

Leading by Example Council Agenda

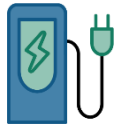
November 15, 2022



Welcome



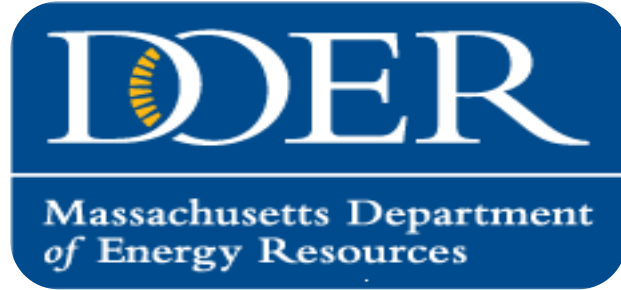
LBE Updates



Preparing for Fleet Charging



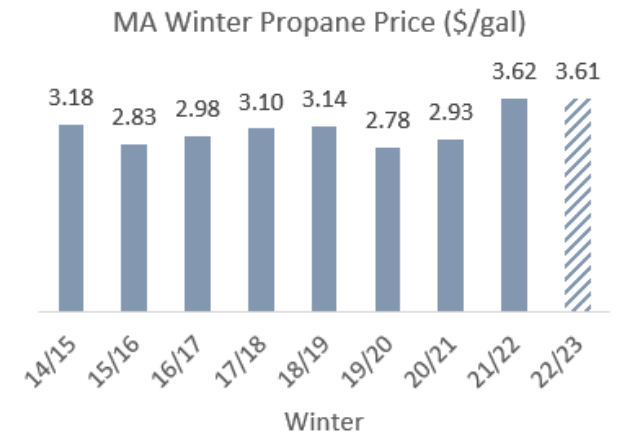
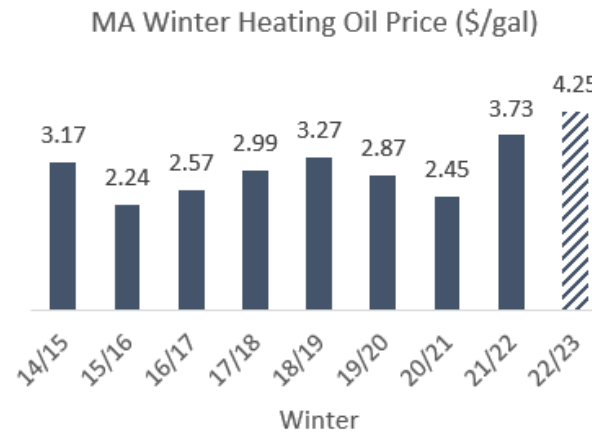
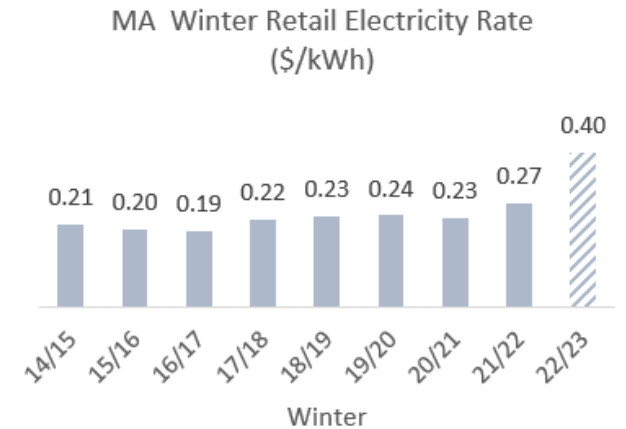
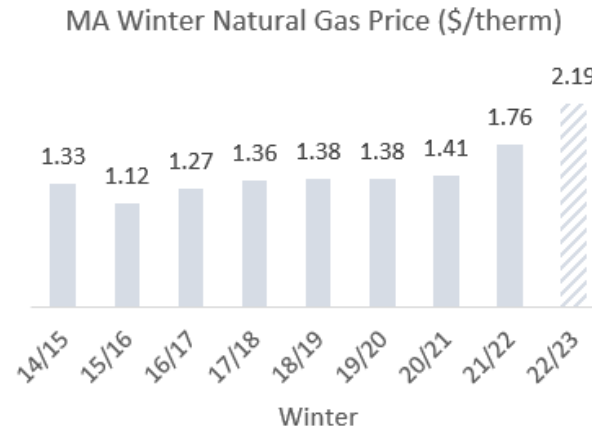
Sustainable Food Systems in MA



LBE Updates



Winter Energy Update

- DOER projecting high costs for energy this winter primarily due to high commodity prices
- Upcoming winter projected to be 3.1% colder than last year
- Be prepared!
 - Start the season with full tanks of fuel
 - Communicate with your fuel supplier about any future supply challenges
 - Reduced heating demand conserves energy, lowers costs, and reduces supply risk



*Winter season average residential
heating fuel prices*

FY22 LBE Tracking Form

- Submission deadline: **December 20th**
- Updates include:
 -  Streamlined EV charging station reporting
 -  Battery powered landscaping equipment
- Please feel free to reach out to [Sophia](#) with any questions

Thank you!




Still need to
download the
FY22 form?

Click [here](#)

Greenfield CC

Bridgewater
State

Reminder: Electric Vehicles on Statewide Contract

Sedans, Crossovers & SUVs	Pickup Trucks	Vans & Specialty Vehicles
<ul style="list-style-type: none">• Chevy Bolt• Hyundai Ioniq• Chevy Bolt EUV*• Ford Mustang Mach-E• Hyundai Kona• Hyundai Ioniq 5 	<ul style="list-style-type: none">• Ford F-150 Lightning 	<ul style="list-style-type: none">• Ford E-Transit• Lightning Electric Transit 350 

Click [here](#) for a full list of EVs on statewide contract

Some Upcoming EV Models

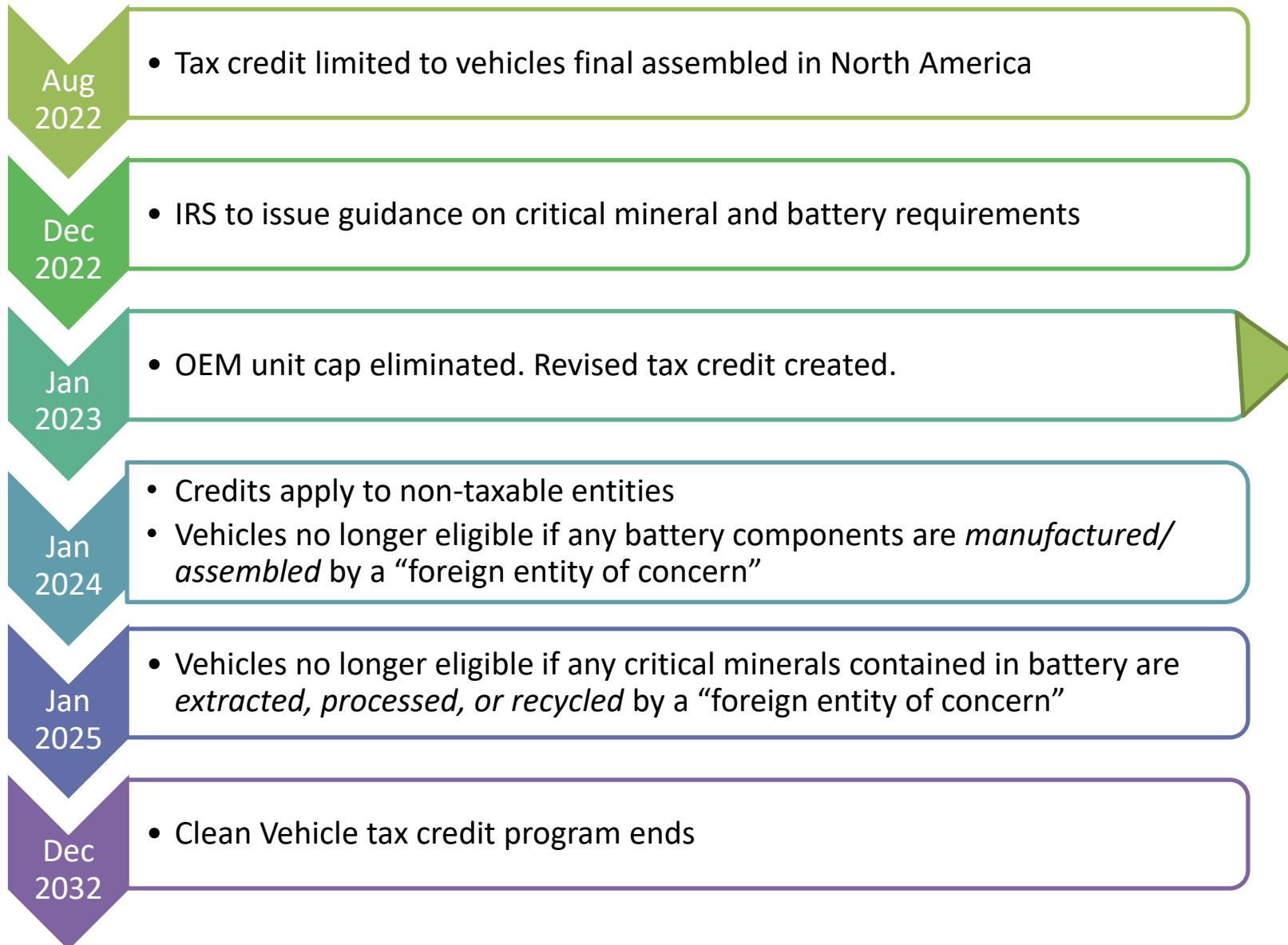
	Chevy Blazer	Chevy Equinox	Chevy Silverado
Expected Date	Summer 2023	Fall 2023	Fall 2023
Range	320	300	400
MSRP	\$44,995	~\$30,000	\$39,900



Some Upcoming EV Models

	Hyundai Ioniq 6	Nissan Ariya	Toyota bZ4X	Other Upcoming
Expected Date	2023	Late 2022 – early 2023	2022	<ul style="list-style-type: none"> Subaru Solterra (2023) Kia EV9 (2024) Honda Prologue (2024) Hyundai Ioniq 7 (2024) Jeep Recon EV (2024) Ram 1500 (2024) Ford Explorer (2025)
Range	320	300	250	
MSRP	\$44,000	\$47,190	<\$40,000	
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New Clean Vehicles Tax Credit Timeline



Tax Credit by the numbers:

- **\$3,750** – Base credit amount if critical mineral requirements met
- **\$3,750** – Additional credit if battery component requirements met
- **\$80,000** – Maximum MSRP for vans, SUVs, pickup trucks to be eligible
- **\$55,000** – Maximum MSRP for other vehicles
- **\$150,000** (single); **\$225,000** (head of household); **\$300,000** (filing jointly) – maximum eligible income

For more information about this program and lists of vehicles that qualify, see this [helpful guide from Electrek](#) and this page [from Green Energy Consumer Alliance](#).

