

NEWS, NOTES & QUOTES



National Newsletter of the Mulch & Soil Council

August 2023

COUNCIL NEWS

2023 NATIONAL CONSUMER SURVEY REPORT

Since 2012, the Mulch & Soil Council has estimated the annual mulch market sales volume based on national consumer survey data published by the Garden Writers Association that is now more than a decade old. Using a combination of survey data and industry anecdotal guesstimates, the annual market volume of consumer bagged garden mulch sales was calculated at ~23.7MM cubic yards with bulk sales estimated at ~47.3MM cubic yards for a total industry volume of ~71 MM cubic yards of mulch.

That benchmark was thought to remain relatively true until 2020 when the Covid-19 pandemic changed many industry trends for the foreseeable future. As a result, the MSC Industry Statistics Committee commissioned an independent national consumer survey by Technometrica Market Intelligence (TMI) to update our consumer buying data for mulch products.

After developing and testing the survey questions over several months, the first consumer survey was conducted in March 2023 at the very START of the industry's high sales season. The data came back in April, and as we analyzed the results, the committee and Board of Directors saw such significant changes that it raised the question of how accurate were the results? So, the survey was repeated with a different group of consumers in June which is the END of the industry's high season.

The March survey had 1,414 respondents with a 95% confidence level and +/- 2.8 points reliability. The June survey had 1,358 respondents also with a 95% confidence level and +/- 2.8 points reliability. The June survey data was only different from the March survey data by a matter of a very few points.

MSC 2023 National Consumer Survey Results

According to the 2022 U.S. Census data, there are 124,010,992 HOUSEHOLDS in the U.S., but that includes everything from single family homes to townhouses, apartments, condos, and more that may or may not buy mulch. Our first objective was to try to identify how large the potential market is for garden mulch products from among all households nationally. To narrow our focus, we asked:

Q1: Do you have a yard or garden?

This question would allow someone with a lawn, garden bed, patio or balcony garden to respond positively as a potential user of mulch. In 2012, the number of households with a yard or garden was reported at 74%, but in 2023 our survey indicated that had risen to 76%. While not a great increase in percentage, the 2% difference adds another ~2.5MM households to our market nationally. The regional distribution of responses is shown in the following Figure 1:

2023 NATIONAL CONSUMER SURVEY REPORT

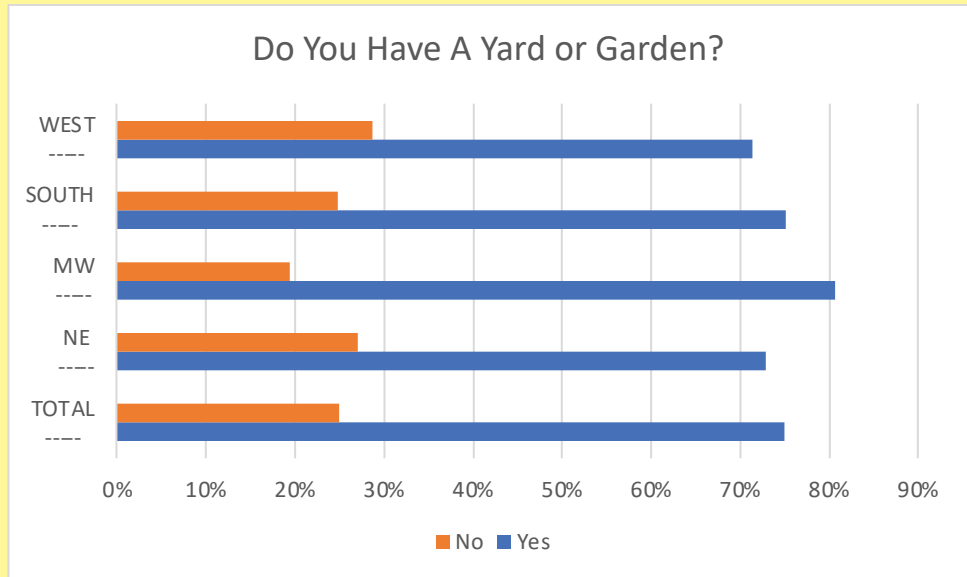


Figure #1: Percent of households with a yard or garden.

Q2: Did You Buy Mulch In 2022 Or Do You Plan To Buy Mulch In 2023?

For question #2, our objective was to identify what we could call a “regular” customer for mulch products. Since some consumers only buy mulch every other year, we asked who bought last year (2022) but had no plans for this year (2023), vs who bought this year but not last year vs who bought none in either year and finally who bought mulch in BOTH 2022 and 2023. While the gold lines in Figure #2 indicate 39% - 51% of consumers don’t buy mulch, another 31% - 37% are considered regular customers and in even or odd years anything from 7% – 14% of households could also participate. For our combined total, we calculated 39% as the ratio of U.S. households who we consider to be regular customers in any 2-year period or roughly **48,364,287 households who have a yard or garden**. In 2012, the estimated number of “regular” customers was not based on consumer responses but an industry guesstimate of 24% which is significantly lower than the consumer response data of 39% for 2023.

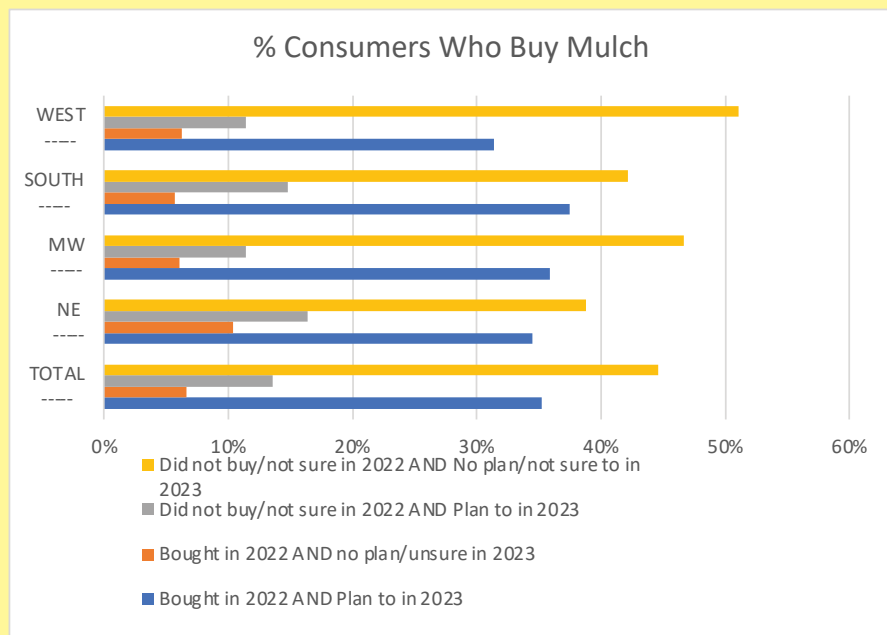


Figure #2: Percent Of U.S. Households That Buy Garden Mulch.

Q3: Do You Buy Mulch In Bags, Bulk Or Both?

Now that we know 39% of all households buy mulch regularly, we wanted to know



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how they preferred to get it; so, we asked if they bought in bags, bulk or both. Regional variations are shown in Figure 3, but nationally 64% bought mulch in bags, 15% bought only in bulk and another 21% bought in both bagged and bulk. To get to a total volume for the bag and bulk mulch market, we divided the “both” category in half and added 11 points to bagged and 10 points to bulk giving bagged mulch purchases at 75% of households and bulk purchases at 25% of households resulting in:

36,273,215 household buying bagged mulch and
9,189,214 households buying bulk mulch.

