

End Notes and Data Citations

(Briefs organized in alphabetical order)

Agricultural and Food Literacy

Data Sources:

Jobs on Farms Nationwide

Agriculture and its Related Industries Provide 10.9 Percent of US Employment, United States Department of Agriculture, Economic Research Service (2019), <https://www.ers.usda.gov/data-products/chart-gallery/gallery/chart-detail/?chartId=58282>.

Survey of Consumers Nationwide

Nationwide Surveys Reveal Disconnect Between Americans and their Food, Prepared for the U.S. Farmers & Ranchers Alliance by the Ketchum Global Research Network and Braun Research (2011), <https://www.prnewswire.com/news-releases/nationwide-surveys-reveal-disconnect-between-americans-and-their-food-130336143.html>.

Agricultural Literacy, K-12

Data Sources:

Vermont Farm to School Statistics

2018 Vermont Integrated Food, Farm, and Nutrition Programming Data Harvest, Prepared for the Vermont Farm to School Network by the Vermont Department of Health (2018), <https://vermontfarmtoschool.org/resources/2018-vermont-integrated-food-farm-and-nutrition-programming-data-harvest>.

Agritourism

End Notes:

1. Zhao Peihong and Zheng Yali, *Global Agritourism Market Report, History and Forecast 2014-2025, Breakdown Data by Companies, Key Regions, Types and Applications*, QY Research (Mar. 2019).
2. *2017 Census of Agriculture, Volume 1, Geographic Area Series Part 45, Vermont, State and County Data*, United States Department of Agriculture, National Agricultural Statistics Service, (Table 7) 17 (Apr. 2019), https://www.nass.usda.gov/Publications/AgCensus/2017/Full_Report/Volume_1,_Chapter_1_State_Level/Vermont/vtv1.pdf.

Data Sources:

Out-of-State Visitors

Ken Jones, *2017 Benchmark Report: Tourism in Vermont*, Vermont Department of Tourism & Marketing (Dec. 2018), <https://accd.vermont.gov/sites/accdnew/files/documents/VDTM/BenchmarkStudy/VDTM-Research-2017BenchmarkStudyFullReport.pdf>.

William Valliere, Lisa Chase, and Robert Manning, *Vermont Tourism and Recreation Survey Final Report*, University of Vermont Tourism Research Center (2014), https://www.uvm.edu/sites/default/files/Rubenstein-School-of-Environment-and-Natural-Resources/Vermont_Visitor_Survey_Final_Report_7-24-14.pdf.

Farms Reporting Agritourism Income

Census of Agriculture, Vermont State, and County Data, United States Department of Agriculture, National Agricultural Statistics Service (See Tables 'Income from Farm-Related Sources') 2007, 2017 (Multiple Years), <https://www.nass.usda.gov/AgCensus/index.php>.

Agroforestry

End Notes:

1. *Forests of Vermont, 2019*, United States Department of Agriculture Forest Service (2019), https://public.tableau.com/views/FIA_OneClick_V1_2/Factsheet?%3AshowVizHome=no.
2. Jen Colby, Juan ALvez & Kimberly Hagen, *Pasture Improvement Tools: Agroforestry Systems*, University of Vermont Extension, <https://www.uvm.edu/sites/default/files/media/agroforestryv3.pdf>.
3. Paul Hawke, *Drawdown: The Most Comprehensive Plan Ever Proposed to Reverse Global Warming*, Penguin Publishing Group (2017).
4. Joseph Orefice, John Carroll, and Leanne Ketner, *Photo Guide to Northeastern United States Silvopasture*, Northeastern States Research Cooperative (2016), <https://cpb-us-w2.wpmucdn.com/www.paulsmiths.edu/dist/e/71/files/2016/06/Photo-Guide-to-Northeastern-United-States-Silvopasture-1lmctmt.pdf>.
5. *Census of Agriculture, Volume 1, Geographic Area Series Part 45, Vermont, State and County Data*, United States Department of Agriculture, National Agricultural Statistics Service (Table 8) 17 (Apr. 2019), https://www.nass.usda.gov/Publications/AgCensus/2017/Full_Report/Volume_1_Chapter_1_State_Level/Vermont/vtv1.pdf.
6. See *Windbreaks*, United States Department of Agriculture National Agroforestry Center, <https://www.fs.usda.gov/nac/practices/windbreaks.php>.
7. Mark Rkawczyk, *Treeing the Vermont Farmscape*, Keyline, Permaculture & Agroforestry Design/ Consultation, (2010), <http://www.burlingtonpermaculture.com/uploads/4/2/8/9/4289790/treeingvermont.pdf>.
8. *Census of Agriculture, Volume 1, Geographic Area Series Part 45, Vermont, State and County Data*, United States Department of Agriculture, National Agricultural Statistics Service (Table 7) 17 (Apr. 2019), https://www.nass.usda.gov/Publications/AgCensus/2017/Full_Report/Volume_1_Chapter_1_State_Level/Vermont/vtv1.pdf.

Data Sources:

Open Fields vs Silvopasture Visual

Schattman, R. E., Hurley, S., Greenleaf, H., Niles, M. T., & Caswell, M. (2020). *Visualizing climate change adaptation: An effective tool for agricultural outreach?* Weather, Climate, and Society.

Alternative Land Ownership and Access Models

Data Sources:

Market Value of Land and Buildings

Census of Agriculture, Volume 1, Geographic Area Series Part 45, Vermont, State and County Data, United States Department of Agriculture, National Agricultural Statistics Service (Table 71) 72-95 (Apr. 2019), https://www.nass.usda.gov/Publications/AgCensus/2017/Full_Report/Volume_1,_Chapter_1_State_Level/Vermont/vtv1.pdf.

Total Acres of Land Owned and Leased

Census of Agriculture, Volume 1, Geographic Area Series Part 45, Vermont, State and County Data, United States Department of Agriculture, National Agricultural Statistics Service (Table 71) 72-95 (Apr. 2019), https://www.nass.usda.gov/Publications/AgCensus/2017/Full_Report/Volume_1,_Chapter_1_State_Level/Vermont/vtv1.pdf.

Apples

Data Sources:

Acres in Apple Orchards

New England Agricultural Statistics, United States Department of Agriculture National Agricultural Statistics Service New England Field Office (See Tables 'Apple Acreage, Yield, Production, Price, and Value') (2001, 2004, 2009, 2012, 2017) (Multiple Years), https://www.nass.usda.gov/Statistics_by_State/New_England/index.php.

Price per Bushel

New England Agricultural Statistics, United States Department of Agriculture National Agricultural Statistics Service New England Field Office (See Tables 'Apple Acreage, Yield, Production, Price, and Value') (2001, 2004, 2009, 2012, 2017) (Multiple Years), https://www.nass.usda.gov/Statistics_by_State/New_England/index.php.

Beer

Data Sources:

Number of Vermont Craft Breweries:

Vermont's Craft Beer Sales & Production Statistics, 2019, Brewers Association for Small & Independent Craft Brewers (2021), <https://www.brewersassociation.org/statistics-and-data/state-craft-beer-stats/?state=VT>.

Bees and Honey

End Notes:

1. Press Release, Office of the Press Secretary, The White House President Barack Obama, *Fact Sheet: The Economic Challenge Posed By Declining Pollinator Populations*, (Jun. 20, 2014), <https://obamawhitehouse.archives.gov/the-press-office/2014/06/20/fact-sheet-economic-challenge-posed-declining-pollinator-populations>.
2. *Bee Industry Overview*, Vermont Agency of Agriculture, Food & Markets (2020), <https://agriculture.vermont.gov/food-safety-regulation-0/apiary-program/bee-industry-overview>.
3. *Loss and Management Survey*, Bee Informed (2020), <https://beeinformed.org/citizen-science/loss-and-management-survey/>.
4. Norberto L. Garcia, *The Current Situation on the International Honey*

Market, *Bee World* Vol. 95, Issue 3 (2018), <https://www.tandfonline.com/doi/full/10.1080/0005772X.2018.1483814?scroll=top&needAccess=true>.

Data Sources

Colony Losses by County

Reported data are from an as of yet unpublished 2017 census conducted by the University of Vermont in collaboration with the Vermont Agency of Agriculture's apiary inspection program. Email from Samantha Alger, Research Assistant Professor, Vermont Bee Lab at University of Vermont, to Sarah Danly, Farm to Plate Network Manager, Vermont Sustainable Jobs Fund (Nov. 2, 2020, 5:12pm EST) (on file with author).

Bread

Data Sources

Survey of Vermont bread bakers

Email from Randy George, Red Hen Baking, to Becka Warren, Farm to Plate Plan 2.0 Project Coordinator, Vermont Sustainable Jobs Fund (on file with author).

Cheese

Data Sources:

Membership of the Vermont Cheese Council

Vermont Cheese Council, www.vtcheese.com (last visited Jan. 05, 2020).

National Consumption of Dairy Fluid Milk and Cheese

United States Economic Research Service, <https://www.ers.usda.gov/data-products/dairy-data/> (last updated December 11, 2019).

Child Care

End Notes

1. Jen Horwitz, *Stalled at the Start Vermont's Child Care Challenge*, Lets Grow Kids (2020), https://www.letsgrowkids.org/client_media/files/pdf/StalledatStart2020.pdf.
2. *Vermont Basic Needs Budgets and Livable Wage*, Vermont Legislative Joint Fiscal Office (2019), <https://legislature.vermont.gov/assets/Legislative-Reports/2019-Basic-Needs-Budget-and-Livable-Wage-report-FINAL-1-15-2019.pdf>.
3. Barbara C. Lee, Susan S. Gallagher, Amy K. Liebman, Mary E. Miller, & Barbara Marlenga, *Blueprint for Protecting Children in Agriculture: The 2012 National Action Plan*, Marshfield Clinic (2012), https://www.marshfieldresearch.org/Media/Default/NFMC/PDFs/Blueprint_for_Protecting_Children_in_Agriculture-1.pdf.
4. Andrea Rissing, Shoshanah Inwood & Emily Stengal, *The Invisible Labor and Multidimensional Impacts of Negotiating Childcare on Farms*, *Agriculture and Human Values* (2020), <https://link.springer.com/article/10.1007/s10460-020-10162-1>.
5. *Id.*

6. Jen Horwitz, *Stalled at the Start Vermont's Child Care Challenge*, Lets Grow Kids (2020), https://www.letsgrowkids.org/client_media/files/pdf/StalledatStart2020.pdf.
7. *Id.*
- 8.
9. *Census of Agriculture, Volume 1, Geographic Area Series Part 45, Vermont, State and County Data*, United States Department of Agriculture, National Agricultural Statistics Service (Apr. 2019), https://www.nass.usda.gov/Publications/AgCensus/2017/Full_Report/Volume_1,_Chapter_1_State_Level/Vermont/vtv1.pdf.
10. Andrea Rissing, Shoshanah Inwood & Emily Stengal, *The Invisible Labor and Multidimensional Impacts of Negotiating Childcare on Farms*, *Agriculture and Human Values* (2020), <https://link.springer.com/article/10.1007/s10460-020-10162-1>.
11. Trina R. Williams Shanks and Christine Robinson, *Assets, Economic Opportunity and Toxic Stress: A Framework for Understanding Child and Educational Outcomes*, *Economics of Education Review* Vol. 33 154-170 (2013), <https://www.sciencedirect.com/science/article/abs/pii/S0272775712001458?via%3Dihub>.
12. Andrea Rissing, Shoshanah Inwood & Emily Stengal, *The Invisible Labor and Multidimensional Impacts of Negotiating Childcare on Farms*, *Agriculture and Human Values* (2020), <https://link.springer.com/article/10.1007/s10460-020-10162-1>.
13. *Id.*
14. Lydia Zepeda & Jonsoog Kim, *Farm Parents' Views on their Children's Labor on Family Farms: A Focus Group Study of Wisconsin Dairy Farmers*, *Agriculture and Human Value* 23 109-121 (2006), <https://link.springer.com/article/10.1007/s10460-004-5873-8?LI=true>.
15. Casper Bendixsen, *A Farm Kid Paradox*, *Journal for the Anthropology of North America* (2019), <https://anthrosource.onlinelibrary.wiley.com/doi/full/10.1002/nad.12118>.
16. Joanna Dreby & Mairead Carr, *Children and the Modern Farming Movement*, *Sociological Forum* (2019), <https://onlinelibrary.wiley.com/doi/abs/10.1111/socf.12558>.
17. Valerie Elliot, Allison Cammer, William Pickett, Barbara Marlenga, Joshua Lawson, James Dosman, Loise Hagel, Niels Koehncke, & Catherine Trask, *Towards A Deeper Understanding of Parenting on Farms: A Qualitative Study* 13(6) (2018), <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5999275/>.
18. Amy K. Liebman, Barbara Mainster & Barbara C. Lee, *Family Services for Migrant and Seasonal Farm Workers: The Redlands Christian Migrant Association (RCMA) Model*, *Journal of Agromedicine* (2014), <https://www.tandfonline.com/doi/abs/10.1080/1059924X.2014.893217>.
19. *2020 Childhood Agricultural Injuries Fact Sheet*, National Children's Center for Rural and Agricultural Health and Safety (2020), <https://marshfieldresearch.org/Media/Default/NFMC/PDFs/ChildAgInjuryFactsheet2020.pdf>.
20. Michael Goldcamp, Kitty J Hendricks, & John R. Myers, *Farm fatalities to youth 1995-2000: A comparison by age groups*, *J Safety Res.* 35(2) 151-17 (2004), <https://pubmed.ncbi.nlm.nih.gov/15178233/>.