EV First Acquisition Policy for Executive Branch Fleets

OSD has created an [EV First Acquisition Policy](#) for Executive Branch fleets that parallels [EO594 EV Acquisition Guidelines](#)

Required Vehicle Acquisition Hierarchy



1. Battery Electric Vehicle (BEV) / Fuel Cell Electric Vehicle (FCEV)



2. Plug in Hybrid Vehicle (PHEV)

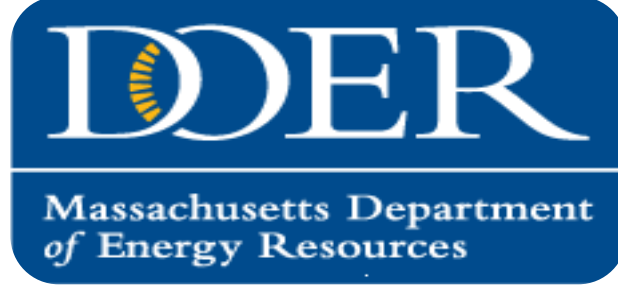


3. Hybrid Electric Vehicle (HEV), Alternative Fuel Vehicle (AFV), or other innovative tech



4. Internal Combustion Engine Vehicle (ICE) that is the most efficient in its class





Revving up for EVs: LBE Fleet Charging Grant



Updates: LBE Fleet EV Charging Deployment Grant



New funding source delays BABA requirements



Project pricing must be submitted with application



Ongoing data and maintenance packages must be prepaid



Grantees must agree to maintain equipment for at least 5 years



Minimum 5-year term for hardwired EVSE at leased facilities



Portable EVSE allowable



EV must be ordered within 18 months of grant execution



Applicants must outline fleet electrification plans

Sign up [here](#) to get notified once LBE Fleet EVSE Deployment Grant is live



Revving up for EVs: Preparing for Fleet Charging



Before You Begin... *(we can help!)*

- 1) Finalize the ***number of charging ports*** needed
- 2) Determine which ***level of charging*** is necessary to support fleet vehicle operations
- 3) Decide ***where stations should be installed*** and whether you want wall mounted or free-standing pedestal stations
- 4) Identify ***proximity to existing electric service*** and, where possible, the amount of additional electric capacity available
- 5) Identify ***whether stations will be hardwired*** (generally for locations you want stations to be installed for at least five years) ***or portable/plug-in*** (generally for temporary or shorter-term charging locations)
- 6) Figure out whether ***networked or non-networked*** stations are better suited for your fleet's needs

Getting Ready for Fleet Electrification

- The time is now! EV First Policy + new EVs coming to market
- LBE grants to kickstart fleet charging access
- Create a 'roadmap' for phased charging infrastructure build-out
- **Today:** what you need to know before you start installing EVSE (longer vs. shorter term charging solutions, charging types, and installation complexity)



Getting Ready for Fleet Electrification

- Ideally, install Level 2 charging to fulfill current and near-term charging needs ASAP
- Interim charging solutions to address challenges
 - 120V and 240V outlets
 - Charging cords that come with vehicle (*pictured*)
 - Portable or off-grid charging
- Continue preparation for charging infrastructure build-out by addressing longer-term fleet needs through capital projects
 - Capacity/panel upgrades
 - Pre-wiring during any parking lot work
 - Installing additional charging stations



EV Charging Types: Range and Charging Ports

Level 1

Approximately 5
miles of range per
hour of charging

J1172
connector



NEMA 5-15
receptacle

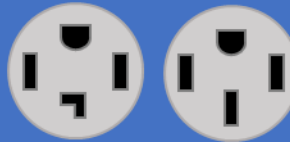
Level 2

Approximately 25
miles of range per
hour of charging

J1172



NEMA 14-30
& 14-50
receptacles



Tesla



DC Fast Charge

Approximately 100-
200+ miles of range
per 30 minutes of
charging*

CCS
connector



CHAdemo



Tesla

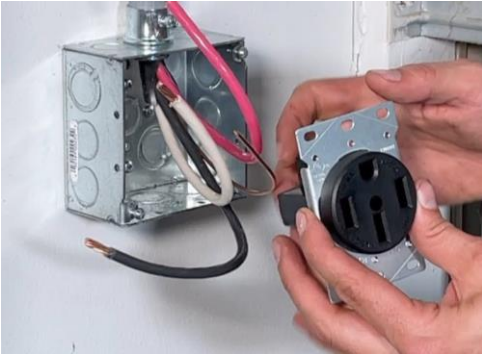


- 14-30: lower amperage, but slower charge
- 14-50: recommended if you have sufficient capacity

**Charging power varies by vehicle and battery state of charge*

EV Charging Types: Installation Complexity

EV charging options range from simple plugs to fast-chargers that require significant electrical upgrades



Level 1 and Level 2 Plugs
(AC power)

- 120V-240V; may require upgrade for 240V
- Outlets can be installed by a licensed electrician



Level 2 Charging Stations
(AC power)

- 208V-240V plus heavier amperage
- Electrical upgrades and/or trenching may be required
- Installation services on VEH102



DC Fast Charging Stations
(DC power)

- 400V-900V commercial-grade three phase connections
- Usually involve an electric utility for installation
- Only recommended for fleets in very specific circumstances

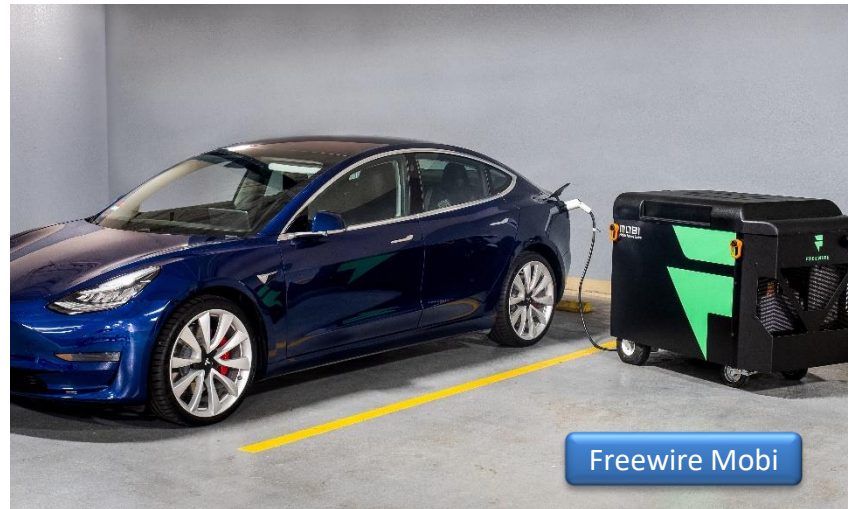
Most state fleets

Spotlight: Portable EV Charging Options

- Some can be plugged in and left in place, others offer portability or grid-independent solar power
- May provide solution for shorter-term or temporary charging locations, or areas without sufficient electrical service

Examples of portable chargers available on statewide contract VEH102

Portable non-networked charger
for standard 240V outlets



Fully mobile and can be
recharged when not in use

Semi-portable and
solar powered



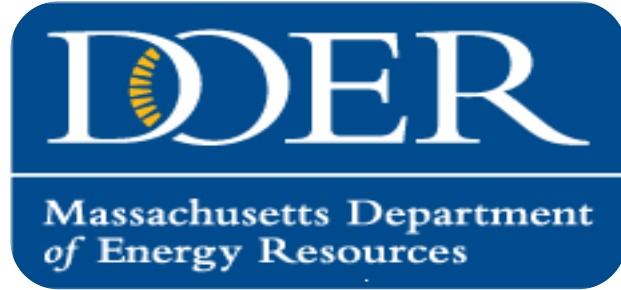
Available Resources

- [Considerations to Inform EV Charging Station Decision-Making](#) ⇒ Information for an initial decision-making process for all types of EV charging station installations at state facilities, including public, workplace, and fleet
- [OSD's VEH102 Technologies to Green Your Fleet Guide](#) ⇒ EV charging services and technologies available on statewide contract VEH102
- [Quick Guide for EV Charging](#) ⇒ Introductory information on EV charger types

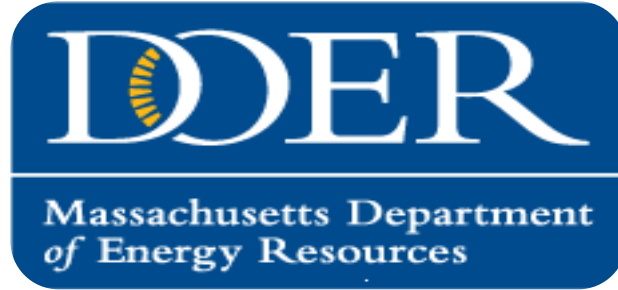


Quick Guide for EV Drivers ⇒ Information to help first-time EV drivers understand the nuances of driving electric; this guide can also be customized to reflect an agency's fleet management practices

Fleet EV Charging Scope of Services Template ⇒ An easy-to-customize request for proposals document for procuring fleet charging stations



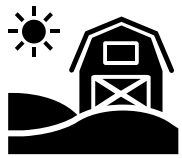
Sustainable Food Systems in Massachusetts



Survey: Individual and Institutional Sustainable Food Practices

Food Sustainability and the Climate Connection

Food systems impact climate change...



