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21 CENTER FOR FOOD SAFETY, *et al.*,
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23 Plaintiffs,
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25 v.
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27 SONNY PERDUE, *et al.*,
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29 Defendants.

Case No. 3:20-cv-1537-RS

**Brief of *Amici Curiae* in Support of
Defendants' Combined Opposition and
Cross-Motion for Summary Judgment**

Date: January 21, 2021
Courtroom: 3 – 17th Floor
Hon. Richard Seeborg

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Cases

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559 F.3d 946 (9th Cir. 2009) 5

Statutes and Regulations

7 U.S.C. §§ 6501-6524 6

7 U.S.C. § 6503(a) 6

7 U.S.C. § 6503(c) 7

7 U.S.C. § 6504..... 8, 12

7 U.S.C. §§ 6505(a) 7

7 U.S.C. § 6506(a)(4) 7, 10

7 U.S.C. § 6506(a)(5) 8, 10

7 U.S.C. § 6508..... 12

7 U.S.C. § 6508(b)(1), (c)(1) 8

7 U.S.C. § 6512..... 11

7 U.S.C. § 6514(a) 8

7 U.S.C. § 6514(b) 9

7 U.S.C. § 6515(b) 9

7 U.S.C. § 6515(g) 9

7 U.S.C. § 6515(i) 9

7 U.S.C. § 6518(a) 7

7 U.S.C. § 6518(b), (d) 7

1 7 C.F.R. § 205.2 3, 11, 12

2 7 C.F.R. § 205.200 *et seq.* 8

3 7 C.F.R. § 205.201 8, 9, 10

4 7 C.F.R. § 205.201(a)(5), (6) 10

5 7 C.F.R. § 205.203(b) 11

6 7 C.F.R. § 205.205 11

7 **Other Authorities**

8

9 Fed. R. Evid. 201 5

10 S. Rep. No. 101-357 (1990), *reprinted in* 1990 U.S.C.C.A.N. 4656..... 7, 16, 18

11 Becky L. Jacobs, et al., *A Quixotic Quest for Definition: Perceptions of ‘Organic’*
 12 *and Implications for the Environment and for Market Participants*, NAT. RES.
 L. 141 (2020) 17

13 Dan Nosowitz, “National Organic Standards Board Decrees That Hydroponic Can
 14 Be Organic,” MODERN FARMER, Nov. 2, 2017,
 15 [https://modernfarmer.com/2017/11/national-organic-standards-board-decrees-
 hydroponic-can-organic/](https://modernfarmer.com/2017/11/national-organic-standards-board-decrees-hydroponic-can-organic/) 12

16 Data tables, 2019 Organic Survey, USDA-NASS (Oct. 22, 2020),
 17 https://www.nass.usda.gov/Publications/AgCensus/2017/Online_Resources/Organics/index.php 18

18 Josh Dhyani, *Science-Based Food Labels: Improving Regulations & Preventing*
 19 *Consumer Deception Through Limited Information Disclosure Requirements*,
 20 26 ALB. L.J. SCI. & TECH. 1 (2016) 7

21 Jyoti Rana & Justin Paul, *Health Motive and the Purchase of Organic Food: A*
 22 *Meta-Analytic Review* 17

23 Karen Campion, *A Tough Row to Hoe: What Partlo v. Johanns Means for the*
 24 *Organic Food Industry*, 21 J. NAT. RES. & ENV’T L. 121 (2007)..... 5, 7

25 Mary Ellen Shoup, *Packaged Facts: Gen Z shoppers emerge as strong consumers*
 26 *of organic and natural foods*, FOOD NAVIGATOR, Jan. 8, 2020,
 27 [https://www.foodnavigator-usa.com/Article/2020/01/08/Packaged-Facts-Gen-
 Z-emerges-as-strong-consumer-of-organic-and-natural-foods](https://www.foodnavigator-usa.com/Article/2020/01/08/Packaged-Facts-Gen-Z-emerges-as-strong-consumer-of-organic-and-natural-foods)..... 5

28 *Organic Labels Explained*, USDA.GOV,
[https://www.ams.usda.gov/publications/content/whats-behind-organic-seal-
 organic-labels-explained](https://www.ams.usda.gov/publications/content/whats-behind-organic-seal-organic-labels-explained) (May 24 2018)..... 5

1 Organic Survey, USDA-NASS (Oct. 22, 2020),
 2 https://www.nass.usda.gov/Publications/AgCensus/2017/Online_Resources/Organics/index.php 18

3 Rita-Marie Cain Reid, *Alternative Organic: Legal Issues in Marketing Uncertified*
 4 *Organic Products*, 73 FOOD & DRUG L.J. 570, 576 (2018)..... 15

5 USDA, AMS/NOP/NOSB New Member Training Agenda, at 6,
 6 https://www.ams.usda.gov/sites/default/files/media/NOSB%20New%20Member%20Training_2016.pdf..... 9, 12

7 USDA, Executive Briefing, 2019 Organic Survey Data Release, at 8 (Oct. 22,
 8 2020),
 9 https://www.nass.usda.gov/Surveys/Guide_to_NASS_Surveys/Organic_Production/pdf/2019_Organic_Executive_Briefing.pdf 10

10 USDA, Instruction-Accreditation Policies & Procedures, at 4,
 11 <https://www.ams.usda.gov/sites/default/files/media/2000.pdf> 9

12 USDA-NASS, Highlights, 2019 Organic Survey, USDA-NASS (Oct. 22, 2020),
 13 https://www.nass.usda.gov/Surveys/Guide_to_NASS_Surveys/Organic_Production/ 16, 17

14 USDA, Organic 101: Five Steps to Organic Certification (2017),
 15 <https://www.usda.gov/media/blog/2012/10/10/organic-101-five-steps-organic-certification> 10

16 USDA, Organic System Plan Template (2015),
 17 <https://www.ams.usda.gov/reports/organic-system-plan-template>..... 10

Interest of Amici Curiae

1
2 The Coalition for Sustainable Organics (“CSO”), Aquaponics Association (“AA”), Western
3 Growers Association (“Western Growers”) and The Scotts Company, LLC (“Scotts”) (collectively,
4 “Amici”) submit this brief to aid the Court in its consideration of whether growers who use
5 hydroponic growing methods should continue to be eligible for organic certification under the
6 National Organic Program (“NOP”) administered by the United States Department of Agriculture
7 (“USDA” or the “Agency”). *Amici* are three not-for-profit agricultural trade associations and a
8 major supplier of conventional and organic hydroponic materials who either directly or have
9 members who would suffer material and substantial harm should Plaintiffs succeed on their motion.