21. *Agricultural Safety*, Marshfield Clinic Research Institute: National Children's Center for Rural and Agricultural Health and Safety (2019), <https://www.marshfieldresearch.org/nccrahs>.
22. Jen Horwitz, *Stalled at the Start Vermont's Child Care Challenge*, Lets Grow Kids (2020), https://www.letsgrowkids.org/client_media/files/pdf/StalledatStart2020.pdf.
23. Andrea Rissing, Shoshanah Inwood & Emily Stengal, *The Invisible Labor and Multidimensional Impacts of Negotiating Childcare on Farms*, Agriculture and Human Values (2020), <https://link.springer.com/article/10.1007/s10460-020-10162-1>.
24. A.K. Liebman, M.A Salzwedel, J. Simmons & B.C. Lee, *A Roadmap for Delivering Child Care in Agricultural Communities*, Migrant Clinician's Network (2019), https://www.cultivatesafety.org/wp-content/uploads/2019/06/A-Roadmap-for-Delivering-Child-Care-in-Agricultural-Communities_Web.pdf.
25. Valerie Elliot, Allison Cammer, William Pickett, Barbara Marlenga, Joshua Lawson, James Dosman, Loise Hagel, Niels Koehncke, & Catherine Trask, *Towards A Deeper Understanding of Parenting on Farms: A Qualitative Study* 13(6) (2018), <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5999275/>.
26. Andrea Rissing, Shoshanah Inwood & Emily Stengal, *The Invisible Labor and Multidimensional Impacts of Negotiating Childcare on Farms*, Agriculture and Human Values (2020), <https://link.springer.com/article/10.1007/s10460-020-10162-1>.
27. *Id.*
28. *Id.*
29. Alan D. Berkowitz & Wesley H. Perkins, *Stress among farm women: Work and family as interacting systems*, Journal of Marriage and the Family 46(1) (1984), <https://psycnet.apa.org/record/1984-31187-001>.
- 30.
31. Calvin Jones & Rachel A. Rosenfeld, *American farm women: Findings from a nation survey* (NORC Report No. 130) National Opinion Research Center (1981), https://www.norc.org/PDFs/publications/NORCRpt_130.pdf.
- 32.
33. Andrea Rissing, Shoshanah Inwood & Emily Stengal, *The Invisible Labor and Multidimensional Impacts of Negotiating Childcare on Farms*, Agriculture and Human Values (2020), <https://link.springer.com/article/10.1007/s10460-020-10162-1>.
34. Kimberly J. Morgan, *The Religious Foundations of Work-Family Policies in Western Europe*, Cambridge University Press 56-90 (2010), <https://www.cambridge.org/core/books/religion-class-coalitions-and-welfare-states/religious-foundations-of-workfamily-policies-in-western-europe/1E8AD6B303DE9B7996494F77306A3FC3>.
35. Elizabeth E. Davis, Deana Grove, Roberta B. Weber, *Rural-Urban Differences in Child Care Subsidy Use and Employment Stability*, Applied Economic Perspectives and Policy 32 135-153 (2009) https://health.oregonstate.edu/sites/health.oregonstate.edu/files/early-learners/pdf/research/rural-urban_differences_in_child_care_subsidy_use_and_employment_stability.pdf.
36. Andrea Rissing, Shoshanah Inwood & Emily Stengal, *The Invisible Labor and Multidimensional Impacts of Negotiating Childcare on Farms*, Agriculture and Human Values

(2020), <https://link.springer.com/article/10.1007/s10460-020-10162-1>.

37. *Id.*

38. Florence Becot & Shoshanah Inwood, *The Case for Integrating Household Social Needs and Social Policy into the International Family Farm Research Agency*, *Journal for Rural Studies*, 77, 185-198 (2020), <https://www.sciencedirect.com/science/article/abs/pii/S0743016719312215?via%3Dihub>.

39. Andrea Rissing, Shoshanah Inwood & Emily Stengal, *The Invisible Labor and Multidimensional Impacts of Negotiating Childcare on Farms*, *Agriculture and Human Values* (2020), <https://link.springer.com/article/10.1007/s10460-020-10162-1>.

40. Barbara C. Lee, Susan S. Gallagher, Amy K. Liebman, Mary E. Miller, & Barbara Marlenga, *Blueprint for Protecting Children in Agriculture: The 2012 National Action Plan*, Marshfield Clinic (2012), https://www.marshfieldresearch.org/Media/Default/NFMC/PDFs/Blueprint_for_Protecting_Children_in_Agriculture-1.pdf.

Data Sources

Vermont Capacity and Demand for Child Care

Jen Horwitz, *Stalled at the Start Vermont's Child Care Challenge*, Lets Grow Kids (2020), https://www.letsgrowkids.org/client_media/files/pdf/StalledatStart2020.pdf.

Compost

Data Sources:

Vermont Waste Composition

2018 *Vermont Waste Characterization*, Vermont Department of Environmental Conservation, Solid Waste Program (Dec. 2018), <https://dec.vermont.gov/sites/dec/files/wmp/SolidWaste/Documents/2018-VT-Waste-Characterization.pdf>.

Growth in Haulers Offering Organics Pickup

E-mail from Natasha Duarte, Director, Composting Association of Vermont, to Sarah Danly, Farm to Plate Network Manager, Vermont Sustainable Jobs Fund (Nov. 13, 2020, 2:21 EST) (on file with VSJF). Compiled from multiple editions of *Vermont Food Scrap Haulers*, Vermont Department of Environmental Conservation, <https://dec.vermont.gov/sites/dec/files/wmp/SolidWaste/Documents/FoodScrapHaulersSTATEWIDELIST.pdf>, archived at the Composting Association of Vermont.

Climate Change

End Notes:

1. Dupigny-Giroux, Mecray, Lemcke-Stampone, Hodgkins, Lentz, Mills, Lane, Miller, Hollinger, Solecki, Wellenius, Sheffield, MacDonald, and Caldwell, *Fourth National Climate Assessment - Chapter 18: Northeast Volume II: Impacts, Risks, and Adaptation in the United States*, U.S. Global Change Research Program, 669-742 (2018), <https://nca2018.globalchange.gov/chapter/18/>.

Ben Hill, *Climate Impacts Maple Breakfast*, NH Food Alliance, (Mar. 2017), <https://www.nhfoodalliance.com/content/climate-impacts-maple-breakfast>.

David W. Wolfe, Arthur T. DeGaetano, Gregory M. Peck, Mary Carey, Lewis H. Ziska, John Lea-Cos, Arment R. Kemanian, Michael P. Hoffmann & David Y. Hollinger, *Unique Challenges and opportunities for northeastern US crop production in a changing climate*, *Climatic Change* 231-245, (2018) <https://link.springer.com/article/10.1007/s10584-017-2109-7>.

2. Alissa White, Joshua Faulkner, Sarah Sims, Phoebe Tucker & Kyle Weatherhogg, *Report of the 2017-2018 New England Adaptation Survey for Vegetable and Fruit Growers*, Department of Plant and Soil Science, University of Vermont (2018), https://www.researchgate.net/publication/328789531_Report_of_the_2017-2018_New_England_Adaptation_Survey_for_Vegetable_and_Fruit_Growers.

3. Alissa White, Joshua Faulkner, Sarah Sims, Phoebe Tucker & Kyle Weatherhogg, *Report of the 2017-2018 New England Adaptation Survey for Vegetable and Fruit Growers*, Department of Plant and Soil Science, University of Vermont (2018), https://www.researchgate.net/publication/328789531_Report_of_the_2017-2018_New_England_Adaptation_Survey_for_Vegetable_and_Fruit_Growers.

Data Sources

Projected Change in Precipitation

Hostetler, Alder and Allan, *Dynamically downscaled climate simulations over North America: Methods, evaluation and supporting documentation for users*, U.S. Geological Survey: Open-File Report (2011), <http://regclim.coas.oregonstate.edu/visualization/rccv/>.

Very Heavy Precipitation Events

Wuebbles, Fahey, Hibbard, Dokken, Steward and Maycock, *Climate Science Special Report: Fourth National Climate Assessment, Volume 1*, U.S. Global Change Research Program (2017), <https://science2017.globalchange.gov/>.

College and Hospital Procurement

Data Sources

Percent of Direct-to-Institution Sales by Type of Institution

Nessa Richman, Lydia Oberholtzer, Jennifer Obadia, Kaitlin Haskins, Peter Allison, *Producer Perspectives: The New England Farm-to-Institution Market*, Farm to Institution New England (Jun. 2017), <https://www.farmtoinstitution.org/sites/default/files/imce/uploads/FINE%20Producer%20Report.pdf>.

Percent of Products Sourced Locally

Andy Cox, Holly Fowler, Simca Horwitz, Michael Leviton, *Campus Dining 201: Trends, Challenges, and Opportunities For Farm to College in New England*, Farm to Institution New England, (Figure 11) (2018), https://static1.squarespace.com/static/5611a020e4b00b12a23c69fe/t/5ca3c7ba4192024e39d06a2d/1554237374219/Campus+Dining+Report_FINAL_Digital+%283%29.pdf.

Percent of Hospitals Purchasing Locally through Different Sources

Jen Obadia, *Farm to Health Care: Region At-A-Glance*, New England Farm to Institution (2017), <http://dashboard.farmtoinstitution.org/hospitals>.

