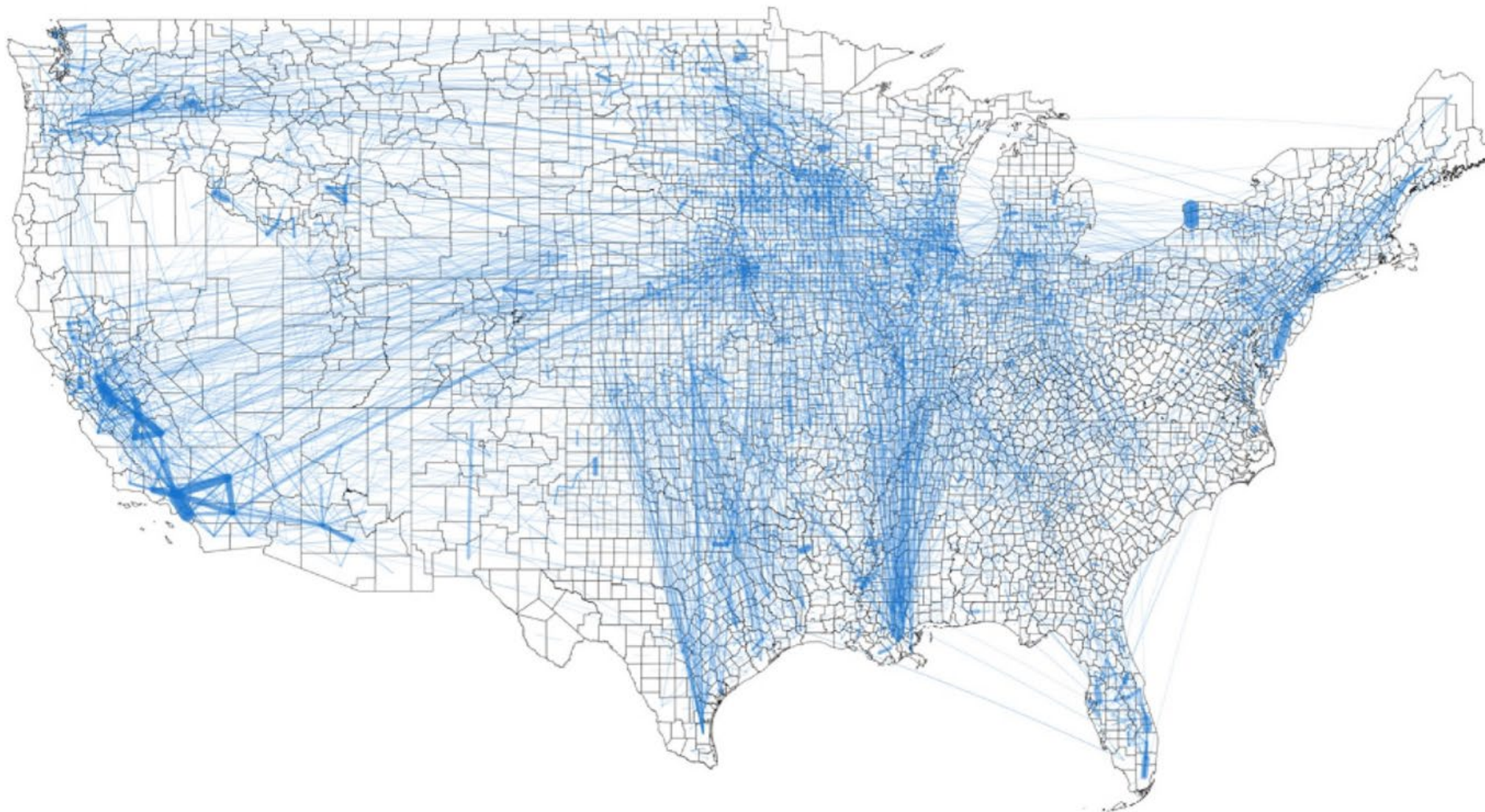


New England Feeding New England: Cultivating a Reliable Food Supply

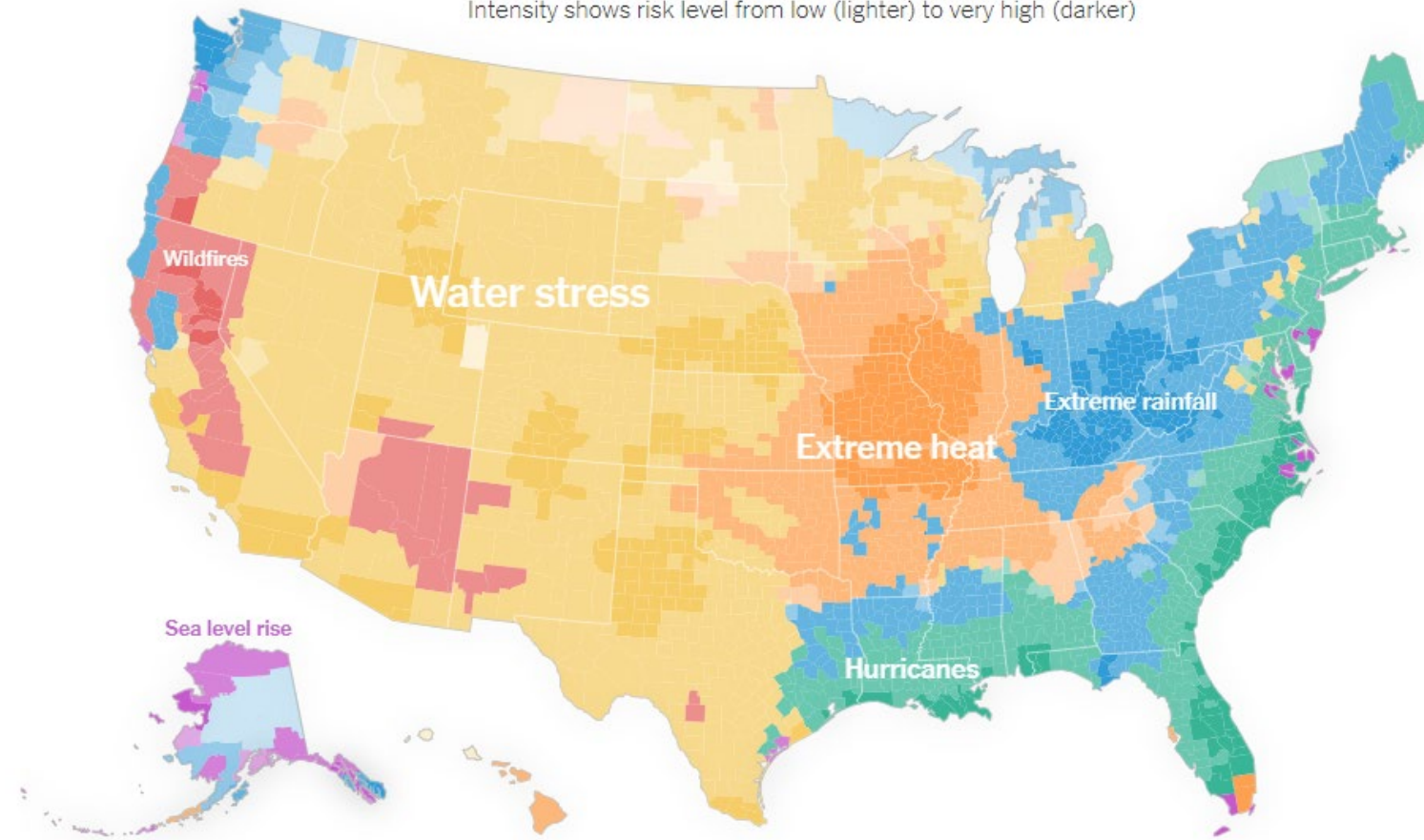
A project of the New England State Food System
Planners Partnership: 2020-2022

Food Flows: Downscaled to All Counties



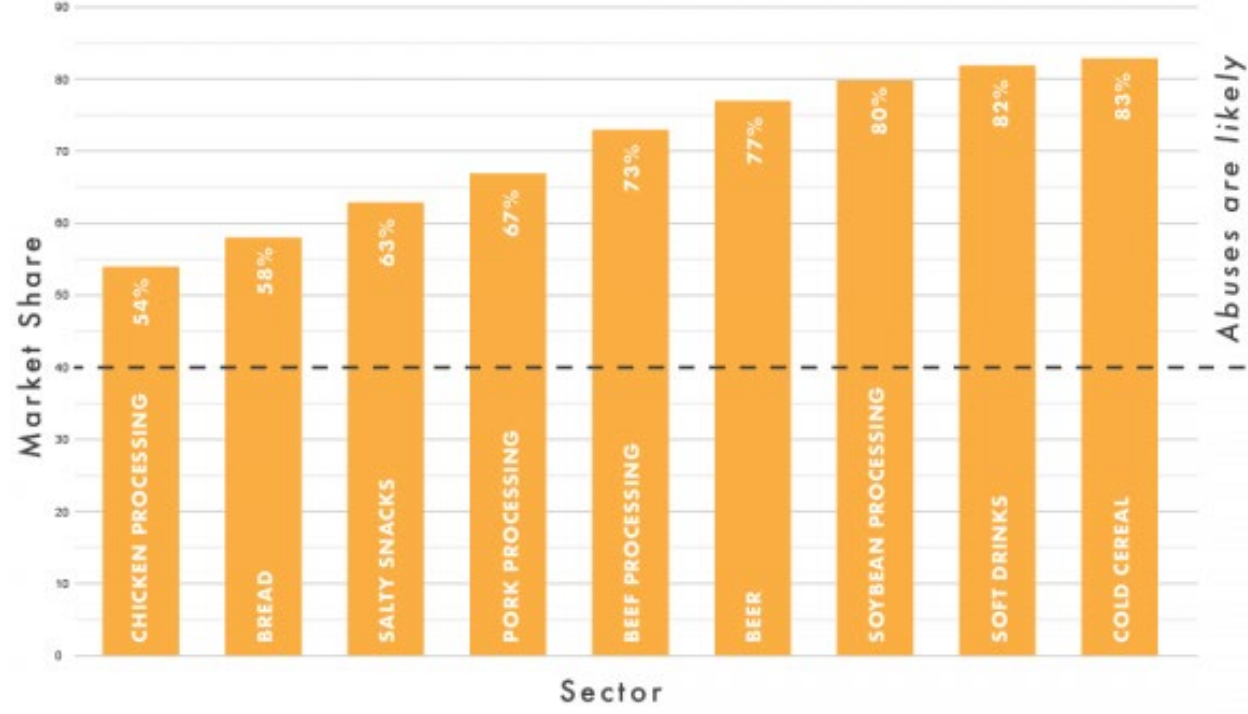
What to call climate change where you live

Intensity shows risk level from low (lighter) to very high (darker)



Note: "Water stress" reflects the change in drought-like conditions as well as water demand. The methodology does not consider distant water supply, so in counties where that may play a larger role, we have selected the second-highest climate risk. Risk levels reflect climate impacts from today to 2040. The "wildfire" label applies to counties where at least part of the region contains the highest risk rating in Four Twenty Seven's data. Other terms are assigned using the highest percentile scores among the remaining climate risks. - Source: Four Twenty Seven