10 The Coalition for Sustainable Organics (“CSO”) is a group of environmentally and socially
11 responsible growers committed to maintaining the current high standards of the USDA for
12 certifying organic produce. CSO is comprised of approximately 50 large and small growers alike.
13 Through public education, lobbying, and other efforts, CSO advocates for the continued allowance
14 of containerized growing methods under the NOP, while enabling growers to select the most
15 appropriate production system for their specific site and commodity needs. CSO has provided oral
16 and written testimony and submitted docket comments in connection with USDA’s administrative
17 processes relating to whether hydroponic growers are eligible for organic certification under the
18 NOP.

19 AA’s mission is to promote the benefits of aquaponic agricultural growing through
20 education and outreach, representing approximately 200 such members. It aims to educate both
21 consumers and food safety officials about the safety of aquaponically-grown food. Like CSO, AA
22 has also participated in USDA’s administrative processes relevant to the issue of organic
23 certification of hydroponic growers, providing oral and written testimony at National Organic
24 Standards Board (“NOSB”) meetings and comments to relevant USDA dockets.

25 Founded in 1926, Western Growers represents local and regional family farmers in Arizona,
26 California, Colorado, and New Mexico. Its members grow, pack, and ship over half of the nation’s
27 fresh produce including nearly one-third of America’s fresh organic produce. Western Growers is
28 a leading public policy advocate for the fresh produce industry and has a longstanding interest in

1 environmental matters, in general, and matters impacting organic production in particular.

2 Finally, Scotts, founded in 1868, is one of the world’s leading suppliers of consumer lawn
3 and garden products. In addition to Scotts’ traditional lawn and garden business, it is represented
4 in the hydroponic market by its affiliate The Hawthorne Gardening Company. Hawthorne
5 Hydroponics LLC supplies growing media, liquid nutrients and lighting to hydroponic growers
6 through its brands including General Hydroponics, Gavita and Botanicare. On multiple occasions,
7 Scotts has supplied written and oral comment to the NOSB with respect to the certification process
8 for hydroponic organic growers through the NOP.

9 *Amici* all have a particular interest in the determination of the issues in this case. Plaintiffs
10 seek a judicial declaration invalidating USDA’s June 6, 2019 denial of Plaintiffs’ petition
11 requesting that the agency conduct rulemaking to exclude organic certification of hydroponic
12 agricultural production systems under the Organic Foods Production Act. Plaintiffs seek a judicial
13 determination that USDA’s denial was arbitrary and capricious, and contrary to law, in violation of
14 the Administrative Procedure Act. Relying upon their extensive experience in the industry, *Amici*
15 file this brief to explain the hydroponic agricultural and certification processes at issue, to elucidate
16 some of the factual and legal errors contained in Plaintiffs’ motion, and to provide information
17 about the harm that growers, retailers, and consumers would suffer should Plaintiffs prevail.¹

18 **Introduction and Summary of Argument**

19 For centuries, humans have developed and improved agricultural technologies. Today, new
20 innovations allow farmers to grow and produce food more efficiently, safely, and sustainably than
21 ever before. This litigation concerns one such innovation – hydroponics – an agricultural production
22 method that allows farmers to produce nutritious fruits and vegetables in a manner that is
23 environmentally beneficial and meets the sustainability goals of the Organic Foods Production Act
24 (“OFPA”).² Since the advent of USDA’s NOP, hydroponic methods have consistently been

25 _____
26 ¹ No counsel for a party authored this brief in whole or in part, and no person other than *Amici* and
their counsel made a monetary contribution to its preparation or submission.

27 ² As discussed in greater detail herein, “hydroponic” agriculture is a broad term that includes any
28 method of growing plants without soil. Many farmers also employ “aquaponics” (growing crops

1 recognized as eligible for organic certification so long as a hydroponic farmer’s operation meets
 2 the NOP requirements for “organic production,” *i.e.*, “[a] production system that is managed in
 3 accordance with the Act and regulations in this part to respond to site-specific conditions by
 4 integrating cultural, biological, and mechanical practices that foster cycling of resources, promote
 5 ecological balance, and conserve biodiversity.”³ Granting the relief Plaintiffs seek in this lawsuit
 6 would prevent hydroponic farmers – like the members of *Amici* CSO, AA and Western Growers
 7 and customers of Scotts – who have met those requirements from continuing to produce and sell
 8 produce under the USDA’s “organic” label.

9 Through this litigation, Plaintiffs challenge USDA’s authority to permit the certification of
 10 hydroponically-grown fruits and vegetables as “organic” – a decades-long practice that has
 11 coincided with the dramatic expansion of hydroponic agriculture. After the National Organic
 12 Standards Board in 2017 rejected a proposal to categorically preclude organic certification for all
 13 hydroponic growers, Plaintiffs filed a petition with USDA requesting that USDA undertake a
 14 rulemaking seeking the same result. USDA denied the petition, citing its longstanding position
 15 under its OFPA authority to permit organic hydroponic production; Plaintiffs sued and have now
 16 moved for summary judgment, arguing that USDA’s denial of their administrative petition was
 17 arbitrary and capricious in violation of the Administrative Procedure Act.⁴ But Plaintiffs’ motion
 18 paints an incomplete and deeply misleading picture of the goals of the OFPA, the organic
 19 certification process, the compatibility of hydroponic production with the OFPA and NOP, and the
 20 harm to growers and consumers that will follow from an adverse ruling for USDA in this case. In
 21 Plaintiffs’ telling, the primary goal of the OFPA is to benefit soil, and the certification process for
 22 hydroponics is untethered from both the OFPA’s legislative standards and basic biology.
 23 Hydroponically-grown fruits and vegetables, in Plaintiffs’ view, are inherently inappropriate for
 24 the “organic” label – even if capable of “integrating cultural, biological, and mechanical practices

25 _____
 26 with fish in closed water ecosystems) and “aeroponics” (growing crops in a hanging fashion, often
 27 in greenhouses). For brevity, the term “hydroponics” is used inclusively to describe all of these
 28 non-soil-based agricultural methods.

³ 7 C.F.R. § 205.2.

⁴ Administrative Record (“AR”) 1375–76.