Consumer Demand

End Notes:

1. Max Magni, Anne Martinez, and Rukhshana Motiwala, *Meet today's American Consumer*, McKinsey & Company (Jun. 2016), <https://www.mckinsey.com/industries/consumer-packaged-goods/our-insights/meet-todays-american-consumer>.
2. Max Magni, Anne Martinez, and Rukhshana Motiwala, *Meet today's American Consumer*, McKinsey & Company (Jun. 2016), <https://www.mckinsey.com/industries/consumer-packaged-goods/our-insights/meet-todays-american-consumer>.
3. "Baby boomer," *The Merriam-Webster.com Dictionary*, Merriam-Webster, Inc. (Dec 2019), <https://www.merriam-webster.com/dictionary/baby%20boomer>.
4. Michael Dimock, *Defining Generations: Where Millennials end and Generation Z begins*, Pew Research Center, (Jan. 2019), <https://www.pewresearch.org/fact-tank/2019/01/17/where-millennials-end-and-generation-z-begins/>.
5. Christina Adams, Isabella Torres Maluf, Miguel Ramirez, and Roberto Uchoa de Paula, *A winning growth formula for dairy*, McKinsey & Company (Mar. 2019), <https://www.mckinsey.com/industries/consumer-packaged-goods/our-insights/a-winning-growth-formula-for-dairy>.
6. Patricia Redsicker, *Digital Natives: How they are Changing the Content Marketing Game*, Content Marketing Institute (Apr. 2012), <https://contentmarketinginstitute.com/2012/04/how-digital-natives-are-changing-content/>.
7. *Sales of Local Foods Reaches \$12 Billion*, Packaged Facts (Jan. 2015), <https://www.packagedfacts.com/about/release.asp?id=3717>.
8. Jean Hamilton, *Stagnant, Saturated, or Ready to Surge? Strategic Marketing Investments for Vermont's Direct to Consumer Markets*, Northeast Organic Farming Association of Vermont (2017), https://nofavt.org/sites/default/files/files/resources/vt_direct_markets-stagnant_saturated_or_ready_to_surge.pdf.
9. *The Evolution of the Sustainability Mindset*, Nielsen Global Connect (Nov. 2018), <https://www.nielsen.com/us/en/insights/report/2018/the-education-of-the-sustainable-mindset/>.
10. *Unpacking the Sustainability Landscape*, Nielsen Global Connect (Nov. 2018), <https://www.nielsen.com/us/en/insights/report/2018/unpacking-the-sustainability-landscape/>.
11. Hartman reports that 46% of shoppers deliberately avoid GMOs. The market of Non-GMO Project Verified is estimated to be at \$26M.

Data Sources:

Changes in Dollar Sales for Sustainability Claims

Unpacking the Sustainability Landscape, Nielsen Global Connect (Nov. 2018), <https://www.nielsen.com/us/en/insights/report/2018/unpacking-the-sustainability-landscape/>.

Global Consumers' Willingness to Pay

Unpacking the Sustainability Landscape, Nielsen Global Connect (Nov. 2018), <https://www.nielsen.com/us/en/insights/report/2018/unpacking-the-sustainability-landscape/>.

Dairy

End Notes:

1. Interview with Diane Bothfeld, Director of Administrative Services, IV and Dairy Policy, VAAFM (Oct. 2019).
2. *Research Report: Specialty Cheese Market*, Prepared for VAAFM by Atlantic Corporation (Aug. 2019), <https://agriculture.vermont.gov/form/specialty-cheese-market-research-report>.
3. Serge Wiliam Wiltshire, *Grass-Based Dairy in Vermont: Benefits, Barriers, and Effective Public Policies*, University of Vermont Graduate College Dissertations and Theses (2015), <https://scholarworks.uvm.edu/cgi/viewcontent.cgi?article=1491&context=graddis>.
4. Mike Opperman, *How Consolidation Has Changed The Dairy Industry*, Farm Journal's Milk (Aug. 22, 2019), <https://www.milkbusiness.com/article/how-consolidation-has-changed-dairy-industry>.
5. Will Cushman, *Regional production, federal rules and global markets dictate dairy farmers' paychecks*, Wisconsin State Farmer (Apr. 11, 2019), <https://www.wisfarmer.com/story/news/2019/04/11/ever-wonder-what-factors-impact-milk-prices-and-farmers-paychecks/3443889002/>.

Data Sources:

Percent Change in Farms by County

Census of Agriculture, Vermont State, and County Data, United States Department of Agriculture, National Agricultural Statistics Service (See Tables 'County Data- Cattle and Calves- Inventory and Sales') 2012, 2017 (Multiple Years), <https://www.nass.usda.gov/AgCensus/index.php>.

Number of Farms, Conventional vs Organic

E-mail from Laura Ginsburg, Agricultural Development Division Chief, VT Agency of Agriculture, Food & Markets, to Sarah Danly, Farm to Plate Network Manager, Vermont Sustainable Jobs Fund (Dec. 5, 2019, 2:07 EST) (on file with author).

Distribution of Dairy Farm Sizes

Census of Agriculture, Vermont State, and County Data, United States Department of Agriculture, National Agricultural Statistics Service (See Tables 'County Data- Cattle and Calves- Inventory and Sales') 2012, 2017 (Multiple Years), <https://www.nass.usda.gov/AgCensus/index.php>.

Percent Change in Number of Dairy Farms by Size

Census of Agriculture, Vermont State, and County Data, United States Department of Agriculture, National Agricultural Statistics Service (See Tables 'County Data- Cattle and Calves- Inventory and Sales') 2012, 2017 (Multiple Years), <https://www.nass.usda.gov/AgCensus/index.php>.

Consumer Trends Text Box

Rick Barrett, Daniel Higgins, *Milk vs. almond, soy, oat milk, water and soda: How can dairy compete?*, Milwaukee Journal Sentinel (Sep. 5, 2019), <https://fresh-world-news.com/blog/milk-vs-almond-soy-oat-milk-water-and-soda-how-can-dairy-compet/>.

Dairy Data- Dairy Products: Per Capita Consumption United States (Annual), United States

Economic Research Service, <https://www.ers.usda.gov/data-products/dairy-data/> (last updated December 11, 2019).

Forage-Based Production Systems Text Box

Elizabeth Dunn, *With USDA Organic Dairy in Decline, Grass-Fed Sales are Booming*, Heated (May 1, 2019), <https://heated.medium.com/with-usda-organic-dairy-in-decline-grass-fed-sales-are-booming-6a1350ed63c4>.

Census of Agriculture, Vermont State, and County Data, United States Department of Agriculture, National Agricultural Statistics Service (See Tables 'Farms, Land in Farms, Value of Land and Buildings, and Land Use') 2007, 2017 (Multiple Years), <https://www.nass.usda.gov/AgCensus/index.php>.

Dairy Processors

E-mail from Laura Ginsburg, Agricultural Development Division Chief, VT Agency of Agriculture, Food & Markets, to Sarah Danly, Farm to Plate Network Manager, Vermont Sustainable Jobs Fund (Dec. 5, 2019, 2:07 EST) (on file with author).

Operating Costs and Milk Price

Milk Cost of Production by State, United States Department of Agriculture Economic Research Service: Milk Cost of Production Estimates <https://www.ers.usda.gov/data-products/milk-cost-of-production-estimates/> (last updated Dec. 11, 2019).

Direct Markets

End Notes:

1. *2017 Census of Agriculture, Volume 1, Geographic Area Series Part 45, Vermont, State and County Data*, United States Department of Agriculture, National Agricultural Statistics Service, (Table 71) 74 (Apr. 2019), https://www.nass.usda.gov/Publications/AgCensus/2017/Full_Report/Volume_1,_Chapter_1_State_Level/Vermont/vtv1.pdf.
2. Nigel Key, *Farms that Sell Directly to Consumers May Stay in Business Longer*, United States Department of Agriculture, Economic Research Service (Feb. 21, 2017), <http://blogs.usda.gov/2016/04/28/farms-that-sell-directly-to-consumers-may-stay-in-business-longer/>.
3. *Number of farms with direct-to-consumer sales increases, sales plateau*, United States Department of Agriculture, Economic Research Service (May 06, 2016), <https://www.ers.usda.gov/data-products/chart-gallery/gallery/chart-detail/?chartId=78934>.
4. *2017 Census of Agriculture, Volume 1, Geographic Area Series Part 45, Vermont, State and County Data*, United States Department of Agriculture, National Agricultural Statistics Service, (Table 2) 9-11 (Apr. 2019), https://www.nass.usda.gov/Publications/AgCensus/2017/Full_Report/Volume_1,_Chapter_1_State_Level/Vermont/vtv1.pdf.
5. Scott Sawyer, Ellen Kahler, Kit Perkins, Erica Campbell, *Farm to Plate Strategic Plan, Chapter 2: Getting to 2020: Goals and Indicators*, Vermont Sustainable Jobs Fund, (Jul. 2013), <https://www.vtfarmtoplate.com/getting-to-2020/1-total-local-consumption#indicator-population-indicator-value-of-local-food-by-destination-3>.

Data Sources:

Percent of Farms with Direct-to-Consumer Sales

2017 Census of Agriculture, Volume 1, Geographic Area Series Part 45, Vermont, State and County Data, United States Department of Agriculture, National Agricultural Statistics Service, (Table 71) 74 (Apr. 2019), https://www.nass.usda.gov/Publications/AgCensus/2017/Full_Report/Volume_1,_Chapter_1_State_Level/Vermont/vtv1.pdf.

Distribution

End Notes:

1. Sarah A. Low and Stephen Vogel, *Direct and Intermediated Marketing of Local Foods in the United States*, ERR-128, U.S. Department of Agriculture, Economic Research Service (November 2011), https://www.ers.usda.gov/webdocs/publications/44924/8276_err128_2_.pdf?v=0.

Data Sources:

Sales of the Top 50 Foodservice Wholesalers as Percent of Total

Phil R. Kaufman, Charles R. Handy, Edward W. McLaughlin, Kristen Park, & Geoffrey M. Green, *Understanding the Dynamics of Produce Markets: Consumption and Consolidation Grow*, United States Department of Agriculture Economic Research Service (Aug. 2000), https://www.ers.usda.gov/webdocs/publications/42294/32086_aib758_002.pdf?v=42487.

Technomic Ranks Performance of Top Broadline Foodservice Distributors, Technomic (June 29, 2017), <https://www.technomic.com/newsroom/technomic-ranks-performance-top-broadline-foodservice-distributors>.

Eggs

End Notes:

1. 6 V.S.A. § 351(b)

2. Flock sizes range from 5,000-50,000 birds and require an investment of \$100,000-\$300,000 for facilities and equipment. While organic eggs sell for \$5-\$7 per dozen at farmers markets, wholesale prices for bulk (not washed or graded) organic eggs range from \$1.50-\$1.80 per dozen. A flock of 30,000 organic hens could bring in a gross revenue of around \$1.2 million at wholesale prices, with approximately 80% of that revenue going towards purchased feed and the cost of pullets.

3. Shell eggs produced in U.S. are subject to food safety oversight from both Food and Drug Administration (FDA) and the U.S. Department of Agriculture (USDA). U.S. egg farmers follow FDA's Final Rule on Egg Safety, which requires shell egg farmers to implement measures to prevent Salmonella Enteritidis (SE) from contaminating eggs on the farm. FDA's Egg Rule went into effect in 2009 and requires complete compliance from egg farms with more than 3,000 birds or persons who store and/or transport eggs. The Egg Rule addresses on-farm practices proven to reduce the risk of SE entering the laying hen environment, including biosecurity, house cleaning and disinfection, fly and rodent control and SE testing. The Egg Rule requires eggs to be refrigerated on farm within 36 hours of lay. 21 C.F.R. § 118 (2009).

4. While participation in the plan is voluntary, there are aspects of it that are not when it comes to indemnity from outbreaks of Low Path or High Path AI. See *National Poultry Improvement Plan*, United States Department of Agriculture Animal and Plant Health Inspection Service (2010), <https://www.aphis.usda.gov/aphis/ourfocus/animalhealth/nvap/NVAP-Reference-Guide/Poultry/National-Poultry-Improvement-Plan>.

Data Sources:

Vermont Farms with Laying Hens

Census of Agriculture, Volume 1, Geographic Area Series Part 45, Vermont, State and County Data, United States Department of Agriculture, National Agricultural Statistics Service (Table 30) 27 (Apr. 2019), https://www.nass.usda.gov/Publications/AgCensus/2017/Full_Report/Volume_1,_Chapter_1_State_Level/Vermont/vtv1.pdf.

Total Value of Vermont Egg Sales

Pam Hird and Sherry Deane, *New England Agricultural Statistics 2018*, United States Department of Agriculture, Agriculture Statistics Service New England Field Office 67 (2018) [https://www.nass.usda.gov/Statistics_by_State/New_England_includes/Publications/Annual_Statistical_Bulletin/2018/2018%20New%20England%20Annual%20Bulletin.pdf](https://www.nass.usda.gov/Statistics_by_State/New_England_includes/Publications/Publications/Annual_Statistical_Bulletin/2018/2018%20New%20England%20Annual%20Bulletin.pdf).