Percent of Market Controlled by Top Four Corporations



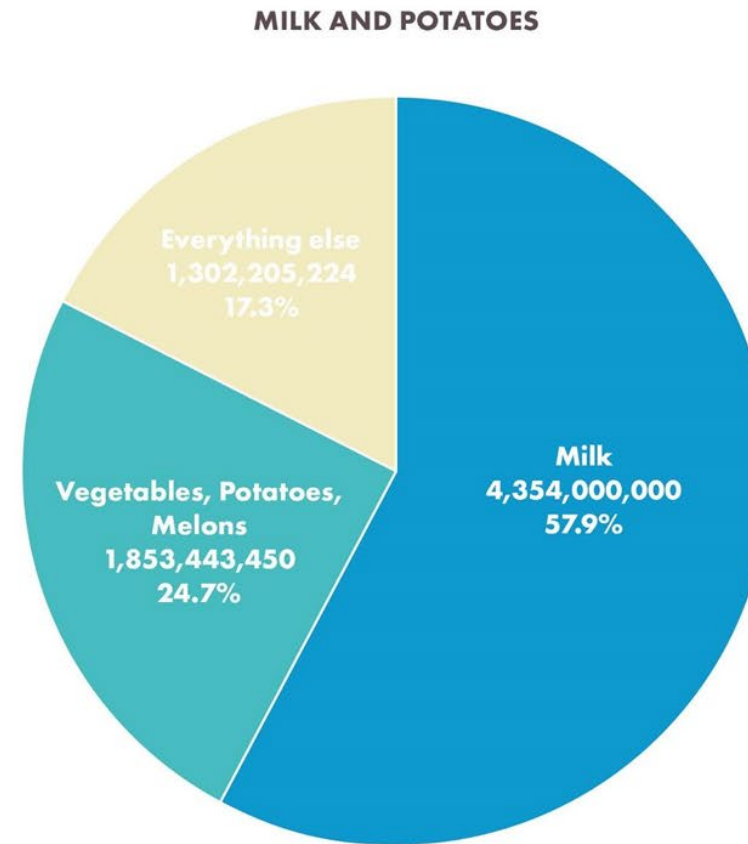
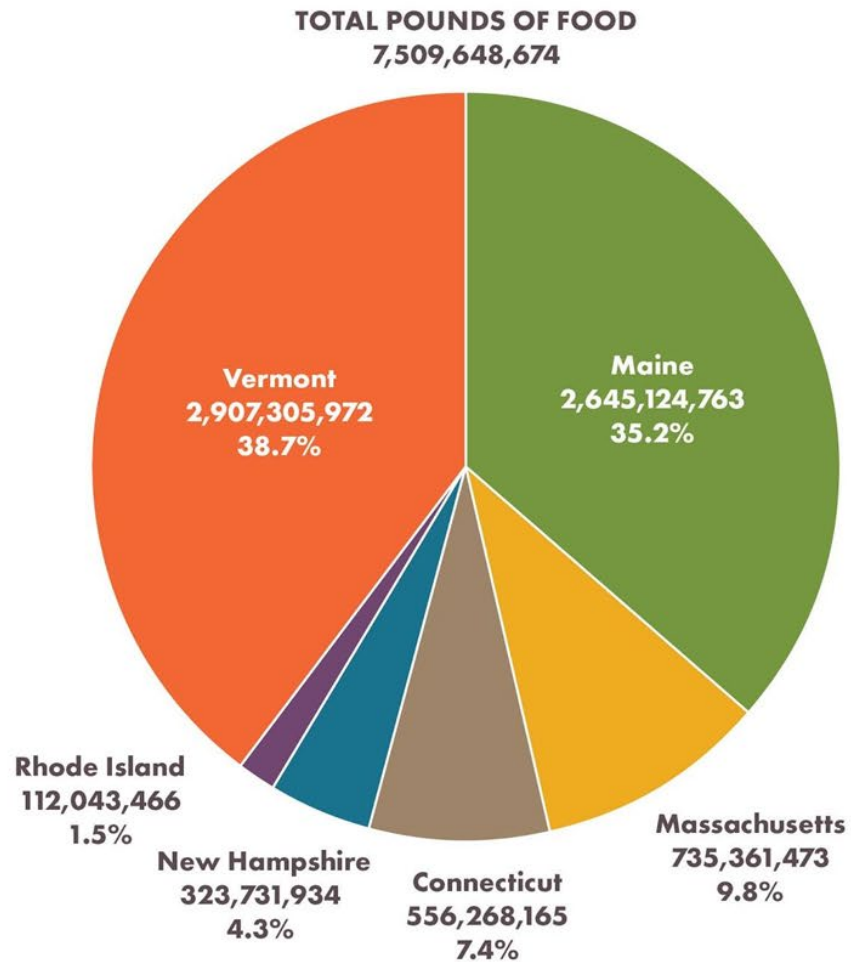
Family Farm
Action Alliance

Estimating Food Production in New England

	New England	Connecticut	Maine	Mass.	New Hampshire	Rhode Island	Vermont
Population	14,845,063	3,565,287	1,344,212	6,892,503	1,359,711	1,059,361	623,989
Total Pounds of Food Produced	7,509,648,674	556,268,165	2,645,124,763	735,361,473	323,731,934	112,043,466	2,907,305,972
<i>Total Per Capita Availability</i>	505.9	156.0	1,967.8	106.7	238.1	105.8	4,659.2
Milk and Milkfat	4,354,000,000	443,900,000	641,900,000	210,000,000	258,700,000	12,000,000	2,787,500,000
<i>Milk and Milkfat Per Capita Availability</i>	293	125	478	30	10	11	4,467
Cattle and Calves	109,014,000	15,698,000	18,699,000	8,844,000	8,465,000	818,000	56,490,000
<i>Cattle and Calves Per Capita Availability</i>	7	4	14	1	6	1	91
Chickens sold for slaughter	891,424			1,252			890,172
<i>Chicken Per Capita Availability</i>	0.06	-	-	0.000	-	-	1.427
Eggs	13,100,220			5,387,591			7,712,630
<i>Eggs Per Capita Availability</i>	0.88	-	-	0.78	-	-	12.36
Hogs and Pigs	10,883,000	800,000	2,125,000	3,509,000	1,667,000	554,000	2,228,000
<i>Hogs and Pigs Per Capita Availability</i>	0.73	0.22	1.58	0.51	1.23	0.52	3.57
Sheep and Lamb	297,000						
<i>Sheep and Lamb Per Capita Availability</i>	0.02	-	-	-	-	-	-
Seafood	596,953,208	11,473,215	252,702,763	241,745,080	9,939,184	81,092,966	
<i>Seafood Per Capita Availability</i>	40	3	188	35	7	77	-
Vegetables, Potatoes, Melons	1,853,443,450	49,364,900	1,534,927,700	209,367,900	23,756,650	14,568,500	21,457,800
<i>Vegetables Per Capita Availability</i>	125	14	1,142	30	17	14	34
Fruits and Berries	443,494,372	34,834,050	91,657,300	55,714,650	19,411,100	3,010,000	9,351,370
<i>Fruits/Berries Per Capita Availability</i>	30	10	68	8	14	3	15
Maple Syrup	30,052,000	198,000	5,929,000	792,000	1,793,000	-	21,340,000
<i>Maple Syrup Per Capita Availability</i>	2.02	0.06	4.41	0.11	1.32	-	34.20
Honey	720,000		384,000				336,000
<i>Honey Per Capita Availability</i>	0.05	-	0.29	-	-	-	0.54
Barley and Oats	96,800,000		96,800,000				
<i>Barley and Oats Per Capita Availability</i>	6.52	-	72.01	-	-	-	-