1 that foster cycling of resources, promote ecological balance, and conserve biodiversity” – because
2 they are not physically grown in the ground. Accordingly, Plaintiffs contend that USDA should
3 prohibit hydroponic farmers from being certified “organic” and from labeling their produce as
4 “organic” when sold to consumers.

5 The reality is that hydroponically-grown produce has been a growing part of the American
6 agricultural landscape for 30 years, and has been part of the NOP since its inception. Hydroponic
7 production is a broad term often used to describe several methods of agricultural growth outside of
8 the soil – for example, using indoor or outdoor containers, biologically active waters, and/or indoor
9 greenhouses. One segment of hydroponic production is referred to as “inert” or “sterile” and is
10 made up of inorganic systems in which plants are fed nutrients in their basic ionic forms (*e.g.*,
11 nitrate, potassium, iron) that can immediately be taken up through their roots. “Sterile” hydroponic
12 systems do not rely on biological organisms to make minerals available to the plants.⁵ Another
13 segment, and the one at issue here, is for “organic” hydroponic systems, also referred to as
14 “bioponic” systems, which rely instead on a “soil food web micro-biological ecosystem to provide
15 nutrients to a crop. All inputs come from animal, plants and minerals and require biology to convert
16 these raw inputs into plant-usable form.”⁶ CSO’s members, for example, operate organic
17 hydroponic systems for which the members have either obtained organic certification or hope to
18 obtain certification in the future.

19 Organic hydroponic growers employ all sorts of site-specific production methods
20 depending on their particular geographies and crops, some of which are detailed herein. Common
21 among them, however, is their ability to establish biological activity in the roots of plants to enable
22 the breakdown of organic matter into plant-available nutrients. Numerous studies demonstrate that
23 organic hydroponic growers are able to establish the same quantity and diversity of microbiology
24 – a fundamental component of organic agriculture – found in in-soil production methods.⁷ This
25 activity readily enables organic hydroponic growers to meet the standard for organic production

26 ⁵ AR 0437-0632.

27 ⁶ *Id.* at 0565.

28 ⁷ *Id.* at 0609, 0626.

1 under the NOP.

2 Consumers are increasingly demanding organic produce, and are willing to pay a premium
3 for produce bearing that label.⁸ For this reason, organic farming has become one of the fastest
4 growing agricultural sectors in the United States.⁹ And throughout the life of the NOP,
5 hydroponically-grown produce has been eligible to attain organic certification so long as the
6 operation is able to meet the rigorous certification standards that are generally required of organic
7 growers. In recognition of that burgeoning consumer market, many of CSO, AA, and Western
8 Grower’s members and other growers have invested heavily in hydroponics to earn that “organic”
9 label, and consumers have come to rely on the availability of hydroponically-produced organic
10 produce.¹⁰

11 In Plaintiffs’ view, the “organic” designation should apply to a far more restricted universe
12 of produce – that which is literally grown in the Earth’s soil. For three reasons, Plaintiffs are
13 incorrect. First, as a legal matter, the OFPA and NOP establish broad standards for organic
14 production based on site-specific analyses by Certifying Agents of farm-specific Organic System
15 Plans. Plaintiffs’ categorical approach is ill-suited to Congress’s design. Second, hydroponic

16 ⁸ See Mary Ellen Shoup, *Packaged Facts: Gen Z shoppers emerge as strong consumers of organic*
17 *and natural foods*, FOOD NAVIGATOR, Jan. 8, 2020, [https://www.foodnavigator-](https://www.foodnavigator-usa.com/Article/2020/01/08/Packaged-Facts-Gen-Z-emerges-as-strong-consumer-of-organic-and-natural-foods)
18 [usa.com/Article/2020/01/08/Packaged-Facts-Gen-Z-emerges-as-strong-consumer-of-organic-and-](https://www.foodnavigator-usa.com/Article/2020/01/08/Packaged-Facts-Gen-Z-emerges-as-strong-consumer-of-organic-and-natural-foods)
19 [natural-foods](https://www.foodnavigator-usa.com/Article/2020/01/08/Packaged-Facts-Gen-Z-emerges-as-strong-consumer-of-organic-and-natural-foods) (in a survey of over 20,000 American adults, millennial and Gen-Z consumers were
20 more likely to purchase “organic” food). As a general matter, *Amici* rely upon transcripts and
21 reports contained in the Administrative Record. On occasion, however, *Amici* cite to academic
22 articles or news articles related to organics or the organic agricultural industry. Courts will often
23 consider social scientific, scientific, or industry information outside of the contours of the record
24 when presented by *amici* briefs. See, e.g., *Grutter v. Bollinger*, 539 U.S. 306, 330 (2003)
(considering *amici*’s social science evidence regarding benefits of diversity in higher education);
25 *Disability Rights Montana, Inc. v. Batista*, 930 F.3d 1090, 1099 (9th Cir. 2019) (considering *amici*’s
26 medical and social science researcher on solitary confinement); *Trout Unlimited v. Lohn*, 559 F.3d
27 946, 947 (9th Cir. 2009) (considering *amici*’s view of the scientific consensus regarding the ways
28 in which the National Marine Fisheries Service categorizes certain species of fish); see also Fed.
R. Evid. 201 (noting that courts may take judicial notice of facts outside the record).

⁹ Karen Campion, *A Tough Row to Hoe: What Partlo v. Johanns Means for the Organic Food*
Industry, 21 J. NAT. RES. & ENV’T L. 121, 121 (2007) (describing growth of organic farming since
the enactment of the OFPA in 1990).

¹⁰ Agricultural products that meet the organic standard can be sold as “USDA Organic” with the
formal seal of the Agency. See USDA, *What’s Behind the Organic Seal? Organic Labels*
Explained, USDA.GOV, [https://www.ams.usda.gov/publications/content/whats-behind-organic-](https://www.ams.usda.gov/publications/content/whats-behind-organic-seal-organic-labels-explained)
[seal-organic-labels-explained](https://www.ams.usda.gov/publications/content/whats-behind-organic-seal-organic-labels-explained) (May 24 2018).

1 growers, by establishing and fostering a soil food web with an active microbiome, are readily able
 2 to meet the OFPA and NOP standards. Third, Plaintiffs tellingly ignore the significant
 3 consequences that their restrictive certification scheme would have on both the agricultural industry
 4 that has invested in organic hydroponic production and on its consumers, who are demanding an
 5 ever-increasing supply of organic produce at a fair price.