Farmland Conservation

End Notes:

1. Interview with Vermont Land Trust (VLT), Vermont Housing and Conservation Board (VHCB), and the American Farmland Trust (AFT), (May 21, 2020).
2. At least 3,000 Vermont farms and many more acres of high-quality agricultural soils are not conserved, Interview with Vermont Land Trust (VLT), Vermont Housing and Conservation Board (VHCB), and the American Farmland Trust (AFT), (May 21, 2020).
3. Julia Freedgood, Mitch Hunter, Jennifer Dempsey, & Ann Sorensen, *Farms Under Threat: The State of the States*, American Farmland Trust (2020), <https://farmlandinfo.org/publications/farms-under-threat-the-state-of-the-states/>.

Data Sources:

Vermont Agricultural Land Currently Protected

Census of Agriculture, Volume 1, Geographic Area Series Part 45, Vermont, State and County Data, United States Department of Agriculture, National Agricultural Statistics Service (Table 47) (Apr. 2019), https://www.nass.usda.gov/Publications/AgCensus/2017/Full_Report/Volume_1,_Chapter_1_State_Level/Vermont/vtv1.pdf.

Vermont Agricultural Land Compromised by Development

Julia Freedgood, Mitch Hunter, Jennifer Dempsey, & Ann Sorensen, *Farms Under Threat: The State of the States*, American Farmland Trust (2020), <https://farmlandinfo.org/publications/farms-under-threat-the-state-of-the-states/>.

Jamie B. Pottorn and Laura N. Barley, *Farms Under Threat: A New England Perspective*, American Farmland Trust (2020), <https://farmlandinfo.org/publications/farms-under-threat-a-new-england-perspective/>.

Conservation of Farmland Data Box

Interview with Vermont Housing & Conservation Board and Becka Warren, Farm to Plate Plan 2.0 Project Coordinator (May 21, 2020).

Vermont Producers Age 65 and Older

Census of Agriculture, Volume 1, Geographic Area Series Part 45, Vermont, State and County Data, United States Department of Agriculture, National Agricultural Statistics Service (Table 52) 44 (Apr. 2019), https://www.nass.usda.gov/Publications/AgCensus/2017/Full_Report/Volume_1,_Chapter_1_State_Level/Vermont/vtv1.pdf.

Economic Class of Farms with New or Beginning Producer

Census of Agriculture, Volume 1, Geographic Area Series Part 45, Vermont, State and County Data, United States Department of Agriculture, National Agricultural Statistics Service (Table 69) 70 (Apr. 2019), https://www.nass.usda.gov/Publications/AgCensus/2017/Full_Report/Volume_1,_Chapter_1_State_Level/Vermont/vtv1.pdf.

Food Access and Farm Viability

Data Sources:

Percent of Income After Taxes Spent on Food

Quintiles of income before taxes: Annual expenditure means, shares, standard errors, and coefficients of variation, Bureau of Labor Statistics: Consumer Expenditure Surveys, Annual Calendar Year Tables (2018), <https://www.bls.gov/cex/2018/combined/quintile.pdf>.

Closing the Economic Gap Text Box

Vt. Legis. J. Fis. Off. *Vermont Basic Needs Budget and Livable Wage*, 2019.

2017 Census of Agriculture, Volume 1, Geographic Area Series Part 45, Vermont, State and County Data, United States Department of Agriculture, National Agricultural Statistics Service, (Table 5) 16 (Apr. 2019), https://www.nass.usda.gov/Publications/AgCensus/2017/Full_Report/Volume_1,_Chapter_1_State_Level/Vermont/vtv1.pdf.

Programs Text Box

E-mail from Emily Hammond, Food & Nutrition Assistant Administrator, VT Dept. for Children & Families, to Alissa Matthews, Agriculture Development Coordinator, Direct Markets, VT Agency of Agriculture, Food & Markets (Dec. 20, 2019, 10:06 EST) (on file with author).

E-mail from Jennifer Porter, Market Development Manager, Northeast Organic Farming Association of VT, to Alissa Matthews, Agriculture Development Coordinator, Direct Markets, VT Agency of Agriculture, Food & Markets (Dec. 19, 2019, 12:16 EST) (on file with author).

E-mail from Suzanne Kelley, SNAP-ED Program Manager, VT Department of Health, to Alissa Matthews, Agriculture Development Coordinator, Direct markets, VT Agency of Agriculture, Food & Markets (Dec. 30, 2019, 1:34 EST) (on file with author).

Percentages of Food Sold, Donated, and Lost

Theresa Snow & Elana Dean, *Food Loss in Vermont: Estimating Annual Vegetable & Berry Loss*, Salvation Farms (2016), https://salvationfarms.org/VT_Food_Loss_Study_2016.pdf.

Food Security

End Notes

1. *Global Strategic Framework for Food Security & Nutrition*, Committee on World Food Security, Food and Agriculture Organization of the United Nations (2017), <http://www.fao.org/cfs/home/>

[products/onlinegsf/en/](#).

2. John Cook, *Context of Hunger, Local Food, and Systems Approach to Change* (Sept. 26, 2018) (unpublished presentation) (on file with Vermont Sustainable Jobs Fund).
3. *Vermont Farming and Food-Related Manufacturing and Trade Employment and Sales*, Prepared for Vermont Farm to Plate by Nick Rockler, Kavet Rockler & Associates (2017), <https://www.vtfarmtoplate.com/resources>.
4. John Cook, *Context of Hunger, Local Food, and Systems Approach to Change* (Sept. 26, 2018) (unpublished presentation) (on file with Vermont Sustainable Jobs Fund).
5. Interview with Faye Mack, Education & Advocacy Director, Hunger Free Vermont, (April 2020).
6. Meredith T. Niles, Farryal Bertmann, Emily H. Morgan, Thomas Wentworth, and Erin Biehl, *Food Access and Security During Coronavirus: A Vermont Study*, University of Vermont College of Agriculture and Life Sciences Faculty Publications 21 (2020), <https://scholarworks.uvm.edu/cgi/viewcontent.cgi?article=1019&context=calsfac>.
7. *Household Food Insecurity Rates, 2017-2019*, Food Research & Action Center (2020), <https://frac.org/maps/food-security/food-security.html>.
8. *Food Insecurity in The United States*, Feeding America (2020), <https://map.feedingamerica.org/>.
9. Brian Donahue, Joanne Burke, Molly Anderson, Amanda Beal, Tom Kelly, Mark Lapping, Hannah Ramer, Russell Libby, and Linda Berlin, *A New England Food Vision: Healthy Food for All, Sustainable Farming and Fishing, Thriving Communities*, Food Solutions New England, University of New Hampshire, Sustainability Institute (2014), https://www.foodsolutionsne.org/sites/default/files/LowResNEFV_0.pdf.
10. John Cook, *Context of Hunger, Local Food, and Systems Approach to Change* (Sept. 26, 2018) (unpublished presentation) (on file with Vermont Sustainable Jobs Fund).
11. Email from Stephanie Ettinger de Cuba, Executive Director, Children's Healthwatch to Becka Warren, Farm to Plate Plan 2.0 Project Coordinator, Vermont Sustainable Jobs Fund (Mar. 30, 2020, 8:33 EST) (on file with author).

Data Sources

Percent of Vermont Population Experiencing Food Insecurity

Meredith T. Niles, Farryal Bertmann, Emily H. Morgan, Thomas Wentworth, and Erin Biehl, *Food Access and Security During Coronavirus: A Vermont Study*, University of Vermont College of Agriculture and Life Sciences Faculty Publications 21 (2020), <https://scholarworks.uvm.edu/cgi/viewcontent.cgi?article=1019&context=calsfac>.

New England Food Production and Imports

Pam Hird and Sherry Deane, *New England Agricultural Statistics 2018*, United States Department of Agriculture, Agriculture Statistics Service New England Field Office (2018), https://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. Reuss, Landon Marston, & Megan Konar, *Food flows between counties in the United States*, Environmental Research Letters 14(8) (2019), <https://iopscience.iop.org/article/10.2088/1748-9326/ab29ae/meta>.

Food-Grade Grains

Data Sources:

Number of Establishments

See *Occupational Employment Statistics*, United States Bureau of Labor Statistics, <https://www.bls.gov/oes/home.htm> (combining multiple NAICS codes); see also *U.S. Census Bureau Quickfacts: Vermont*, U.S. Census Bureau, (Jul. 2019), <https://www.census.gov/quickfacts/fact/table/VT/PST045219>.

Acres in Grain Production

Wheat and barley demand is derived from estimates provided by two regional mills, a handful of Vermont bakeries, and barley use from Vermont craft breweries. Wheat acreage assumes average winter wheat yield of 3,851 lbs/acre. Barley calculation assumes production fulfilling 25% of current barley demand of Vermont craft brewing industry.

Vermont Grain Market Study, New Venture Advisors (Dec. 2019) (unpublished market study) (on file with Vermont Farm to Plate).

See generally Heather Darby, *Winter Wheat Variety Trial*, University of Vermont Extension: Field Season Research Reports (averaging winter wheat acreage yields over a 10 year period) 2009-2019 (Multiple Years) <https://www.uvm.edu/extension/nwcrops/research>.

2017 Census of Agriculture, Volume 1, Geographic Area Series Part 45, Vermont, State and County Data, United States Department of Agriculture, National Agricultural Statistics Service, (Table 1) 7-8 (Apr. 2019), https://www.nass.usda.gov/Publications/AgCensus/2017/Full_Report/Volume_1_Chapter_1_State_Level/Vermont/vtv1.pdf.

Goats

End Notes:

1. Julia Kendrick, *Goat Meat Could Save Our Food System, But We're Too Afraid To Eat It*, Huffpost (Oct. 15, 2018), https://www.huffpost.com/entry/goat-meat_n_5bb64c71e4b028e1fe3bcfa2.

Data Sources:

Number of Farms

Census of Agriculture, Vermont State, and County Data, United States Department of Agriculture, National Agricultural Statistics Service (See Tables 'Summary by Size of Farm') 2007, 2017 (Multiple Years), <https://www.nass.usda.gov/AgCensus/index.php>.

Number of Goats

Census of Agriculture, Vermont State, and County Data, United States Department of Agriculture, National Agricultural Statistics Service (See Tables 'Goats, kids, and mohair - Inventory, Mohair Production and Sales') 2007, 2017 (Multiple Years), <https://www.nass.usda.gov/AgCensus/index.php>.

Grapes

End Notes:

1. *New England Berries, Tree Fruit and Grapes, 2018 Crop*, United States Department of Agriculture, National Agricultural Statistics Service (See *Grapes: Acreage, Yield, Production, and Value, 2015-2018*) 4 (2019), https://www.nass.usda.gov/Statistics_by_State/New_England_includes/Publications/Current_News_Release/2019/NE%20fruit%20EOS.pdf. *please note data is assumed to under count vineyards by approximately 10%.
2. T.L. Bradshaw, A.L. Hazelrigg, and L.P Berkett, *Characteristics of the Cold-Climate Winegrape Industry in Vermont, USA*, Acta Hort., 469-476 (2018), https://www.actahort.org/books/1205/1205_57.htm.
3. Todd Trazaskos, *Wines of Vermont: A History of Pioneer Fermentation*, The History Press (2015).
4. Brigid Tuck and William Gartner, *Wineries of the North: A Status Report*, University of Minnesota Extension: Extension Center for Community Viability (2013, corrected 2016), https://www.apec.umn.edu/sites/apec.umn.edu/files/winery_final_report-1.pdf.