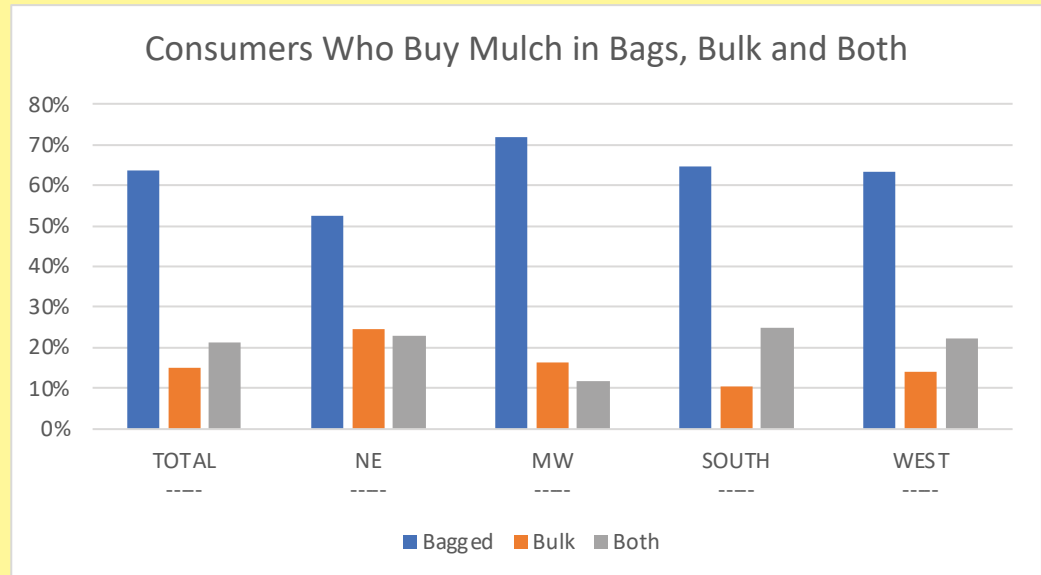


Figure #3: Percent Of Households That Buy Mulch In Bags, Bulk And Both.

Q4: How Many Bags Of Mulch Do You Buy Each Year?

Next, we wanted to determine how many bags of mulch on average each household purchased each year. In 2012, we estimated from sales tracking data that the average purchase was 11-15 bags; so we averaged it at 13.5, 2 cu ft bags or 1 cu yd/ household.

In our 2023 survey, we asked consumers how many bags they purchased per year. Figure 4 shows the responses by region but the national average is as follows:

# Bags	%
1 – 5	36%
6 -10	33%
11 – 15	12%
16 – 20	10%
Pallet Load	5%
>Pallet Load	1%
Not sure	3%
Mean(avg.)	11.83 cu yd
Median	8.0 cu yd

While the charts visually favor the 1-5 bag category, the 11-15 and 16-20 categories catch up mathematically and the actual average (median) number of bags/household was calculated at 11.83 bags. The responses were also placed in ranked order from lowest to highest and the mid-point (mean) where there are as many entries above as below was 8.0 bags/household.

To calculate the total number of mulch bags, we used the average of 11.83 bags/household resulting in a volume of 326,213,709, 2 cu ft bags or 24,163,978 cu yd of mulch in 2023 compared to 23,657,636 cu yd in 2012. This is an increase of 2.14% over an 11-year period.

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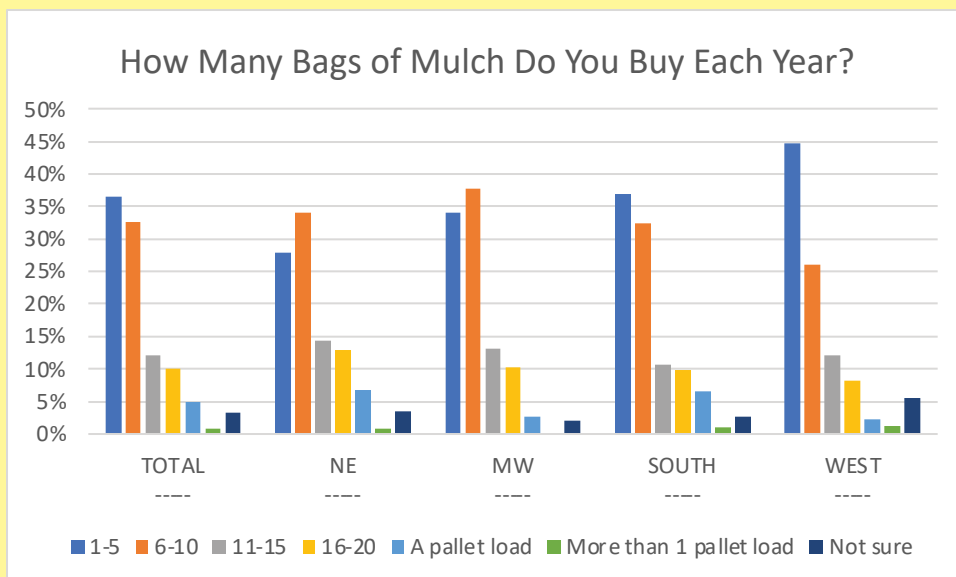


Figure #4: Average number of bags bought per household.

Q5: How Many Cubic Yards Of Mulch Do You Buy Each Year?

In 2012, our estimate of bulk sales in the lawn & garden category was based solely on anecdotal evidence suggesting the bulk market was 2/3 of the bagged market sales; so, 23.6MM cu yd of bagged mulch meant bulk volume was calculated at 47.3MM cu yd for an industry total estimate of 70.9MM cu yd of mulch sold annually.

Our objective in 2023 was to identify a statistical basis for calculating bulk volume sales for mulch, and we found that 9,189,214 households that have a yard or garden bought mulch in bulk. We asked those households how much bulk mulch they purchased on average each year. Figure 5 shows the regional variations in responses, but the national average showed:

Cu Yd	%
1 – 5	19%
6 -10	29%
11 – 15	21%
16 – 20	12%
>20	9%
Not sure	10%
Mean(avg.)	10.62 cu yd
Median	8.0 cu yd

We chose the more conservative median value of 8 cu yd in order to minimize the impact of smaller percentages of very large (>20 cu yd) purchases. That gave us a consumer bulk purchase estimate of over 9 million households buying 8 cu yd each at a total of 73,513,716 cu yd in 2023 compared to 47.3MM cu yd in 2012 resulting in a 55% difference in volume estimates over the 11-year period. While there has been a

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perceived increase in the bulk mulch market in recent years, the significant change in volume estimates can more likely be attributed to the inaccuracy of our anecdotal 33% bagged vs 66% bulk estimate in 2012 which in 2023 calculates to 25% bagged vs 75% bulk markets.

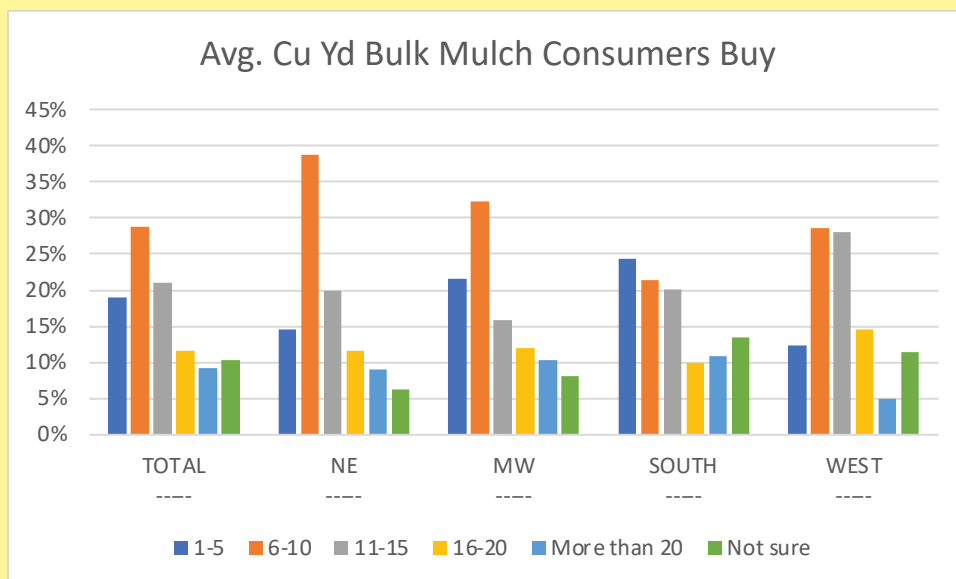


Figure #5: Average consumer bulk mulch purchases per household.