6 Ultimately, Plaintiffs' position is untenable. They wish to restrict the valuable "organic"
 7 label for one category of organic farmers, to the detriment of growers utilizing the types of
 8 sustainable practices that Congress intended to encourage. *Amici* respectfully request that
 9 Plaintiffs' motion for summary judgment be denied, and that Defendants' cross-motion for
 10 summary judgment be granted.

11 Argument

12 **I. The Legal Framework of the Organic Foods Production Act Establishes Broad** 13 **Standards for Organic Certification.**

14 Under the OFPA, Congress set out the broad standards under which hydroponic farmers
 15 who meet USDA's requirements are entitled to obtain organic certification based on a site-specific
 16 certification process. Plaintiffs' arguments to the contrary are unsupported by the statute, its
 17 legislative history, and USDA's NOP regulations.

18 **A. The Framework of the Organic Foods Production Act**

19 Enacted in 1990, the Organic Foods Production Act ("OFPA"), 7 U.S.C. §§ 6501-6524,
 20 directed USDA to "establish an organic certification program for producers and handlers of
 21 agricultural products that have been produced using organic methods[.]"¹¹ As noted in Senate
 22 Agriculture, Nutrition, and Forestry Committee Report that accompanied the bill, the OFPA
 23 became law at a time when "[t]he market for organically produced food is growing as consumers
 24 begin to search for local food alternatives." Congress was concerned that "[g]rowth in the organic
 25 food trade" was "hampered by a lack of consistent standards for production," prompting Congress

26
 27
 28 ¹¹ 7 U.S.C. § 6503(a).

1 to establish “national standards for organic production.”¹² Indeed, *growth* of the organic program
2 was front and center at the time Congress considered the OFPA.

3 With the passage of the OFPA, “organic foods gained a certain status” because only food
4 produced and handled in certain ways “could rightfully call itself ‘organic.’”¹³ Prior to OFPA, the
5 standards for organic certification were product-oriented, focusing on “observable characteristics”
6 and ingredient composition of produce.¹⁴ But the OFPA shifted the standards to a process-oriented
7 approach, focusing on the practices that a specific farmer uses to grow the produce on a specific
8 site. The regulatory framework of the OFPA therefore centers on the ways in which individual
9 growers grow, harvest, and prepare produce.

10 The OFPA directed USDA to create a program for certifying produce as “organic,”
11 including the creation of a “USDA Organic” seal to be used on labels to demonstrate to consumers
12 that a product is grown in a manner that complies with the NOP.¹⁵ Under the statute, any
13 agricultural products sold as “organic” must be “produced only on certified organic farms and
14 handled only through certified organic handling operations in accordance with [the OFPA][.]”¹⁶
15 The OFPA further “require[s] each certified organic farm or each certified organic handling
16 operation to certify compliance annually¹⁷ and submit to an “annual on-site inspection by the
17

18 _____
19 ¹² S. Rep. 101-357, at 289 (1990), as reprinted in 1990 U.S.C.C.A.N. 4656, 4943 (emphasis
20 added).

21 ¹³ Karen Campion, 21 J. NAT. RES. & ENV’T L. at 122.

22 ¹⁴ Josh Dhyani, *Science-Based Food Labels: Improving Regulations & Preventing Consumer*
23 *Deception Through Limited Information Disclosure Requirements*, 26 ALB. L.J. SCI. & TECH. 1,
24 18-19 (2016).

25 ¹⁵ The OFPA also established the National Organic Standards Board (“NOSB”). The NOSB’s
26 mission is “to assist in the development of standards for substances to be used in organic production
27 and to advise the Secretary on any other aspects of the implementation of this chapter.” 7 U.S.C. §
28 6518(a). The group includes 15 members, who are required by statute to include members with
relevant expertise, including individuals who own or operate organic farms or handling operations,
as well as those with experience in retail, environmental protection, ecology, and other related
areas. The USDA is required to “consult” with the NOSB (7 U.S.C. § 6503(c)), but its
recommendations are not binding. Members serve for five-year terms without compensation. 7
U.S.C. § 6518(b), (d) (outlining NOSB’s composition).

¹⁶ 7 U.S.C. §§ 6505(a); 6506(a)(1)(A).

¹⁷ 7 U.S.C. § 6506(a)(4).

1 certifying agent[.]”¹⁸ To qualify as an “organically produced agricultural product,” the produce
2 shall:

- 3 (1) have been produced and handled without the use of synthetic chemicals, except
4 as otherwise provided [herein];
5 (2) except as otherwise provided [herein] and excluding livestock, not be produced
6 on land to which any prohibited substances, including synthetic chemicals, have
7 been applied during the 3 years immediately preceding the harvest of the
8 agricultural products; and
9 (3) be produced and handled in compliance with an organic plan agreed to by the
10 producer and handler of such product and the certifying agent.¹⁹

11 **B. Overview of the Certification Process**

12 Through the OFPA, Congress established broad, nationally uniform standards for organics
13 certification – standards that are implemented under the NOP by USDA’s Agricultural Marketing
14 Service. The NOP Regulations, codified at 7 C.F.R. § 205.200 *et seq.* (the “Regulations”), provide
15 the regulatory framework for organic certification. Any grower “intending to sell, label, or
16 represent agricultural products as ‘100 percent organic,’ ‘organic,’ or ‘made with organic (specified
17 ingredients or food group(s))’” must comply with the applicable provisions of [these
18 Regulations].²⁰

19 Organic standards are verified and enforced through USDA-accredited certifiers, referred
20 to as “Certifying Agents.” Any grower wishing to label foods as “organic” must obtain organic
21 certification – the process of inspecting farming and handling operations to make certain that the
22 OFPA and NOP’s requirements for organic production are met. Certifying Agents are typically
23 private, third-party non-governmental entities or individuals accredited by USDA to serve in that
24 role “for the purpose of certifying a farm or handling operation as a certified organic farm or
25 handling operation.”²¹ Certifiers must apply to be accredited and have experience in organic

26 ¹⁸ 7 U.S.C. § 6506(a)(5).

27 ¹⁹ 7 U.S.C. § 6504; *see also* 7 U.S.C. § 6508(b)(1), (c)(1) (providing that certified farms are
28 prohibited from certain activities like using “any fertilizers containing synthetic ingredients or any
commercially blended fertilizers containing materials prohibited under this chapter” or “natural
poisons such as arsenic or lead salts that have long-term effects [on] the environment . . .”).

²⁰ 7 C.F.R. § 205.201.

