forth a proposal at the fall meeting. At the last NOSB meeting, the Board received more substantive comments than ever before and since they couldn't revise the document at that stage, is initiating a two-stage process that will allow for comments to be incorporated into the final product. The lead will edit the document and recirculate it to the CS for final review before sending it to the Materials Subcommittee for incorporation into the main document for the Spring meeting.
- **2022 Sunsets: Aquatic plant extracts (other than hydrolyzed) (EO).** The lead summarized the review which included comprehensive background information and history. The review will be forwarded to the NOP for posting at the Spring meeting.
- **2022 Sunsets: EPA List 4 -Inerts of Minimal Concern (AB/SE).** The lead introduced the draft sunset review which included a summary of previous reviews, human health impacts, environmental impacts, and discussion of a previous report from a non-profit organization about inerts. Inerts are ingredients that are included in pesticide formulations but are not the active ingredient. The review includes etc. At its last review the NOSB voted to renew the listing with the understanding that the USDA and EPA were working on the inerts issue based on the EPA's Safer Choice program. The NOP would like the NOSB to move forward with the reviews as the EPA listing is now defunct and is not sustainable. The NOSB will develop a work agenda item and will pass it along to NOP.
- **Additional items.** None.
- **The meeting was adjourned.**

[Previous CS Notes](#)

Future Call Schedule (1st and 3rd Tuesdays 2:00 ET, except where noted)

January 7, 2020

2022 Sunsets: Ammonium carbonate (DM) - discuss

2022 Sunsets: Aquatic plant extracts (other than hydrolyzed) (EO) - discuss

2022 Sunsets: Sodium silicate (SE) - discuss

Biodegradable Biobased mulch annotation change discussion document (HB)

Paper pots (SE/HB) - Discuss/vote

Calcium acetate petition suff/TR request due 1.13.20

Chitosan petition - assign lead

Biochar petition - assign lead

January 21, 2020

2022 Sunsets: Aquatic plant extracts (other than hydrolyzed) (EO) - discuss

2022 Sunsets: EPA List 4 -Inerts of Minimal Concern (AB/SE) - discuss

Biodegradable Biobased mulch annotation change discussion document (HB) - vote.

Paper pots (SE/HB) - Discuss/vote

Research priorities (All) - discuss

February 4, 2020

2022 Sunsets: Ammonium carbonate (DM) - discuss

Biochar petition (EO) - petition sufficiency/TR request
 Chitosan petition (RG) - petition sufficiency/TR request

February 18, 2020
 March 3, 2020
 March 17, 2020
 April 7, 2020
 April 21, 2020
 May 5, 2020
 May 19, 2020
 June 2, 2020
 June 16, 2020
 July 7, 2020
 July 21, 2020
 August 4, 2020
 August 18, 2020
 September 1, 2020
 September 15, 2020
 October 6, 2020
 October 20, 2020
 November 3, 2020
 November 17, 2020
 December 1, 2020
 December 15, 2020

Work Agenda

Petitioned Substances					
Substance	Contact	Doc type	Notes	Discussed, Voted	Target meeting
Paper pots	SE/H B	Proposal	Petition sent to CS 8.14.18. Petition suff/TR request due 10.13.18. Petition found sufficient 9.4.18. CS requested Lmt'd scope TR 3.5.19. TR due early August. TR sent to CS 7.26.19. TR sufficiency due 9.24.19. TR found suff 8.6.19. 2017 TR Newspaper.	11.5.19 1.7.20 1.21.20	Spr 2020
Sodium carbonate lignin	RG	Proposal	Petition sent to CS 7.29.19. Petition suff/TR request due 9.27.19. Petition was found sufficient 9.17.19. Limited Scope TR requested 9.17.19/10.1.19. Revised request sent to NOP 11.5.19. Lignin sulfonate TR (2011)	11.5.19 TBD pending receipt of TR	Fall 2020
Chitosan	RG	Petition	Petition sent to CS 12.6.19. Petition suff/TR request due 2.4.20	1.7.20 2.4.20	TBD

Biochar	EO	Petition	Petition sent to CS 12.19.19. Petition suff/TR request due 2.17.20	1.7.20 2.4.20	TBD
---------	----	----------	---	------------------	-----