Grass-Fed Beef

End Notes:

1. *Back to Grass: The Market Potential for U.S. Grassfed Beef*, Stone Barns Center for Food & Agriculture (Apr. 2017), https://www.stonebarnscenter.org/wp-content/uploads/2017/10/Grassfed_Full_v2.pdf.
2. See generally Savory Institute, <https://www.savory.global/> (last visited Dec. 20, 2020); See also, *Grazing As A Vermont Climate Solution*, Soil4Climate, <https://www.soil4climate.org/resources.html> (last visited Jan. 3, 2020).
3. Sam Smith, Maggie Donin, Kevin Channell, Annalise Carington, Sarah Flack, *Vermont Grass-Based Beef Profitability: Lessons and Budgets*, Intervale Center and Vermont Farm to Plate (2018), https://www.vtfarmtoplate.com/assets/resource/files/Grass%20Fed%20Beef%20Profitability%20Guide_2018%20Final_web_2.pdf.

Data Sources:

Acres Grazed

Census of Agriculture, Vermont State, and County Data, United States Department of Agriculture, National Agricultural Statistics Service (See Tables 'Farms, Land in Farms, Value of Land and Buildings, and Land Use') 2007, 2017 (Multiple Years), <https://www.nass.usda.gov/AgCensus/index.php>.

Net Cash Farm Income

2017 Census of Agriculture, Volume 1, Geographic Area Series Part 45, Vermont, State and County Data, United States Department of Agriculture, National Agricultural Statistics Service (Tables 48) 41 (Apr. 2019), https://www.nass.usda.gov/Publications/AgCensus/2017/Full_Report/Volume_1,_Chapter_1_State_Level/Vermont/vt1.pdf.

Grocers

End Notes:

1. Scott Sawyer, Ellen Kahler, Kit Perkins, Erica Campbell, *Farm to Plate Strategic Plan, Chapter 2: Getting to 2020: Goals and Indicators*, Vermont Sustainable Jobs Fund, (Jul. 2013), <https://www.vtsj.org/>

vtfarmtoplate.com/getting-to-2020/1-total-local-consumption#indicator-population-indicator-value-of-local-food-by-destination-3.

2. According to estimates conducted by Farm to Plate in 2014. See Sona Desai, Erin Roche, Jane Kolodinsky, Annie Harlow and Clem Nilan, *Exploring the Next Frontier: Increasing Vermont's Independent Retailers*, Farm to Plate: Aggregation + Distribution Working Group (2014), https://www.vtfarmtoplate.com/assets/resource/files/Exploring%20the%20Next%20Frontier%20Increasing%20Local%20Foods%20Sales_NOV-2015.pdf.

3. *2017 Census of Agriculture, Volume 1, Geographic Area Series Part 45, Vermont, State and County Data*, United States Department of Agriculture, National Agricultural Statistics Service, (Table 71) 74 (Apr. 2019), https://www.nass.usda.gov/Publications/AgCensus/2017/Full_Report/Volume_1,_Chapter_1_State_Level/Vermont/vtv1.pdf.

4. Cathey Seigner, *Shoppers want local food, but grocers aren't providing the goods*, Grocery Dive (Jul. 26, 2018), <https://www.grocerydive.com/news/grocery--shoppers-want-local-food-but-grocers-arent-providing-the-goods/533822/>.

5. "Based on a database compiled through the work of Vermont Farm to Plate's Independent Grocers Task Force, Farm to Plate estimates over 780 Vermont food producers are selling beyond the farmers' market and using multiple distribution options for Regional and national sales."

Data Sources:

Marketing Share of Each Food Dollar

Food Dollar Series, United States Department of Agriculture Economic Research Service (Mar. 2019), <https://www.ers.usda.gov/data-products/food-dollar-series/>.

Health Care

End Notes:

1. Shoshanah Inwood, Alana Knudson, Florence A. Becot, Bonnie Braun, Stephan J. Goetz, Jane M. Kolodinsky, Scott Loveridge, Kaitlyn Morris, Jason Parker, Bob Parsons, Rachel Welborn, and Don E. Albrecht, *Health Insurance and National Farm Policy*, Choices Magazine (2018), https://www.choicesmagazine.org/UserFiles/file/cmsarticle_614.pdf.

2. *Id.*

3. *Id.*

4. Alana Knudson, Bill Lottero, Carol Pryor, Jeffrey Prottas, Mark Rukavina, *2007 Health Insurance Survey of Farm and Ranch Operators*, IssueLab (2008), <https://www.issuelab.org/resource/2007-health-insurance-survey-of-farm-and-ranch-operators.html>.

5. Florence Becot, Shoshanah Inwood, Katlyn Morris, and Lucy McDermott, *Case Study Profile Series: Vermont, Health Insurance, Rural Economic Development and Agriculture* (2016), https://6dd9521a-b8dd-42bc-adb7-b98c8020fac7.filesusr.com/ugd/85136a_e50054c82363432aaa20f147642b0cdd.pdf.

6. *Long Work Hours, Extended or Irregular Shifts, and Worker Fatigue*, United States Department of Labor, Occupational Safety and Health Administration, <https://www.osha.gov/worker-fatigue> (last visited Mar. 16, 2021).

7. Florence Becot, Shoshanah Inwood, Katlyn Morris, and Lucy McDermott, *Case Study*

Profile Series: Vermont, Health Insurance, Rural Economic Development and Agriculture (2016), <https://6dd9521a-b8dd-42bc-adb7-b98c8020fac7.filesusr.com/ugd/85136ae50054c82363432aaa20f147642b0cdd.pdf>.

8. Florence Becot, *Linking farm households' social needs, social policy, and farm persistence to better understand and support family farms in the 21st century* (May 2020) (unpublished Ph.D. thesis, The Ohio State University) (on file with author).

9. *Health Insurance & Farm Risk Management: Farm Households & Farm Employees, 2017 National Farmer and Rancher Survey Findings*, Health Insurance, Rural Economic Development and Agriculture (2019), <https://6dd9521a-b8dd-42bc-adb7-b98c8020fac7.filesusr.com/ugd/85136ab77147a9be2a4d81a9a77dfa772b05f5.pdf>.

10. *Farm households' health insurance coverage and costs: 2017 National Farmer and Rancher Survey Findings*, Health Insurance, Rural Economic Development and Agriculture (2019), <https://6dd9521a-b8dd-42bc-adb7-b98c8020fac7.filesusr.com/ugd/85136a532dca917bbc41e59492977f511ea499.pdf>.

11. Ashok K. Mishra, Hisham S. El-Osta, Mary C. Ahearn, *Health Care expenditures of self-employed farm households in the United States*, *Agricultural Economics* 43(1) 75-88 (2012), <https://doi.org/10.1111/j.1574-0862.2011.00566.x>; Mary Clare Ahearn, James M. Williamson, and Nyasha Black, *Implications of Health Care Reform for Farm Businesses and Families*, *Applied Economics Perspectives and Policy* 37(2) 260-286 (2014), <https://academic.oup.com/aep/article/37/2/260/8264>.

12. Of the approximately 1,500 Latinx employees on Vermont farms, 99% are ineligible for health insurance. The 450-500 farmworkers in Vermont on H2A visas are not eligible for Medicaid and face numerous barriers applying for subsidized insurance on Vermont Health Connect (VHC). See, Christine Eibner, Sarah A. Nowak, Jodi L. Liu, & Chapin White, *The Economic Incidence of Health Care Spending in Vermont*, Vermont Joint Fiscal Office (2019), https://www.rand.org/content/dam/rand/pubs/research_reports/RR900/RR901/RAND_RR901.pdf.

13. Interview with Vermont Office of the Healthcare Advocate, (Mar. 2020).

14. *Farm households' health insurance coverage and costs: 2017 National Farmer and Rancher Survey Findings*, Health Insurance, Rural Economic Development and Agriculture (2019), <https://6dd9521a-b8dd-42bc-adb7-b98c8020fac7.filesusr.com/ugd/85136a532dca917bbc41e59492977f511ea499.pdf>.

15. Shoshannah Inwood, Emily Portman, Bonnie Braun, Scott Loveridge, Sarah Heiss, and Alana Knudson, *The Farming Population and Health Insurance: Educational Needs and Approaches of Extension Professionals*, *Journal of Extension*, Vol 55, No.5 (Oct (2017), <https://www.joe.org/joe/2017october/a3.php>.

16. Shoshannah Inwood, Alana Knudson, Florence A. Becot, Bonnie Braun, Stephan J. Goetz, Jane M. Kolodinsky, Scott Loveridge, Kaitlyn Morris, Jason Parker, Bob Parsons, Rachel Welborn, and Don E. Albrecht, *Health Insurance and National Farm Policy*, *Choices Magazine* (2018), https://www.choicesmagazine.org/UserFiles/file/cmsarticle_614.pdf.

17. Shoshannah Inwood, Emily Portman, Bonnie Braun, Scott Loveridge, Sarah Heiss, and Alana Knudson, *The Farming Population and Health Insurance: Educational Needs and Approaches of Extension Professionals*, *Journal of Extension*, Vol 55, No.5 (Oct (2017), <https://www.joe.org/joe/2017october/a3.php>.

18. *Health Insurance & Farm Risk Management: Farm Households & Farm Employees, 2017 National Farmer and Rancher Survey Findings*, Health Insurance, Rural Economic Development

and Agriculture (2019), https://6dd9521a-b8dd-42bc-adb7-b98c8020fac7.filesusr.com/ugd/85136a_b77147a9be2a4d81a9a77dfa772b05f5.pdf.

19. *Id.*

20. Shoshanah Inwood, Alana Knudson, Florence A. Becot, Bonnie Braun, Stephan J. Goetz, Jane M. Kolodinsky, Scott Loveridge, Kaitlyn Morris, Jason Parker, Bob Parsons, Rachel Welborn, and Don E. Albrecht, *Health Insurance and National Farm Policy*, Choices Magazine (2018), https://www.choicesmagazine.org/UserFiles/file/cmsarticle_614.pdf.

21. Florence Becot, Shoshanah Inwood, Katlyn Morris, and Lucy McDermott, *Case Study Profile Series: Vermont, Health Insurance, Rural Economic Development and Agriculture* (2016), https://6dd9521a-b8dd-42bc-adb7-b98c8020fac7.filesusr.com/ugd/85136a_e50054c82363432aaa20f147642b0cdd.pdf.

22. Andrea Rissing, Shoshanah Inwood, & Emily Stengal, *The Invisible Labor and Multidimensional Impacts of Negotiating Childcare on Farms, Agriculture and Human Values* (2020), <https://link.springer.com/article/10.1007/s10460-020-10162-1>.

23. Shoshanah Inwood, Alana Knudson, Florence A. Becot, Bonnie Braun, Stephan J. Goetz, Jane M. Kolodinsky, Scott Loveridge, Kaitlyn Morris, Jason Parker, Bob Parsons, Rachel Welborn, and Don E. Albrecht, *Health Insurance and National Farm Policy*, Choices Magazine (2018), https://www.choicesmagazine.org/UserFiles/file/cmsarticle_614.pdf.

24. Karen Davis, Kristof Stremikis, David Squires, and Cathy Schoen, *Mirror, Mirror on the Wall, 2014 Update: How the U.S. Health Care System Compares Internationally*, The Commonwealth Fund (2014), <https://www.commonwealthfund.org/publications/fund-reports/2014/jun/mirror-mirror-wall-2014-update-how-us-health-care-system>.

25. Shoshanah Inwood, Emily Portman, Bonnie Braun, Scott Loveridge, Sarah Heiss, and Alana Knudson, *The Farming Population and Health Insurance: Educational Needs and Approaches of Extension Professionals*, Journal of Extension, Vol 55, No.5 (Oct (2017), <https://www.joe.org/joe/2017october/a3.php>.

Data Sources:

Farmers' Sources of Health Insurance

Shoshanah Inwood, Alana Knudson, Florence A. Becot, Bonnie Braun, Stephan J. Goetz, Jane M. Kolodinsky, Scott Loveridge, Kaitlyn Morris, Jason Parker, Bob Parsons, Rachel Welborn, and Don E. Albrecht, *Health Insurance and National Farm Policy*, Choices Magazine (2018), https://www.choicesmagazine.org/UserFiles/file/cmsarticle_614.pdf.