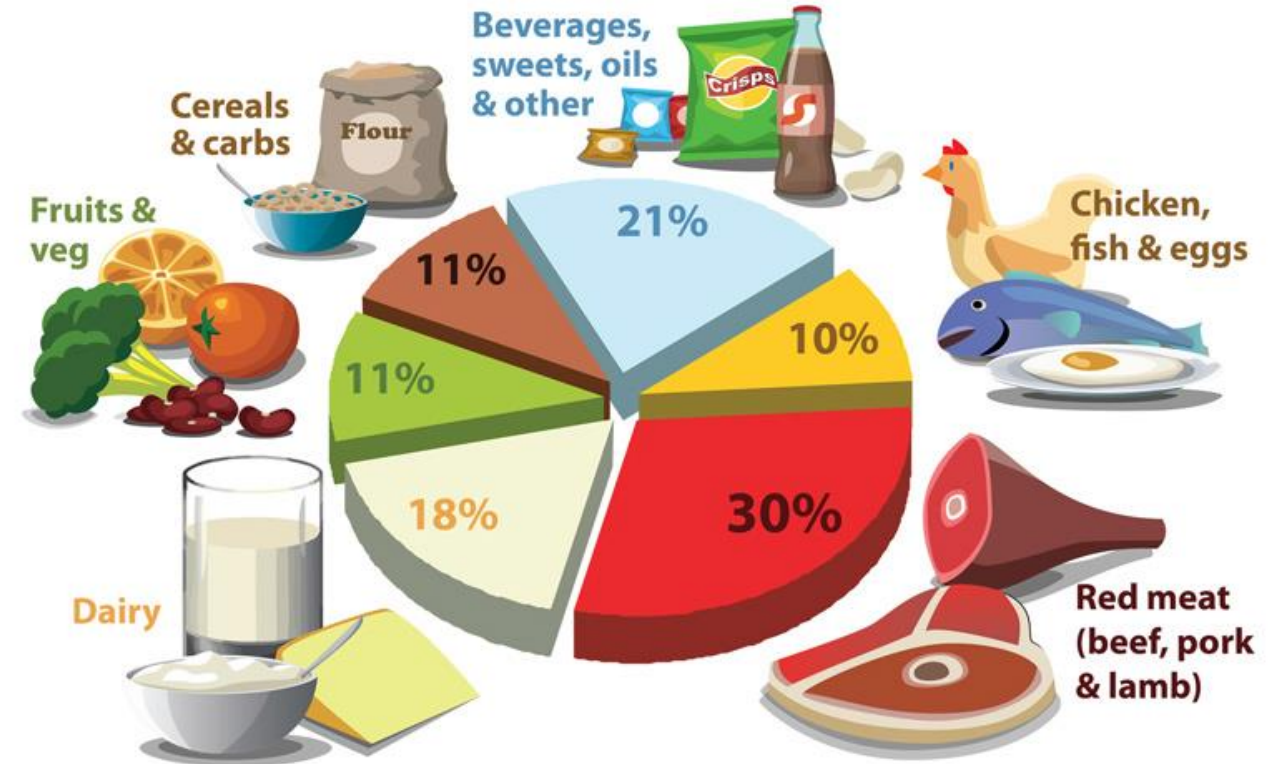
Globally, about **one third** of global GHG emissions come from food systems



The largest contribution of GHG emissions from food comes from **land use**: agriculture, livestock, and land and forests needed to raise them



Nearly a third of emissions from food systems come from **supply chain activities**: retail, transport, fuel production, etc

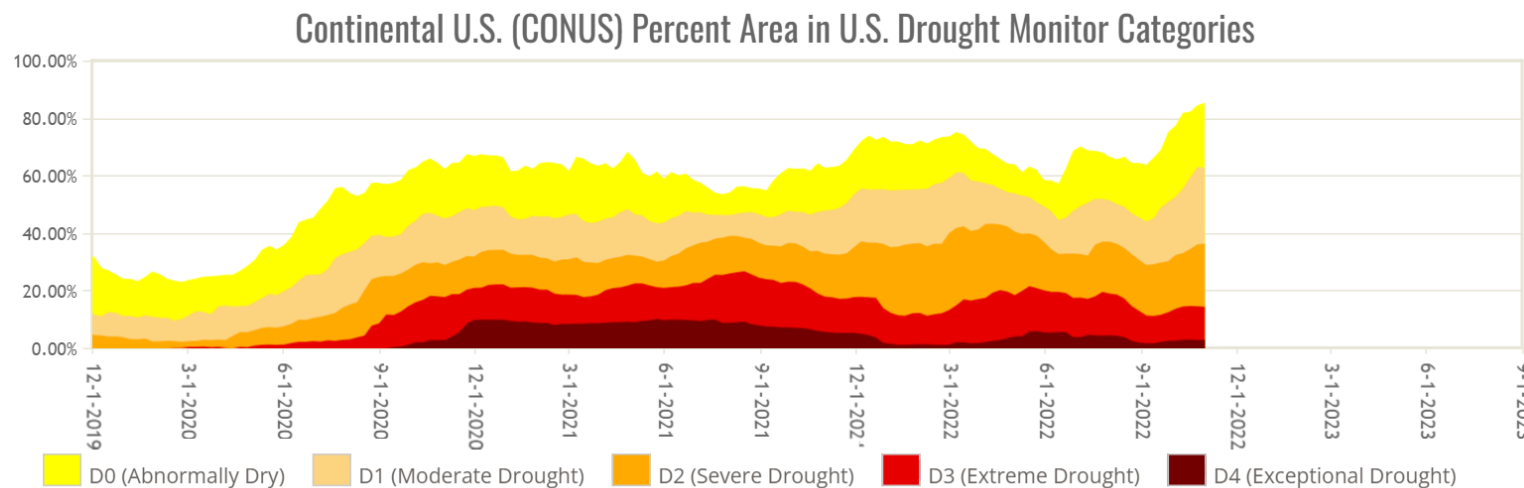


Proportion of emissions associated with U.S. food supply chain (Image source: [FoodSystemPrimer](#))

Food Sustainability and the Climate Connection

...and climate change impacts food systems

- The 2022 Midwest droughts caused 75% of farmers to see reduced yields
- Two thirds of ranchers reported selling off animals or birds due to drought, reducing average herd sizes by 36%
- Extreme flooding can also reduce yields; floods across Corn Belt and Mid-South in 2019 prevented 11.4 million acres of corn and 4.5 million acres of soybean, wheat, and cotton from being planted



Flooding in the Platte, Missouri, and Elkhorn Rivers, NE. (Source: [NRDC](#))



Global Issues Compound Climate Challenges

- Agricultural machinery supply has not kept up with demand due to supply chain issues stemming from the Covid pandemic ([CNBC](#))
- The conflict in Ukraine led to food shortages and increased prices, with recent international agreements only partially recovering production and export to pre-invasion levels ([Reuters](#))

The Role of State Entities

- Through statewide contracts, the executive branch spends:
 - \$2.1M on dairy products (GRO36)
 - \$364,000 on baked goods (GRO37)
 - \$14.3M on other groceries (GRO38)
 - Does not include higher ed, which makes up the majority of food spending!
- Buying local can help:
 - Reduce emissions from vehicle miles traveled
 - Support local economy
 - Support local policies that promote conservation, climate action, etc.
 - Promote healthier eating habits

Advancing local, sustainable food systems support our local environment and economy, boosts our resiliency to climate impacts, and mitigates emissions from food systems

MDAR & Sustainability

Bonita Oehlke

**MDAR Market Development and Food Systems
Planning**

November 15, 2022

Sustainability is a thread through programs and services offered by the agency to support:

- A healthy environment
- economic profitability
- social and economic equity

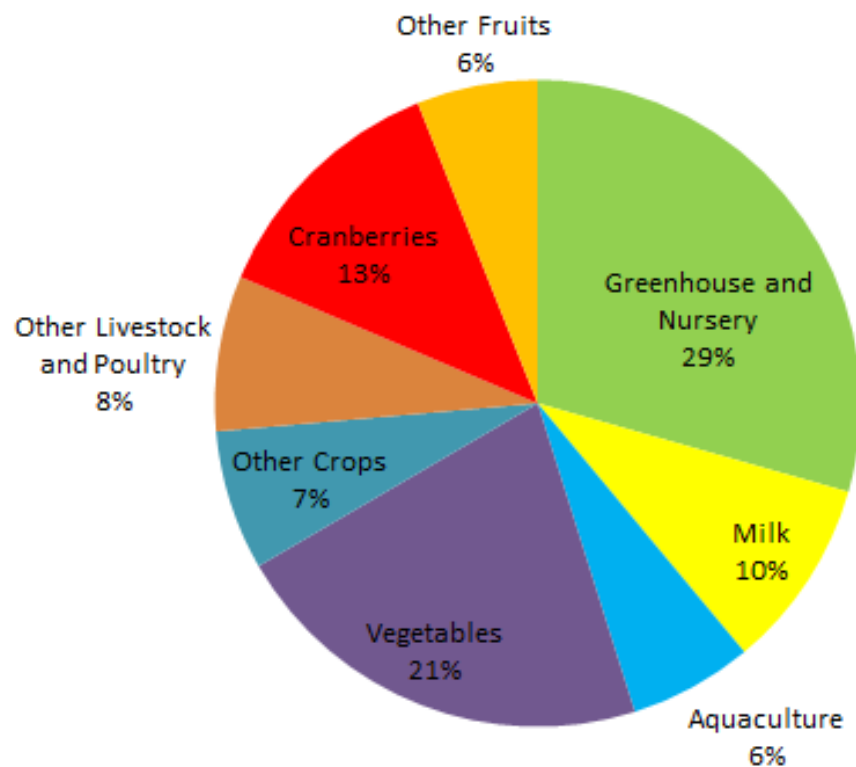
Programs are provided by four MDAR Divisions:

Agricultural Conservation and Technical Assistance
Plant and Pest Control
Animal Health
Agricultural Markets

- 7,241 farms
- Over 491 thousand acres; Average farm is 68 acres
- Market Value: \$475 million
- MA is the second largest cranberry producing state
- Direct market sales is a key feature of Massachusetts agriculture.
 - Massachusetts ranks 5th in the nation for direct market sales with over \$100 million in direct sales.
 - Direct market sales account for 21.1% of the state's total sales of agricultural products; that is the highest proportion in the country.