²¹ 7 U.S.C. § 6514(a).

1 farming and handling techniques.²² Importantly, Certifying Agents and individual certifiers do not
 2 always certify every type of operation. Rather, Certifying Agents and certifiers often specialize in
 3 certain produce or operations of which they have the deepest knowledge. In this way, the
 4 certification process, Organic System Plan, and inspections are not “cookie cutter” but rather
 5 tailored to the specific conditions of the farm. Certifying Agents²³ and their inspectors, auditors,
 6 and certifiers conduct regular audits, issue notices of noncompliance, and review corrective action
 7 reports as growers work to come into compliance.²⁴

8 Growers seeking to sell their produce with the “USDA Organic” label must follow a detailed
 9 and intensive process to achieve certification.²⁵ Individual growers complete a roughly nine-month
 10 application and review process, including working with an accredited Certifying Agent and
 11 individual certifier (who generally works for that Certifying Agent as an employee or contractor)
 12 who carefully reviews the farm’s proposed organic plan.²⁶ Specifically, any such producer “must
 13 develop an organic production or handling system plan that is agreed to by the producer or handler
 14

15 ²² Pursuant to 7 U.S.C. § 6514(b), prospective Certifying Agents must “(1) prepare and submit to
 16 the [USDA], an application for such accreditation; (2) have sufficient expertise in organic farming
 17 and handling techniques as determined by the [USDA]; and (3) comply with the requirements of
 18 this section and section 6515 of this title.” Section 6515, in turn, outlines additional basic
 19 requirements. For example, any Certifying Agent “shall employ a sufficient number of inspectors
 20 to implement the applicable organic certification program[.]” 7 U.S.C. § 6515(b). The statute
 21 includes a robust conflicts of interest policy; Certifying Agents are prohibited from inspecting any
 22 operations in which that agent “has, or has had, a commercial interest, including the provision of
 23 consultancy services” and may not “accept payment, gifts, or favors of any kind from the business
 24 inspected” nor may agents “provide advice concerning organic practices or techniques for a fee,
 25 other than fees established under [the statute].” 7 U.S.C. § 6515(g). Certifying Agents who fail to
 26 adhere to the provisions of the OFPA are subject to suspension. 7 U.S.C. § 6515(i).

27 ²³ USDA, AMS/NOP/NOSB New Member Training Agenda, at 6,
 28 https://www.ams.usda.gov/sites/default/files/media/NOSB%20New%20Member%20Training_2016.pdf.

²⁴ *Id.* at 22. Often, “certifiers” and “certifying agents” are used synonymously, but generally,
 “Certifying Agents” refer to entities that employ individual “certifiers” to inspect and audit farming
 operations (whether as independent contracts or employees). The Certifying Agents receive their
 certification from NOP, and the individual certifiers receive their certification from their Certifying
 Agent.

²⁵ USDA, Instruction-Accreditation Policies & Procedures, at 4,
<https://www.ams.usda.gov/sites/default/files/media/2000.pdf>.

²⁶ 7 C.F.R. § 205.201.

1 and an accredited certifying agent.”²⁷ This comprehensive document addresses how the applicant
 2 will implement the Regulations, including all aspects of the operation such as growing, harvesting,
 3 storing, transportation, and recordkeeping. It must, *inter alia*, describe the grower’s procedures,
 4 list all substances it will use in production, describe monitoring practices, and keep careful
 5 records.²⁸ The applicant must also address how it will prevent comingling of nonorganic products
 6 or contact with prohibited chemicals and substances.²⁹ The details of the plan are critical; indeed,
 7 USDA calls it “the cornerstone of any application for certification.”³⁰ The OFPA also “require[s]
 8 [that] each certified organic farm or each certified organic handling operation to certify compliance
 9 annually³¹ and submit to an “annual on-site inspection by the certifying agent[.]”³²

10 Individual farms, as well as handlers and processors, that successfully clear this process are
 11 known as “Certified Organic Operations.” These are the entities producing and handling crops that
 12 have been approved by the individual Certifying Agents as meeting the necessary qualifications
 13 under the Regulations. According to the results of USDA’s 2019 Organic Survey, whose results
 14 USDA released on October 22, 2020, there were 16,585 USDA certified organic farms around the
 15 country.³³ Dozens of growers within this group, including *Amici*’s members, produce some or all
 16 of their products using hydroponic production practices at various stages of their products’ life
 17 cycle.³⁴

18 Plaintiffs correctly (though selectively) cite provisions of the Regulations that relate to soil
 19 management to make their case that the Regulations are *only* intended to include soil-based
 20 produce. For example, organic growers are required to “manage crop nutrients and soil fertility

21 _____
²⁷ *Id.*

22 ²⁸ 7 C.F.R. § 205.201(a)(5), (6).

23 ²⁹ USDA, Organic 101: Five Steps to Organic Certification (2017),
<https://www.usda.gov/media/blog/2012/10/10/organic-101-five-steps-organic-certification>.

24 ³⁰ USDA, Organic System Plan Template (2015), <https://www.ams.usda.gov/reports/organic-system-plan-template>.

25 ³¹ 7 U.S.C. § 6506(a)(4).

26 ³² 7 U.S.C. § 6506(a)(5).

27 ³³ USDA, Executive Briefing, 2019 Organic Survey Data Release, at 8 (Oct. 22, 2020),
[https://www.nass.usda.gov/Surveys/Guide to NASS Surveys/Organic Production/pdf/2019 Or
 28 ganic Executive Briefing.pdf](https://www.nass.usda.gov/Surveys/Guide%20to%20NASS%20Surveys/Organic%20Production/pdf/2019%20Organic%20Executive%20Briefing.pdf).

³⁴ AR 0596 ; *see also* Section II, *infra*.