Total Estimated Consumer Lawn & Garden Sales Volume & Value

Based on the 2 national consumer surveys conducted at the start (March) and end (June) of the 2023 high-season market for the mulch and soils industry, we can compare our 2012 and 2023 market estimates as follows:

	2012	2023	% Change
Bagged mulch in cu yd	23,657,636	24,163,978	+2.14%
Bulk mulch in cu yd	47,315,271	73,513,716	+55.37%
Total Volume	70,972,907	97,677,694	+37.63%

As a final part of our survey, we used the consumer data to estimate the dollar value of the consumer household bagged and bulk mulch market. Using an internet search of bagged mulch retail prices, we determined the average consumer cost of a 2 cu ft bag was \$4.00 X 13.5 bags/cu yd = \$54/cu yd.

To determine the historic market prices of bulk mulch, we asked a dozen members from across the country to estimate the consumer sales price for bulk wood mulch materials and reached a consensus on an average of \$24/cu yd over the past year.

Combining the bagged and bulk market prices estimates, we calculated the total market sales values at:

Bagged Mulch Market = 24,163,978 cu yd X \$45/cu yd =	\$1.3Bn
Bulk Mulch Market = 73,513.716 cu yd X \$24/cu yd =	<u>\$1.8Bn</u>
Total combined mulch market value	\$3.1Bn

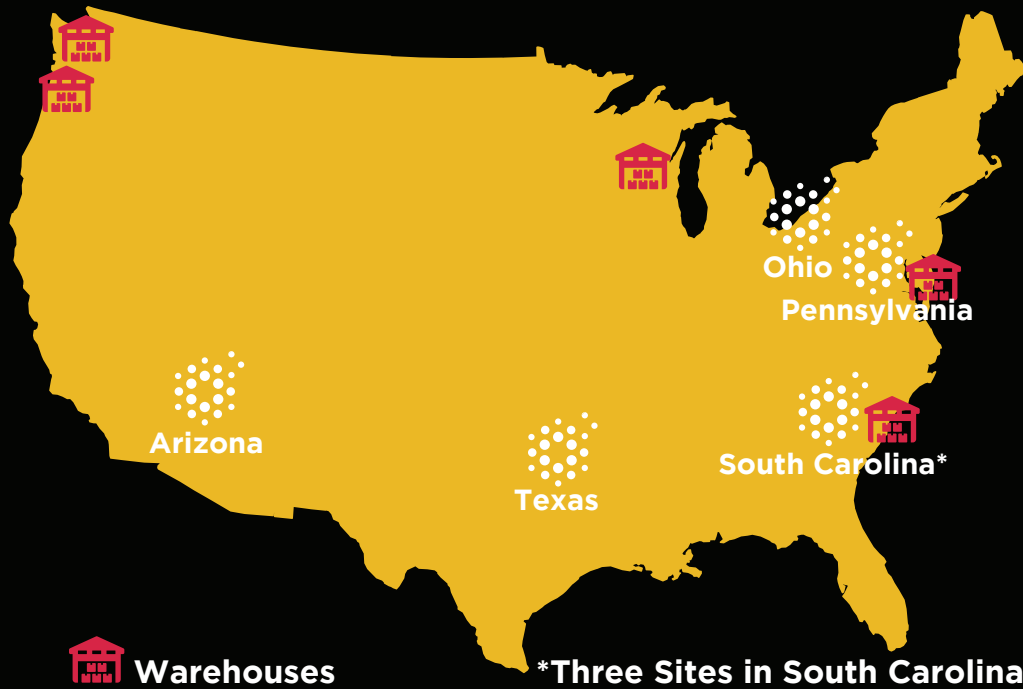
Caveat: This survey is limited to consumer households with a yard or garden and does not include commercial landscaping or government use of horticultural wood mulches.

What About Soils?

MSC's current estimate of the soils market is purely anecdotal and based on an assumption that soils product sales represent 40% of mulch products sales by volume. That assumes that the regular buyers of soils are essentially the same as the regular



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COMMITTEE REPORTS



buyers of mulch, just at lower volumes of material. To test that theory, we asked consumers who have a lawn or garden if they bought at least one soil product over the past 2 years, just as we asked mulch buyers.

Figure 6 shows the regional variations in the percent of consumers with a yard or garden who bought at least one soil product over the last 2 years. The national average of responses was:

Bought in both years	45%
Bought last year only	10%
Bought this year only	10%
Bought none in either year	35%

As with mulches, the weighted average of “regular” buyers was calculated at 48% of households with a yard or garden or 23% greater than the 39% for regular mulch buyers. This warrants a further investigation, but that is another survey the MSC Statistics Committee will conduct later this year.

###

The MSC committees met in Nashville last month in conjunction with the quarterly Board of Directors meeting. The following is a brief review of committee activities:



Certification Committee:

The Certification Committee reviewed the current certification program status and financials. Then the Organic Subcommittee

reviewed the consumer survey data on organics, OMRI and All-Natural product attitudes (see June NNQ for full survey report) including:

- Half of all consumers believe organic and all-natural are the same.
- 28% of consumers prefer an “organic” label while 50% more (43%) would prefer a label certified all-natural by the MSC.

Staff then presented a potting soil certification framework where multiple issues were discussed regarding industry, state and federal requirements for organic and all-natural products. It was the consensus of the subcommittee that consideration of a “Certified Organic” label by MSC should be dropped and the subcommittee would focus on developing a “Certified All-Natural” label for the industry. The proposed staff-developed framework would be sent to the subcommittee’s group of regulatory experts for consideration and comment before returning to the subcommittee for discussion at its October meeting.

Bylaws Committee: The Bylaws Committee conducted a final review of proposed changes to the Council’s bylaws with the directors and member observers present for the meeting. Seven additional edits and changes were proposed and accepted for a total of 73 separate amendments to the bylaws. The committee also reviewed the 6 administrative provisions that had been moved from the bylaws to the MSC Board of Directors Policy Manual. All amendments were agreed upon and the committee voted to propose the changes to the Board of Directors for their approval prior to submitting them to the membership for a formal vote at the Annual General Business Meeting in Savannah in October.

The Bylaws Committee also discussed and recommended to the Board that a policy be adopted on hybrid electronic & in-person meetings for the Board, committees and



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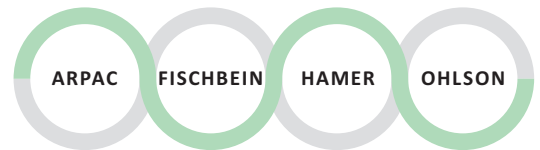
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membership events. It was the consensus of the committee that electronic participation by Directors and committee members should be treated the same as in-person participation at Board and committee meetings. However, the cost and organizational support required to extend the same option to event observers was beyond Council resources; so, while member observers remain welcomed at events in person, electronic participation would not be provided at Board, committee or other member events unless the entire event was electronic.

Industry Statistics Committee: The Statistics Committee reviewed the results of the second consumer survey completed in June and compared it to the first survey conducted in March. There was no significant difference indicating that the first survey was accurate in its reported results. Upon finalizing the data and calculations for mulch market volume and value, the committee voted to request Board funding for another national consumer survey on soils.

Mulch & Soil Research Foundation: The purpose of the Mulch & Soil Research Foundation is to conduct scientific research on the efficacy and safety of horticultural mulches and horticultural growing media for applications in consumer gardening, commercial greenhouse production and nursery propagation. Since its founding in 2005, the MSRF has researched and published key industry reports on:

- (2008) *An Assessment of the Sustainability of Cypress in Seven Southeastern States*
- (2009) *KSU Mulches and Living Organisms Study.*
- (2017) *Protocol for Proposition 65 Chemical Exposure & Regulatory Risk Assessment for Use of Garden Mulches, Potting Mixes, Landscape Soils & Soil Amendments/Composts*
- (2019) *Landscape Wood Mulch and Potting Soil Temperature Profile Study*

As the independent research arm of the MSC, the MSRF is required to hold at least

COMMITTEE REPORTS (CONT'D)



one meeting of its Board of Directors each year. The July meeting was its official annual meeting. The current ex-officio directors of the Foundation are the officers of the Mulch & Soil Council. The officers of the Foundation were reelected for another 1-year term as follows: Jim Weber (Ohio Mulch), President; Byron Morgan (Mountain West), VP; Joe Ertel (Oldcastle Lawn & Garden), Sec/Treas; and Robert LaGasse (MSC), Executive Director. The officers reelected the following at-large directors for another year: Kay Jeong (Sun Gro Horticulture), Kent Rotert (Colorbiotics), and Randy Tyre (Waupaca Northwoods). The Board reviewed the financial report. Robert LaGasse reported there were no active research projects at the present time, and the meeting adjourned.