Massachusetts Agriculture Overview

Massachusetts 2017 Agricultural Economy by Commodity



Source: 2017 USDA Census
of Agriculture; NASS, 2018

Examples of sustainability in food & ag

- Conservation tillage & weed management methods
- Cover crops & rotations
- Input reduction strategies, including nutrient and pesticide management
- On-farm energy production: methane, or biomass, or improvements in energy efficiency
- Developing/refining/improving marketing opportunities, including season extension & post-harvest storage and handling
- Enterprise diversification: organic production, integrated pest management, using traditional and non-traditional crops & livestock
- Programs that focus on environmental benefits, production, profitability, and farmers' quality of life

- Agritourism
- Conservation tillage
- Composting
- Dairy waste management
- Direct marketing
- Energy efficiency & conservation
- Farmer mental health
- Food insecurity
- Food Safety/Certifications (Commonwealth Quality Program)
- Institutional sustainable food procurement
- Food systems education
- Soil nutrient management
- Postharvest management techniques
- Urban agriculture
- Water use efficiency and quality management

<https://www.mass.gov/guides/agricultural-grants-and-financial-assistance-programs>

- [Agricultural Grants Story Map](#)
- [Food Safety, Environmental, and Energy Grant Programs](#)
- [Farm Financial Assistance Programs](#)
- [Farm Improvement Grants](#)
- [Grants for New Farms](#)
- [Grants to Improve Food Access](#)
- [Marketing and Promotion Grants](#)
- [Agriculture Preservation Restriction \(APR\) Program](#)
- [Agricultural Composting Improvement Program \(ACIP\)](#)
- [Cranberry Bog Renovation Grant Program](#)

Provides funding and delivers services to preserve working agricultural lands and improve agricultural stewardship and use of natural resources; promote energy efficiency and use of renewable energy; and ensure economic competitiveness and profitability.

- [Agricultural Energy Grant Program \(Ag-Energy\)](#)
- [Agricultural Environmental Enhancement Program \(AEEP\)](#)
- [Agricultural Food Safety Improvement Program \(AFSIP\)](#)
- [APR Improvement Program \(AIP\)](#)
- [Farm Energy Discount Program](#)
- [Farm Viability Enhancement Program \(FVEP\)](#)
- [Massachusetts Emergency Food Assistance Program \(MEFAP\)](#)
- [Massachusetts Farm Energy Program \(MFEP\)](#)
- [Massachusetts Food Ventures Program \(MFVP\)](#)
- [Matching Enterprise Grants for Agriculture Program \(MEGA\)](#)
- [Rollover Protective Structure \(ROPS\) Retrofit Program](#)
- [Stewardship Assistance and Restoration on APRs \(SARA\)](#)
- [Urban Agriculture Program](#)

- [Aquaculture](#)
- [Energy Efficiency, Conservation, and Renewables Program](#)
- Outreach and Education
- [Agricultural Best Management Practices \(BMPs\)](#)
- [Agricultural Business Training Program \(ABTP\)](#)
- [On Farm Strategies to Protect Water Quality](#)
- Land Use
- [Agricultural Preservation Restriction Program \(APR\)](#)
- [State-Owned Farmland Licensing Program](#)
- Regulatory
- [Agricultural Composting Program](#)
- [Farm Technology Review Commission \(FTRC\)](#)
- [Milkhouse Wastewater Pilot Program](#)

Division of Crop & Pest Services (partial program list)

Responsible for the regulation of the ag industry & pesticide application services.

- [Apiary Program \(honey bees\)](#)
- [Aquatic Vegetation Management](#)
- [Asian Longhorned Beetle Information](#)
- [Cooperative Agricultural Pest Survey \(CAPS\)](#)
- [Massachusetts Prohibited Plant List](#)
- [Pesticide Education, Examination and Licensing](#)
- [Plant Nutrient Management](#)
- [Water Quality and Pesticides](#)

The health and safety of the Commonwealth's domestic animals is the Division of Animal Health's primary responsibility.

Through inspections, licensing, awareness, and education the Division helps to ensure the general welfare of companion and food-producing animals across the state.

Division of Ag Markets

Mission: To foster the **sustainability** of Massachusetts agribusinesses through the innovative implementation of marketing, public relations and educational programs.



Farmers Markets

The Farmers Market Program provides resources for growers and technical assistance to individuals and groups trying to start a Farmers Market.

- [Farmers Market Development Resources](#)
- [Farmers Market Regulatory Resources](#)
- [Farmers Market Promotional Resources](#)
- [Resources for Farmers](#)
- [Public Market Commission](#)

www.mass.gov/farmers-market-program

Farmers' Market Nutrition Program

- To provide low-income participants with access to fresh and nutritious fruits and vegetables
- To support local agriculture in Massachusetts
- WIC and Senior participants receive \$25.00 worth of coupons redeemable for fresh fruits and vegetables.
- 50,000+ participants served x \$25.00 benefit = \$1.5Mil distributed for use on local farms



Healthy Incentives Program



Earn More SNAP Dollars
with the Healthy Incentives Program!

Spend your SNAP dollars on farm-fresh fruits and vegetables at participating Healthy Incentives Program (HIP) retailers and have the amount of your purchase instantly added back to your EBT card!

Farmers Markets
Look for participating farmers at regularly scheduled markets in your town or nearby, selling fresh fruits and vegetables.

Farm Stands
On-farm stores where you can buy fresh fruits and vegetables, right from the hands that picked them.

Mobile Markets
Markets that bring farm-fresh produce right to your community.

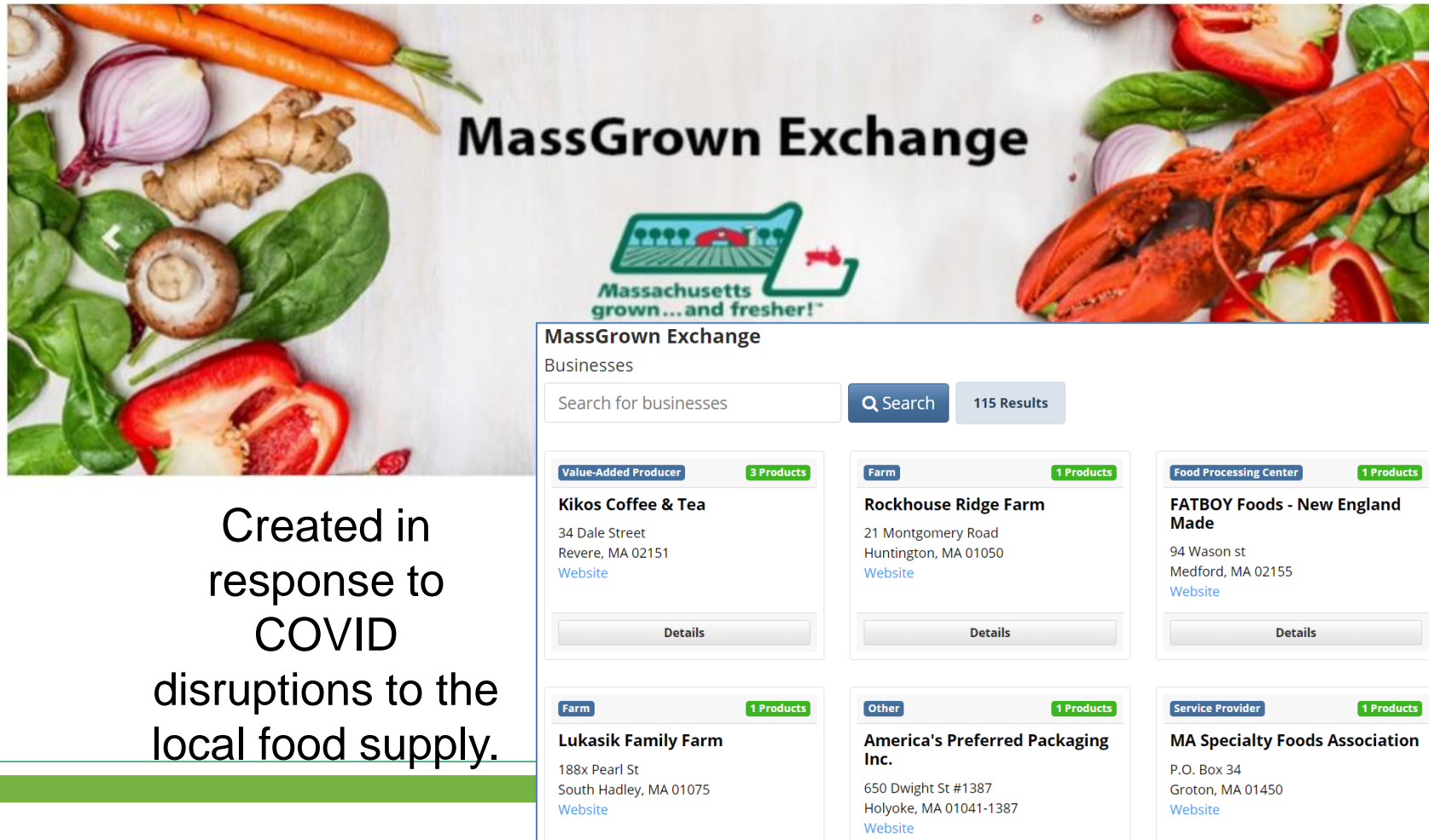
CSA Farm Shares
Membership-based service that provides your family with fresh fruits and vegetables every week.