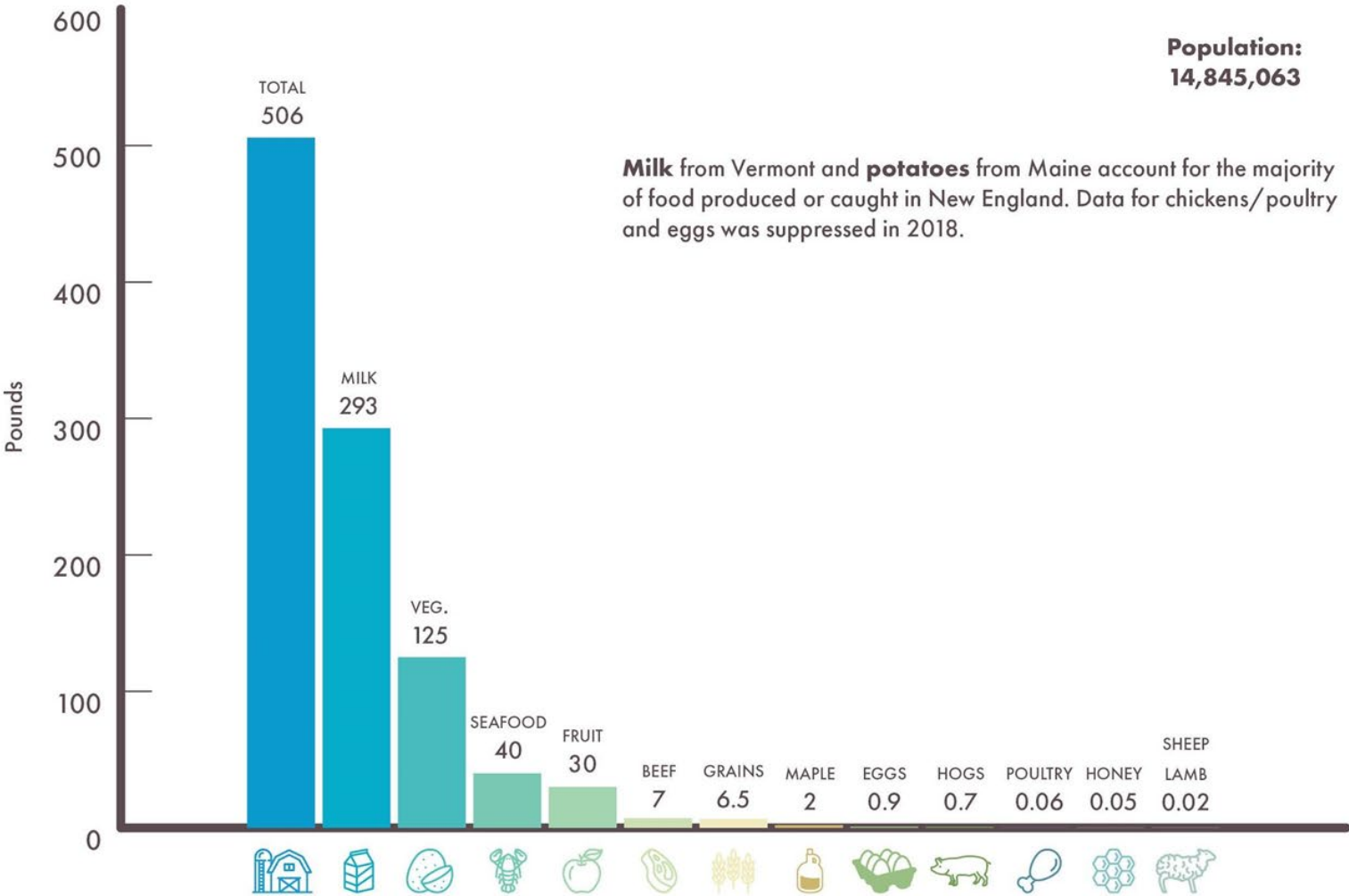
Source: USDA New England Agricultural Statistics, 2018, www.nass.usda.gov/Statistics_by_State/New_England_includes/Publications/Annual_Statistical_Bulletin/2018/2018%20New%20England%20Annual%20Bulletin.pdf