1 through rotations”³⁵ and generally “implement a crop rotation including but not limited to sod,
 2 cover crops, green manure crops, and catch crops that . . . are applicable to the operation[.]”³⁶
 3 Critically, however, nowhere do the Regulations declare that fruits and vegetables must be
 4 physically grown in the soil to qualify for “organic” certification – nor does anything in the OFPA
 5 mandate that USDA implement such a requirement. Rather, the Regulations broadly define organic
 6 production as any system that “respond[s] to site-specific conditions by integrating cultural,
 7 biological, and mechanical practices that foster cycling of resources, promote ecological balance,
 8 and conserve biodiversity.”³⁷ Moreover, the OFPA provides that if a production practice is not
 9 prohibited or otherwise restricted by the OFPA, that “practice [will] be permitted unless it is
 10 determined that such practice would be inconsistent with the applicable organic certification
 11 program.”³⁸ As set forth in more detail in USDA’s opposition and cross-motion for summary
 12 judgment, USDA’s approach to permitting certification of organic hydroponic operations is
 13 squarely within its authority under the OFPA.³⁹

14 **II. Hydroponic Production is Compatible with National Organic Program Standards to**
 15 **Foster Ecological Balance and Recycling of Resources.**

16 Plaintiffs’ position – that hydroponic growers using innovative and sustainable growing
 17 techniques are categorically unable to meet the NOP’s requirements – flies in the face of the
 18 program’s site-specific approach to organic certification. The determination of whether a particular
 19 operation satisfies the NOP’s standards must be made individually, not categorically. To qualify,
 20 hydroponic growers *must* meet the OFPA’s baseline statutory requirements. Namely, that means
 21 that the farm must produce its crops “without the use of synthetic chemicals, except as otherwise
 22 provided [in the OFPA]”; it cannot produce crops on land that has been exposed to “any prohibited
 23 substances . . . during the 3 years immediately preceding the harvest of the agricultural products”;
 24 and must produce their crops “in compliance with an organic plan agreed to by the producer and

25 ³⁵ 7 C.F.R. § 205.203(b).

26 ³⁶ 7 C.F.R. § 205.205.

27 ³⁷ 7 C.F.R. § 205.2.

28 ³⁸ 7 U.S.C. § 6512.

³⁹ Dkt. 23 at 9-16.

1 handler of such product and the certifying agent[.]”⁴⁰ Plaintiffs also ignore the important fact that
 2 not all hydroponic operations are organic, nor are they always able to meet organic requirements.
 3 If the plan fails to meet these and any other applicable criteria, the Certifying Agent will not and
 4 cannot issue “organic” certification. Like all certified organic farms, organic hydroponic farms are
 5 subject to routine internal and external audits, and a regular process for recertification, ensuring
 6 that standards continue to be met following the initial certification.⁴¹

7 Plaintiffs’ categorical approach fails to acknowledge the extraordinary diversity of
 8 production practices USDA’s dynamic certification process is designed to accommodate and
 9 encourage. Hydroponic farms can exist in both urban and rural environments, given that they often
 10 lend themselves to smaller footprints.⁴² Farmers engaging in hydroponic agriculture can often grow
 11 using fewer crop inputs and less water than required in many traditional farming environments⁴³,
 12 and make more efficient use of land and other natural resources. Some organic growers use both
 13 hydroponic and soil-based farming within the same Organic System Plan. And all organic growers
 14 are required to demonstrate that their plans “foster cycling of resources, promote ecological
 15 balance, and conserve biodiversity.”⁴⁴

16 Organic hydroponic operations are able to meet these requirements by relying on a soil food
 17 web that mirrors that of in-soil crop production, *i.e.*, establishing within the hydroponic system a
 18 combination of NOP-compliant organic inputs, derived from animals, plants and minerals, and a
 19 microbial community within the plant’s growing environment capable of relying on biology to
 20 break down the organic material into nutrients in a form that the plants can accept. Organic
 21 hydroponic growers introduce microbes using the same compost, compost-tea (*i.e.*, “a water extract
 22

23 ⁴⁰ 7 U.S.C. § 6504; *see also* 7 U.S.C. § 6508.

24 ⁴¹ USDA, AMS/NOP/NOSB New Member Training Agenda, at 22,
 25 https://www.ams.usda.gov/sites/default/files/media/NOSB%20New%20Member%20Training_2016.pdf.

26 ⁴² AR 0596.

27 ⁴³ Dan Nosowitz, “National Organic Standards Board Decrees That Hydroponic Can Be Organic,”
 28 MODERN FARMER, Nov. 2, 2017, <https://modernfarmer.com/2017/11/national-organic-standards-board-decrees-hydroponic-can-organic/>.

⁴⁴ 7 C.F.R. § 205.2.

1 of compost produced to transfer microbial biomass, fine particulate organic matter, and soluble
 2 chemical components into an aqueous phase, intending to maintain or increase the living, beneficial
 3 microorganisms extracted from the compost”⁴⁵, liquid nutrient products, or commercially-
 4 available microbe consortium products as are used by field growers. As USDA’s Task Force
 5 noted, “[b]ioponic systems use the same organic inputs, processes, and principles as field
 6 growers.”⁴⁶ Scientific research, and USDA’s own Task Force on Hydroponic and Aquaponic
 7 Production, have established that organic hydroponic systems are capable of hosting the same
 8 diversity and quantity of microorganisms found in “good soil.”⁴⁷ Examples from the
 9 Administrative Record are illustrative.

10 One CSO member operates a certified organic farm in Nogales, Arizona that grows
 11 tomatoes, cucumbers, squash, pepper, and eggplant in open fields, shade houses, and greenhouses,
 12 both in the ground and in containers.⁴⁸ In testimony at the National Organic Standards Board
 13 meetings, the grower described how hydroponic methods are incorporated as part of their overall
 14 farming plan. For tomato production, the grower has “invested in glass houses where we grow our
 15 tomatoes in containers” to avoid “disease, pest[s] and environmental pressure[s].”⁴⁹ The growing
 16 medium in the containers consists of coconut coir (a natural plant-based material), along with other
 17 organic inputs, like fungal or bacterial compost teas, that establish and maintain a microbiome in
 18 the plants’ roots that assist with the cycling of nutrients to the plant.⁵⁰ After the tomato cycle is
 19 complete, the grower introduces the nutrient- and biology-rich contents of the containers into the
 20 fields outside the greenhouses where Sudan grass is grown, which, along with trimmings from the
 21 tomato plants, is used to produce compost on site.⁵¹ In addition to allowing the grower to grow

22 _____
 23 ⁴⁵ AR 0555.

24 ⁴⁶ AR 0566.

25 ⁴⁷ AR 0572.

26 ⁴⁸ NOSB Tr. 48–51 (Oct. 20, 2015),

27 <https://www.ams.usda.gov/sites/default/files/media/NOSB%20Transcript%20October%202015.pdf>

28 ⁴⁹ *Id.* at 51.

⁵⁰ NOSB Tr. 107-11 (Apr. 19, 2017),

<https://www.ams.usda.gov/sites/default/files/media/TranscriptsNOSBApril2017.pdf>.