Look at what you can earn each month! (based on household size)

\$40 1-2 PEOPLE | **\$60** 3-5 PEOPLE | **\$80** 6+ PEOPLE

- ❖ Over \$19.5 million incentives earned since launch (4/2017)
- ❖ Over 85,600 unique households, including:
 - 44% - HH with a recipient age 60+
 - 31% - HH with a recipient who has a disability
 - 30% HH with a recipient under the age of 18

A business to business platform that assists farmers, fishers, food buyers, and ag-related businesses to connect, exchange, and find products and services.



The screenshot shows the MassGrown Exchange website. The header features the text "MassGrown Exchange" and the logo "Massachusetts grown...and fresher!" with a green outline of the state. Below the header is a search bar with the text "Search for businesses", a "Q Search" button, and a "115 Results" indicator. The main content area displays a grid of business listings, each with a category tag, a product count, the business name, address, and a "Website" link. The businesses listed are Kikos Coffee & Tea, Rockhouse Ridge Farm, FATBOY Foods - New England Made, Lukasik Family Farm, America's Preferred Packaging Inc., and MA Specialty Foods Association.

Business	Category	Products	Address	Website
Kikos Coffee & Tea	Value-Added Producer	3 Products	34 Dale Street Revere, MA 02151	Website
Rockhouse Ridge Farm	Farm	1 Products	21 Montgomery Road Huntington, MA 01050	Website
FATBOY Foods - New England Made	Food Processing Center	1 Products	94 Wason St Medford, MA 02155	Website
Lukasik Family Farm	Farm	1 Products	188x Pearl St South Hadley, MA 01075	Website
America's Preferred Packaging Inc.	Other	1 Products	650 Dwight St #1387 Holyoke, MA 01041-1387	Website
MA Specialty Foods Association	Service Provider	1 Products	P.O. Box 34 Groton, MA 01450	Website

Created in
response to
COVID
disruptions to the
local food supply.

Agricultural Education

Massachusetts is home to 4 Agricultural High Schools - of 6 in the entire country.

Training the next generation of Farmers through ag-related vocational tracks including:

1. *Agricultural Mechanics*
2. *Animal Science*
3. *Arboriculture/Floriculture*
4. *Landscape Design*
5. *Natural Resource Management*

Pictured: FFA and 4-H Students at the State House during Ag Day 2019



Marketing a Direct-to-Consumer commercial experience on a farm, ranch or other agricultural business with the following goals of attracting members of the public to visit agricultural operations and increase cash receipts/farm income

Examples include Pick-Your-Own opportunities, corn mazes, farm stays, petting and feeding zoos

Ag Directional Signage Program



Promoting culinary experiences and unique “trails” in MA via the “Savor Massachusetts” branding



Support of growers looking to add value & food entrepreneurs

- Referrals to shared use kitchens, copacker list
- Technical support & referrals to local BOHs, DPH, assns, partners...

Craft Beverage map & Confectionery & Chocolate page

Trade events: SBN Local Trade Show, MA Pavilion at Summer Fancy Food Show

Special projects:

- Economic snapshot of MA artisan cheese producers
- Update of MA Food Processors Resource Guide with USDA SCBGP funds
- Food banks and retail value-added oyster products trial
- Support for MDAR Dairy FSMIP project

Farm to School



MDAR works with organizations such as Mass Farm to School to connect local farmers and fisheries with school meals programs.

- 68% of MA school districts say they participate in Farm to School activities.

- 171 districts
- 828 schools
- Over 422,000 students
- Over \$10.2 million invested in local food, including fruits, vegetables, dairy and meat/poultry

Markets and Produce Safety Team are working with MA Farm to School to develop a scale appropriate standard framework and assessment tool for maintaining food safety in the school garden modeled on DAR's CQP guidelines.

Sustainability in the food system

Everyone can support sustainability in the food system: **growers**, food processors, distributors, **retailers**, **consumers**, and **waste managers**.

Growers use methods to improve soil health, minimize water and energy use, and farm inputs.

Retailers and consumers spend their dollars on food that strengthen local economy.

Check out MDAR's MA Grown & Fresher searchable map for "everything local."

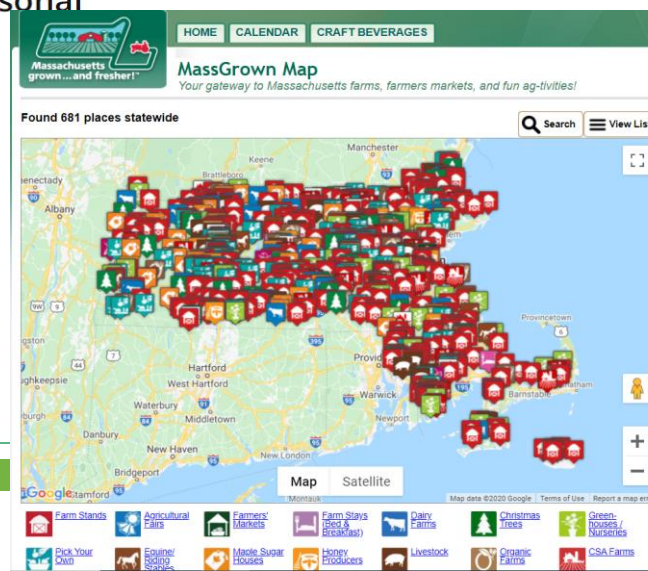
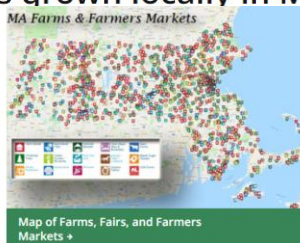
Massachusetts Grown...and Fresher!



This is your gateway to Massachusetts farms, farmers markets, flower and nursery greenhouses, and more! We will keep you up to date on seasonal crops and products grown locally in Massachusetts.



Top 10 Good Reasons to Buy Local
Poster +



2010, “An Act establishing the MA food policy council,” Statute M.G.L. c.20, Section 6C, creating 17-member Council. Six yearly public meetings.

- increase farming & sales of MA grown foods
- develop & support programs to bring healthy foods to everyone in MA
- Protect land & water
- training for farmers & workers in the food system

2020, COVID response and 5-year review of MA Local Food Action Plan goals
MA Local Food System: Perspectives on Resilience & Recovery

Nov 17, 2022, open meeting – LIVE and remote
State House Room 428 10 AM - Noon

<https://www.mass.gov/massachusetts-food-policy-council>



October/November Farm & Market Report

COMMISSIONER'S COLUMN

DEPUTY'S DIALOGUE

FOREFRONT

- [Food Security Infrastructure Grant Program Update](#)
- [Energy News](#)
- [Apiary Program](#)
- [The Markets Corner](#)


Mass.gov

Search Mass.gov

OFFERED BY Massachusetts Department of Agricultural Resources

Agriculture Industry Calendar

Conferences, workshops, board meetings, and more.

October/November

October 22 – "Why Farm to School? Why Now?" - Virtual Massachusetts Farm to School Network Public Stakeholder Event - 2-4pm. [Register here](#). Description: Join the Massachusetts Farm to School Network (NFSN) for a virtual version of our annual stakeholder gathering where we will explore why farm to school is as important as ever in the time of COVID. This event will provide local perspectives on themes raised by National Farm to School Network's "Food Justice is Racial Justice" event on 10/14 and will address how COVID-19 is shaping the present and future of farm to school in Massachusetts. It is recommended that attendees view the recording of the

Two audiences



Massachusetts Grown and Fresher News

2021 Massachusetts Agriculture Calendar – Photo Contest Winners Announced



Usually we announce the Calendar winners on Massachusetts Day at the Big E, but today we announce them here! We had over 275 entries, and photo contest winners are featured in the [2021 Massachusetts Agriculture Calendar!](#)

Each year the calendar, *Celebrating the Seasons of Massachusetts Agriculture*, features winning photos

Calendar of Culinary and Agricultural Events

Up-to-date listing of fairs, festivals, and ag-tivities across Massachusetts!



CONTACT

Phu Mai

Phone

617-626-1746

Online

Phu.Mai@mass.gov

RELATED

COVID-19: How & Where to Buy Local

[MassGrown_home](#)

Today	Thursday, October 29	Print	Week	Month	Agenda
Thursday, October 29	The Basics of Growing Garlic				
Saturday, October 31	Pumpkin Carving at the Vineyard				
Sunday, November 1	Daylight Saving Time ends				
Friday, November 6	Franklin County Cider Days				

Questions?