BOARD OF DIRECTORS MEETING REPORT



The MSC Board of Directors met on July 27 in Nashville, TN. After approving the April Board minutes, the Board approved Director Rob Hudiburg's request to reassign Kellogg Garden Products official member representation and Council Board seat from Rob to Kellogg's new Vice President of Supply Chain & Operations Ricky Urteaga.



Council President Jim Weber (Ohio Mulch) welcomed everyone to the meetings, the Board approved the Executive Director's report and then conducted a line-by-line review of the MSC financial statement. The Board then moved on to committee business:

- **Bylaws Committee:** Approved the proposed bylaw changes from the Bylaw Committee and authorized notice of membership ballot at the Annual General Business Meeting (AGM) in Savannah.
- **Certification Committee & Organic Subcommittee:** Accepted the committee report and voted to change the subcommittee's charge from organic to all-natural certification development.
- **Industry Statistics Committee:** Accepted the committee report and survey data and voted to authorize an additional national consumer survey on soils.
- **Nominations Committee:** Received the committee's report that the incumbent directors are willing to run for reelection and that additional nominations have been solicited in the NNQ Newsletter.
- **Dues Committee:** The Board considered concerns that industry consolidations and other market forces may cause financial issues for the Council as larger companies with a dues cap acquire small and medium sized companies thereby reducing the revenue base of the organization. The lower end of the dues schedule was raised a few years ago but the upper levels and cap have been the same for 40 years. The Board authorized President Jim Weber to create a Dues Committee to review the issues and make recommendations for future action.

Legislative & regulatory issues were the next topic of discussion. Bob LaGasse reported on the activities for the state and Federal legislative monitoring program. The weekly report highlighted just the recent changes and more members have added staff to receive the reports since the first of the year. Several regulatory issues have come up with multiple states and the Council was able to resolve the problems or at least clarify the solution in every case. Finally, PFAS legislation and regulations continue to be a concern especially where use of biosolids or soils from land-applied biosolids are involved. The problem may be our industry's blanket inclusion in a category of materials that will require expensive PFAS lab testing and some states are setting PFAS limits at 100 ppm and others at 50 ppb. MSC will keep monitoring legislative and regulatory progress and report to the Board.



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BOARD REPORT (Cont'd.)



The Board then reviewed the progress, registration pickup, speakers, sponsors and other arrangements for the Plant Managers Training Course on Fire BMP and Equip Maintenance in Las Vegas in August and the annual membership meeting in Savannah in October. Both meetings are approaching “Sold Out” status and Shelli Williams is working to expand our meeting facilities and resources as much as the hotels and contractors will allow. Our 2024 annual meeting is scheduled for San Antonio, but 2025 is open. Orlando and Nashville were suggested for staff to investigate.

The next meeting of the MSC Board of Directors will be held at 8:00am on October 11 at the DeSoto Hotel in Savannah.

###

URTEAGA JOINS MSC BOARD

The MSC Board of Directors welcomed Ricky Urteaga as the official Kellogg Garden Supply representative at their July meeting in Nashville at the request of Kellogg President Rob Hudiburg. Kellogg was elected to the Board in 2021 for a 3-year term ending in 2024. Ricky is an experienced Supply Chain Vice President with a demonstrated history of working in the building materials, Consumer goods and Promotional products industry. Skilled in Negotiation, Operations Management, Consumer Products, Warehouse Operations, and Management, he joined Kellogg Garden Supply as Vice President of Supply Chain & Operations in June 2023. Prior to that, Ricky was Supply Chain & Operations Executive Leader, at The Scotts Miracle-Gro Company in the Los Angeles Metropolitan Area (2020) and Vice President of Supply Chain & Logistics at CEMEX in Ontario, California (2018).

Ricky earned his B.S. in Business Management & Operations Management at California State University in Long Beach in 2002 and his MBA in Business Administration and Management from Pepperdine Graziadio Business School in 2012.



Ricky Urteaga
VP Supply Chain & Operations
Kellogg Garden Supply

PLANT MANAGER'S TRAINING COURSE

MSC has been conducting Plant Managers Training Courses on Weights & Measures since 1996, but the first MSC Training Course on Fire BMPs & Equipment Maintenance was held in Las Vegas at the Caesar's Palace Hotel on August 23. There were 30 participants from across the country in this year's course.

The program led with a 5-hour, in-depth presentation by Don Dugger on Best Management Practices for fire prevention, safety and response. Don spent more than 30 years in the industry with much of it managing one of the Scotts Company's largest and most successful mulch and soil production plants in Lawrenceville, Va. As Director of SMG's Northeast Region, Don was involved in developing and training company employees and plant managers on fire BMPs for many years until his retirement in 2022.

The second part of our program focused on equipment maintenance. Our expert instructor, Ted Dirkx of Vermeer Corp., showed the group 4 key maintenance strategies to use to prevent the unpredictable and highly risky "fail and fix" roll of the dice system, and instead, create a profit sustaining "predict and prevent" environment for your plant maintenance program. Ted understands the need for a new paradigm in equipment maintenance as a result of his 12 years traveling 25 weeks a year across North America and beyond helping organizations set up compost facilities, manufacture mulch, clear land, and produce biofuels.

According to course participant Katie Blaylock, Quality Control Manager at Denali in Conroe, TX, "This course was very eye opening and reaffirming as to why Fire Safety and Equipment Maintenance is important. It was a reminder that taking the time for the day-to-day tasks that we think are minor or not important, will save us time and money in the long run."

Nate Weaver, President of Michigan Wood Fibers in Zeeland, MI, was also a participant and said, "I thought the plant managers training was helpful. It was interesting to hear and see real examples given by the speakers and to discuss fire and maintenance risk prevention. It's always nice meeting with others who are in the same industry!"

The Mulch & Soil Council is thankful for the tremendous support of our program presenters and sponsors who made this new training course curriculum possible – **THANK YOU!**

The 2024 MSC Plant Managers Training Course is expected to return to the topic of weights & measures and product package labeling.

THANK YOU To Our 2023 Plant Managers Training Course Sponsors

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Thirty Industry Owners & Managers Gathered in Las Vegas for the 2023 Plant Managers Training Course.



Don Dugger Lectures on Best Management Practices for Fire Prevention, Safety and Control.



Ted Dirkx Presents a New Way to Look at Equipment Maintenance With Four Key Strategies.

ANNUAL MEETING UPDATE

The 52nd MSC Annual Meeting is just weeks away and pre-meeting participation has sold out across the board from sponsor support, exhibit booth sign-ups and early participant enrollment. Annual Meeting Program Chair Larry Doose (Sylva Corp) announced our 2023 meeting program is complete and ready to provide members with an outstanding overview of key issues and opportunities for your company and the industry.



Join us in this historic southern city for MSC's 52nd Annual Meeting!

Covering topics for everyone from owners and plant managers to account and marketing managers to industry suppliers.

This year's meeting topics will include:

- The Crow Report: What's Going on in Washington D.C.
- What About Biochar?
- Technology That Works
- Canadian Peat: Ideal for Growing For Generations to Come
- Managing Through A Catastrophic Event

Keynote Speaker: Ken Schmidt

*Authentic Leadership and Customer Loyalty Expert
Senior Role in Harley-Davidson Turnaround*

Author, Make Some Noise: The Unconventional Road to Dominance

We hope to see you there!

Mulch & Soil Council 2023 Annual Meeting

Celebrating 52 Years!

October 10 - 12, 2023

The DeSoto Hotel
Savannah, GA

For more info, go to
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2023 MSC Annual Meeting

October 10 - 12, 2023

The DeSoto Hotel - Savannah, GA

Tuesday, October 10

1:30p-5:00pm MSC Committee Meetings

Members in good standing are welcomed to participate in committee meetings as observers.