Estimating Food Production in New England



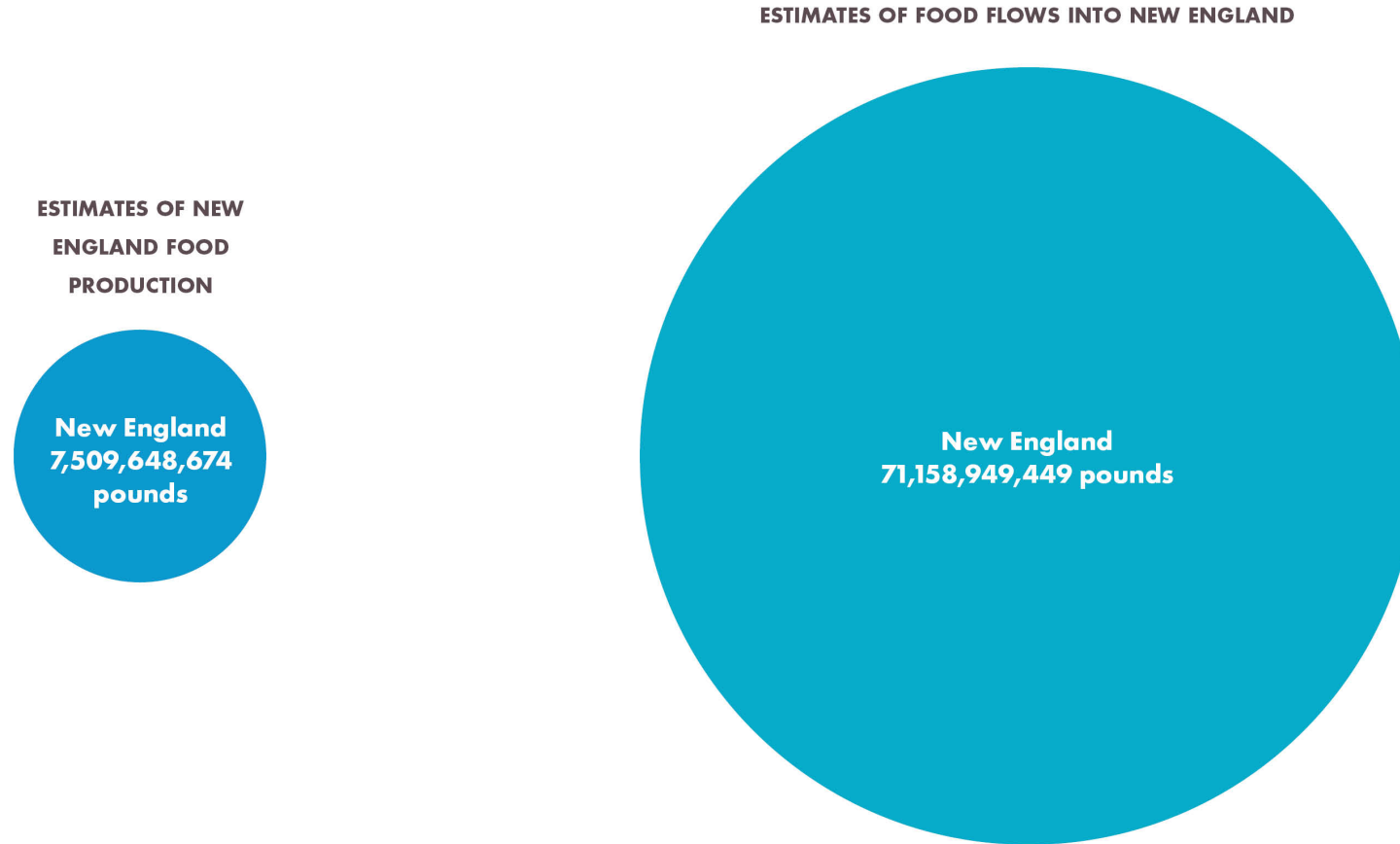
Vermont and **Maine** account for the majority of food production in New England (74%). **Milk** from Vermont and **potatoes** from Maine account for the majority of pounds of food produced or caught in New England. Data for chickens and eggs was suppressed in 2018.

New England Per Capita Food Availability



Source: USDA New England Agricultural Statistics, 2018, www.nass.usda.gov/Statistics_by_State/New_England_includes/Publications/Annual_Statistical_Bulletin/2018/2018%20New%20England%20Annual%20Bulletin.pdf

Comparing Food Production to Food Flow Imports



Source: USDA New England Agricultural Statistics, 2018, www.nass.usda.gov/Statistics_by_State/New_England_includes/Publications/Annual_Statistical_Bulletin/2018/2018%20New%20England%20Annual%20Bulletin.pdf. Xiaowen Lin, Paul J. Ruess, Landon Marston, and Megan Konar, "Food flows between counties in the United States," *Environmental Research Letters*, 14(8), 2019, <https://iopscience.iop.org/article/10.1088/1748-9326/ab29ae/meta>. The food flows data is based on the year 2012.

Vermont Food Flows

FLOW IN	CATEGORIES	FLOW OUT
24,548,576	LIVE ANIMALS	89,142,918
268,560,754	CEREAL GRAINS	239,320,579
368,514,262	AG PRODUCTS	176,578,641
2,245,786,368	ANIMAL FEED	1,935,398,849
104,967,102	MEAT, POULTRY, FISH	4,418,796
558,197,687	MILLED GRAIN + BAKERY PRODUCTS	628,400,418
5,246,419,827	OTHER PREPARED FOODSTUFFS	7,033,201,599
8,816,994,576	TOTAL	10,106,461,800