Other Topics					
Project	Contact	Doc type	Notes*	Discussed/ Voted	Target meeting
Liquid fish annotation	EO	Discussion doc	Approved by ES for addition to work agenda 5.18.18. Approved by NOP 9.13.18. TR requested 12.14.18. TR due late July. TR sent to CS 07.26.19. TR sufficiency due 9.24.19. TR was found sufficient 8.20.19.	11.5.19 11.19.19	Spr 2020
Biodegradable Biobased mulch annotation change	HB/ AB	Discussion document	Limited scope TR request sent to NOP 8.2 16. TR sent to CS on 12.28.16. TR Suff due 2.27.17. CS found TR suff 1.3.17. On hold pending further research. NOP sent response to CS about adding this to work agenda. Waiting for details from NOP based on the report from the cooperative agreement with Michigan State University. Report sent to NOSB 10.17.19	12.3.19 1.7.20 1.21.20	Spr 2020
Research Priorities	DM/ All	NA	RPs due to MS 1.7.20	1.21.20	Fall 2020

* **Yellow highlight** indicates Subcommittee action needed ***Highlight** indicates review completion

2022 Sunsets

TR Requests: July 2019, Summary: Spr 2020, Review: Fall 2020

Substance	National List §	Contact	TR request?	Notes	Scheduled, Discussed, Voted	Target meeting
Soap-based algicide/demosers	205.601	RG	N	Sunset date: 3/15/2022 2015 TR 2015/Fall – Rec to Renew	12.17.19	Summary: Spr 2020 Review: Fall 2020
Ammonium carbonate	205.601	DM	N	Sunset date: 3/15/2022 TR: None 2015/Fall – Rec to Renew	2.4.20	“
Soaps, insecticidal	205.601	RG	Y	Sunset date: 3/15/2022 2004 TAP 2015/Fall – Rec to Renew TR sent to CS 1.3.20. Sufficiency due 3.3.20	12.17.19	“
Vitamin D3. As rodenticides	205.601	HB	N	Sunset date: 3/15/2022 2011 TR 2015/Fall – Rec to Renew	12.17.19	“
Aquatic plant extracts (other than hydrolyzed)	205.601	EO	N	Sunset date: 3/15/2022 2016 TR Marine Plants & Algae 2006 TR Aquatic Plant Extracts 2015/Fall – Rec to Renew	1.21.19	“
Lignin sulfonate— chelating agent, dust suppressant	205.601	SE transferred to RG	N	Sunset date: 3/15/2022 2011 TR Lignin sulfonate 2015/Fall - Rec to Renew	12.17.19	“
Sodium silicate (As floating agents in postharvest handling)	205.601	SE	N	Sunset date: 3/15/2022 2011 TR Sodium silicate 2015/Fall - Rec to Renew	1.7.20	“
EPA List 4—Inerts of Minimal Concern	205.601	AB/SE	N	Sunset date: 3/15/2022 TR: None 2015/Fall - Rec to Renew	1.21.20	“
Arsenic	205.602	JB	N	Sunset date: 3/15/2022 TR: None 2015/Fall - Rec to Renew	12.3.19	“
Strychnine	205.602	JB	N	Sunset date: 3/15/2022 TR: None 2015/Fall - Rec to Renew	12.3.19	“

Spring 2020 Milestones	Target dates (tentative)
NOP - Publish FRN, Open public comment	Nov 1, 2019
NOSB - Spring 2020 proposals due to NOP	Feb 20, 2020
New NOSB member training	Feb 25 - 26, 2020
NOP - Draft Spring 2020 NOSB meeting tentative agenda	Mar 2, 2020
NOP - Post proposals	Mar 5, 2020
Public comment closes	Apr 3, 2020
NOP - Send compiled public comments to NOSB	Apr 7, 2020
Public comment webinars	Apr 21 & 23, 2020
Spring 2020 NOSB meeting - Crystal City, VA	Apr 28 - May 1, 2020

Note: Subcommittee notes may include preliminary discussions regarding substances considered for addition to or removal from the National List. Proposals must be voted on by the NOSB, to become recommendations to the USDA. They do not represent official National Organic Program (NOP) policy/regulations or NOSB recommendations. 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 7, 2020 2:00 pm ET**

Present: Jesse Buie (JB), Chair; Rick Greenwood (RG), Vice Chair; Steve Ela (SE); Harriet Behar (HB); Asa Bradman (AB); Emily Oakley (EO); Dave Mortensen (DM); Jerry D'Amore (JD) - observer; Wood Turner (WT) - observer

Absent: None

Staff: Michelle Arsenault (MA); Devon Pattillo (DP)