5:00p-6:30p Meet the MSC Board of Directors

Join the MSC Board of Directors for informal talks over cocktails as they share information on the programs and activities of the Council and the industry. *Sponsored By nVenia*

Wednesday, October 11

8:00a-12:00p Board of Directors Meeting

Members in good standing are welcomed to participate in the Board of Directors meeting as observers.

12:30p-1:00p Break *Sponsored By Inteplast Engineered Films*

1:00p-1:30p Official Opening and Welcome

Hear from MSC President Jim Weber, Program Chair Larry Doose, Legal Counsel John Hazard and Executive Director Robert LaGasse as we invite you to join us for the start of the 52nd MSC Annual Meeting.

1:30p-2:30p Crow Political Report

Join us as MSC Legislative Representative DAVID CROW presents our annual update on the state of politics in the U.S.

2:30p-3:00p Break *Sponsored By T.H. Glennon*

3:00p-4:30p 52nd MSC Annual Membership Meeting

Hear reports from MSC leadership and committees, elect Council directors and discuss MSC programs and activities as they may impact your business and the industry. **Moderator: Robert LaGasse, MSC Executive Director**

4:30p - 7:00p Opening Reception & Affiliate Member Displays

Join us to meet with old friends and new members over cocktails and hors d'oeuvres while visiting with the industry's leading suppliers and vendors. *Sponsored By Vermeer Corporation*

Thursday, October 12

8:30a-9:00a Break *Sponsored By Faltech*

9:00a-10:00a Canadian Peat: Ideal for growing, for generations to come

Peat has been recognized by generations of growers and consumers worldwide as the quintessential growing media component with characteristics that are unrivalled. Peatlands, from which peat is extracted, constitute a very precious ecosystem that plays a role in carbon sequestration, a key factor in global warming. At a time when questioning the GHGs we emit and sustainability has become the norm and when, sometimes, context is put aside and unfortunately replaced by information from other parts of the world, CSPMA, the association of Canadian peat producers, presents the science, 30-years in the making, about the Canadian Peat extraction industry and how it sees its sustainable future. **Speakers: Asha Hingorani, CSPMA & Michel Guay, Premier Tech**

10:00a-10:30a Break *Sponsored by Chromascape*

10:30a-11:30a What is Biochar?

This presentation will seek to provide an overview of the current state of biochar as a commercial product and answer the questions: What is biochar?, How is it made?, Why is that different than just burning wood?, How does biochar sequester carbon?, What to do with biochar?, What is the value \$\$\$?, What opportunities are there in biochar for soil amendment producers, vendors, applicators, and benefactors?, How to get involved with the emerging industry? **Speaker: Nick Vetsch, TRUE Advisor**

11:30p-2:00p Keynote Luncheon - Ken Schmidt, Former Harley-Davidson Director

It's an impersonal world, where so many products and services are seen as easily-replaced, indistinct commodities. Whether you stand out or get lost in the crowd is a choice. A mindset. Ken Schmidt faced those same challenges himself and gained acclaim for his role in the extraordinary turnaround of the legendary Harley-Davidson Motor Company. That transformation was based on a change in mindset and a focus on answering three key strategic questions. While times have changed, what humans want and need from the businesses they buy from and work for hasn't. In his high-energy speeches, Ken inspires companies and individuals to shift their thinking and ride a path to success by becoming memorable – not for what they do or what they make, but for how they connect with people.

2:00p-3:00p Technology That Works

This session will cover 8 types of technology that have been implemented that will give any operation a higher level of management, control and reduce costs. **Speaker: Ben Ballard, Sylva Corporation**

3:00p-3:30p Break *Sponsored By Social Marks Media*

3:30p-4:30p How to Manage Through A Catastrophic Event

Hear from a panel of members who have experienced these situations and learn what they did to navigate through their crisis and what they have done to guard against this from happening again. Advice will be given as to the proper insurance coverage to have, how to negotiate with insurance companies, and also adopting best management practices. **Panelists: Steve Liffers (Denali), Kimberly Rygielski (Scotts Co.), Jim Weber (Ohio Mulch). Moderator: Larry Doose, Annual Meeting Program Chair**

4:30p-6:00p President's Reception

Join us for our closing event as the President's Reception gives participants the opportunity to recap the bounty of information presented at the meeting and say goodbye to old and new friends before returning home reenergized. *Sponsored By Komptech*

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Everyone is Welcomed to Participate!

Sharing experiences and learning from others who have gone through the same trials is one of the major reasons for industry meetings. There is no better proof of the value of getting together as an industry than last year's RECORD BREAKING attendance in Charlotte. Building on that experience, we plan to set another record in Savannah for 2023.

From owners to plant managers or marketing and sales executives to industry suppliers, the MSC invites all interested parties to Savannah for the 52nd MSC Annual Meeting. Come in person to network with industry people and to hear what the Council is doing for your benefit.

General Meeting Guidelines:

Non-Members: Participation from non-member companies is welcomed. Non-member participants may attend one association meeting as a first-time registrant and are entitled to the member registration rate. Participation at a second meeting as a non-member is permitted at non-member registration rates. Attendance at additional meetings is by special invitation only. Non-members of MSC may join the Council at any time prior to the Annual Meeting and receive an immediate discount on the registration fee. For information on becoming a member, contact the MSC office at (806) 832-1810.

Meeting Registration: Registration fees include participation at education sessions, handouts, coffee breaks, receptions and the Keynote lunch. Travel to the meeting and hotel accommodations are NOT included in the registration.

Cancellations & Refunds: Cancellations must be received in writing at the MSC office by September 20, 2023, and will be subject to a cancellation fee of 25%, which will be deducted from the refund. No refund will be made for cancellations received after September 20, 2023.

Limits of Liability: The planners, sponsors and host hotel owners, management and staff of the MSC Annual Meeting and its associated events claim no liability for the acts of any supplier to this meeting, nor for the safety of any attendee while in transit to, in residence at or in transit from this event. Attendees who purchase non-refundable airline tickets do so at their own risk. In the event of meeting cancellation, the total amount of liability of the planners and sponsors will be limited to a refund of the registration fee. Submission of the registration form acknowledges acceptance of these provisions

Hotel Information:

The DeSoto Hotel is centrally located in Savannah, just steps from Savannah College of Art and Design and within a 10-minute walk of Forsyth Park. This 4-star hotel is 0.5 mi from Savannah Civic Center and the famous River Street restaurant and entertainment promenade. As much a part of Savannah as city squares and Spanish moss, The DeSoto blends the elegance, history, and charm of one of America's oldest cities with a playful dose of Southern spirit. Step inside this beautiful downtown Savannah hotel for foie gras and fried green tomatoes, or meet friends on the back porch for a "Sip & Stroll" walking tour.

The DeSoto Hotel Reservations: **SOLD OUT!**

A special block of rooms has been set-aside for MSC meeting participants. The preferred guest rate for MSC members is: \$185 (+tax)/night. The deadline for discounted room rates and space availability is when the block is filled or SEPTEMBER 18, 2023 - WHICHEVER COMES FIRST.

Our Hotel Room Block is Sold Out at the DeSoto, but there are nearby options. For more information and registration materials, visit our website at:

<https://www.mulchandsoilcouncil.org/meetings.php>

NOTICE!

PROPOSED BYLAW AMENDMENTS

The MSC Board of Directors has approved a series of amendments to the Council bylaws that the membership is being asked to approve by official vote at the Annual General Membership Meeting on Wednesday, October 11, 2023 at 4:00pm at the DeSoto Hotel in Savannah. An official notice and copy of the bylaw proposals was sent to the entire voting membership by e-mail on August 18th in accordance with the 30-day notice requirement of the current bylaws. Anyone with a question or comment should contact MSC Executive Director Robert LaGasse at execdir@mulchandsoilcouncil.org or 806.832.1810. An additional copy of the proposed bylaw amendments can be downloaded from the MSC website at: ([2023 MSC Draft Bylaw Amendments](#))

FINAL CALL FOR NOMINATIONS



The MSC Board of Directors currently consists of 12 member company representatives elected by the membership. Directors serve for 3 years with 4 director seats expiring in rotation each year. Directors serve without compensation or reimbursement for a minimum of 4 meetings a year. The MSC Nominating Committee is seeking nominations or volunteers as candidates for the 2023-2026 Director terms. Any official representative of a member company in good standing is eligible to be nominated or volunteer for elective office and /or serve on an MSC committee. Contact MSC Executive Director Robert LaGasse for details at 806.832.1810 or execdir@mulchandsoilcouncil.org.