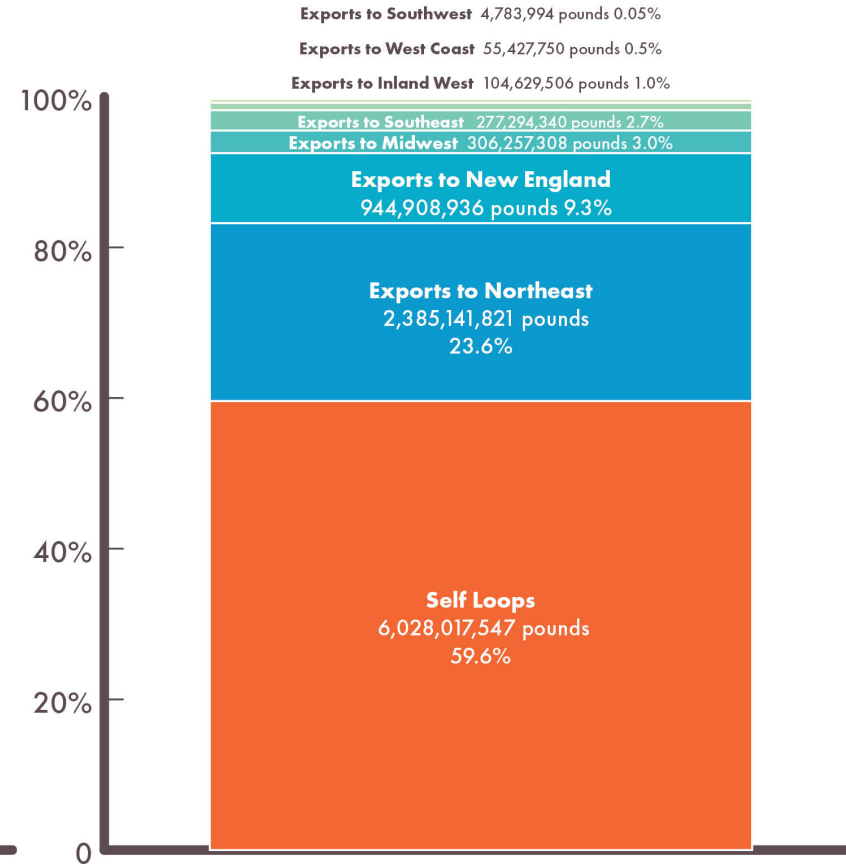
Source: Xiaowen Lin, Paul J. Ruess, Landon Marston, and Megan Konar, "Food flows between counties in the United States," *Environmental Research Letters*, 14(8), 2019, <https://iopscience.iop.org/article/10.1088/1748-9326/ab29ae/meta>.

Vermont Food Flows by Region

FOOD FLOWS INTO VERMONT BY REGION 8,816,994,576 pounds



FOOD FLOWS OUT OF VERMONT BY REGION 10,106,461,800 pounds



Source: Xiaowen Lin, Paul J. Ruess, Landon Marston, and Megan Konar, "Food flows between counties in the United States," *Environmental Research Letters*, 14(8), 2019, <https://iopscience.iop.org/article/10.1088/1748-9326/ab29ae/meta>. The food flows data is based on the year 2012.

Regional Food Flows

- The 6 New England states are the top source and destination for most food categories for each other. The Northeast, particularly New York, is also frequently the top source and destination for New England food categories. The Southwest and Inland West are New England's smallest regional trading partners.
- More food flows into New England (71.1 billion pounds) than flows out (66.2 billion pounds). The only category where more food flows out of New England than comes in is Other Prepared Food Stuffs, Fats, and Oils, which includes dairy products.
- Vermont receives more food products in -- and sends more products out -- to New York than it does to the other individual New England states.

New England Food Flows Into Vermont

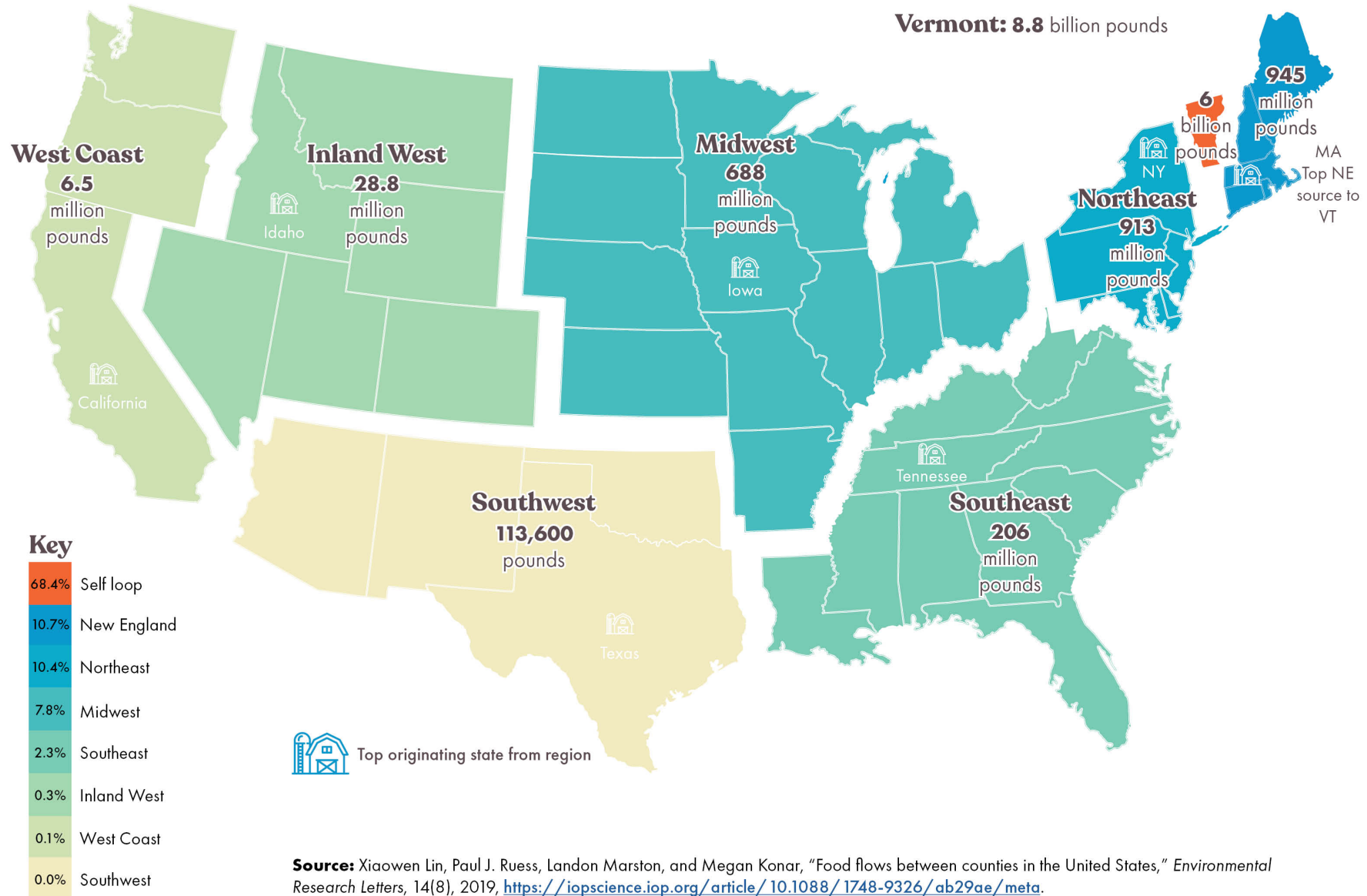
	Live Animals	Cereal Grains	Ag Products	Animal Feed	Meat, Poultry, Fish	Milled Grain + Bakery Products	Other Prepared Foodstuffs
Connecticut	-	-	257,200	5,920,195	21,297,981	-	1,875,198
Maine	775,799	-	7,335,593	1,040,199	4,258,196	111,999,897	87,116,718
Massachusetts	6,028,994	3,566,997	83,511,724	101,197,109	4,128,196	40,749,961	214,593,406
New Hampshire	962,998	1,566,798	4,401,195	16,854,785	10,706,590	3,791,997	169,386,046
Rhode Island	1,096,399	118,400	641,199	3,118,797	-	-	37,420,966
TOTAL POUNDS	8,864,190	5,252,195	96,146,912	128,131,084	40,390,963	156,541,855	510,392,335