⁵¹ *Id.*

1 crops safely, minimize pesticides and chemicals, and avoid insects, growing hydroponically has
 2 reduced the farm’s water use “by 80 percent . . . helping us to preserve critical natural habitat and
 3 resources.”⁵² This grower, which has been USDA certified organic for twenty years, would lose
 4 its organic certification should Plaintiffs obtain the relief they are seeking.

5 In testimony to the NOSB, another organic grower described growing tomatoes in
 6 containers with coconut husks, along with organic compost material sourced from high-nutrient
 7 corn and vegetable residues and microorganisms to create active biology in the container.⁵³ Once
 8 the tomatoes have completed their growth cycle, the container contents are incorporated into corn
 9 and soybean fields to help fields reestablish active soil biology to “improve the fertility and totality
 10 of the fields” while recycling materials and nutrients.⁵⁴ Growing in containers also resulted in more
 11 efficient water use for the farms, as water from the containers can be captured and recycled.⁵⁵

12 A third example comes from the “aquaponic” farming method – a production method that
 13 combines recirculating fish culture with hydroponic plant production in a system that conserves
 14 water resources, recovers nutrient rich aquaculture discharge, limits chemical additives for fish and
 15 plant production, and improves plant growth rates (*i.e.*, obtaining higher yields per square foot)
 16 when compared to soil-based agriculture.⁵⁶ One aquaponic grower has built and operates an
 17 organic aquaponic farm in Hixton, Wisconsin. That system relies on a symbiotic relationship
 18 between fish, beneficial bacteria, and plants to grow certified organic greens. Water from the fish
 19 tanks is filtered to remove waste which is then broken down by nitrifying bacteria, first into nitrites,
 20 and then nitrates. The nitrate-rich water, containing comparable amounts of dissolved nutrients to
 21 soil and a diverse microbial community, is then circulated to the greenhouse, where plants absorb

22 _____
 23 ⁵² NOSB Tr. 52 (Oct. 15, 2015),

24 [https://www.ams.usda.gov/sites/default/files/media/NOSB%20Transcript%20October%202015.p
 25 df.](https://www.ams.usda.gov/sites/default/files/media/NOSB%20Transcript%20October%202015.pdf)

26 ⁵³ AR 0396-98.

27 ⁵⁴ *See* NOSB Tr. 90-102 (Apr. 13, 2017),

28 <https://www.ams.usda.gov/sites/default/files/media/TranscriptsNOSBApril2017.pdf>; *see also*
 29 NOSB Tr. 264-68 (Oct. 31, 2017),

30 <https://www.ams.usda.gov/sites/default/files/media/TranscriptsNOSBFall2017.pdf>.

31 ⁵⁵ NOSB Tr. 264-68 (Oct. 31, 2017).

32 ⁵⁶ NOSB Tr. 457-58 (Apr. 19, 2017).

1 the nutrients and clean water is returned to the fish tanks.⁵⁷ The Administrative Record contains
 2 testimony from other aquaponics growers noting similar production methodologies.⁵⁸

3 The Report of USDA’s Task Force on Hydroponics and Aquaponics provided additional
 4 case studies of growers having developed biologically active hydroponic growing operations
 5 meeting the organic standard through development and reliance on a soil food web ecosystem using
 6 microorganisms to break down and provide nutrients to hydroponic crops in the same way that soil-
 7 based ecosystems nourish in-soil crops.⁵⁹ And in some of those applications, hydroponic
 8 operations also contribute to the biological diversity of surrounding soils used to grow in-soil crops
 9 within the same Organic System Plan through recycling materials, composting, or adding
 10 biologically active materials or waters to the soil. *Id.*

11 Indeed, while there has been vigorous debate⁶⁰ about the place of hydroponics in organic
 12 agriculture – just as there have been on numerous other topics related to organic production –
 13 USDA’s position has been consistent throughout the life of the NOP. Growers whose organic plans
 14 comply with the NOP, like *Amici*’s members, are entitled to organic certification; those whose plans
 15 do not comply are not entitled to organic certification. Plaintiffs have provided no basis for finding
 16 otherwise.

17 **III. Granting Plaintiffs’ Motion Would Harm Both Growers and Consumers.**

18 Plaintiffs’ attempt to disturb USDA’s longstanding approach to organic certification for
 19 hydroponic production methods would have dramatic and disruptive consequences throughout a
 20 multi-billion-dollar industry that has come to rely upon the NOP’s existing standards for organic
 21 hydroponic produce. These negative effects would be felt by both farmers and consumers.

22 Growers throughout the country have long relied on USDA’s decades-long approach with
 23 respect to hydroponics to obtain organic certification. Indeed, the Administrative Record contains

24 _____
 25 ⁵⁷ *Id.*

26 ⁵⁸ NOSB Tr. 113-14 (Apr. 13, 2017).

27 ⁵⁹ AR 0608-0626.

28 ⁶⁰ *See, e.g.,* Rita-Marie Cain Reid, *Alternative Organic: Legal Issues in Marketing Uncertified Organic Products*, 73 FOOD & DRUG L.J. 570, 576 (2018) (“One concern that has dogged organic producers from the outset is the lack of a clear definition of ‘organic.’”).

1 testimony from hydroponic growers that have been certified organic for more than a decade.⁶¹
2 Hydroponic growers, knowing the market value of the “USDA Organic” label, have invested
3 significant resources into infrastructure, research, and staff to grow organic fruits and vegetables
4 that meet the significant market demand. For example, *Amici* estimate that growers invested a
5 minimum \$1.4 billion in initial capital costs for greenhouse tomato production systems and
6 technology to enable organic hydroponic agriculture.⁶² A sudden shift in organic certification
7 standards would prevent these growers from obtaining the full benefit of their investments and
8 cause confusion and uncertainty throughout the industry.⁶³

9 Moreover, under the restrictive standards urged by Plaintiffs, far fewer fruits and vegetables
10 will qualify as organic.⁶⁴ The potential effect on consumers is obvious: consumers will have less
11 access to organic produce at a time when demand is rising. Consumer demand for organically
12 produced food in the U.S. has increased dramatically over the past three decades: When Congress
13 passed the OFPA in 1990, it noted that “recent” polls in 1988 and 1989 had “produced identical
14 results – eighty-four percent of Americans want to purchase organically grown produce and half of
15 them are willing to pay more for such products. There appears to be a consistent demand for organic
16 food and American farmers are ready and willing to deliver it to the supermarkets.”⁶⁵ Indeed,
17 Congress clearly contemplated the organic program’s expansion when it noted that “growth in the
18 organic food trade ... has been hampered” by a lack of consistent standards for production and
19 passed the OFPA to set “national standards for organic production.”⁶⁶ Demand has only continued
20 to increase since then. According to USDA’s 2019 Organic Survey, sales of organic commodities
21 rose overall by 31% between 2016 and 2019, while sales of organic crops rose by 38%.⁶⁷ Of all

22 _____
23 ⁶¹ See, e.g., NOSB Tr. 111 (Apr. 13, 2017).