Hemp

End Notes:

1. L.D. 630 (129th Legis. 2019).

Data Sources:

Registered Growers by Acreage Category

Interview with Stephanie Smith, Chief Policy Enforcement Officer, Vermont Agency of Agriculture, Food & Markets (Dec. 19, 2019).

Registered Growers and Processors by End-Use

Interview with Stephanie Smith, Chief Policy Enforcement Officer, Vermont Agency of Agriculture, Food & Markets (Dec. 19, 2019).

Labor and Workforce

End Notes:

1. Holly Tippett & Wendy Meunier, *Charting a Path: Food System Workforce Needs Assessment*, Farm to Plate Network: Education and Workforce Development Working Group (2013), https://www.vtfarmtoplate.com/assets/resource/files/Charting%20a%20Path_03_18_13.pdf.
2. Interview with Alyson Eastman, Deputy Secretary, Vermont Agency of Agriculture, Food & Markets (Aug. 27, 2020).

Data Points:

Labor Shortages in the Vermont Food System

Holly Tippett & Wendy Meunier, *Charting a Path: Food System Workforce Needs Assessment*, Farm to Plate Network: Education and Workforce Development Working Group (2013), https://www.vtfarmtoplate.com/assets/resource/files/Charting%20a%20Path_03_18_13.pdf.

Employment at Vermont Food System Establishments

Getting to 2020 Chapter 2: Goals and Indicators, Goal 17, Vermont Farm to Plate (2019), <https://www.vtfarmtoplate.com/getting-to-2020/17-jobs-and-establishments>.

Median Hourly Wages for Select Food System Careers

May 2019 State Occupational Employment and Wage Estimates: Vermont, United States Bureau of Labor Statistics (2019), https://www.bls.gov/oes/current/oes_vt.htm

Vermont Basic Needs Budgets and Livable Wage, Vermont Legislative Joint Fiscal Office (2021), <https://ljfo.vermont.gov/assets/Subjects/Basic-Needs-Budgets/1defd5222f/2021-Basic-Needs-Budget-and-Livable-Wage-report-FINAL-1-16-2021.pdf>.

Pathways for Employees Data Box

Vermont Tech: Our Graduates 2019, Vermont Technical College (2020), <https://www.vtc.edu/our-graduates/#:~:text=%2C%20%26%20Animal%20Science.-,The%20VTC%20rate%20is%2098%20percent,national%20rate%20is%2087%20percent>.

Communication from Sarah Kleinman and Liz Kenton, UVM Extension, to Dana Hudson, Shelburne Farms, (September 2019) (on file with Vermont Sustainable Jobs Fund).

Land Use Planning

End Notes:

1. *The Municipal Plan: State Planning Manual – Module 1*, Vermont Agency of Commerce & Community Development Department of Housing & Community Development (2017), <https://accd.vermont.gov/sites/accdnew/files/documents/CD/CPR/DHCD-Planning-Manual-Module1.pdf>.

Data Points:

Acres of Vermont Farmland Compromised by Development

Jamie B. Pottorn and Laura N. Barley, *Farms Under Threat: A New England Perspective*, American Farmland Trust (2020), <https://farmlandinfo.org/publications/farms-under-threat-a-new-england-perspective/>.

Vermont Food Manufacturing, Storage, and Wholesale Distribution Establishments

Getting to 2020 Chapter 2: Goals and Indicators, Goal 17, Vermont Farm to Plate (2019), <https://www.vtfarmtoplate.com/getting-to-2020/17-jobs-and-establishments>.

Lightly Processed Vegetables

End Notes:

1. Theresa Snow & Elana Dean, *Fresh Produce Needs Across Vermont: Results from the Fresh Produce Survey*, Salvation Farms (Oct. 2016), http://16s0tj3s5ozn3bf14lj8qra4.wpengine.netdna-cdn.com/wp-content/uploads/2016/12/Fresh_Produce_Needs_Across_Vermont_Report_2016.pdf.

Data Sources:

Current Institutional Purchases and Projected Demand

E-mail from Annie Rowell, Vermont First Coordinator, Sodexo to Kyle Harris, Agriculture Development Specialist III, VT Agency of Agriculture, Food & Markets (Jan. 7, 2020, 11:25 EST) (on file with author).

Processing Capacity and Projections

E-mail from Annie Rowell, Vermont First Coordinator, Sodexo to Kyle Harris, Agriculture Development Specialist III, VT Agency of Agriculture, Food & Markets (Jan. 7, 2020, 11:25 EST) (on file with author).

Major Metropolitan Markets

End Notes:

1. *Census of Agriculture, Volume 1, Geographic Area Series Part 45, Vermont, State and County Data*, United States Department of Agriculture, National Agricultural Statistics Service (Apr. 2019), https://www.nass.usda.gov/Publications/AgCensus/2017/Full_Report/Volume_1_Chapter_1_State_Level/Vermont/vtv1.pdf.

2. *Vermont Farming and Food-Related Manufacturing and Trade Employment and Sales*, Prepared for Vermont Farm to Plate by Nick Rockler, Kavet Rockler & Associates (2017), <https://www.vtfarmtoplate.com/resources>.

3. *Grocery Stores Sale in the U.S.*, United States Census Bureau (2018), <https://www.census.gov/library/visualizations/interactive/grocery-store-sales.html>.

4. "Grocery stores (defined by North American Industry Classification System (NAICS) code 445110) include establishments generally known as supermarkets and smaller grocery stores primarily engaged in retailing a general line of food, such as canned and frozen foods; fresh fruits and vegetables; and fresh and prepared meats, fish, and poultry. Included in this industry are delicatessen-type establishments primarily engaged in retailing a general line of food. Convenience

stores, with or without gasoline sales, are excluded. Large general merchandise stores that also retail food, such as supercenters and warehouse club stores, are excluded.”

5. *Food Environment Atlas Data*, United States Department of Agriculture Economic Research Service (2020), <https://www.ers.usda.gov/data-products/food-environment-atlas/data-access-and-documentation-downloads/>.

Data Sources:

This map was generated by Chaveli Miles, VAAFM, in January 2020 in support of this brief. This full-sized map, including listing of data sources, is available at <https://www.vtfarmtoplate.com/assets/resource/files/Metropolitan%20Markets%20Map.pdf>.

Maple

End Notes:

1. Stephen N. Matthews & Louis R. Iverson, *Managing for delicious ecosystem service under climate change: can United States sugar maple (Acer saccharum) syrup production be maintained in a warming climate?*, International Journal of Biodiversity Science, Ecosystem Services & Management (2017), https://www.fs.fed.us/nrs/pubs/jrnl/2017/nrs_2017_matthews_001.pdf.

2. *New England Agricultural Statistics*, United States Department of Agriculture National Agricultural Statistics Service New England Field Office (2009, 2012, 2017) (Multiple Years) (See Tables ‘Maple Syrup Taps, Yield, Price, and Production’), https://www.nass.usda.gov/Statistics_by_State/New_England/index.php.

Data Sources:

Production and Crop Value

New England Agricultural Statistics, United States Department of Agriculture National Agricultural Statistics Service New England Field Office (2009, 2012, 2017) (Multiple Years) (See Tables ‘Maple Syrup Taps, Yield, Price, and Production’), https://www.nass.usda.gov/Statistics_by_State/New_England/index.php.

Forecast Size of Market

Maple Syrup Markets & Growth Opportunities, Atlantic Corporation- Prepared For: Vermont Agency of Agriculture, Food & Markets (Sep. 2019), <https://agriculture.vermont.gov/form/maple-syrup-markets-growth-opportunities>.

Marketing

End Notes:

1. Philip Kotler and Kevin Lane Keller, *Marketing Management (Millennium Edition)*, 8-9 Custom Edition for University of Phoenix, Prentice Hall (2000).

2. *Local Food Wholesale Market Assessment: Local Food Wholesaling from Supplier to Customer*, Prepared for NOFA-VT & Farm to Plate by Rose Wilson Consulting LLC (2019), <https://nofavt.org/sites/default/files/files/resources/localfoodwholesalemarketassessment2019.pdf>.

3. Jay Conrad Levinson, *Guerilla Marketing: Easy and Inexpensive Strategies for Making Big Profits from Your Small Business*, Houghton Mifflin Harcourt Publishing Company (1984).

Data Sources:

Percent of Farms with Sales Direct to Retail Markets, Institutions, and Food Hubs

2017 Census of Agriculture, Volume 1, Geographic Area Series Part 45, Vermont, State and County Data, United States Department of Agriculture, National Agricultural Statistics Service, (Table 71) 74 (Apr. 2019), https://www.nass.usda.gov/Publications/AgCensus/2017/Full_Report/Volume_1_Chapter_1_State_Level/Vermont/vtv1.pdf.

Meat Slaughter, Processing, and Products

End Notes:

1. *Census of Agriculture, Volume 1, Geographic Area Series Part 45, Vermont, State and County Data*, United States Department of Agriculture, National Agricultural Statistics Service (Table 1) 7-8 (Apr. 2019), https://www.nass.usda.gov/Publications/AgCensus/2017/Full_Report/Volume_1_Chapter_1_State_Level/Vermont/vtv1.pdf.

2. For 2019, 12 farms registered, only 4 provided records showing use of exemptions for sales. Interview with Julie Boisvert, Meat Program Section Chief, Vermont Agency of Agriculture, Food & Markets (Mar. 2020).

Data Sources:

Employment at Vermont Slaughter and Processing Facilities

Quarterly Census of Employment and Wages: All Employees in Private NAICS 3116 Animal slaughtering and processing for All establishment sizes in Vermont, U.S. Bureau of Labor Statistics, (data extracted on Dec. 18, 2020) <https://data.bls.gov/PDQWeb/en>.

Number of Inspected Slaughter and Processing Facilities in Vermont

Interview with Julie Boisvert, Meat Program Section Chief, Vermont Agency of Agriculture, Food & Markets (Mar. 2020).

Total Vermont Inventory of Select Species of Meat Livestock

Census of Agriculture, Volume 1, Geographic Area Series Part 45, Vermont, State and County Data, United States Department of Agriculture, National Agricultural Statistics Service (Table 1) 7-8 (Apr. 2019), https://www.nass.usda.gov/Publications/AgCensus/2017/Full_Report/Volume_1_Chapter_1_State_Level/Vermont/vtv1.pdf.

Payment for Ecosystem Services

End Notes:

1. Kremen C, *Managing ecosystem services: what do we need to know about their ecology?* Ecological Letters, 8, 468-479 (2005).

2. *Soil Conservation Practice and Payment for Ecosystem Services Working Group Report*. Prepared for the Vermont General Assembly by the Vermont Agency of Agriculture, Food & Markets (Jan. 2020), <https://legislature.vermont.gov/assets/Legislative-Reports/Soil-Conservation-Practice-and-PES-Working-Group-Report-01152020.pdf>.

3. Alissa White and Joshua Faulkner, *Enhancing participation in payment for ecosystem services program: understanding farmer perspectives*. Research update for Vermont Policy makers.

University of Vermont Extension (2019), https://www.uvm.edu/sites/default/files/The-Center-for-Sustainable-Agriculture/farmer_perspectives_on_PES_AW_JF_working_version.pdf.

Data Sources:

Carbon Sequestration of Agricultural BMPs

Walke, P., Costello, P., Schirling, M., Tierney, J., Boomhower, M., Audet, M., McGinnis, L., Fusco, J., Stevens, B., Carlson, K., Sprayregan, M., Miller, J., Cota, M., Gamache, L., Knudsen, A., Laberge, B., Fleishman, B., Donahue, T., Hart, S., Bushnell, H., and Turner, R. *Final Vermont Climate Action Commission Report to the Governor on Executive order no.12-17*. Vermont Climate Action Committee (2018).

Median Cost to State of Water Quality Project Types

Courtney Hammond Wagner, Jesse Gourevitch, Katie Horner, Eva Kinnebrew, Becky Maden, Eric Recchia, Alissa White, Adrian Wiegman, Taylor Ricketts, and Eric Roy, *Payment for Ecosystem Services for Vermont*, University of Vermont Gund Institute for Environment (2019).