New England Food Flows Out of Vermont

	Live Animals	Cereal Grains	Ag Products	Animal Feed	Meat, Poultry, Fish	Milled Grain + Bakery Products	Other Prepared Foodstuffs
Connecticut	-	-	-	12,914,188	-	8,522,790	264,431,359
Maine	-	-	-	63,281,943	-	1,504,198	5,781,595
Massachusetts	622,999	-	3,298,597	22,892,779	-	15,629,386	234,079,389
New Hampshire	84,785,523	1,771,998	26,000	79,119,529	-	67,299,136	69,225,937
Rhode Island	622,999	-	10,800	628,998	-	2,199,397	6,259,394
TOTAL POUNDS	86,031,522	1,771,998	3,335,397	165,923,248	-	86,632,118	315,346,314

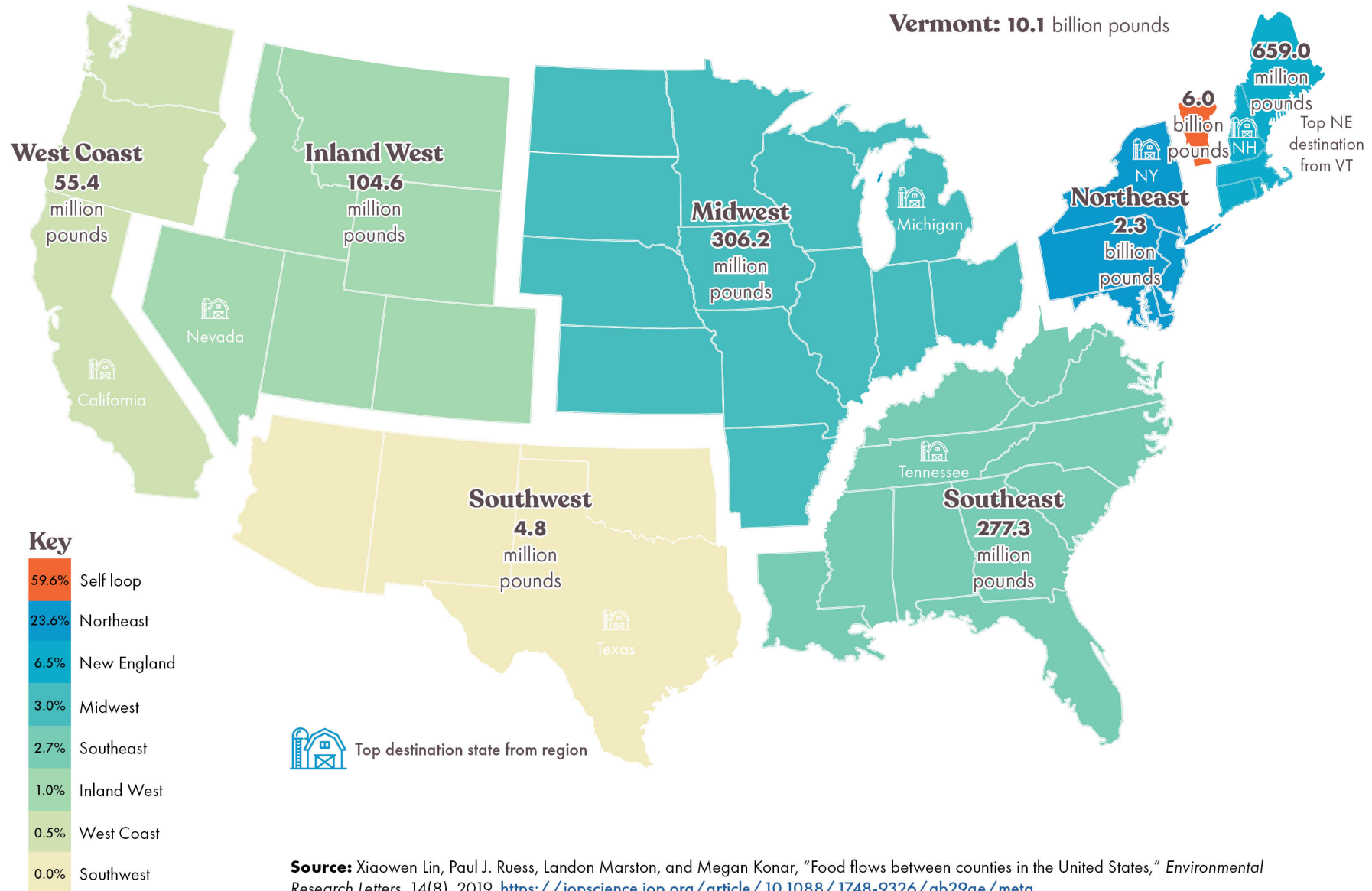
Source: Xiaowen Lin, Paul J. Ruess, Landon Marston, and Megan Konar, "Food flows between counties in the United States," *Environmental Research Letters*, 14(8), 2019, <https://iopscience.iop.org/article/10.1088/1748-9326/ab29ae/meta>.