LEGISLATIVE & REGULATORY NEWS

AAPFCO SUMMER MEETING REPORT



In August, Council staff participated in the summer meeting of the Association of American Fertilizer Control Officials (AAPFCO) in Baltimore where we had the opportunity to discuss product and labeling issues in several states with the regulators directly involved in the decisions. MSC was able to favorably resolve several conflicts members reported with states and clarify issues on several more.



The MSC has been representing the mulch and soil industry at AAPFCO events since 1996 in order to provide members access and resources to resolve regulatory problems across multiple states when general or specific issues arise. In addition to addressing issues for members, the Council was able to get feedback from several critical states on rules relating to organic and natural certification claims requirements under their laws. This information will be very helpful to the efforts of the MSC Certification Committee and All-Natural Certification Subcommittee in the coming months.

A HEADS-UP: the AAPFCO Biostimulant Committee proposed, and the membership moved to "Official", the final version of the "*Uniform Beneficial Substances Bill*". This proposed bill will regulate the registration and sale of biostimulants and many soil amendments as states move to adopt the bill. The transition may take several years but multiple states have indicated they plan to submit the model bill in their next legislative session which generally will begin in January 2024. Look for any bill proposals in your state and watch the *MSC State and Federal Legislative Reports* for any early notices in November, December and throughout the next legislative session. MSC will send members a copy of the *Uniform Beneficial Substances Bill* when the final version is published by AAPFCO.

ALSO, in a welcomed move, a Michigan official indicated the state is considering putting the AAPFCO *Uniform Beneficial Substances Bill* and the *Model Growing Media Labeling Act* in their legislative hopper for 2024.



Effective immediately, the Animal and Plant Health Inspection Service (APHIS) is issuing a Federal Order that expands the existing imported fire ant (IFA; *S. invicta*, *S. richteri*, and hybrids of these species) quarantine areas in Charlotte, Dinwiddie, Halifax, Lunenburg, and Sussex Counties, Virginia. The Virginia Department of Agriculture and Consumer Services verified that IFA is present and established in the areas listed. APHIS is taking this action to prevent the interstate spread of IFA. APHIS will follow this action by publishing a Notice in the Federal Register.

The full lists designating IFA quarantine areas and regulated articles are published on the APHIS website ([APHIS CLICK HERE](#)). For additional information on the Federal IFA regulatory program, please contact the IFA National Policy Manager, Ron Weeks, at Ron.D.Weeks@usda.gov or 919-559-4311.

###



APHIS updated the [Federal Domestic Soil Quarantines Map](#) to include the following changes:

- Removed the Mexican Fruit Fly (*Anastrepha ludens*) quarantine in the Valley Center area of San Diego County, CA.
- Added the *Zeugodacus tau* Fruit Fly quarantine in the Stevenson Ranch area of Los Angeles County, CA.
- Added the Imported Fire Ant quarantine in Charlotte, Dinwiddie, Halifax, Lunenburg, and Sussex Counties, VA.

APHIS restricts the movement of domestic soil from areas within the continental United States that are under quarantine for specific plant pests. The Federal Domestic Soil Quarantines Map provides an overview of the plant pest quarantines that affect the movement of soil. This map is a general guidance tool only. Please contact your local [APHIS State Plant Health Director](#) for specific quarantine information, including quarantine boundaries and the requirements for moving domestic soil.

###



Effective immediately, the Animal and Plant Health Inspection Service (APHIS) is adding Lake and Whitley Counties in Indiana to the list of quarantine areas for spongy moth (formerly known as gypsy moth). The moth populations in these counties have reached the threshold to trigger the quarantine expansion.

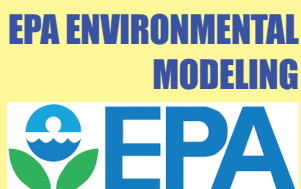
To prevent further spread of spongy moth, the attached Federal Order provides notification that APHIS is adding Lake and Whitley Counties in Indiana to the regulated area. Effective immediately, all interstate movement of regulated articles from Lake and Whitley Counties must be handled in accordance with [7 Code of Federal Regulations \(CFR\) § 301.45](#). Indiana has established a parallel state quarantine.

Spongy Moth is a highly destructive insect of approximately 300 species of trees and shrubs. The Spongy Moth Program prescribes conditions for the interstate movement of regulated articles from quarantine areas. The federal and state partnership limits the establishment of the moth outside the quarantine area that would result from human-assisted movement of the pest.

The full lists designating spongy moth quarantine areas and regulated articles are published on the APHIS website at: <https://www.aphis.usda.gov/aphis>

For more information about the Spongy Moth Program and Federal spongy moth regulations, please contact National Policy Manager Kathryn Bronsky, at kathryn.e.bronsky@usda.gov or (301) 851-2147.

###



On Tuesday, October 10, 2023, the U.S. Environmental Protection Agency (EPA) will hold an Environmental Modeling Public Meeting (EMPM) to discuss current issues related to modeling pesticide fate, transport, and exposure for pesticide ecological risk assessments in a regulatory context. This public forum for pesticide registrants, other stakeholders, and EPA will allow for participation in-person, and via phone and webcast. The 2023 EMPM will provide a forum for presentations and discussions on surface water and groundwater modeling and endangered species assessment modeling. EPA will present information on updated Pesticide in Water Calculator (PWC)



surface water and groundwater scenarios, including the recent development of spatially diverse groundwater scenarios. In addition, EPA will provide updates on modeling approaches to support endangered species assessments and evaluation of mitigation measures including EPA’s Plant Assessment Tool (PAT) and Vegetative Filter Strip Modeling System (VFSSMod).

Requests to attend the meeting must be submitted on or before October 3, 2023. Requests to present with an accompanying abstract must be submitted on or before September 1, 2023. Please contact Jessica Joyce and William Gardner (OPP_EMPM@epa.gov) to register for or request to present at this meeting. More information can be found at www.regulations.gov in docket number EPA-HQ-OPP-2009-0879. [Contact Us](#) to ask a question, provide feedback, or report a problem.

#

SCOTUS REINTERPRETS “HARDSHIP”



As you’re probably aware, Title VII of the Civil Rights Act requires that employers with 15 or more employees make reasonable accommodations for employees’ religious practices and beliefs, so long as it doesn’t cause an undue hardship. Previously, undue hardship—as it applied to religious accommodations—meant “more than a *de minimis* cost.” The Supreme Court has now reinterpreted undue hardship in this context to mean “a substantial increased cost in relation to the conduct of [the employer’s] particular business.”

While the term *substantial* isn’t defined, the Court said employers should consider the requested accommodation and its practical impact relative to the nature, size, and operating costs of their business. Note that even under the old *de minimis* standard, the EEOC indicated in the federal regulations that undue hardship wasn’t likely to be caused by temporary costs, voluntary or occasional shift swapping, or administrative costs.

The bottom line is that this new interpretation will make it more difficult for employers to deny religious accommodations on the basis of undue hardship. As a result, you should plan to grant most requests unless you’re certain you can show substantially increased costs.

INDUSTRY NEWS

CERTIFIERS FLAUNT LAW ON HYDRO/CEA ORGANICS



In June, six organic certifying agencies sent out a press release and a *position statement* declaring that hydroponic production is not organic. The public statement comes after the U.S. National Organic Program (NOP) issued a “non-compliance” order to one of those organic certifiers, OneCert, after they refused to certify hydroponics as organic in accordance with the NOP regulations and guidelines. In addition to OneCert, the statement was originally signed by NOFA-NY, Vermont Organic Farmers, OEFFA, the Real Organic Project (an add-on label) and MOFGA. Other organizations and certifiers have signed on since the original announcement.

MSC has been following along as the U.S. organic industry battles this topic. On the face of it, you have organic farmers and advocate organizations who are adamant that soil-based growing is a fundamental principle of organic growing and that growing in soilless media, or even in containers, cannot be considered organic. On the other hand, you have the National Organic Program that has stated for decades that hydroponics can be certified organic; and that claim has so far been upheld in one court ruling and two appeals, all in USDA’s favor. While the NOP considers this issue decided, the opposition to organic hydroponic is not dropping the topic.