Poultry

End Notes:

1. *Census of Agriculture, Volume 1, Geographic Area Series Part 45, Vermont, State and County Data*, United States Department of Agriculture, National Agricultural Statistics Service (Table 71) 72-95 (Apr. 2019), https://www.nass.usda.gov/Publications/AgCensus/2017/Full_Report/Volume_1,_Chapter_1_State_Level/Vermont/vtv1.pdf.
2. Gabrielle Pickard-Whitehead, *75% of Consumers Plan to Support Small Businesses More Often*, Small Business Trends (May 26, 2020), <https://smallbiztrends.com/2020/05/75-of-consumers-plan-to-support-small-businesses-more-often.html>.
3. Keith Nunes, *Consumers Crave Transparency*, Meat + Poultry (Sept. 19, 2018), <https://www.meatpoultry.com/articles/20176-consumers-crave-transparency>.
4. *U.S. Meat & Poultry Market Will Approach \$100 Billion in 2021*, Packaged Facts (May 02, 2017), <https://www.prnewswire.com/news-releases/us-meat--poultry-market-will-approach-100-billion-in-2021-300449687.html>.

Data Sources:

Number Sold of Vermont Livestock Raised for Meat

Census of Agriculture, Volume 1, Geographic Area Series Part 45, Vermont, State and County Data, United States Department of Agriculture, National Agricultural Statistics Service (Table 71) 72-95 (Apr. 2019), https://www.nass.usda.gov/Publications/AgCensus/2017/Full_Report/Volume_1,_Chapter_1_State_Level/Vermont/vtv1.pdf.

Number of Vermont Farms with Sales of Meat Poultry

Census of Agriculture, Volume 1, Geographic Area Series Part 45, Vermont, State and County Data, United States Department of Agriculture, National Agricultural Statistics Service (Table 75) 72-95 (Apr. 2019), https://www.nass.usda.gov/Publications/AgCensus/2017/Full_Report/Volume_1,_Chapter_1_State_Level/Vermont/vtv1.pdf.

Produce

End Notes:

1. *Farm Stands, CSAs & Farmers Markets*, Vermont Agency of Agriculture, Food and Markets (2019), <https://agriculture.vermont.gov/farm-stands-csas-farmers-markets>.
2. *Find Organic & Local Food: CSAs*, Northeast Organic Farmers Association of Vermont (2019), <https://nofavt.org/find-organic-local-food/csas>.
3. *Vermont U-Pick Farms*, Pick Your Own (Dec. 2019), <https://www.pickyourown.org/VT.htm>.

Data Sources:

Number of Produce Farms

Census of Agriculture, Vermont State, and County Data, United States Department of Agriculture, National Agricultural Statistics Service (See Tables 'Vegetables, Potatoes, and Melons Harvested for Sale' 'Berries by Acres' and 'Floriculture and Bedding Crops, Nursery Crops, Propagative Materials Sold, Sod, Food Crops Grown Under Glass or Other Protection, and Mushroom Crops') 2007, 2017 (Multiple Years), <https://www.nass.usda.gov/AgCensus/index.php>.

Farm Gate Sales

Census of Agriculture, Vermont State, and County Data, United States Department of Agriculture, National Agricultural Statistics Service (See Tables 'Vegetables, Potatoes, and Melons Harvested for Sale' 'Berries by Acres' and 'Floriculture and Bedding Crops, Nursery Crops, Propagative Materials Sold, Sod, Food Crops Grown Under Glass or Other Protection, and Mushroom Crops') 2007, 2017 (Multiple Years), <https://www.nass.usda.gov/AgCensus/index.php>.

Racial Equity in the Vermont Food System

End Notes:

1. Xusana Davis, Brittney L. Wilson, Cleoplace Kyendamina Mukeba, Wichie Artu, Maria Mercedes Avila, Chris Brickell, Tabitha Pohl-Moore, Steffen Gillom, Carol McGranaghan, James Duff Lyall, Maroni Minter, & Bor Yang, *Report of the Vermont Racial Equity Task Force*, Vermont Racial Equity Task Force, 23 (Sept. 2020), https://racialequity.vermont.gov/sites/reap/files/doc_library/RETF%20Report%201%20FINAL.pdf.
2. Teresa M. Mares, *Life on the other Border: Farmworkers and Food Justice in Vermont*, University of California Press (2019).
3. Xusana Davis, Brittney L. Wilson, Cleoplace Kyendamina Mukeba, Wichie Artu, Maria Mercedes Avila, Chris Brickell, Tabitha Pohl-Moore, Steffen Gillom, Carol McGranaghan, James Duff Lyall, Maroni Minter, & Bor Yang, *Report of the Vermont Racial Equity Task Force*, Vermont Racial Equity Task Force, 23 (Sept. 2020), https://racialequity.vermont.gov/sites/reap/files/doc_library/RETF%20Report%201%20FINAL.pdf.
4. See, *Food Sovereignty*, U.S. Food Sovereignty Alliance, (2020), <http://usfoodsovereigntyalliance.org/what-is-food-sovereignty/>.
5. *Census of Agriculture, Volume 1, Geographic Area Series Part 45, Vermont, State and County Data*, United States Department of Agriculture, National Agricultural Statistics Service (Apr. 2019), https://www.nass.usda.gov/Publications/AgCensus/2017/Full_Report/Volume_1_

[Chapter 1 State Level/Vermont/vtv1.pdf](#).

6. Jamie B. Pottern & Laura N. Barley, *Special Report Farms Under Threat A New England Perspective: New Findings to Guide Our Work and Inspire Action*, American Farmland Trust (Oct. 2020), https://s30428.pcdn.co/wp-content/uploads/sites/2/2020/10/AFT_NE_FUT-10_14_20_rev.pdf.

7. *Vermont State Health Assessment 2018*, Vermont Department of Health (2018), <https://www.healthvermont.gov/sites/default/files/documents/pdf/VT%20State%20Health%20Assessment%202018%20Full%20Report.pdf>.

8. Teresa M. Mares, *Life on the other Border: Farmworkers and Food Justice in Vermont*, University of California Press (2019).

9. *Id.*

10. Xusana Davis, Brittney L. Wilson, Cleoplace Kyendamina Mukeba, Wichie Artu, Maria Mercedes Avila, Chris Brickell, Tabitha Pohl-Moore, Steffen Gillom, Carol McGranaghan, James Duff Lyall, Maroni Minter, & Bor Yang, *Report of the Vermont Racial Equity Task Force*, Vermont Racial Equity Task Force, 23 (Sept. 2020), https://racialequity.vermont.gov/sites/reap/files/doc_library/RETF%20Report%201%20FINAL.pdf.

Data Sources:

Characteristics of Vermont Producers and Farms by Ethnicity and Race

Census of Agriculture, Volume 1, Geographic Area Series Part 45, Vermont, State and County Data, United States Department of Agriculture, National Agricultural Statistics Service (Apr. 2019), https://www.nass.usda.gov/Publications/AgCensus/2017/Full_Report/Volume_1_Chapter_1_State_Level/Vermont/vtv1.pdf.

National Population Growth

William H. Frey, *The Nation is Diversifying Even Faster than Predicted, According to New Census Data*, Brookings (Jul. 2020), <https://www.brookings.edu/research/new-census-data-shows-the-nation-is-diversifying-even-faster-than-predicted/>.

State of Vermont Applicants and Hires

Xusana Davis, Brittney L. Wilson, Cleoplace Kyendamina Mukeba, Wichie Artu, Maria Mercedes Avila, Chris Brickell, Tabitha Pohl-Moore, Steffen Gillom, Carol McGranaghan, James Duff Lyall, Maroni Minter, & Bor Yang, *Report of the Vermont Racial Equity Task Force*, Vermont Racial Equity Task Force, 23 (Sept. 2020), https://racialequity.vermont.gov/sites/reap/files/doc_library/RETF%20Report%201%20FINAL.pdf.

Restaurants

Data Sources:

Consumer Expenditures Away from Home:

Table 1502, Composition of consumer Unit: Annual expenditure means, shares, standard errors, and coefficients of variation, Consumer Expenditure Survey 2019, U.S. Bureau of Labor Statistics (2019), <https://www.bls.gov/cex/2019/combined/cucomp.pdf>.

Sales at Vermont's Eating and Drinking Locations

Vermont Restaurant Industry at a Glance, National Restaurant Association (2019), <https://www.restaurant.org/downloads/pdfs/state-statistics/vermont.pdf>.

Jobs in Vermont Food Service and Drinking Establishments

Getting to 2020 Chapter 2: Goals and Indicators, Goal 17, Vermont Farm to Plate (2019), <https://www.vtfarmtoplate.com/getting-to-2020/17-jobs-and-establishments>.

School Food Procurement

End Notes:

1. *How Do We Feed Vermont's School Children?*, VT FEED, (Sep. 2019), <https://vtfeed.org/resources/how-do-we-feed-vermonts-school-children>.
2. *See 2018 Vermont Integrated Food, Farm, and Nutrition Programming Data Harvest: Results for the 2016-2017 School Year*, Vermont Agency of Agriculture, Food & Markets, Agency of Education, Department of Health, (Oct. 2018), https://vermontfarmtoschool.org/sites/default/files/2018%20FTS%20Data%20Harvest_103118_final.pdf.
3. Erin Roche, Florence Becot, Jane Kolodinsky, PhD and David Conner, PhD, *Economic Contribution and Potential Impact of Local Food Purchases Made by Vermont Schools*, University of Vermont Center for Rural Studies (May 2016), https://agriculture.vermont.gov/sites/agriculture/files/documents/Farm_to_School_Institution/Economic%20Contribution%20of%20Farm%20to%20School%20in%20Vermont%20.pdf.
4. Food Service Management Company (FSMC) is a for profit company that is contracted by a school or district to run the school food programs.

Data Sources:

School Local Food Purchasing and Plans to Purchase More

2018 Vermont Integrated Food, Farm, and Nutrition Programming Data Harvest: Results for the 2016-2017 School Year, Vermont Agency of Agriculture, Food & Markets, Agency of Education, Department of Health, 15 (Oct. 2018), https://vermontfarmtoschool.org/sites/default/files/2018%20FTS%20Data%20Harvest_103118_final.pdf.

Commonly Cited Barriers

2018 Vermont Integrated Food, Farm, and Nutrition Programming Data Harvest: Results for the 2016-2017 School Year, Vermont Agency of Agriculture, Food & Markets, Agency of Education, Department of Health, 18 (Oct. 2018), https://vermontfarmtoschool.org/sites/default/files/2018%20FTS%20Data%20Harvest_103118_final.pdf.

Percent of Schools Purchasing Local Products by Category

2018 Vermont Integrated Food, Farm, and Nutrition Programming Data Harvest: Results for the 2016-2017 School Year, Vermont Agency of Agriculture, Food & Markets, Agency of Education, Department of Health, 17 (Oct. 2018), https://vermontfarmtoschool.org/sites/default/files/2018%20FTS%20Data%20Harvest_103118_final.pdf.

Sheep

End Notes:

1. Due to policy shifts and trade agreements and textile processing moving overseas. Jackie Jones, *Shifts in US Merchandise Trade, 2014: Textiles and Apparel*, United States International Trade Commission: Textiles and Apparel (2015), https://www.usitc.gov/research_and_analysis/trade_shifts_2014/textiles_and_apparel.htm.
2. *Census of Agriculture, Volume 1, Geographic Area Series Part 45, Vermont, State and County Data*, United States Department of Agriculture, National Agricultural Statistics Service (Table 27) 219 (Apr. 2019), https://www.nass.usda.gov/Publications/AgCensus/2017/Full_Report/Volume_1,_Chapter_1_State_Level/Vermont/vtv1.pdf.
3. Interview with Vermont Sheep and Goat Association (Mar. 2020).
4. MacKenzie Waro, Maria Kalaitzandonakes, Michael Baker, Christian Peters, Miguel Gomez, & Michael Conrad, *The State of the USDA Inspected Red Meat Harvest & Processing Industry in New York & New England*, Cornell University (2019), https://cpb-us-e1.wpmucdn.com/blogs.cornell.edu/dist/3/3955/files/2019/04/USDA_Meat_Processing_Extension_Bulletin-1a9w3x7.pdf.
5. Kimberly Hagen and Suzy Hodgson, *Early Findings on Wool Pellets As A Fertilizer for Vegetable Operations*, University of Vermont Extension Sustainable Agricultural Enterprise Research (2019), https://www.uvm.edu/sites/default/files/media/wool_pellet_fertilizer_handouts_jan_20_0.pdf.