Total Food Flows Into Vermont



Source: Xiaowen Lin, Paul J. Ruess, Landon Marston, and Megan Konar, "Food flows between counties in the United States," *Environmental Research Letters*, 14(8), 2019, <https://iopscience.iop.org/article/10.1088/1748-9326/ab29ae/meta>.

Total Food Flows Out of Vermont



Source: Xiaowen Lin, Paul J. Ruess, Landon Marston, and Megan Konar, "Food flows between counties in the United States," *Environmental Research Letters*, 14(8), 2019, <https://iopscience.iop.org/article/10.1088/1748-9326/ab29ae/meta>.

The New England State Food System Planners Partnership



NH FOOD ALLIANCE



In collaboration with  **FOOD SOLUTIONS**
NEW ENGLAND

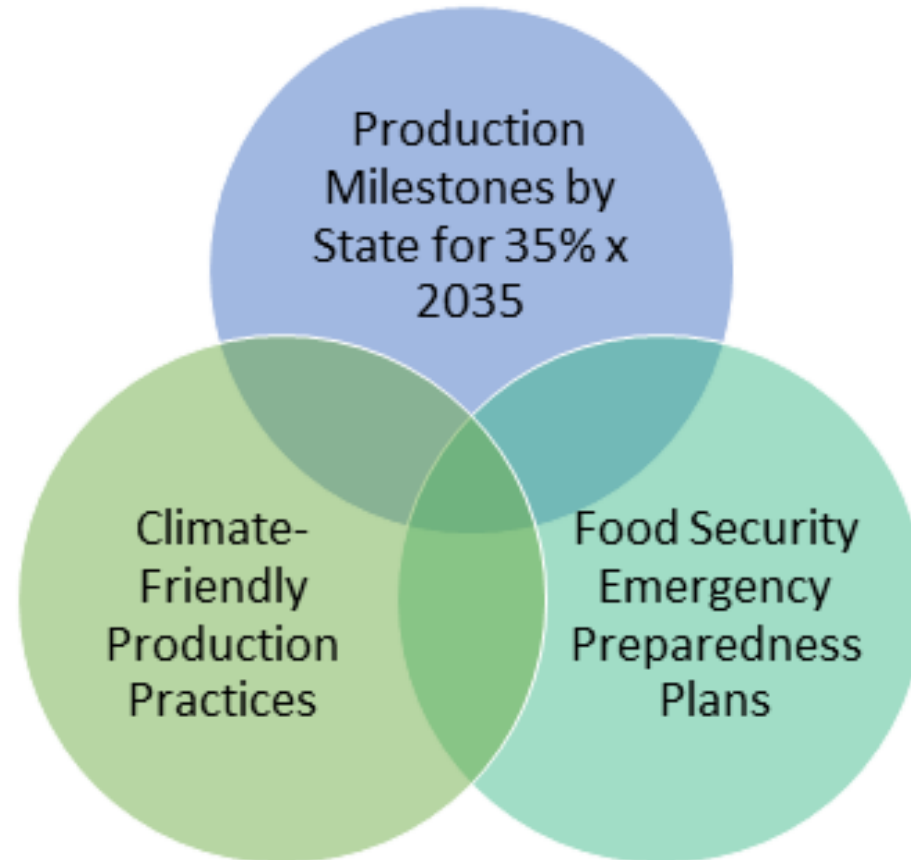
The logo for Food Solutions New England features the word 'FOOD' in a large, green, sans-serif font, with 'SOLUTIONS' in a smaller, green, sans-serif font to its right. Below the text is a graphic of a green fork with roots extending downwards.

New England Feeding New England

- **Goal:** To expand and fortify the region's food supply and distribution systems to ensure the availability of adequate, affordable, socially and culturally appropriate products under a variety of rapidly changing climate, environmental, and public health conditions.

The New England State Food System Planners Partnership

New England Feeding New England Project



2021 Vermont Legislative Opportunity

Local Food System Consideration in Emergency Planning

1. Instructs the VAAFMM to expand what is included in the Vermont Emergency Management Plan: VAAFMM Annex and call for:
 - *Plans for supporting agricultural and processed food production expansion in the state in order to mitigate the impacts of food supply chain disruptions*
 - *Plans which include instructions for making food products available to residents as well as instructions for increasing food production within the state*
 - *Developed in collaboration with other appropriate state agencies and NPOs*
 - *May lead other VEMP Annexes or the main VEMP to include language about planning for food security*
2. Instructs the VAAFMM to work with partners to collect information about all of the emergency feeding operations that were coordinated and 'stood up' during the COVID-19 pandemic, to capture lessons learned and best practices to be used during future emergency events.

More Info:

- New England State Food System Planners Partnership – new website will launch in mid-February, 2021 here:
<http://www.nefoodssystemplanners.org/>
- Food Security Brief in the new Vermont Agriculture & Food System Strategic Plan 2021-2030 (available after Feb 8th)
<https://www.vtfarmtoplate.com/resources/collections/farm-to-plate-2-0-strategic-plan>
- Contact VT Sustainable Jobs Fund / VT Farm to Plate