On the surface, this is cast as an argument over principle, but with many “principled” arguments there is also an economic issue — in this case, the economics of greater supply = lower prices. Going back to the early days before the first lawsuit was filed, the leaders of several participating advocacy organizations were publicly quoted as very vocal about not only the “growing in soil or the earth’s crust” issue but the

ORGANICS (Cont'd.)

fact that the yield/acre of hydroptic crop production was an economic threat to small farms.

As demand for organic produce has grown, higher yield farms typically claim more of the market revenues, but of course, that is not the real problem. No, after 2 decades of USDA organic approval, the real problem is that only growing in the earth's crust is not a vastly outdated idea.

###

IT'S SEWAGE, NOT FERTILIZER



A recent study by Florida Atlantic University's Harbor Branch Oceanographic Institute challenges the assumption that fertilizer is the main cause of environmental issues in Florida's Indian River Lagoon. The study, published in Marine Pollution Bulletin, found that sewage, rather than fertilizer, is responsible for exacerbating problems like harmful algal blooms and seagrass decline. After five years of fertilizer bans, researchers discovered that water quality had worsened due to increased algal blooms and seagrass die-offs, primarily driven by sewage inputs. The study's findings emphasize the need for more comprehensive mitigation strategies beyond fertilizer restrictions to address human waste's significant role in polluting the lagoon. The study was supported by the Harbor Branch Oceanographic Institute Foundation and the Florida Center for Coastal and Human Health.

###

NEWS @ NCSU



Dr. Brian Jackson reports that his team in the Horticultural Substrates Laboratory at [North Carolina State University NC State - College of Agriculture and Life Sciences](#) is a contributing partner in NURTURE, an NSF project initiated/created by colleagues at Stony Brook University. The following YouTube video highlights the project as well as some of his current and future goals. The premise of this technology is the conversion of organic [#biomass](#) (waste) into value-added products that can support, enhance, and improve [#horticulture](#) and [#agricultural](#) crop production. The NCSU team is focusing on the use of these products in [#soilless](#) growing media and soilless [#cultivation](#) applications. Plant science and substrate science are on the forefront of innovation and discovery.

The video caption is: "This is a 2023 NSF Convergence Accelerator Track I Phase 1 video for Nurture Technologies, From Waste to Harvest - Creating Circular Solutions for Horticulture and Agriculture. A joint project led by Professor Ben Hsiao at Stony Brook University and Professor Darren Martin at University of Queensland."

<https://www.youtube.com/watch?v=dTY5VGZYh2o>

###

ENVIVA BREAKS GROUND IN AL



Enviva Inc, recently broke ground on its forthcoming Epes plant under construction in Sumter County, Alabama. Enviva has been active in Sumter County since its initial assessment of the site in 2018. In 2020, Enviva acquired over 300 acres in the Epes Industrial Park, located next to the Tombigbee River in Sumter County, to build its largest wood pellet production plant. In July, the company began construction of its fully contracted Epes plant, which will have a nameplate capacity of 1.1 million metric tons (2MM yd³) per year and is expected to be in service by mid-2024, with production fully ramped by 2025. Pellets produced from U.S. forest resources at the Epes plant will be exported to international markets, mainly in Europe and Asia.

###

JUNE PELLET EXPORTS



The U.S. exported 865,995.4 metric tons (1.60MM yd³) of wood pellets in June according to data released by the USDA Foreign Agricultural Service. The U.S. exported wood pellets to approximately 16 countries in June. The U.K. was the top destination for U.S. wood pellet exports at 494,421.4 metric tons (914,678 yd³), followed by Japan at 150,281.2 metric tons (278,019 yd³). The value of U.S. wood pellet exports reached \$171.43MM in June or ~\$107/yd³. Total wood pellet exports for the first half of 2023 reached 4.59MM metric tons (~8.5MM yd³) at a value of \$855.8MM or ~\$100.68/yd³.

COBRA is short for the Consolidated Omnibus Budget Reconciliation Act of 1985. It's a federal law that allows certain employees and covered dependents to elect to continue their same group health coverage, **at their own cost**, when it would otherwise be discontinued because of a qualifying event. These *qualifying events* include termination or reduction in hours, death of a covered employee, divorce or legal separation, Medicare entitlement, and loss of dependent status. Generally, COBRA can be used for up to 18 months, and in some circumstances, up to 36 months.

COBRA applies to most group health plans that are sponsored by employers with 20 or more employees on more than 50% of their typical business days in the previous calendar year. COBRA doesn't apply to plans sponsored by the federal government, churches, or church-related organizations.

For COBRA purposes, *group health plans* include things like medical coverage, dental and vision plans, health flexible spending arrangements, health reimbursement arrangements, and other programs related to health benefits. COBRA does not cover plans that provide only life insurance or disability benefits because these are not considered medical care. Additionally, certain voluntary benefit plans may be exempt from COBRA.

Any qualified beneficiary who experiences a qualifying event must be offered the opportunity to elect COBRA. A *qualified beneficiary* is an individual covered by a group health plan on the day before a qualifying event occurs and who is an employee, the employee's spouse or former spouse, or the employee's dependent child. A child who is born to or placed for adoption with a COBRA participant is also automatically considered a qualified beneficiary.

*DISCLAIMER: This general information article does not constitute legal advice or create an attorney-client relationship and does not address state or local law. If you have legal questions concerning your situation or the information you have obtained, you should consult with a licensed attorney.

MEMBER NEWS

DURAVANT ACQUIRES NPI & PPM



Duravant LLC ("Duravant"), a global engineered equipment and automation solutions provider to the food processing, packaging, and material handling sectors, announced it has acquired National Presort, LP ("NPI"), a leading manufacturer of automated parcel sortation systems headquartered in Fort Worth, TX. For over 45 years, NPI has served e-commerce, courier, parcel post, warehouse and fulfillment operations with advanced turnkey equipment solutions designed to increase throughput, improve accuracy, and reduce fulfillment time.

NPI manufactures high speed sortation systems that are modular and configured to customers' specific application needs. Their highly differentiated sorting equipment features a sliding shoe and slat design and is engineered to gently and precisely sort flats, poly bags, boxes, irregularly shaped parcels and mixed mail at speeds of up to 24,000 pieces per hour. NPI's software and service offerings further optimize productivity of the entire fulfillment line.

NPI has two manufacturing sites in the US and a nationwide fleet of service technicians. NPI's end-to-end capabilities begin with a consultative approach to designing integrated systems and continue through installation and lifetime aftermarket support.

Duravant also acquired PPM Technologies ("PPM"). PPM is a leading manufacturer of high-quality conveying, coating, and thermal equipment headquartered in Newberg, OR that designs, engineers, and manufactures processing solutions for a wide range of end markets including snack foods, confectionary, cereals, nutraceuticals, nuts and seeds, vegetables, meats, poultry, and seafood.

"PPM is an ideal complement to our existing suite of products in our food processing and handling equipment portfolio," said Mike Kachmer, Chairman and CEO of

DURAVANT (Cont'd)

Duravant. "Our new partnership with PPM bolsters our integration services capabilities which are in high demand as customers are increasingly relying on our applications and design expertise to deliver complete turnkey lines."

PPM is an innovator of food handling technology with over 70 years of experience in designing and manufacturing conveyors and graders. The company has expanded their portfolio to include coating and thermal technologies to meet the growing demand for end-to-end integrated processing lines. For more information, contact Eleni Yianas, VP Marketing eleni.yianas@duravant.com tel. 704.903.3871

###

WELCOME New MEMBERS



The Mulch & Soil Council is pleased to welcome the following companies as new members:

PRODUCER MEMBERS:

J. Pettiecord Inc.

Caley Parrish
1200 Prairie Dr. SW
Bondurant, IA 50035
caley@jpettiecord.com
jpettiecord.com

Walker Environmental-Gro-Bark (Ontario, Canada) Ltd.