24 ⁶² This figure was calculated using the USDA data for consumption of fresh tomatoes multiplied
25 by the retail market share of organics and retail prices of organic tomatoes based on Nielsen retail
26 scan data divided by current organic greenhouse yields multiplied by the current cost per acre for
27 an acre of tomatoes.

28 ⁶³ NOSB Tr. 119 (Apr. 20, 2017) (describing anticipated financial strain and job losses).

⁶⁴ *Id.* at 119-22 (describing percentages of greenhouse grown tomatoes, peppers, cucumbers).

⁶⁵ S. Rep. 101-357, at 289.

⁶⁶ *Id.*

⁶⁷ USDA-NASS, Highlights, 2019 Organic Survey, USDA-NASS (Oct. 22, 2020),

1 organic sales, 58% came from crops during that period.⁶⁸

2 USDA’s NOP has succeeded in encouraging growth of the organic sector, as Congress
3 intended. As part of the 2019 survey, USDA found that 73% of all organic farms anticipate
4 maintaining or increasing organic production over the next 5 years.⁶⁹ And since 2008, the number
5 of organic farms, the acres used for organic production, and the value of organic products have
6 more than tripled.⁷⁰ Total sales of organic produce were estimated to be \$47.9 billion in 2018, an
7 increase of 5.9% from 2017, compared to 2.3% growth in total U.S. food sales.⁷¹ Consumers want
8 more organic produce.

9 There are numerous reasons for this heightened demand, as evidenced by an academic study
10 published in 2020, which conducted a “meta-analysis” of 25 years of survey data regarding “the
11 major reason(s) for the purchase of organic grocery, milk, fruits and vegetables.”⁷² The study found
12 that, over time, consumers have focused on three primary factors: personal health benefits
13 associated with organic products, quality of organic products, and concern for the environment. Of
14 these, the study found that consumers’ primary interest was directed to personal health benefits,
15 and that this health factor “can be perceived as a proactive mindset of people who are reacting
16 against the adverse effects of chemicals-infested food products.”⁷³ In other words, consumers’
17 belief in what they perceive to be the healthy qualities of organics is connected to the prohibition
18 on synthetic substances in organic foods – not to whether that food is grown in the soil.

19 While USDA does not track organic hydroponic production specifically, it does track
20 organic tomatoes and vegetables grown “under protection,” *i.e.*, under glass or some other
21 protection, a substantial subset of which constitutes container-grown produce. USDA notes that in

22 _____
23 https://www.nass.usda.gov/Surveys/Guide_to_NASS_Surveys/Organic_Production/.

24 ⁶⁸ *Id.*

25 ⁶⁹ *Id.*

26 ⁷⁰ *Id.*

27 ⁷¹ Becky L. Jacobs, et al., *A Quixotic Quest for Definition: Perceptions of ‘Organic’ and*
28 *Implications for the Environment and for Market Participants*, 12 KY. J. EQUINE, AGRIC. & NAT.
RES. L. 141, 142 (2020).

⁷² Jyoti Rana & Justin Paul, *Health Motive and the Purchase of Organic Food: A Meta-Analytic*
Review, 44 INTR’L J. OF CONSUMER STUDIES 162-171 (2020).

⁷³ *Id.* at 167.

1 2019 alone, organic growers grew organic tomatoes “under protection” valued at \$27,844,641 on
 2 6,663,057 square feet of farmland and organic vegetables (exclusive of tomatoes) valued at
 3 \$104,659,679 on 14,000,058 square feet of farmland.⁷⁴ Those numbers do not include organic
 4 container-grown mushrooms, sprouts, or berries, all of which are often grown in containers. Based
 5 on these and other data sets, *Amici* estimate that fresh produce grown in organic container systems
 6 has provided at least \$1 billion worth of organic fruits and vegetables for consumers and retailers.⁷⁵

7 Plaintiffs’ approach to circumscribing eligibility for organic certification ignores
 8 Congress’s intent “that production materials and practices keep pace with our evolving knowledge
 9 of production systems,” and would stifle the “growth” Congress intended.⁷⁶ Indeed, it would create
 10 a significant shortfall in organic produce for American consumers and harm growers who have
 11 relied on USDA’s approach for decades.

Conclusion

12 Under Plaintiffs’ restrictive interpretation of what constitutes “organic” under the OFPA,
 13 growers wishing to produce organic produce would be disincentivized from adopting new and
 14 innovative agricultural methods, and those farmers who have invested heavily in hydroponic
 15 agriculture, relying upon decades of USDA precedent, will suffer, as will consumers, who will face
 16 a shortfall in available organic produce.
 17

18 For these reasons, along with those set forth in USDA’s cross-motion, *amici curiae*, the
 19 Coalition for Sustainable Organics, Aquaponics Association, Western Growers Association, and
 20 The Scotts Company, LLC respectfully request that Plaintiffs’ motion for summary judgment be
 21 denied, and that Defendants’ cross-motion for summary judgment be granted.
 22

23 _____
 24 ⁷⁴ Data tables, 2019 Organic Survey, USDA-NASS (Oct. 22, 2020),
https://www.nass.usda.gov/Publications/AgCensus/2017/Online_Resources/Organics/index.php

25 ⁷⁵ This includes USDA data on U.S. consumption of fresh tomatoes, along with average pricing
 26 of organic tomatoes and the market share of organic greenhouse tomatoes based on Nielsen retail
 27 scan data divided, plus similar data for peppers, cucumbers, mushrooms, sprouts and berries, all
 28 of which are often grown in hydroponic production systems. *See, e.g.*,
<https://www.organicproducenetwork.com/amass/doc-get-pub/document/17/2019%20Organic%20Overview%20update%203.0%20Final.pdf> at 1-3.

⁷⁶ S. Rep. 101-357, at 297.

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27 * *pro hac vice* to be filed