<https://www.mass.gov/orgs/massachusetts-department-of-agricultural-resources>

Bonita.Oehlke@mass.gov

Market Development and Food Systems Planning



Sustainability in the Massachusetts Food System

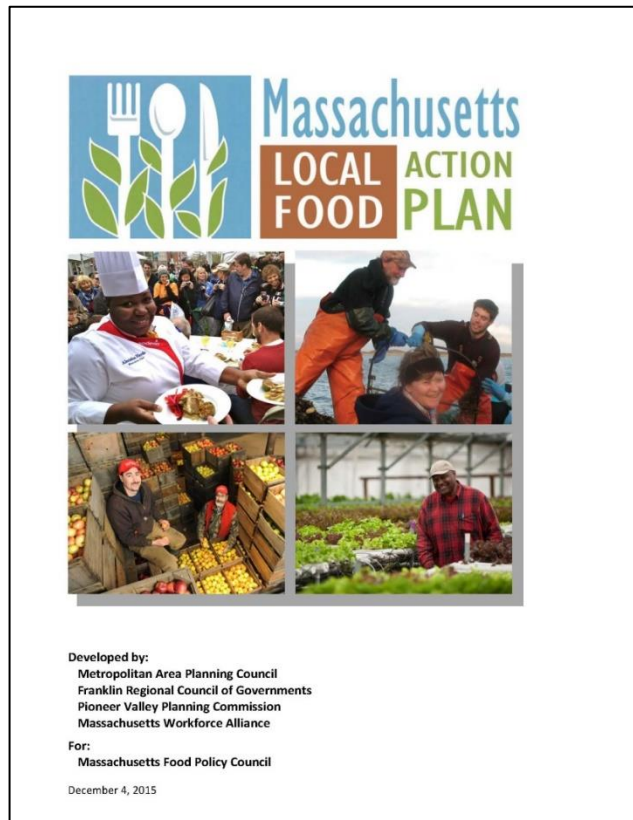
11/15/2022

Winton Pitcoff, Director
MA Food System Collaborative

www.mafoodsystem.org
winton@mafoodsystem.org

2015 Massachusetts Local Food Action Plan

Four goals toward a sustainable and equitable food system



- Increase production, sales and consumption of Massachusetts-grown foods.
- Create jobs and economic opportunity in food, farming and fishing, and improve the wages and skills of food system workers.
- Protect the land and water needed to produce food, maximize environmental benefits from agriculture and fishing, and ensure food safety.
- Reduce hunger and food insecurity, increase the availability of healthy food to all residents, and reduce food waste.

www.mafoodsystem.org/plan/

Farmland



Farmland provides

- Food supply
- Economic development
- Ecosystem services
- Energy/soil amendments

Farmland loss

- Just 10% of state land is farmland

Farmland has been lost to

- Forest
- Development
- Energy production



Farmland protection and access



State programs

- Agricultural Preservation Restrictions
- Land licensing
- Article 97
- Tax benefits



Upcoming farmland plan

- Permanently protect farmland
- Make farmland more accessible
- Ensure farm and farmland viability

Soil



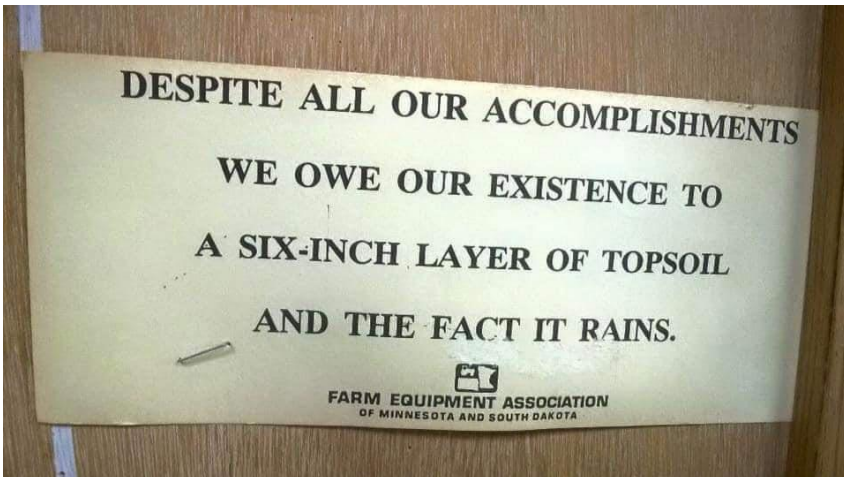
The foundation for food production

Serves essential environmental functions

State Healthy Soils Program

- Technical assistance
- Education
- Grants

State Healthy Soils Action Plan



Farm sustainability



Farm consolidation

Changing markets

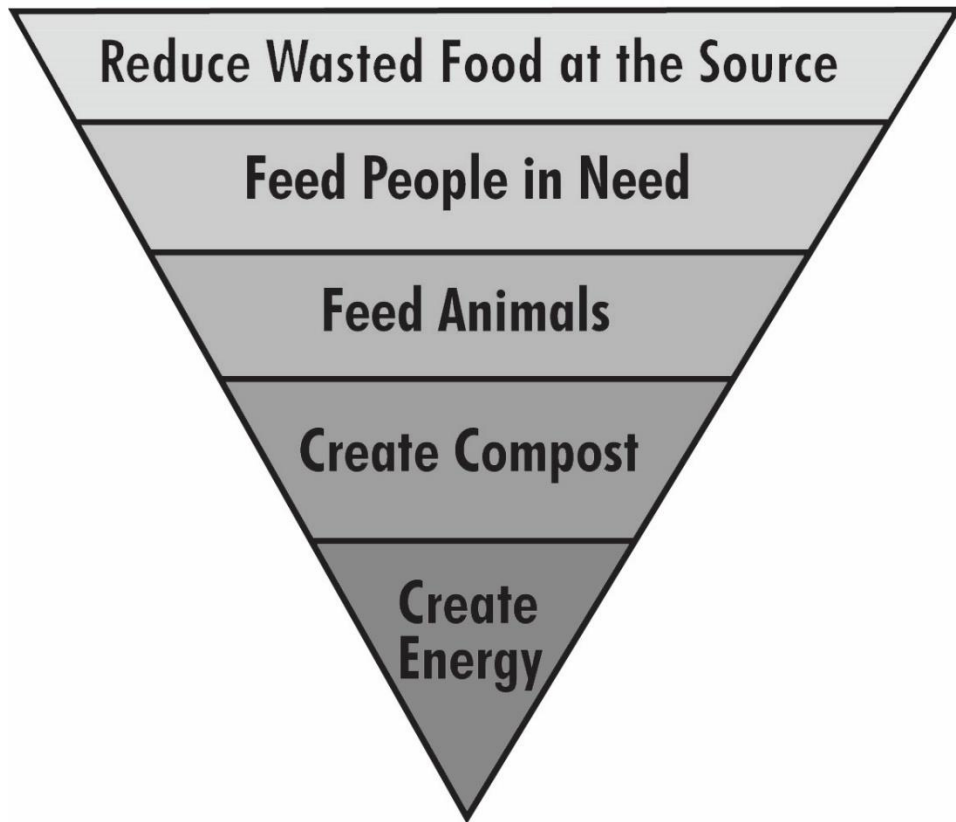
Climate change

State supports

- Grant programs
- Policy
- UMass Extension



Food waste



40% of food wasted

Diversion should follow pyramid

State organics waste ban

- Compliance if generating 1,000 lbs/wk
- Moving toward elimination of all

What's needed



Consumer support

Education

Policy support

Consideration for equity



Resources and Strategies for Entities

Tania Taranovski
Director of Programs
Farm to Institution New England



MASS. FARM TO SCHOOL OVERVIEW

Mass. Farm to School strengthens local farms and fisheries and promotes healthy communities by increasing local food purchasing and education at schools.

Get involved through our:

- Professional learning opportunities
- Networking
- Policy/Advocacy
- Communications



A regional nonprofit mobilizing the power of institutions to transform our food system.

What we offer:

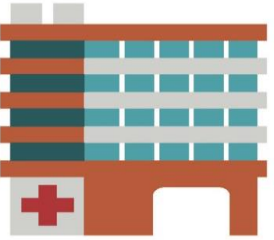
- Conduct FTI research
- Share information and resources
- Catalyze initiatives
- Foster connections



www.farmtoinstitution.org

2023 Farm to Institution Summit: **www.f2isummit.org**

FTI IMPACT IN MA



HOSPITALS



COLLEGES



SCHOOLS
K12 & EC



CARCERAL
SYSTEM

10,324 INSTITUTIONS

1.3M PEOPLE

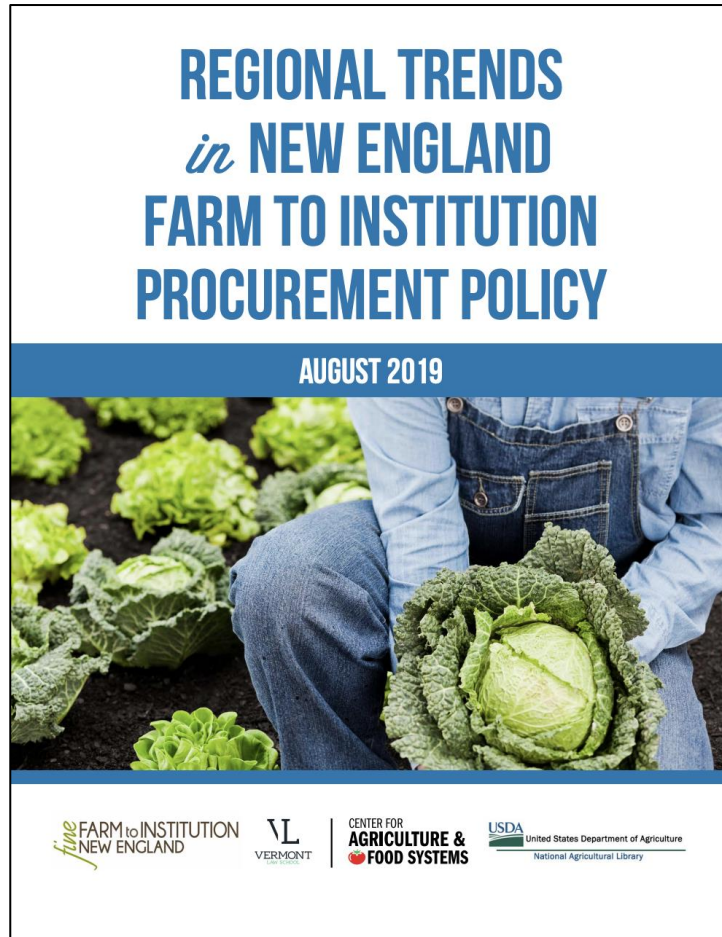
\$65M+ (pre-COVID; K-12 and college)