Agenda

- December 17 notes
- Chitosan petition - assign lead
- Biochar petition - assign lead
- Biodegradable Biobased mulch annotation change (HB)
- Paper pots (HB) - Discuss/vote
- 2022 Sunsets: Sodium silicate (SE) - discuss
- 2022 Sunsets: Ammonium carbonate (DM) - discuss
- 2022 Sunsets: Aquatic plant extracts (other than hydrolyzed) (EO) - discuss
- Research priorities status
- Additional Items
- Adjourn

Discussion

- **December 17 notes** were accepted with no changes.
- **Chitosan petition.** Chitosan is being petitioned for use for plant disease control. RG volunteered to complete the petition sufficiency.
- **Biochar petition.** Petitioned for removal from 205.602 (prohibited substances). EO volunteered to complete the petition sufficiency and review of biochar.
- **Biodegradable Biobased mulch film annotation change discussion document (HB).** The lead summarized the discussion document for the members and the group discussed various components including percentage of biobased content. The lead will make some modifications to the draft document based on today's discussion. The CS intends on posting a document for the Spring meeting for community input, and will vote on the document on the next call.
- **Paper pots proposal (HB).** The group discussed the draft proposal and a potential annotation. Members also discussed the biodegradability standard that is already in the organic regulations. The Subcommittee will seek some additional information before voting on the proposal.
- **2022 Sunsets: Sodium silicate (SE).** The lead summarized the substance and its uses. The CS completed the initial review and will post this for public comment for the Spring meeting.
- **2022 Sunsets: Ammonium carbonate (DM).** Deferred to next call due to lack of time.
- **2022 Sunsets: Aquatic plant extracts (other than hydrolyzed) (EO).** Deferred to next call due to lack of time.
- **Research priorities.** Deferred to next call
- **Additional items.** None.
- **The meeting was adjourned.**

Previous CS Notes

Future Call Schedule (1st and 3rd Tuesdays 2:00 ET, except where noted)

December 17, 2019

2022 Sunsets: Soap-based algicide/demossers (RG) - discuss

2022 Sunsets: Lignin sulfonate (RG) - discuss

2022 Sunsets: Soaps, insecticidal (RG) - discuss

2022 Sunsets: Vitamin D3. As rodenticides (HB) - discuss

January 7, 2020

2022 Sunsets: Ammonium carbonate (DM) - discuss

2022 Sunsets: Aquatic plant extracts (other than hydrolyzed) (EO) - discuss

2022 Sunsets: Sodium silicate (SE) - discuss

Biodegradable Biobased mulch annotation change discussion document (HB)

Paper pots (SE/HB) - Discuss/vote

Calcium acetate petition suff/TR request due 1.13.20

Chitosan petition - assign lead

Biochar petition - assign lead

January 21, 2020

2022 Sunsets: Ammonium carbonate (DM) - discuss

2022 Sunsets: Aquatic plant extracts (other than hydrolyzed) (EO) - discuss

2022 Sunsets: EPA List 4 -Inerts of Minimal Concern (AB/SE) - discuss

Biodegradable Biobased mulch annotation change discussion document (HB) - vote.

Paper pots (SE/HB) - Discuss/vote

Research priorities (All) - discuss

Chitosan - petition sufficiency/TR request

Biochar petition - petition sufficiency/TR request

February 4, 2020

February 18, 2020

March 3, 2020

March 17, 2020

April 7, 2020

April 21, 2020

May 5, 2020

May 19, 2020

June 2, 2020

June 16, 2020

July 7, 2020

July 21, 2020

August 4, 2020

August 18, 2020

September 1, 2020

September 15, 2020

October 6, 2020

October 20, 2020

November 3, 2020

November 17, 2020

December 1, 2020

December 15, 2020

Work Agenda

Petitioned Substances					
Substance	Contact	Doc type	Notes	Discussed, Voted	Target meeting
Paper pots	SE/HB	Proposal	Petition sent to CS 8.14.18. Petition suff/TR request due 10.13.18. Petition found sufficient 9.4.18. CS requested Lmt'd scope TR 3.5.19. TR due early August. TR sent to CS 7.26.19. TR sufficiency due 9.24.19. TR found suff 8.6.19. 2017 TR Newspaper.	11.5.19 1.7.20 1.21.20	Spr 2020
Sodium carbonate lignin	RG	Proposal	Petition sent to CS 7.29.19. Petition suff/TR request due 9.27.19. Petition was found sufficient 9.17.19. Limited Scope TR requested 9.17.19/10.1.19. Revised TR request sent to NOP 11.5.19. Lignin sulfonate TR (2011)	11.5.19 TBD pending receipt of TR	Fall 2020
Chitosan	RG	Petition	Petition sent to CS 12.6.19. Petition suff/TR request due 2.4.20	1.7.20 1.21.20	TBD
Biochar	EO	Petition	Petition sent to CS 12.19.19. Petition suff/TR request due 2.17.20	1.7.20 1.21.20	TBD