Data Sources:

Number of Vermont Sheep Farms

Census of Agriculture, Volume 1, Geographic Area Series Part 45, Vermont, State and County Data, United States Department of Agriculture, National Agricultural Statistics Service (Table 27) 219 (Apr. 2019), https://www.nass.usda.gov/Publications/AgCensus/2017/Full_Report/Volume_1,_Chapter_1_State_Level/Vermont/vtv1.pdf.

Number of Sheep and Pounds of Fiber Sold by Vermont Farms

Census of Agriculture, Volume 1, Geographic Area Series Part 45, Vermont, State and County Data, United States Department of Agriculture, National Agricultural Statistics Service (Table 27) 219 (Apr. 2019), https://www.nass.usda.gov/Publications/AgCensus/2017/Full_Report/Volume_1,_Chapter_1_State_Level/Vermont/vtv1.pdf.

Specialty Foods

End Notes:

1. *Vermont Farming and Food-Related Manufacturing and Trade Employment and Sales*, Prepared for Vermont Farm to Plate by Nick Rockler, Kavet Rockler & Associates (2017), <https://www.vtfarmtoplate.com/resources>.
2. *Vermont Farming and Food-Related Manufacturing and Trade Employment and Sales*, Prepared for Vermont Farm to Plate by Nick Rockler, Kavet Rockler & Associates (2017), <https://www.vtfarmtoplate.com/resources>.
3. *Vermont Farming and Food-Related Manufacturing and Trade Employment and Sales*, Prepared for Vermont Farm to Plate by Nick Rockler, Kavet Rockler & Associates (2017), <https://www.vtfarmtoplate.com/resources>; *Getting to 2020 Chapter 2: Goals and Indicators, Goal 17*, Vermont Farm to Plate (2019), <https://www.vtfarmtoplate.com/getting-to-2020/17-jobs-and->

[establishments.](#)

4. *Census of Agriculture, Volume 1, Geographic Area Series Part 45, Vermont, State and County Data*, United States Department of Agriculture, National Agricultural Statistics Service (Table 2) 9 (Apr. 2019), https://www.nass.usda.gov/Publications/AgCensus/2017/Full_Report/Volume_1_Chapter_1_State_Level/Vermont/vtv1.pdf.

Data Sources:

2017 Vermont Food System Economic Output

Vermont Farming and Food-Related Manufacturing and Trade Employment and Sales, Prepared for Vermont Farm to Plate by Nick Rockler, Kavet Rockler & Associates (2017), <https://www.vtfarmtoplate.com/resources>; *Getting to 2020 Chapter 2: Goals and Indicators, Goal 17*, Vermont Farm to Plate (2019), <https://www.vtfarmtoplate.com/getting-to-2020/17-jobs-and-establishments>.

Number of Vermont Food Manufacturing Businesses

Getting to 2020 Chapter 2: Goals and Indicators, Goal 17, Vermont Farm to Plate (2019), <https://www.vtfarmtoplate.com/getting-to-2020/17-jobs-and-establishments>.

Spirits

End Notes:

1. Data from Kyle Harris conversation with DLC. Not all license holders are producers or rectifiers and therefore do not generate any products for sale.

Data Sources:

Vermont-Made New Products

Annual Report 2019, Vermont Department of Liquor and Lottery (Feb. 2020), <https://liquorcontrol.vermont.gov/news/2019-annual-report>.

Top-Selling Vermont-Made Spirits

Annual Report 2019, Vermont Department of Liquor and Lottery (Feb. 2020), <https://liquorcontrol.vermont.gov/news/2019-annual-report>.

Succession

Data Sources:

Agricultural Acres in Vermont

2017 Census of Agriculture, Volume 1, Geographic Area Series Part 45, Vermont, State and County Data, United States Department of Agriculture, National Agricultural Statistics Service, (Table 1) 7-8 (Apr. 2019), https://www.nass.usda.gov/Publications/AgCensus/2017/Full_Report/Volume_1_Chapter_1_State_Level/Vermont/vtv1.pdf.

Percent of Agricultural Acres with Young Producer

2017 Census of Agriculture, Volume 1, Geographic Area Series Part 45, Vermont, State and County Data, United States Department of Agriculture, National Agricultural Statistics Service, (Tables

67-70) 68-71 (Apr. 2019), https://www.nass.usda.gov/Publications/AgCensus/2017/Full_Report/Volume_1,_Chapter_1_State_Level/Vermont/vtv1.pdf.

Supporting Future Farmers

Data Sources:

Age Distribution of Vermont Producers

Census of Agriculture, Vermont State, and County Data, United States Department of Agriculture, National Agricultural Statistics Service (See Tables 'Young Producers') (2007, 2017) (Multiple Years), <https://www.nass.usda.gov/AgCensus/index.php>.

New and Beginning Farmers Text Box

Census of Agriculture, Vermont State, and County Data, United States Department of Agriculture, National Agricultural Statistics Service (See Tables 'Female Producers- Selected Producer Characteristics') 2007, 2017 (Multiple Years), <https://www.nass.usda.gov/AgCensus/index.php>.

Census of Agriculture, Vermont State, and County Data, United States Department of Agriculture, National Agricultural Statistics Service (See Tables 'New and Beginning Producers - Selected Producer Characteristics') 2007, 2017 (Multiple Years), <https://www.nass.usda.gov/AgCensus/index.php>.

Sophie Ackoff, Andrew Bahrenburg, Lindsey Lusher Shute, *Building a Future with Farmers II: Results and Recommendations From the National Young Farmer Survey*, National Young Farmers Coalition (Nov. 2017) <https://www.youngfarmers.org/wp-content/uploads/2018/02/NYFC-Report-2017.pdf>.

Farmland Access Text Box

Census of Agriculture, Vermont State, and County Data, United States Department of Agriculture, National Agricultural Statistics Service (See Tables 'Young Producers') (2007, 2017) (Multiple Years), <https://www.nass.usda.gov/AgCensus/index.php>.

Sophie Ackoff, Andrew Bahrenburg, Lindsey Lusher Shute, *Building a Future with Farmers II: Results and Recommendations From the National Young Farmer Survey*, National Young Farmers Coalition (Nov. 2017) <https://www.youngfarmers.org/wp-content/uploads/2018/02/NYFC-Report-2017.pdf>.

Census of Agriculture, Vermont State, and County Data, United States Department of Agriculture, National Agricultural Statistics Service (See Tables 'Young Producers') (2007, 2017) (Multiple Years), <https://www.nass.usda.gov/AgCensus/index.php>.

Supporting Farm Businesses Text Box

Census of Agriculture, Vermont State, and County Data, United States Department of Agriculture, National Agricultural Statistics Service (See Tables 'Young Producers') (2007, 2017) (Multiple Years), <https://www.nass.usda.gov/AgCensus/index.php>.

Swine

End Notes:

1. *Census of Agriculture, Volume 1, Geographic Area Series Part 45, Vermont, State and County Data*, United States Department of Agriculture, National Agricultural Statistics Service (Table 19) 23 (Apr. 2019), https://www.nass.usda.gov/Publications/AgCensus/2017/Full_Report/Volume_1,

[Chapter 1 State Level/Vermont/vtv1.pdf](#).

2. *Census of Agriculture, Volume 1, Geographic Area Series Part 45, Vermont, State and County Data*, United States Department of Agriculture, National Agricultural Statistics Service (Tables 19-26) 23-25 (Apr. 2019), https://www.nass.usda.gov/Publications/AgCensus/2017/Full_Report/Volume_1_Chapter_1_State_Level/Vermont/vtv1.pdf. The categories of swine are described in multiple places, including: <https://www.pork.org/blog/types-pig-farming-u-s/>.

3. *Census of Agriculture, Volume 1, Geographic Area Series Part 45, Vermont, State and County Data*, United States Department of Agriculture, National Agricultural Statistics Service (Table 19) 23 (Apr. 2019), https://www.nass.usda.gov/Publications/AgCensus/2017/Full_Report/Volume_1_Chapter_1_State_Level/Vermont/vtv1.pdf.

Data Sources:

Total Sales of Vermont Swine

Census of Agriculture, Volume 1, Geographic Area Series Part 45, Vermont, State and County Data, United States Department of Agriculture, National Agricultural Statistics Service (Table 19) 23 (Apr. 2019), https://www.nass.usda.gov/Publications/AgCensus/2017/Full_Report/Volume_1_Chapter_1_State_Level/Vermont/vtv1.pdf.

Number of Farms by Number of Swine Sold

Census of Agriculture, Volume 1, Geographic Area Series Part 45, Vermont, State and County Data, United States Department of Agriculture, National Agricultural Statistics Service (Table 20) 23 (Apr. 2019), https://www.nass.usda.gov/Publications/AgCensus/2017/Full_Report/Volume_1_Chapter_1_State_Level/Vermont/vtv1.pdf.

Tax and Legal Services

End Notes:

1. *Census of Agriculture, Volume 1, Geographic Area Series Part 45, Vermont, State and County Data*, United States Department of Agriculture, National Agricultural Statistics Service (Table 74) 146-171 (Apr. 2019), https://www.nass.usda.gov/Publications/AgCensus/2017/Full_Report/Volume_1_Chapter_1_State_Level/Vermont/vtv1.pdf.

2. *The Vermont Joint Commission on the Future of Legal Services*, Prepared for the Vermont Bar Association by the First Year Studies Committee (Sept. 24, 2015), <https://www.vtbar.org/UserFiles/files/Commission/Commission%20Report%20-%20First%20Year%20Study.pdf>.

3. *The Past, Present and Future of Rural New England: A Study of the Demographic Crisis and How it Affects the Rural Lawyer Shortage*. 71 ME.L.Rev. 273 (2019).

4. *Census of Agriculture, Volume 1, Geographic Area Series Part 45, Vermont, State and County Data*, United States Department of Agriculture, National Agricultural Statistics Service (Table 74) 146-171 (Apr. 2019), https://www.nass.usda.gov/Publications/AgCensus/2017/Full_Report/Volume_1_Chapter_1_State_Level/Vermont/vtv1.pdf.

5. *Census of Agriculture, Volume 1, Geographic Area Series Part 45, Vermont, State and County Data*, United States Department of Agriculture, National Agricultural Statistics Service (Table 52) 44 (Apr. 2019), https://www.nass.usda.gov/Publications/AgCensus/2017/Full_Report/Volume_1_Chapter_1_State_Level/Vermont/vtv1.pdf.

Data Sources:

Census of Agriculture, Volume 1, Geographic Area Series Part 45, Vermont, State and County Data, United States Department of Agriculture, National Agricultural Statistics Service (Table 74) 146-171 (Apr. 2019), https://www.nass.usda.gov/Publications/AgCensus/2017/Full_Report/Volume_1,_Chapter_1_State_Level/Vermont/vtv1.pdf.

Water Quality

Data Sources:

State Funding Awarded for Clean Water Projects

Vermont Clean Water Initiative 2018 Investment Report, Vermont Agency of Administration, 6-9 (Jan. 2019), https://dec.vermont.gov/sites/dec/files/wsm/erp/docs/2019-01-15%20Vermont%20Clean%20Water%20Investment%20Report%20SFY2018_Revised%202019-02-01.pdf.