FARMS

7,241 Farms
\$254M Total sales
\$103M FTI Sales

Local Purchasing in MA State Agencies: RESOURCES



Increasing Local Purchasing: FOR POLICY-MAKERS

- Local Food Action Plan
- Commonwealth Quality Program
- Price preference for local foods
 - Build awareness
 - Standardize and incentivize tracking and reporting
 - Set benchmarks for local purchases
- \$35,000 small purchasing threshold
 - Direct farm purchases without formal bid process
 - Enroll farmers in state small business & supplier diversity programs
 - Further connect producers and buyers

Increasing Local Purchasing: FOR BUYERS

- Direct **farm** purchasing
- Working with **food hubs** and existing food **distributors**
- Using **contracts** and RFPs
- **Tracking** and **reporting**



[**FINE Food Service Toolkit**](#)

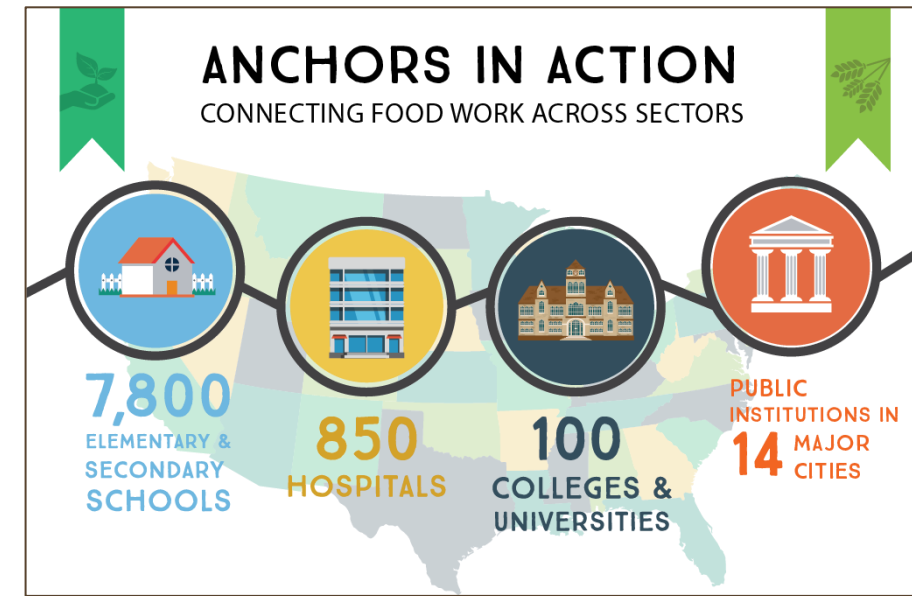
Increasing Local Purchasing: STANDARDS

Value-based standards

- Municipal Sector: **Good Food Purchasing Policy**
- University Sector: **Real Food Challenge**
- Healthcare Sector: **Healthy Food in Health Care**
- Cross sector - **Anchors in Action**

What they offer:

- Public commitments
- Support tracking and reporting progress
- Guidance and validation
- Differentiation in marketplace



A statewide advocacy effort, co-facilitated by Mass. Farm to School and FoodCorps. The Coalition includes a network of partners and farm to school advocates working to support schools in:

- Maximizing **equitable access** to meals at school for all students
- **Strengthening school meals**, including maximizing the use of locally grown and produced foods and providing meals that are culturally connected to diverse student populations
- Offering engaging **food education** and experiential garden-based learning to all students

JOIN THE COALITION!



LEARN MORE: MAFOODFORMAKIDS.ORG

CARCERAL SYSTEM



Courtesy of Mountain View Correctional Facility, ME

MA Department of Corrections

BARRIERS

- Limited ability to source foods outside of state vendor contracts
- Food service directors are not involved in making decisions on vendor contracts and approved purchases
- Policies which inhibit processing (freezing) produce on site

OPPORTUNITIES

- Targeted education for state officials who create vendor contracts about local food purchasing strategies
- More kitchen infrastructure for scratch cooking, baking and food processing
- Exemptions for **off-contract purchases** of local food
- **Prioritize fresh food** options
- Flexible menu strategies, e.g., “seasonal”
- **Greater transparency** on food operations in carceral system

www.farmtoinstitution.org



Tania Taranovski
tania@farmtoinst.org

www.massfarmtoschool.org



Simca Horwitz
simca@massfarmtoschool.org

Kathy Wicks, UMass Amherst

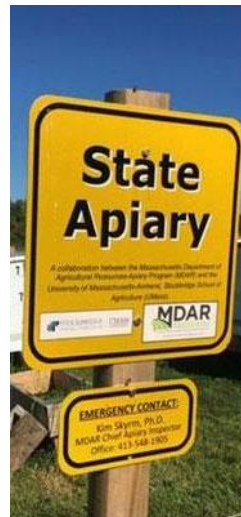


UMASS
DINING

UMassAmherst

See info on the UMass Dining Website: <https://umassdining.com/>
[Making Local, Healthy, Sustainable Delicious – The How-To Guide for Foodservice Operators](#)

Eating Sustainable: Ideas for Institutions



Eating Sustainable: Ideas to Share



- [Buy Local](#) – MDAR has educational resources, maps of farms, fairs, and farmers markets, and guides to help individuals buy local produce



- [Cool Food](#) – Reduce the climate impact of the food you serve by shifting towards more plant-rich foods
 - Organizations can sign a pledge, work with Cool Food team to shift to low-emissions foods and track progress



- [Slow Food](#) – Support local, regional, and global initiatives to ensure everyone has access to good, clean, and fair food and preserve biodiversity
 - [Local northeast chapters](#) work to advance food justice and biodiversity

Leading by Example Council Meeting

RecyclingWorks in Massachusetts

November 15, 2022





FREE ASSISTANCE FOR BUSINESSES & INSTITUTIONS

RecyclingWorks MA is funded by MassDEP, delivered under contract by the Center for EcoTechnology

recyclingworksma.com





Food Recovery Hierarchy

Most Preferred

Source Reduction

Reduce the volume of surplus food generated

Feed Hungry People

Donate extra food to food banks, soup kitchens and shelters

Feed Animals

Divert food scraps to animal food

Industrial Uses

Provide waste oils for rendering and fuel conversion and food scraps for digestion to recover energy

Composting

Create a nutrient-rich soil amendment

Landfill/ Incineration

Last resort to disposal

Least Preferred



**Hotline
Services**

**Technical
Assistance**

**Website
Resources**

**Newsletter &
Social Media**

**Case
Studies**

**Outreach &
Education**



RecyclingWorks Hotline
Interpretation Services Available in Over 100 Languages

info@recyclingworksma.com

888-254-5525

No-Cost Technical Assistance

- Evaluate existing waste streams
- Identify opportunities to prevent, recover, and divert waste
- Employees education and training
- Customized waste bin signage
- Cost analysis for starting or expanding a waste diversion program
- Connect with waste haulers and processors





FOOD SCRAPS RESTOS DE ALIMENTOS



ALL FOOD SCRAPS

Fruit & vegetable peels
Dairy, eggs, grains, bread
Meat, fish, poultry
Bones, shells



TODOS LOS RESTOS DE ALIMENTOS

Pieles de frutass y vegetales
Lácteos, huevos, granos, pan
Carne, pescado, aves
Huesos, cáscaras

NO

Tissues, napkins, paper towels
Compostableware
Coffee cups, wrappers
Plastic, metal, glass



NO

Pañuelos de papel, servilletas,
papel toalla
Utensilios compostables
Taza de café, envoltorios
Plástico, metal, cristal

RESTOS DE COMIDA/RÈS MANJE

Compostagem

Todos restos de comida
Guardanapos e Toalhas
de papel

Frutas, vegetais,
laticínios, pães, grãos,
carnes e peixes,
ossos e conchas, ovos



Konpos

Tout kalite rèss manje
Napkin ak sèvyèt papye

Fwi, legim, pwodui
letye, pen, grenn,
vyann ak pwason,
zo ak koki, ze

NÃO

Proibido luvas, plásticos,
embalagens, isopor e
outros lixos



NON


Pa mete gan, ni plastik,
ni anbalaj, ni stiwofom,
ni okenn lòt fatra



English & Spanish signage available online
Additional translations by request

recyclingworksma.com/about-recyclingworks/get-help-recycling/

Do you know how much food is in your trash?

A row of four large, green plastic trash carts with lids and handles, used for food waste collection.

One-half ton of food waste fills approximately four of these 64-gallon carts.