Other Topics					
Project	Contact	Doc type	Notes*	Discussed/ Voted	Target meeting
Liquid fish annotation	EO	Discussion doc	Approved by ES for addition to work agenda 5.18.18. Approved by NOP 9.13.18. TR requested 12.14.18. TR due late July. TR sent to CS 07.26.19. TR sufficiency due 9.24.19. TR was found sufficient 8.20.19.	11.5.19 11.19.19	Spr 2020
Biodegradable Biobased mulch annotation change	HB/AB	Discussion document	Limited scope TR request sent to NOP 8.2 16. TR sent to CS on 12.28.16. TR Suff due 2.27.17. CS found TR suff 1.3.17. On hold pending further research. NOP sent response to CS about adding this to work agenda. Michigan State University Report sent to NOSB 10.17.19	12.3.19 1.7.20 1.21.20	Spr 2020
Research Priorities	DM/All	NA	RP's due to MS 1.7.20	1.21.20	Fall 2020

* **Yellow highlight** indicates Subcommittee action needed ***Highlight** indicates review/vote completion

22 Sunsets

TR Requests: July 2019, Summary: Spr 2020, Review: Fall 2020

Substance	National List §	Contact	TR request?	Notes	Scheduled, Discussed, Voted	Target meeting
Soap-based algicide/demosers	205.601	RG	N	Sunset date: 3/15/2022 2015 TR 2015/Fall – Rec to Renew	12.17.19	Summary: Spr 2020 Review: Fall 2020
Ammonium carbonate	205.601	DM	N	Sunset date: 3/15/2022 TR: None 2015/Fall – Rec to Renew	1.21.20	“
Soaps, insecticidal	205.601	RG	Y	Sunset date: 3/15/2022 2004 TAP 2015/Fall – Rec to Renew TR sent to CS 1.3.20. Sufficiency due 3.3.20	12.17.19	“
Vitamin D3. As rodenticides	205.601	HB	N	Sunset date: 3/15/2022 2011 TR 2015/Fall – Rec to Renew	12.17.19	“
Aquatic plant extracts (other than hydrolyzed)	205.601	EO	N	Sunset date: 3/15/2022 2016 TR Marine Plants & Algae 2006 TR Aquatic Plant Extracts 2015/Fall – Rec to Renew	1.21.19	“
Lignin sulfonate— chelating agent, dust suppressant	205.601	SE transferred to RG	N	Sunset date: 3/15/2022 2011 TR Lignin sulfonate 2015/Fall - Rec to Renew	12.17.19	“
Sodium silicate (As floating agents in postharvest handling)	205.601	SE	N	Sunset date: 3/15/2022 2011 TR Sodium silicate 2015/Fall - Rec to Renew	1.7.20	“
EPA List 4—Inerts of Minimal Concern	205.601	AB/SE	N	Sunset date: 3/15/2022 TR: None 2015/Fall - Rec to Renew	1.21.20	“
Arsenic	205.602	JB	N	Sunset date: 3/15/2022 TR: None 2015/Fall - Rec to Renew	12.3.19	“
Strychnine	205.602	JB	N	Sunset date: 3/15/2022 TR: None 2015/Fall - Rec to Renew	12.3.19	“

Spring 2020 Milestones	Target dates (tentative)
NOP - Publish FRN, Open public comment	Nov 1, 2019
NOSB - Spring 2020 proposals due to NOP	Feb 20, 2020
New NOSB member training	Feb 25 - 26, 2020
NOP - Draft Spring 2020 NOSB meeting tentative agenda	Mar 2, 2020
NOP - Post proposals	Mar 5, 2020
Public comment closes	Apr 3, 2020
NOP - Send compiled public comments to NOSB	Apr 7, 2020
Public comment webinars	Apr 21 & 23, 2020
Spring 2020 NOSB meeting - Crystal City, VA	Apr 28 - May 1, 2020