Neil McKeown
816 Maryland Rd
Caledon, ON L7C 0Y6
nmckeown@walkerind.com

The Organic Recycler

Tim Sansone
4825 Forest Hill Circle
Forest Hill, TX 76140
tim@theorganicrecycler.com
www.buybettermulch.com

Mazza Recycling Services

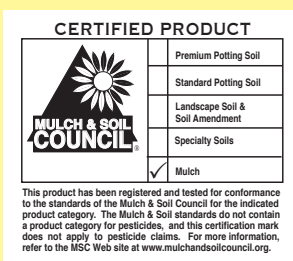
Heather Burton
3230 Shafto Rd.
Tinton Falls, NJ 07753
heather@mazzarecycling.com
<https://www.mazzarecycling.com/>

AFFILIATE MEMBER:

West Salem Machinery

Mark Lyman
665 Murlark Ave. NW
Salem, OR 97304
info@westsalem.com
www.westsalem.com

Certified Product News



CERTIFICATION REPORT

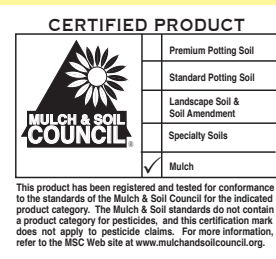
NEW CERTIFIED – MULCH

Southern Mulch LLC	Black Mulch
Southern Mulch LLC	Red Mulch
Southern Mulch LLC	Brown Mulch
Southern Mulch LLC	Cypress Blend

NEW CERTIFIED – PREMIUM POTTING SOIL

Miracle-Gro Lawn Products	Miracle-Gro Organic Raised Bed & Garden Soil 0.05-0.03-0.05
Terrace Brands	Whitney Farms Organic Raised Bed Mix1 0.09-0.08-0.09

Certified Product News



RECERTIFIED – MULCH

- | | |
|-------------------------------|---|
| Amerigrow Recycling | Premium Brown Mulch |
| Austin Wood Recycling, Ltd. | Texas Native Hardwood Mulch |
| Austin Wood Recycling, Ltd. | Texas Native Red Shredded Cedar Mulch |
| Florida Mulch Inc. | Brown Color Enhanced Mulch |
| Garick Corporation | Black Landscape Mulch |
| Garick Corporation | Fancy Hardwood Mulch |
| Garick Corporation | Nature’s Helper Black Satin Mulch |
| Garick Corporation | Pine Bark Landscape Mini-Nuggets |
| Garick Corporation | Pine Bark Landscape Mulch |
| Garick Corporation | Pine Bark Landscape Nuggets |
| Garick Corporation | Red Landscape Mulch |
| Great Gardens Soil | Hampton Estates 100% Organic Mulch |
| Great Gardens Soil | Hampton Estates Antique Black Mulch |
| Hyponex Corporation | Florida Select Brown Eucalyptus Mulch |
| Hyponex Corporation | Florida Select Red Eucalyptus Mulch |
| Hyponex Corporation | HYPONEX by Scotts Black Mulch |
| Hyponex Corporation | HYPONEX by Scotts Brown Mulch |
| Hyponex Corporation | HYPONEX by Scotts Red Mulch |
| Kellogg Garden Products | Gardeners’ Shredded Redwood |
| Mountain West LLC | Vigoro Premium Brown Mulch by Mountain West |
| Mountain West LLC | Vigoro Premium Black Mulch by Mountain West |
| Mountain West LLC | Vigoro Premium Red Mulch by Mountain West |
| Ohio Mulch Supply, Inc. | Golden Trophy Premium Landscape Pine Bark Mulch 302 |
| Ohio Mulch Supply, Inc. | Natural Accent Hardwood Mulch Style 412 |
| Superior Cedar Products, Inc. | Cedar Chips |
| Swiss Farms Products, Inc. | Vigoro Premium Wood Mulch Black by Swiss Farms |
| Swiss Farms Products, Inc. | Vigoro Premium Wood Mulch Brown by Swiss Farms |
| Swiss Farms Products, Inc. | Vigoro Premium Wood Mulch Red by Swiss Farms |
| The Scotts Company | Earthgro All-Natural Bark Nuggets |
| The Scotts Company | Earthgro All-Natural Mulch |

RECERTIFIED – PREMIUM POTTING SOIL

- | | |
|---------------------------|---|
| Kellogg Garden Products | All Natural Premium Mix for Outdoor Containers - Organic Plus |
| Kellogg Garden Products | All Natural Raised Bed + Potting Mix - Organic Plus |
| Kellogg Garden Products | Kellogg Raised Bed & Potting Mix |
| Miracle-Gro Lawn Products | Miracle-Gro Raised Bed Soil 0.09-0.08-0.09 |
| The Scotts Company | Scotts Premium Potting Soil 0.07-0.01-0.03 |

RECERTIFIED – LANDSCAPE SOIL & AMENDMENT

- | | |
|-------------------------|---|
| Kellogg Garden Products | All Natural Garden Soil for Flowers + Vegetables - Organic Plus |
| Kellogg Garden Products | All Natural Garden Soil for Flowers + Vegetables (Green) |
| Kellogg Garden Products | All Natural Planting Mix for Trees, Shrubs + Roses - Organic Plus |
| Kellogg Garden Products | All Natural Topper Soil for Lawns, Sod & Seed - Organic Plus |
| KSI (Kellogg) | Gardeners Chicken Manure |

WITHDRAWN – MULCH

- | | |
|----------------------------|-------------|
| Swiss Farms Products, Inc. | Black Mulch |
| Swiss Farms Products, Inc. | Brown Mulch |
| Swiss Farms Products, Inc. | Red Mulch |

WITHDRAWN – LANDSCAPE SOIL & AMENDMENT

- | | |
|----------------|---|
| Terrace Brands | Country Soil Organic Garden Soil 0.04-0.03-0.03 |
|----------------|---|

WITHDRAWN – PREMIUM POTTING SOIL

Miracle-Gro Lawn Products Nature's Care Organic Raised Bed Soil 0.12-0.06-0.09

WITHDRAWN – STANDARD POTTING SOIL

Terrace Brands Country Soil Organic Potting Mix 0.06-0.04-0.05

CLASSIFIEDS

2020 Hamer Side Sealer

Manufacturer: Hamer

Year: 2020

Location: Cumming, GA

Price: \$9,000

Contact: equipment@garick.com

Other Information: s/n 982040108. Excellent working condition. Only used for 1,000 bags.



Hamer Volumetric Feeder Model 300VF

Manufacturer: Hamer

Model: 300VF

Year: unknown

Location: Cumming, GA

Price: \$39,000

Contact: equipment@garick.com

Other Information: Hardly used.



Horizontal Form Fill & Seal bagger

Manufacturer: Nova Packaging, LLC

Year: 2010

Model: FFS001E

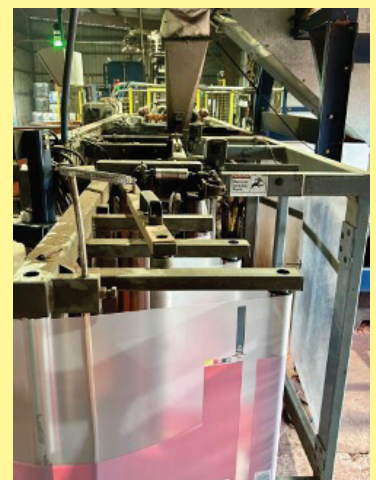
Serial No.: FS10-06006

Location: Cross City, FL

Price: ALL reasonable offers will be considered.

Contact: Mark West at The Mulch & Soil Company – 719-502-0111 or mwest@themulchsoilco.com

Other Information: Machine running well up to removal time. Upgraded top sealer 2018.



CLASSIFIEDS

Amadas Semi-Automated Palletizer

Year: 2015 or 2016 (2 available)

Model: PL02

Price: \$50k or best offer

Location: Galivants Ferry, SC

Contact: Hackney Parker @ 305-393-4950 or hackney@seasidemulch.com

Other Information: Bag flattener and conveyors and optional 10 ton press



Lantech Q300 wrapper

Model: Q300

Serial #: QM029512

Price: \$12k

Location: Galivants Ferry, SC

Contact: Hackney Parker @ 305-393-4950 or hackney@seasidemulch.com

Other Information: 120 V