ESTIMATING FOOD WASTE FROM COLLEGES AND UNIVERSITIES

New Updates

Sample calculations reflect ½ ton food waste per week

½ TON FOOD WASTE PER WEEK:

- 212 students living on campus
- 800 students living off campus

Average Measurement		
Meals Served	0.35	lbs/meal
Students ¹ [Residential]	141.75	lbs/student/year
Students ²	37.8	lbs/student/year

ESTIMATING FOOD WASTE FROM CORRECTIONAL FACILITIES

	Average Measurement		Material
Inmates	1	lbs/inmate/day	Food Waste
Disposed Waste ¹	30	% of total generated waste by weight	Food Waste

½ TON FOOD WASTE PER WEEK:

- 143 inmates
- 1 trash dumpster per week*

*For an 8 yd³ dumpster at 250 lbs/yd³

recyclingworksma.com/how-to/business-sector-guidance/correctional-facilities



SOURCE REDUCTION GUIDANCE

Cost savings

Waste tracking

Meal planning

Food purchasing and procurement

Storage

recyclingworksma.com/source-reduction-guidance

FOOD DONATION GUIDANCE

1. Identify the types and amounts of food to be donated
2. Identify partner organizations in your area with which to work
3. Determine packaging, storage, and labeling requirements to ensure food safety
4. Determine how food will be transported as well as pick-up frequency and quantities

**Businesses and
institutions
donate surplus
food**



**Food banks and
food rescues sort,
store, and
redistribute
surplus food to
agencies**



**Agencies serve
meals made from
surplus food
items to those in
need**



**Food insecure
individuals
recieve
nutritious, good
quality food**

recyclingworksma.com/donate/



Food Donation Agreement Form

Food Donor Organization	Food Distribution Organization
Representative	Representative
Address	Address
Phone	Phone
Email	Email

Food Product	Packaging	Storage Conditions	Check all that apply	Quantity and frequency
Prepared Foods	Food-grade packaging	Chilled to 41°F or below, or frozen at 0°F or below		
Chilled Perishable Prepackaged Foods	Original packaging or food-grade packaging	Chilled to 41°F or below		
Meat, poultry, fish (fresh)	Original packaging or food-grade packaging	Chilled to 41°F or below		
Meat, poultry, fish (frozen)	Original packaging or food-grade packaging	Frozen at 0°F or below		
Dairy Products	Original Packaging or food-grade packaging	Chilled to 41°F or below		
Shelf stable foods	Original packaging			

For additional information on categories of donated food and how they must be handled see Appendix A (pg 39-40) of the Comprehensive Resource for Food Recovery Programs April 2016 revision.

Describe how food will be transported. Include pickup frequencies and how food will be packaged for transport (e.g. in coolers, in refrigerated truck).

RecyclingWorks in Massachusetts Hotline: 888-254-5525 info@RecyclingWorksMA.com
Food Donation Page: www.recyclingworksma.com/donate

Food Donation



Is there leftover food that can be donated today?

DONATE

Whole fruits & vegetables

Fresh dairy, grains

Prepared foods

Food stored below 41°F
or above 135°F



Call _____ at
_____ today
with questions or to schedule pickup!

Store food in fridge located

Label and keep temperature log
every _____ minutes.

NO

Moldy, rotten, spoiled food

Items past expiration date

Food not held at proper temperatures



If you can't donate it - compost it!
Compost bins are located

FOOD SCRAPS SOURCE SEPARATION GUIDANCE

Collect for composting, animal feed, or anaerobic digestion

Container placement and color coding

Clear signage

Easily accessible and available bins

Good housekeeping practices

recyclingworksma.com/source-separation-guidance



CASE STUDIES

Video & written


Search by business type or material

Video subtitles in English & Spanish

Nominate a business or institution to be featured!

recyclingworksma.com/case-studies


Category



Johnny's Luncheonette

RecyclingWorks in Massachusetts presents a case study on Johnny's Luncheonette, an iconic diner in Newton with robust recycling and food ...


[Read More](#)



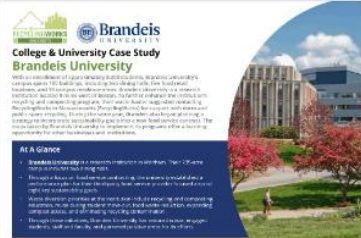
Westin Boston Waterfront Hotel

Learn about Westin Boston Waterfront Hotel's waste diversion efforts through single stream recycling, source separation of food scraps, and food ...

[Read More](#)




Lenox Hotel Case Study ...



Brandeis University

Learn how Brandeis University, a research institution in Waltham, implemented a dorm and public space recycling program with support from ...


[Read More](#)



UMass Amherst

Learn about UMass Amherst's food recovery efforts across the food recovery hierarchy, including source reduction, donation, and composting ...


[Read More](#)



The Lenox Hotel (2019)

Learn how The Lenox Hotel has maintained a successful food waste diversion program for 4 years, donating over 80 meals per ...


[Read More](#)



Food Donation

Learn about food donation practices at two businesses as they partner with food rescue organizations to successfully divert nutritious food ...

[Read More](#)



RecyclingWorks MA Case ...

University of Massachusetts Amherst



Established a plan for reducing pre-consumer waste

Leanpath technology used to track food waste

Food waste reduction of 30% in dining halls

\$750,000 saved in the first 3 years
<https://recyclingworksma.com/case-studies/>

Worcester State University



Cost/benefit analysis of food waste diversion
50 tons of food waste diverted annually
Customized guidance posters for staff
Streamlined collection program

Thank you!

Steven Bandarra

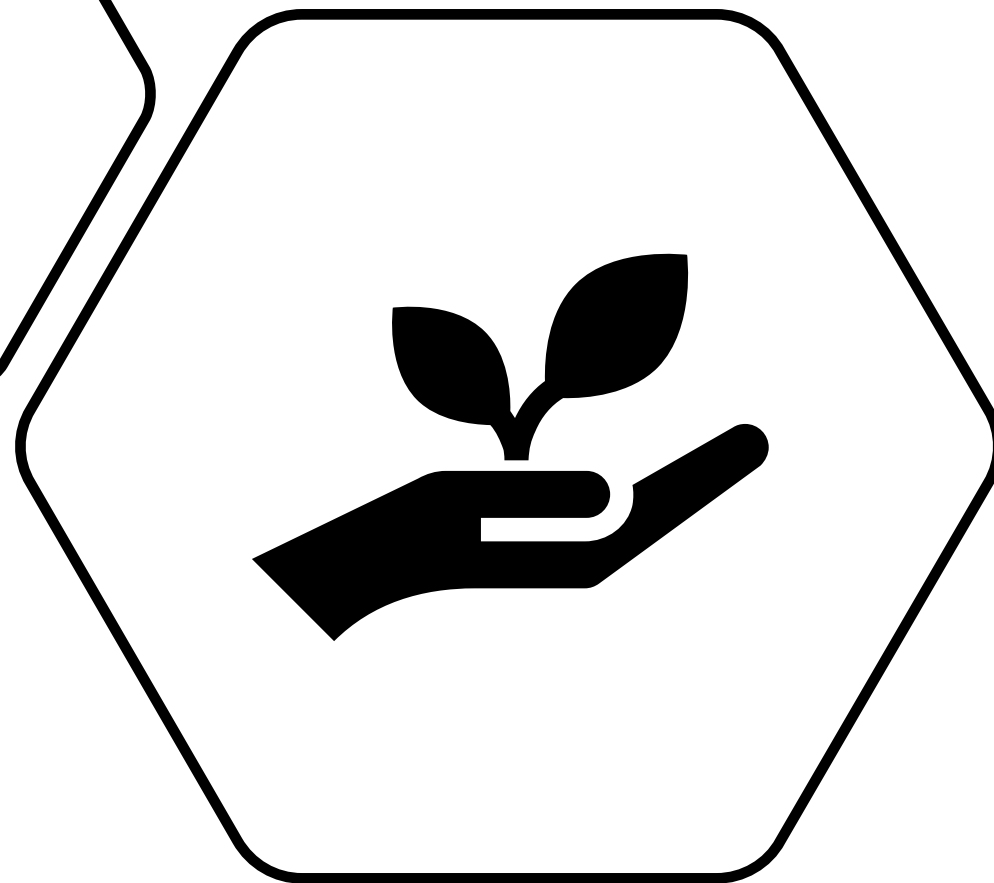
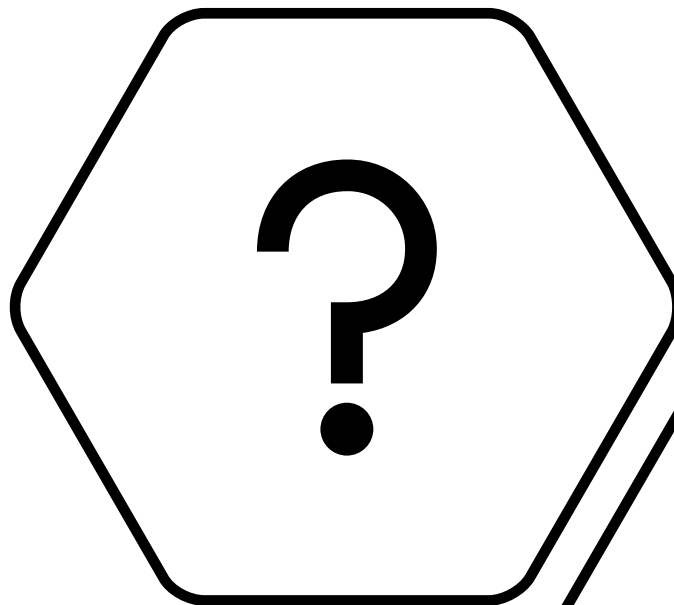
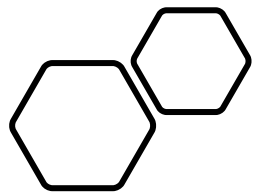
Project Manager

info@recyclingworksma.com

888-254-5525

www.recyclingworksma.com





Q&A

Next LBE Council Meeting

Save the Date!

Tentative:

Tuesday, January 10th

10:00 am–12:00 pm

Upcoming Tentative

Meeting Dates:

March 14th

May 9th



Bob liked free-range chicken – but not the fast ones.